12M3 MOTOR GRADER
PIRACICABA, BRAZIL

	Ship Weight lbs	LIST PRICE AT DEALER

Standard Equipment:

POWERTRAIN

Air cleaner, dual stage dry type radial seal with service indicator and automatic dust ejector
Air-to-air after cooler (ATAAC)
Belt, serpentine, automatic tensioner
Brakes, oil disc, four-wheel, hydraulic
Demand fan, hydraulic
Differential, lock/unlock, Automatic
Drain, engine oil, ecology
Electronic over-speed protection
Engine:
-C9 with ACERT technology, diesel with automatic engine derate and idle control. EPA/ARB Tier 4 Final & EU stage.
-IV certified Engine & Aftertreatment
Parking brake, multi-disc, sealed and oil cooled.
Sediment drain, fuel tank.
Tandem drive
Transmission, 8 speed forward and 6 speed reverse, power shift, direct drive
VHP Plus (Variable Horse Power Plus)

ELECTRICAL

Alarm, back-up
Alternator, 150 ampere, sealed
Batteries, maintenance free, heavy duty, 1125 CCA
Breaker panel, ground accessible
Electrical hydraulic valves
Electrical system, 24V
Grade Control Ready (Cab harness, software, electrical hydraulic valves, bosses and brackets)
Lights, reversing
Lights, roading, roof-mounted, stop and tail, LED
Starter, electric

OPERATOR ENVIRONMENT

Air Conditioning with heater
Articulation, automatic return to center
Centershift pin indicator
Display, digital speed and gear
Doors, left and right side with wiper
Gauge, machine level
Gauges (analog) inside the cab (includes fuel, articulation, engine coolant temp, engine RPM, and hydraulic oil temp, DEF/AdBlue)
Joystick, adjustable armrests
Joystick gear selection, hydraulic power steering hydraulic controls (right/left, blade lift w/ float position, blade sideshift and tip, circle drive, centershift, front wheel lean and articulation and steering)
Lights, night time cab
Messenger operator information system
Meter, hour, digital
Mirror, inside rearview, wide angle
Power port, 12V
Radio ready, entertainment
ROPS cab, sound suppressed
- 69dB(A) - ISO 6394
Seat,cloth-covered, comfort suspension
Storage area for cooler/lunchbox
Throttle control, electronic
Windows laminated glass:
-Fixed front with intermittent wiper
-Door with intermittent wipers (3)
Windows tempered:
-Left and right side wipers
-Rear with intermittent wiper
Cab storage

SAFETY AND SECURITY

Clutch, circle drive slip
Doors, 2 engine compartment, (two left hand, two right hand) locking
Doors, 2 service, left and right locking
Ground level engine shutdown
Hammer (emergency exit)
Horn, electric
Lockout, hydraulic implement (for roading and servicing)
Seat belt, retractable 76.2 (3")
Secondary steering
Tandem walkway/guards

TIRES, RIMS, AND WHEELS

A partial allowance for tires on 254mm x 609.6mm (10" x 24") multi-piece rims is included in the base machine price and weight.

FLUIDS

Antifreeze
Extended life coolant -35C/-30F

OTHER STANDARD EQUIPMENT

Accumulators -brake -dual certified
Drawbar,6 shoe w/replaceable wear strips
Fluid check, ground level
Fuel tank, 398 liters (105 gallon)
Ground level fueling
DEF/AdBlue Tank, 21 liters (5.5 gallon)

12M3 MOTOR GRADER
PIRACICABA, BRAZIL

	Ship Weight lbs	LIST PRICE AT DEALER

OTHER STANDARD EQUIPMENT (CONT.)

Hydraulic lines for base functions
Pump, hydrailic, high capacity
(98cc / 15 cu in)
Radiator, cleanout access
(both sides with swing doors)
SOS ports - engine -hydraulic
-transmission -coolant -fuel
Tandem walkway/guards
Tool box
Debris guard

12M3 MOTOR GRADER PIRACICABA, BRAZIL	Ship Weight lbs	LIST PRICE AT DEALER

Lane 2 is reserved for the Base Order Management Program.
Please use Lane 2 when placing orders that are part of the Base Order Management Program.

12M3 MOTOR GRADER PIRACICABA, BRAZIL		Ship Weight lbs	LIST PRICE AT DEALER
384-8606	**12M3 MOTOR GRADER**	37,145	**$348,620**
	LANE 2 - AVAILABLE FROM PIRACICABA FACTORY LANE 3 - AVAILABLE FROM PIRACICABA FACTORY		
0P-2978	**12M3 MISC MATL**	0	**NC**
	AVAILABLE FROM PIRACICABA FACTORY		

Only reference numbers that have the text
"ALSO AVAILABLE ON A MISCELLANEOUS ORDER" can be used on a MISC order.

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

LANE SELECTION

	0P-9002	**LANE 2 ORDER**	0	NC
		Only for dealers enrolled in the Base Orders Management (BOM) program.		
	0P-9003	**LANE 3 ORDER**	0	NC

REGIONAL PACKAGES

L	385-9294	**GLOBAL ARRANGEMENT**	0	NC
		Provides standard brake accumulators. For use in temperatures above -18C		
		CANNOT BE USED WITH: WEATHER, COLD PLUS		
L	385-9297	**GLOBAL ARRANGEMENT,LOW AMBIENT**	0	NC
		Provides brake accumulators for low ambient temperatures below -18C		
		CANNOT BE USED WITH: EU dealers		
		WEATHER, STANDARD		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

PERFORMANCE PACKAGES

MOLDBOARDS

L	349-3046	**MOLDBOARD, 12'**	0	NC
		INCLUDES: - Moldboard 12' x 24" x 7/8" (3658mm x 610mm x 22mm) - Curved Cutting Edge, 6" X 5/8" (152mm x 16mm) - End Bits, Standard, Without Overlay		
L	349-3047	**MOLDBOARD, 14' BASIC**	347	$1,140
		INCLUDES: - Moldboard 14' x 24" x 7/8" (4267mm x 610mm x 22mm) - Curved Cutting Edge, 8" x 3/4" (203mm x 19mm) - End Bits, Standard, Without Overlay		
L	349-3048	**MOLDBOARD, 14' PLUS**	650	$2,710
		INCLUDES: - Moldboard 14' x 27" x 1" (4267mm x 686mm x 25mm) - Curved Cutting Edge, 8" x 3/4" (203mm x 19mm) - End Bits, Standard, With Overlay		

WORK TOOLS

L	393-4882	**NO HITCH**	0	NC
L	337-7510	**HITCH, TOWING**	0	$540
L	324-0889	**RIPPER/SCARIFIER**	2,120	$20,380
		Hydraulic, rear mounted ripper with three straight ripper shanks. Can accommodate two additional ripper shanks and nine scarifier teeth which must be ordered separately. REQUIRES: A hydraulics control part number that has a ripper function. INCLUDES: Ripper Mounting		
L	539-6894	**RIPPER, SNOW WING READY**	0	$23,830
		FOR USE IN LANE 3 ONLY Hydraulic, rear mounted ripper with three straight ripper shanks. Includes the mount for the Caterpillar Mastless Snow Wing on the right side of the ripper backplate. Can accommodate two additional ripper shanks, nine scarifier teeth, and the Caterpillar Mastless Snow wing which must be ordered separately. CANNOT BE USED WITH: Legacy Snow Wings		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

PERFORMANCE PACKAGES (CONT.)

WEATHER PACKAGES

L	353-3316	**WEATHER, STANDARD**	0	NC
		Recommended for year around use when typical ambient temperature range is 0C (32F) to 43C (110F) and operating at altitude below 1220 m (4000 feet). INCLUDES: - Batteries, Heavy Duty - 1125 CCA - Oil, Hydraulic, 10W FOR USE WITH: GLOBAL ARRANGEMENT FOR USE WITH: EUROPEAN ARRANGEMENT FOR USE WITH: EUROPEAN AR. W/ ROADING (TUV) CANNOT BE USED WITH: GLOBAL ARRANGEMENT,LOW AMBIENT		
L	394-4521	**COLD WEATHER PACKAGE**	0	$760
		Recommended for year around use when typical ambient temperature range is -18C (0F) to 43C (110F) and operating at altitude below 1220 m (4000 feet). INCLUDES: - Starting Aid, Ether - Batteries, Extreme Duty -1400 CCA - Oil, Hydraulic, 10W ONLY FOR USE WITH: GLOBAL ARRANGEMENT GLOBAL ARRANGEMENT,LOW AMBIENT EUROPEAN ARRANGEMENT EUROPEAN AR. W/ ROADING (TUV) CANADIAN ARRANGEMENT		
L	394-4522	**COLD WEATHER PLUS PACKAGE**	38	$3,005
		Recommended for year around use when typical ambient temperature range is -40 degrees C (-40F) to 40C (104) or operating at altitude above 1220 m (4000 feet). INCLUDES: - Starting Aid, Ether - Cold Start; Transmission oil and fan brake bypass - Batteries, Extreme Duty -1400 CCA - Oil, Hydraulic, Cold, 0W REQUIRES: HEATER, ENGINE COOLANT, 120V or HEATER, ENGINE COOLANT, 240V REQUIRED BY: SNOW ARRANGEMENT FOR USE WITH: GLOBAL ARRANGEMENT,LOW AMBIENT FOR USE WITH: CANADIAN ARRANGEMENT FOR USE WITH: EUROPEAN ARRANGEMENT FOR USE WITH: EUROPEAN AR. W/ ROADING (TUV) CANNOT BE USED WITH: GLOBAL ARRANGEMENT		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

PERFORMANCE PACKAGES (CONT.)

ACCUMULATORS

L	305-2927	**LINES,STANDARD W/O ACCUMULATOR**	0	NC
		Provides hydraulic lines for base functions		
L	358-9338	**ACCUMULATORS, BLADE LIFT**	170	$4,665
		Provides hydraulic lines for base functions and accumulators for the blade lift. Allows approximately 1-3" of vertical blade travel to reduce impact loads. Nitrogen/oil accumulators activated by electric switch.		
		CANNOT BE USED WITH: Canadian Dealers.		

PRECLEANER

L	380-6774	**PRECLEANER, NON SY-KLONE**	0	NC
		Includes dust ejector for medium to heavy dust environments.		
L	380-6775	**PRECLEANER, SY-KLONE**	5	$750
		Recommended for environments with large debris (leaves, chips, large grass, etc.)		

POWERTRAIN

OIL CHANGE

L	324-5328	**DRAIN, GRAVITY, ENGINE OIL**	0	NC
		Standard engine oil drain		
L	501-1163	**DRAIN, HIGH SPEED, ENGINE OIL**	0	$286
		High speed engine oil drain. Requires pump at service location to be attached to coupling receiver for high speed flow. HSO drain can also manual/gravity drain.		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS

NOTE: Optional Control Locations

Caterpillar offers many attachment hydraulic controls to operate work tools. Depending on which hydraulic part number is selected, the operating electro-hydraulic switches may include the auxiliary pod, mini-joystick located on the auxiliary pod, and/or the ripper control pod.

NOTE: Auxiliary controls that can have float

Auxiliary Pod Controls

```
INDEX = Index Finger (front lift)(float capability)
MID = Middle Finger(dozer angle 1)
RING = Ring Finger (dozer angle 2)
LITTLE= Little Finger (float capability)
```

NOTE: Mini-Joystick

```
 Fore/Aft
     .
    / \
     |
<--------->  Left/Right (float capability)
     |
    \ /
     .
```

NOTE: Ripper Control Pod

```
RH1   =  Front Lift (float capability)
RH2   =  Ripper-Scarifier Control
RHD   =  Ripper Handle Dual Switch (RH1 & RH2)
```

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

NOTE: Common Functions

COMMON FUNCTIONS:

Base = 8 functions: right and left blade lift, circle turn, drawbar center shift, blade side shift, blade tip, front wheel lean, frame articulation.

```
     FL      = Front Lift (moves front work tools up/down)
     DA1     = Dozer Angle 1 (angles front blade left OR right)
     DA2     = Dozer Angle 2 (angles front blade left AND right)
     RIP     = Rear Mounted Ripper (moves ripper up/down)
     MMS     = Mid-Mounted Scarifier
     WM      = Wing Mast
     WT      = Wing Tilt
     Float   = Built-in feature of valve section that opens both the
               work ports to tank. The external forces (weight of the
               work ports to tank. The external forces (weight of the
                implement) allows free movement of the implement.
     Flow Rate=Provides maximum rate of fluid flow from the specific
                work port.  B/A represents the maximum flow rate in
                Port B/Port A* in LPM (liters per minute).
                Port B/Port A* in LPM (liters per minute).

 *NOTE: Each valve section has two work ports (Port A and Port B).
     Port A:  Used to either raise implement or move implement to the
     right or for clockwise rotation of the implement.
     Port B:  Used to either lower implement or move implement to the
     left or for counter-clockwise rotation of the implement.
```

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

HYDRAULIC VALVE LOCATIONS

This illustration shows the factory installed switch location for each function by hydraulic part number.

Part Number	MINI-JOYSTICK Front Aft	MINI-JOYSTICK Left/ Right Float	MINI-JOYSTICK Index with Float	AUXILIARY POD Mid	AUXILIARY POD Ring	AUXILIARY POD Little	RIPPER POD RHD RH1	RIPPER POD RHD RH2
242-5056								
385-8094								RIPPER
Float:								N
Flow rate:								49/49
354-4113								MID-MOUNT SCARIFIER
Float:								Y
Flow Rate:								25/36
309-9848							FR.LIFT	
Float:							Y	
Flow Rate:							46/60	
385-8095							FR.LIFT	RIPPER
Float:							Y	N
Flow rate:							46/60	49/49
395-2008	MAST	TILT	FR.LIFT					
Float:	N	N	Y					
Flow rate:	72/72	41/30	46/60					
385-8096			FR.LIFT	DA1				RIPPER
Float:			Y	N				N
Flow rate:			46/60	72/72				49/49
385-8099	MAST	TILT	FR.LIFT					RIPPER
Float:	N	Y	Y					N
Flow rate:	72/72	74/86	46/60					49/49
385-8100	MAST	TILT	FR.LIFT					RIPPER
Float:	N	N	Y					N
Flow rate:	72/72	41/30	46/60					49/49
395-2009	MAST	TILT	FR.LIFT	DA1	MID-MOUNT SCARIFIER			
Float:	N	N	Y	N	N			
Flow rate:	72/72	41/30	46/60	72/72	25/36			

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

HYDRAULIC VALVE LOCATIONS LANE 3 ONLY

Part Number	MINI-JOYSTICK Front Aft	MINI-JOYSTICK Left/ Right Float	AUXILIARY POD Index with Float	AUXILIARY POD Mid	AUXILIARY POD Ring	AUXILIARY POD Little	RIPPER POD RH1	RIPPER POD RH2
385-8097			FR.LIFT	MID-MOUNT SCARIFIER				RIPPER
Float:			Y	N				N
Flow rate:			46/60	49/49				25/36
385-8101	MAST	TILT	FR.LIFT	DA1				RIPPER
Float:	N	N	Y	N				N
Flow rate:	72/72	41/30	46/60	72/72				49/49
385-8103	MAST	TILT	FR.LIFT	DA1	DA2			RIPPER
Float:	N	N	Y	N	N			N
Flow rate:	72/72	41/30	46/60	72/72	72/72			49/49
481-8610	MAST	TILT	FR.LIFT	DA1	DA2			RIPPER
Float:	N	N	Y	N	N			N
Flow rate:	72/72	74/86	46/60	72/72	72/72			49/49

HYDRAULIC VALVE PART NUMBERS

L	242-5056	**HYDRAULICS, BASE** . . . . . 0 Base hydraulic system includes machine articulation, wheel lean, left and right blade lift with independent float, drawbar centershift, circle drive, blade sideshift and tip.		NC
L	385-8094	**BASE + 1 (RIP)**. . . . . 21 Ripper function. Includes the Ripper Lines. ONLY FOR USE WITH: RIPPER-SCARIFIER, REAR		$2,300
L	354-4113	**BASE + 1 (MMS)** . . . . . 21 Mid-Mount Scarifier function. Includes the Mid-Mount Scarifier Lines. ONLY FOR USE WITH: MID MOUNT SCARIFIER PACKAGE		$2,300
L	309-9848	**BASE + 1 (FL)**. . . . . 18 Front Lift function. Includes the Front Lift Lines. ONLY FOR USE WITH: LIFT GROUP, MANUAL, FRONT or FRONT BLADE PACKAGE		$1,890
L	385-8095	**BASE + 2 (FL,RIP)** . . . . . 37 Ripper and Front Lift functions. Includes the Front Lift Lines and Ripper Lines. ONLY FOR USE WITH: RIPPER-SCARIFIER, REAR and LIFT GROUP, MANUAL, FRONT or FRONT BLADE PACKAGE		$4,085
L	395-2008	**BASE + 3 (WM,WT-NOFLOAT,FL)** . . . . . 60 Front Lift, Snow Wing Mast, and Snow Wing Tilt ONLY FOR USE WITH: SNOW ARRANGEMENT and LIFT GROUP, MANUAL, FRONT or FRONT BLADE PACKAGE		$6,540

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

HYDRAULIC VALVE PART NUMBERS (Cont.)

L	385-8096	**BASE + 3 (FL,DA1,RIP)**	67	$7,460
		FOR USE IN LANE 3 ONLY Ripper, Front Lift and Angle functions. Includes the Front Lift Lines Dozer Angle 1 Lines, and Ripper Lines. ONLY FOR USE WITH: RIPPER-SCARIFIER, REAR and LIFT GROUP, MANUAL, FRONT or FRONT BLADE PACKAGE		
L	385-8099	**BASE + 4 (WM,WT-FLOAT,FL,RIP)**	85	$8,960
		Ripper, Front Lift, Snow Wing Mast and Snow Wing Tilt (74/86 with float) functions. Includes the Front Lift Lines and Ripper Lines. ONLY FOR USE WITH: SNOW ARRANGEMENT and RIPPER-SCARIFIER, REAR and LIFT GROUP, MANUAL, FRONT or FRONT BLADE PACKAGE		
L	385-8100	**BASE + 4 (WM,WT,FL,RIP) NOFLT**	85	$8,700
		FOR USE IN LANE 3 ONLY Ripper, Front Lift, Snow Wing Mast and Snow Wing Tilt (41/30 - No Float) functions. Includes the Front Lift Lines and Ripper Lines. ONLY FOR USE WITH: SNOW ARRANGEMENT and RIPPER-SCARIFIER, REAR and LIFT GROUP, MANUAL, FRONT or FRONT BLADE PACKAGE		
L	395-2009	**BASE + 5 (WM,WT,DA1,FL,MMS)**	120	$10,790
		FOR USE IN LANE 3 ONLY Snow Wing Mast, Snow Wing Tilt (41/30 - No Float) functions, Dozer Angle 1, Front LIFT, and Mid-Mount Scarifier Includes the Front Lift Lines, Angle 1 Lines, and Mid-Mount Scarifier Lines. ONLY FOR USE WITH: SNOW ARRANGEMENT and RIPPER-SCARIFIER, REAR and LIFT GROUP, MANUAL, FRONT or FRONT BLADE PACKAGE		
L	385-8097	**BASE+3 (RIP, MMS, FL)**	67	$7,460
		FOR USE IN LANE 3 ONLY Front Lift, Ripper and Mid-Mount Scarifier functions. Includes the Front Lift Lines, Ripper Lines and Mid-Mount Scarifier Lines. ONLY FOR USE WITH: RIPPER-SCARIFIER, REAR and MID MOUNT SCARIFIER PACKAGE and LIFT GROUP, MANUAL, FRONT or FRONT BLADE PACKAGE		
L	385-8101	**BASE + 5 (WM,WT,DA1,FL,RIP)**	120	$10,790
		FOR USE IN LANE 3 ONLY Snow Wing Mast, Snow Wing Tilt (41/30 - No Float) functions, Dozer Angle 1, Front LIFT, and Ripper. Includes the Front Lift Lines, Angle 1 Lines, and Ripper Lines. ONLY FOR USE WITH: SNOW ARRANGEMENT and MOUNT, SNOW WING, FRAME READY and RIPPER-SCARIFIER, REAR and LIFT GROUP, MANUAL, FRONT or FRONT BLADE PACKAGE		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

HYDRAULIC VALVE PART NUMBERS (Cont.)

L	385-8103	**BASE + 6(WM,WT,DA1,DA2,FL,RIP)**	130	$13,350
		FOR USE IN LANE 3 ONLY Ripper, Dozer Angle 1, Dozer Angle 2, Front Lift, Snow Wing Mast and Snow Wing Tilt (41/30 - No Float) functions. Includes the Front Lift Lines, Dozer Angle 2 Lines and Ripper Lines. ONLY FOR USE WITH: SNOW ARRANGEMENT and MOUNT, SNOW WING, FRAME READY and RIPPER-SCARIFIER, REAR and LIFT GROUP, MANUAL, FRONT or FRONT BLADE PACKAGE		
L	481-8610	**BASE+6(WM,WT+F,DA1,DA2,FL,RIP)**	130	$13,620
		FOR USE IN LANE 3 ONLY Ripper, Dozer Angle 1, Dozer Angle 2, Front Lift, Snow Wing Mast and Snow Wing Tilt (72/72 + Float) functions. Includes the Front Lift Lines, Dozer Angle 2 Lines and Ripper Lines. ONLY FOR USE WITH: SNOW ARRANGEMENT and MOUNT, SNOW WING, FRAME READY and RIPPER-SCARIFIER, REAR and LIFT GROUP, MANUAL, FRONT or FRONT BLADE PACKAGE		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

STARTERS, BATTERIES, & ALTERNATORS

STARTER ARRANGMENT

L	394-3945	**STARTER, ELECTRIC, HEAVY DUTY**	0	NC
		Provides a 715 Amp. starter		
L	395-3547	**STARTER, ELEC, EXTREME DUTY**	21	$408
		Recommended for Cold weather applications		
		Provides a 1000 Amp. starter		

ELECTRICAL

BRAKE LIGHTS

L	331-6793	**LIGHTS, BRAKE AND BACK-UP**	0	NC
		FOR USE IN LANE 3 ONLY		
		Provides stationary rear brake lights along with the back-up lights.		
		Does not include front headlights or turn signals		
		CANNOT BE USED WITH: 526-2563 EUROPEAN ARRANGEMENT		
		394-3871 EUROPEAN AR. W/ ROADING (TUV)		
		396-1966 SNOW ARRANGEMENT		
		553-2588 HEADLIGHTS, FRONT, LOW, LED		
		553-2589 HEADLIGHTS, FRONT, HIGH, LED		
		308-9370 HEADLIGHTS,FRONT, LOW, HALOGEN		
		308-9371 HEADLIGHTS,FRONT, HIGH,HALOGEN		
L	536-9969	**LIGHTS, ARM, FOLD DOWN**	0	$1,875
		Provides stationary rear brake lights along with the back-up lights, dimmer switch for road lighting, drop-down stop, tail, and rear turn signals and back-up lights.		
		REQUIRES: 553-2588 HEADLIGHTS, FRONT, LOW, LED or		
		553-2589 HEADLIGHTS, FRONT, HIGH, LED or		
		308-9370 HEADLIGHTS,FRONT, LOW, HALOGEN or		
		308-9371 HEADLIGHTS,FRONT, HIGH,HALOGEN		
		INCLUDED IN: 396-1966 SNOW ARRANGEMENT		

ROADING LIGHTS

L	421-7810	**LIGHTS, ROADING, HALOGEN**	0	NC
		Provides six halogen cab roof mounted roading lights.		
L	550-6608	**LIGHTS, ROADING, LED**	0	$1,245
		Provides six LED cab roof mounted roading lights.		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

OPERATOR ENVIRONMENT

CAB EXTERIOR

L	385-9553	**CAB, BASE (STANDARD GLASS)**	0	NC
		INCLUDES: - 150 amp alternator - Standard Glass CANNOT BE USED WITH: SNOW ARRANGEMENT EUROPEAN ARRANGEMENT EUROPEAN AR. W/ ROADING (TUV)		
L	385-9554	**CAB, PLUS (STANDARD GLASS)**	35	$1,105
		INCLUDES: - 150 amp alternator - Wiper/washer, rear - Standard Glass		
L	385-9555	**CAB, PLUS (ANTI-ICING GLASS)**	35	$6,630
		INCLUDES: - 270 amp alternator - Wiper/washer, rear - Front glass and RH door glass are heated.		

CAB INTERIOR

Bluetooth radio technology enables the use of a hands free function such as listening to music and making phone calls.
Authorization varies by country, please contact your Cat marketing representative with questions or click on the link below:
https://dealer.cat.com/en/products/technology.html

L	397-7456	**CAB, BASE (INTERIOR)**	0	NC
		INCLUDES: - Seat, mechanical suspension, cloth - Shade, Sun CANNOT BE USED WITH: SNOW ARRANGEMENT EUROPEAN ARRANGEMENT EUROPEAN AR. W/ ROADING (TUV)		
L	397-7457	**CAB, PLUS (INTERIOR)**	45	$3,010
		INCLUDES: - Seat, Air Suspension, Cloth, Heated - Radio,12V, AM/FM, Weatherband, Bluetooth, USB, Aux Input - Fan, defroster, rear window - Converter, Communication (CB) - Shade, Sun		
L	397-7458	**CAB, PREMIUM (INTERIOR)**	80	$4,580
		- Seat, air suspension, cloth; Heated, Ventilated - Radio,12V, AM/FM CD/MP3 Bluetooth, Weatherband, USB, Aux Input XM/Sirius Satellite (439-1564) - Fan, defroster, rear window - Converter, Communication (CB) - Shade, Sun *Recommended for Snow Removal		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

OPERATOR ENVIRONMENT (CONT.)

SEAT BELT

L	394-1492	**SEAT BELT**	0	NC
		Standard 3 inch seat belt		
L	394-1132	**SEAT BELT W/INDICATOR**	5	$193
		Standard 3 inch seat belt with indicator located on display panel		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

TECHNOLOGY PRODUCTS

PRODUCT LINK

Product Link enables the remote transmission of information about the location, operation, and condition of your equipment. Efficiently and effectively monitor performance of your assets to help keep your jobs on schedule, maintain equipment condition, and reduce the costs of owning and operating your fleet.

Availability varies by country, please contact your Cat marketing representative with questions or click on the link below:
HTTPS://DEALER.CAT.COM/en/bt/otd/machine-price-list.html
From there click on the 'PRODUCT LINK Hardware Certification" link.

L	464-6804	**PRODUCT LINK, SATELLITE PLE631**	29	**$432**
		Product Link Elite series PLE631 uses a satellite network to transmit location, utilization and condition information for viewing in Product Link's remote monitoring web interface. For use in areas with poor or no cellular coverage. Includes Network Manager.		
L	464-6442	**PRODUCT LINK, CELLULAR PLE641**	29	**NC**
		Product Link Elite series PLE641 offers expanded coverage including 3G UMTS and CDMA2000 as well as 2G GSM and CDMA cellular networks to transmit location, utilization and condition information for viewing in Product Link-s remote monitoring web interface. Cellulartechnology provides capabilities for frequent transmission and larger volumes of data.		

ACCUGRADE

L	362-5222	**NO ACCUGRADE**.	0	**NC**
L	462-7928	**INSTALLATION, ACCUGRADE READY**	90	**$4,830**
		Allows the Motor Grader to be equipped with either a Cross Slope, Sonic, Laser, GPS, or ATS electronics kit. Provides software, harnesses for sensors, mounting for sensors and blade mast bracket.		

NOTE: Highly recommended to select Advanced Joystick Controls. This will Allow for complete configuration and control when using 3 party grade control systems

L	462-7929	**GRADE CONTROL X SLOPE**	165	**$11,060**
		Allows the operator to manually control one end of the blade to match the curb or crown while automatically maintaining the desired slope of the blade. This system is used to maintain the crown of a gravel road or the shoulder of a road. Provides cab switches, software, harnesses for sensors, mounting for sensors and blade mast bracket. Accugrade Ready is included in this option REQUIRES: JOYSTICK CONTROLS, ADVANCED		

MOTOR GRADER CONTROLS

L	357-9151	**JOYSTICK CONTROLS, BASIC**	6	**NC**
		Standard joystick controls.		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

TECHNOLOGY PRODUCTS (CONT.)

MOTOR GRADER CONTROLS (Cont.)

L	458-8701	**JOYSTICK CONTROLS, ADVANCED**	8	$2,030
		Provides enhanced functionality while using ACCUGRADE READY or GRADE CONTROL X SLOPE INCLUDES: - Advanced Joysticks - Harness - Films REQUIRED BY: GRADE CONTROL X SLOPE RECOMMENDED FOR USE WITH: ACCUGRADE READY INCLUDED IN: 492-3594 CONTROLS, PERFORMANCE BUNDLE		

FUEL SYSTEMS

L	540-2373	**TANK, FUEL, STANDARD**	0	NC
		Standard Fuel 105 gallon (398 L)		
L	553-3677	**TANK, FUEL, FAST FILL**	0	$1,410
		Fuel tank is ready to accept fast fill 100 gpm nozzle. Tank capacity is 105 gallons (398 L)		

COOLING

COOLING FAN

L	542-4660	**FAN, STANDARD**	0	NC
		Provides a hydraulically driven demand fan		
L	542-4661	**FAN, REVERSING**	0	$3,105
		Provides a hydraulically driven demand fan that can reverse direction to prevent debris build up on the cooling package and engine enclosure. Includes automatic and manual controls for airflow reversal. Recommended for applications with a high content of airborne debris.		

TIRES, RIMS, AND WHEELS

Tires listed below include a set of six tires.
****To calculate tire loads with machine attachments, please reference the MG Tire Selection Pocket Guide (media #AEXQ0182), available on the Electronic Sales Library.**
All tire selections should be made with consideration for planned machine attachments (OEM and aftermarket) and their additional weight. Each tire has a maximum load rating that is not to be exceeded. The tire selection should be based on the maximum of all tire position loads on the machine. Assistance for calculating the highest tire load can be found in the Tire Load Worksheet in the back of the Caterpillar Motor Graders Tire Selection Pocket Guide. Failure to abide by the load ratings of the tires without first consulting the local tire supplier representative could result in nullification of the tire warranty.

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

TIRES, RIMS, AND WHEELS (CONT.)

Due to industry-wide tire availability limitations, tire brand and type cannot be guaranteed. Every effort will be made to satisfy your tire choice, but we reserve the right to change to alternate tires. If the tire brand cannot be supplied, the dealer will be contacted to propose alternative tire options. The dealer will need to respond with an alternative tire selection within 72 hours. If no response is provided by the supplier, the order will default to a comparable tire. As a consequence of a tire change the total machine price will be decreased or increased relative to the price of the new tire selection.

The information provided can be used to make a tire selection based on the particular conditions at the site. When available, the tire manufacturer should be consulted regarding proper tire selection.

Application specific

L	515-5399	**TIRES,14.0R24 SOIL TRACTION MP**	0	$5,970
		Tire group received will be one of the tire groups listed below: - Bridgestone VKT 1* on 10" x 24" multi-piece rims. - Michelin XGLA2 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	515-5400	**TIRES,17.5R25 SOIL TRACTION MP**	0	$12,450
		Tire group received will be one of the tire groups listed below: - Bridgestone VKT 1* on 14" x 25" multi-piece rims. - Michelin XTLA 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		

Goodyear

L	310-7325	**TIRE, 17.5R25 GY RL2+6S 1*SP**	100	$20,590
		Goodyear RL2+ 6S on 13" x 25" multi-piece rims THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	310-7326	**TIRE, 17.5R25 GY RL2+6S 1*MP**	1,200	$20,290
		Goodyear RL2+ 6S on 14" x 25" multi-piece rims THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		

Bridgestone

L	252-0714	**TIRES, 14.0 R24 BS VKT * G2**	1,540	$6,970
		Bridgestone VKT 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	252-0720	**TIRES, 14.0R24 BS VUT * L2 MP**	1,012	$7,250
		FOR USE IN LANE 3 ONLY Bridgestone VUT 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

TIRES, RIMS, AND WHEELS (CONT.)

Bridgestone (Cont.)

L	252-0775	**TIRES, 17.5R25 BS VKT * D2A MP**	1,810	$13,450
		Bridgestone VKT 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	252-0708	**TIRES, 14.0R24 BS VSW * G2 MP**	1,481	$13,320
		Bridgestone VSW 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	310-7331	**TIRES, 17.5R25 BS VSW * G2 MP**	1,888	$18,590
		Bridgestone VSW 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		

Firestone

L	252-0731	**TIRES, 17.5-25 FS SGG 12PR MP**	1,007	$2,730
		Firestone SGG 12PR on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (6393 lbs) 2900 kg.**		
L	252-0753	**TIRES, 17.5-25 FS SRG 12PR MP**	1,061	$6,240
		Firestone SRG LD 12PR bias (L3) on 14" multi-piece rim. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (6393 lbs) 2900 kg.**		

Michelin

L	252-0701	**TIRES,14.0R24 MX XSNO+ * G2 MP**	1,282	$14,890
		FOR USE IN LANE 3 ONLY Michelin XSNO 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (7824 lbs) 3550 kg.**		
L	252-0679	**TIRES,14.0R24 MX XGLA2 * G2 MP**	1,069	$10,860
		Michelin XGLA2 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (7824 lbs) 3550 kg.**		
L	252-0777	**TIRES,17.5R25 MX XSNO+ * G2 MP**	1,093	$20,490
		FOR USE IN LANE 3 ONLY Michelin XSNO+ 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	252-0771	**TIRES, 17.5R25 MX XTLA * L2 MP**	1,371	$16,110
		FOR USE IN LANE 2 ONLY Michelin XTLA 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	254-7904	**TIRES,14.0R24 MX XGLA2 * G2 SP**	709	$7,290
		Michelin XGLA 1* on 9" x 24" single piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (7824 lbs) 3550 kg.**		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

TIRES, RIMS, AND WHEELS (CONT.)

Michelin (Cont.)

L	254-7971	**TIRES, 17.5R25 MX XTLA * L2 SP**	979	$11,910
		FOR USE IN LANE 2 ONLY Michelin XTLA 1* on 13" x 25" single piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		

SHIPPING TIRES

L	440-3433	**TIRES, 17.5 SHIPPING, MP**	274	$2,250
		FOR USE WITH LANE 3 ONLY Shipping tire for use during shipment of machine only. Solid rubber band mounted on 14" x 25" multi-piece rims. Must be replaced with pneumatic tire before delivering to customer		
L	448-5577	**TIRES, 14.0 SHIPPING, MP**	90	$2,000
		FOR USE IN LANE 3 ONLY Shipping tire for use during shipment of machine only. Solid rubber band mounted on 10" x 24" multi-piece rims. Must be replaced with pneumatic tire before delivering to customer.		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER
		GUARDS		
		Guards		
L	323-6970	**GUARD GP, HITCH**	25	NC
		Standard bottom plate just rear of articulation hitch		
L	368-6239	**ARTICULATION GUARD.**	30	$1,260
		Provides protection for the articulation rods from snow, dirt and		
		Highly recommended for snow removal applications, or below freezing		
		CANNOT BE USED WITH : SOUND SUPRESSION (BOTTOM)		
		CANNOT BE USED WITH: EUROPEAN ARRANGEMENT		
		FLUIDS		
		COOLANT ANTIFREEZE		
L	469-8157	**COOLANT, 50/50, -35C (-31F)**	0	NC
		Standard engine coolant		
L	469-8160	**COOLANT, 60/40, -51C (-60F)**	0	$245 NET
		Engine coolant recommended for extreme low temperatures		
		CAB ANTIFREEZE		
	0P-1939	**ANTIFREEZE WINDSHIELD WASHER**	0	NC
		For use with machines with cab.		
		FUEL ANTIFREEZE		
	0P-3978	**FUEL ANTIFREEZE, -25C (-13F)**	0	NC
		Provides fuel (diesel) antifreeze protection down to -25C (-13F)		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

DOCUMENTATION

LANGUAGE SELECTION

NOTE: This part number will provide the language for Messenger and Statement of Conformity

L	**386-1254**	**LANGUAGE, ENGLISH**	0	**NC**

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

DOCUMENTATION (CONT.)

DECAL PACKAGES

NOTE: This part number will provide the films in ANSI or ISO
The word "WARNING" is on picto decals for ANSI.
Symbols only are on picto decals for ISO.

L	**442-9940**	**DECALS, ENGLISH (U.S.)** . . . . . 0 Provides decals as required by ANSI.		**NC**

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

FEATURE PACKAGES

REGIONAL OPTIONAL PACKAGES

L	396-1966	**SNOW ARRANGEMENT**	355	$6,460

INCLUDES:
361-3137 MOUNTING, WARNING LIGHT
396-3515 TRANSMISSION, AUTOSHIFT
536-9969 LIGHTS, ARM, FOLD DOWN
RECOMMENDED: MIRRORS, OUTSIDE HEATED
REQUIRES: 395-3547 STARTER, ELEC, EXTREME DUTY or
395-3745 STARTER, ELEC, EXTRM DUTY(TUV) and
394-4524 COLD WEATHER PLUS PACKAGE AWD and
385-9554 CAB, PLUS (STANDARD GLASS) or
385-9555 CAB, PLUS (ANTI-ICING GLASS) or
397-7457 CAB, PLUS (INTERIOR) or
397-7458 CAB, PREMIUM (INTERIOR) and
395-2008 BASE + 3 (WM, WT-NOFLOAT, FL) or
385-8099 BASE + 4 (WM, WT-FLOAT, FL, RIP) or
385-8100 BASE + 4 (WM, WT, FL, RIP) NOFLT or
395-2009 BASE + 5 (WM, WT, DA1, FL, MMS) or
385-8101 BASE + 5 (WM, WT, DA1, FL, RIP) or
385-8103 BASE + 6 (WM, WT, DA1, DA2, FL, RIP) or
481-8610 BASE + 6 (WM, WT+F, DA1, DA2, FL, RIP) and
390-9182 MOUNT,SNOW WING,FRAME RDY HAL or
551-6546 MOUNT,SNOW WING,FRAME RDY LED and
395-1967 LIGHTS, WORKING, PLUS, HALOGEN or
552-7285 LIGHTS, WORKING, PLUS, LED and
553-2589 HEADLIGHTS, FRONT, HIGH, LED or
308-9371 HEADLIGHTS,FRONT, HIGH,HALOGEN

WORK TOOL PACKAGES

L	358-9341	**MID MOUNT SCARIFIER PACKAGE**	2,076	$16,290

INCLUDES:
- Mid-mount Scarifier, V-Type with 11 Teeth
- MOUNT, MID-MOUNT SCARIFIER
CANNOT BE USED WITH: Any Front Lift group
CANNOT BE USED WITH: FENDERS, FRONT, NON-AWD

L	390-9182	**MOUNT,SNOW WING,FRAME RDY HAL**	251	$2,295

INCLUDES:
- Snow Wing Mount
- Light, halogen Snow Wing, Right Hand
REQUIRED BY: SNOW ARRANGEMENT

L	551-6546	**MOUNT,SNOW WING,FRAME RDY LED**	0	$2,710

INCLUDES:
- Snow Wing Mount
- Light, LED Snow Wing, Right Hand
REQUIRED BY: SNOW ARRANGEMENT

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

FEATURE PACKAGES (CONT.)

WORK TOOL PACKAGES (Cont.)

L	351-5178	**FRONT BLADE PACKAGE**	2,612	$11,510
		FOR USE IN LANE 3 ONLY INCLUDES: - Front Blade (Lift & Lower only) - Lines for Front Blade REQUIRES: A hydraulics control part number that has a Front Lift function. CANNOT BE USED WITH: COUNTERWEIGHT CANNOT BE USED WITH: PUSH PLATE CANNOT BE USED WITH: LIFT GROUP, MANUAL, FRONT (Installed) CANNOT BE USED WITH: LIFT GROUP, MANUAL, FRONT (NOT Installed)		

LIGHTING PACKAGES

L	395-1966	**LIGHTS, WORKING, BASIC,HALOGEN**	19	$770
		INCLUDES: - Lights, halogen, Heel 3X3 - Lights, halogen, Midframe Toe 3X3 - Switch, Work Lighting		
L	395-1967	**LIGHTS, WORKING, PLUS, HALOGEN**	22	$1,035
		INCLUDES: - Lights, halogen, ripper 3X3 - Lights, halogen, work, heel 3X3 - Lights, halogen, work, midframe toe 3X3 - Switch, Work Lighting CANNOT BE USED WITH: LIGHTS, ROADING, LED MOUNT,SNOW WING,FRAME RDY LED REQUIRED BY: SNOW ARRANGEMENT		
L	552-7285	**LIGHTS, WORKING, PLUS, LED**	0	$2,590
		INCLUDES: - Lights, LED, ripper 3X3 - Lights, LED, work, heel 3X3 - Lights, LED, work, midframe toe 3X3 - Switch, work lighting CANNOT BE USED WITH: LIGHTS, ROADING, HALOGEN MOUNT,SNOW WING,FRAME RDY HAL REQUIRED BY: Snow Arrangement		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

FEATURE PACKAGES (CONT.)

OTHER OPTIONAL ATTACHMENTS

L	338-1132	**LIGHT, LED WARNING STROBE**	5	$565
		Amber high-speed strobe beacon. REQUIRES: MOUNTING, WARNING LIGHT		
L	361-3137	**MOUNTING, WARNING LIGHT**	10	$725
		Provides the bracket for warning beacon light INCLUDED IN: SNOW ARRANGEMENT		
L	396-3515	**TRANSMISSION, AUTOSHIFT**	5	$3,205
		Improves ease of operation and maximizes productivity by automatically shifting the transmission at optimal shift points. REQUIRED BY: EUROPEAN ARRANGEMENT REQUIRED BY: EUROPEAN AR. W/ ROADING (TUV) INCLUDED IN: SNOW ARRANGEMENT		
L	380-3070	**LIGHTS, SERVICE, INTERNAL**	5	$193
		Provides two lights operated by a single manual switch located in the rear enclosure. One light illuminates the engine compartment and the second light illuminates the hydraulic level sight gauge.		

ELECTRICAL

FRONT HEADLIGHTS

L	308-9370	**HEADLIGHTS,FRONT, LOW, HALOGEN**	0	$640
		Provides low bar headlights with front turn signals. CANNOT BE USED WITH: 396-1966 SNOW ARRANGEMENT REQUIRED BY: 526-2563 EUROPEAN ARRANGEMENT or 394-3871 EUROPEAN AR. W/ROADING (TUV) or 536-9969 LIGHTS, ARM, FOLD DOWN		
L	308-9371	**HEADLIGHTS,FRONT, HIGH,HALOGEN**	0	$640
		Provides HIGH bar headlights with front turn signals. REQUIRED BY: 526-2563 EUROPEAN ARRANGEMENT or 394-3871 EUROPEAN AR. W/ROADING (TUV) or 536-9969 LIGHTS, ARM, FOLD DOWN or 396-1966 SNOW ARRANGEMENT		
L	553-2588	**HEADLIGHTS, FRONT, LOW, LED**	0	$1,365
		Provides LOW bar LED headlights with front turn signals. CANNOT BE USED WITH: SNOW ARRANGEMENT ANY HALOGEN LIGHTING OPTION REQUIRED BY: LIGHTS,ARM, FOLD DOWN 526-2563 EUROPEAN ARRANGEMENT 394-3871 EUROPEAN AR. W/ROADING (TUV)		
L	553-2589	**HEADLIGHTS, FRONT, HIGH, LED**	0	$1,365
		Provides HIGH bar LED headlights with front turn signals. CANNOT BE USED WITH: ANY HALOGEN LIGHTING OPTION REQUIRED BY: LIGHTS,ARM, FOLD DOWN SNOW ARRANGEMENT 526-2563 EUROPEAN ARRANGEMENT 394-3871 EUROPEAN AR. W/ROADING (TUV)		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

OPERATOR ENVIRONMENT

CAMERA

L	396-3921	**CAMERA, REAR VISION**	15	$2,535
		Provides a 115 degree color camera mounted on the rear of the hood that is connected to a 7 inch (178mm) LCD color display mounted in the cab which shows the view behind the machine. CAN NOT BE USED WITH: EUROPEAN AR. W/ ROADING (TUV) NOTE* EUROPEAN AR. W/ ROADING (TUV) includes front and rear facing camera REQUIRED BY: 394-3755 EUROPEAN ARRANGEMENT		

MIRRORS

L	233-3295	**MIRRORS, OUTSIDE MOUNTED**	32	$495
		Provides two convex mirrors for outside mounting on the left and right cab grab irons. NOTE: The mirrors are wrapped in bubble wrap and rotated toward the doors for protection during shipment. REQUIRED BY: EUROPEAN ARRANGEMENT EUROPEAN AR. W/ ROADING (TUV)		
L	344-0984	**MIRRORS, OUTSIDE HEATED 24V**	33	$670
		Provides mirrors with a 24V heating element to keep mirrors ice free in cold weather operations. NOTE: The mirrors are wrapped in bubble wrap and rotated toward the doors for protection during shipment. REQUIRED BY: EUROPEAN ARRANGEMENT EUROPEAN AR. W/ ROADING (TUV)		

TECHNOLOGY PRODUCTS

TECHNOLOGY PRODUCTS

L	393-6335	**SECURITY SYSTEM, MACHINE**	10	$720
		Provides a programmable system to manage access to the machine using special MSS keys. Deters theft, vandalism, and unauthorized use. Programmable features allow the following: * limits operators to selected machines * controls the days and hours equipment may be started * controls access by untrained operators or personnel		
L	458-2072	**STABLE BLADE**	3	$2,470
		Provides sensor and software to automatically reduce engine speed in various applications to reduce machine bounce and scalloping of surface.		
L	492-3594	**CONTROLS, PERFORMANCE BUNDLE**	176	$15,560
		The Auto Articulation in this bundle is an unrestricted version, not limited to 500 hours. INCLUDES: 435-2072 CONTROL,AUTO ARTICULATION-FULL 458-2072 STABLE BLADE 458-8701 JOYSTICK CONTROLS, ADVANCED 462-7929 GRADE CONTROL X SLOPE		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

TECHNOLOGY PRODUCTS (CONT.)

CONTROL AUTO ARTICULATION

L	483-2354	**CONTROL,AUTO ARTICULATION-DEMO** . . . . . 500 machine hour demo. Improves ease of operation, increases maneuverability and maximizes productivity by automatically matching articulation angle to steering angle. Includes 3 position rocker switch enabling 3 modes; off / forward / both forward and reverse.	0	**NC**
L	435-2072	**CONTROL,AUTO ARTICULATION-FULL** . . . . . Improves ease of operation, increases maneuverability and maximizes productivity by automatically matching articulation angle to steering angle. Includes 3 position rocker switch enabling 3 modes; off / forward / both forward and reverse.	0	**$1,810**

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER
		GUARDS		
		GUARDS		
L	367-6905	**GUARD, AXLE HOSE**	15	$1,075
		FOR USE IN LANE 3 ONLY Provides additional protection to the front axle cylinders, lines, and fittings. *NOTE* NOT recommended for use with tire chains		
L	366-2459	**GUARD, TRANSMISSION**	310	$3,400
		Provides a steel guard to protect the transmission from ground debris. INCLUDED IN: EUROPEAN ARRANGEMENT INCLUDED IN: EUROPEAN AR. W/ ROADING (TUV) REQUIRED BY: SOUND SUPRESSION (BOTTOM)		
L	377-1602	**SOUND SUPPRESSION (BOTTOM)**	243	$2,095
		FOR USE IN LANE 3 ONLY Provides two metallic side panels on either side of the transmission guard, enclosing the rear of the machine. This option prevents debris from accumulating on top of the transmission guard and also suppresses sound to meet EU sound regulations. REQUIRES: GUARD, TRANSMISSION REQUIRES: GUARD GP, HITCH INCLUDED IN: EUROPEAN ARRANGEMENT INCLUDED IN: EUROPEAN AR. W/ ROADING (TUV) CANNOT BE USED WITH: ARTICULATION GUARD		
L	546-0262	**SOUND SUPPRESSION, ENGINE ENCL**	0	$1,540
		FOR USE IN LANE 3 ONLY Suppression panels in engine enclosure doors. INLCUDED IN: EUROPEAN ARRANGEMENT INCLUDED IN: EUROPEAN AR. W/ ROADING (TUV)		
L	308-7368	**FENDERS, FRONT, NON-AWD**	124	$4,130
		Non-metallic front fenders aid in reducing the build-up of mud, snow, or debris. Front fenders are compatible with all Non-AWD tire sizes offered by the factory. ** NOT RECOMMENDED FOR USE WITH TIRE CHAINS. CANNOT BE USED WITH: MID MOUNT SCARIFIER PACKAGE CANNOT BE USED WITH: GUARD, AXLE HOSE		
L	262-0413	**FENDERS, REAR**	344	$5,030
		Provides non-metallic rear fenders to aid in reducing the build-up of mud, snow, or debris. Rear fenders are compatible with all MG tire sizes offered by the factory. INCLUDED IN: EUROPEAN AR. W/ ROADING (TUV) ** NOT RECOMMENDED FOR USE WITH TIRE CHAINS.		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

OTHER ATTACHMENTS

STARTING AIDS

L	249-5516	**HEATER, ENGINE COOLANT, 120V**	3	$245
		Engine coolant heater for 120 volt external power source. REQUIRED BY: SNOW ARRANGEMENT		

WORK TOOLS

WORK TOOLS

L	360-5074	**MOUNT, MID-MOUNT SCARIFIER**	131	$1,520
		Brackets welded to front frame for future installation of midmount scarifier. INCLUDED IN: SCARIFIER, MID-MOUNT V-TYPE NOTE: This is the mounting only and does not include the scarifier. RECOMMENDED: Hydraulics with a mid-mount scarifier (MMS) function NOTE: If you intend to purchase the mid-mounted scarifier, please note that the actual scarifier cannot be attached to the machine at same time as the Lift Group, Hydraulic, Front		
L	367-6880	**COUNTERWEIGHT**	885	$3,200
		FOR USE IN LANE 3 ONLY Front mounted.Recommended when machine is not equipped with front or rear mounted work tool attachments to provide additional blade performance capability. NOTE:This cannot be used in conjunction with push plate, front lift work tools,or the 'installed' hydraulic front lift. It can be used with a not installed hydraulic front lift NOT RECOMMENDED FOR USE WITH: RIPPER-SCARIFIER, REAR CANNOT BE USED WITH: PUSH PLATE CANNOT BE USED WITH: LIFT GROUP, MANUAL, FRONT (Installed) CANNOT BE USED WITH: FRONT BLADE PACKAGE		
L	367-6842	**PUSH PLATE, COUNTERWEIGHT**	2,822	$5,640
		Front mounted. Recommended when machine is equipped with rear ripper/scarifier and other rear mounted attachments. NOTE: This cannot be used in conjunction with counterweight, any front lift work tools,or the 'installed' hydraulic front lift. It can be used with a not installed hydraulic front lift CANNOT BE USED WITH: COUNTERWEIGHT CANNOT BE USED WITH: LIFT GROUP, MANUAL, FRONT (Installed) CANNOT BE USED WITH: FRONT BLADE PACKAGE		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

WORK TOOLS (CONT.)

WORK TOOLS (Cont.)

L	312-2204	**LIFT GROUP, MANUAL, FRONT**	1,500 1,500	**$11,030** **$11,030 NI**

ALSO AVAILABLE ON A MISCELLANEOUS ORDER
Front hydraulic lift without any work tool attached.
Note: This Front Lift Group has manual locking pins.

INSTALLED COMPATIBILITY:
REQUIRES: MOUNTING, FRONT LIFT
REQUIRES: Hydraulics control part number that has front lift (FL) function
REQUIRED, to use Front Scarifiers
CANNOT BE USED WITH: PUSH PLATE
CANNOT BE USED WITH: COUNTERWEIGHT
CANNOT BE USED WITH: MID MOUNT SCARIFIER PACKAGE
CANNOT BE USED WITH: FRONT BLADE PACKAGE

(The Installed Manual Lift Group can be attached to the machine at the sametime as the mounting for the mid-mount scarifier, but not the actual scarifier itself).

NOTE: A Not-Installed Manual Lift Group can be ordered with an INSTALLED Push Plate or Counterweight. The not-installed lift group will be skidded, banded and shipped with the unit.

NOT INSTALLED COMPATIBILITY:
CANNOT BE USED WITH: FRONT BLADE PACKAGE
REQUIRES: MOUNTING, FRONT LIFT
REQUIRES: Hydraulics control part number that has front lift (FL) function

L	359-3925	**LIFT GROUP, FRONT MOUNTING**	10	**$442**

Two mounting plates welded to both sides of the front frame for factory or future installation of Front Lift.
REQUIRED BY: LIFT GROUP, MANUAL, FRONT

L	387-8664	**LINES, RIPPER, ADDITIONAL**	8	**$426**

For use with rear mounted auxiliary functions. Provides two hydraulic hoses with one end bundled at the rear of the machine and the other end bundled at the rear valve bank in front of the cab.
REQUIRES: Ripper Function
FOR USE WITH: BASE + 1 (RIP)
FOR USE WITH: BASE + 2 (FL, RIP)
FOR USE WITH: BASE+3 (FL,DA1,RIP)
FOR USE WITH: BASE+4 (WM,WT-FLOAT,FL,RIP)
FOR USE WITH: BASE+4 (WM,WT,FL,RIP) NOFLT
FOR USE WITH: BASE+3 (FL,MMS,RIP)
FOR USE WITH: BASE+5 (WM,WT,DA1,FL,RIP)
FOR USE WITH: BASE+6 (WM,WT,DA1,DA2,FL,RIP)

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

GROUND ENGAGING TOOLS

GROUND ENGAGING TOOLS

P	8J-1434	**TOOTH, STRAIGHT**	67	$805
		Ripper tooth group for rear ripper. Includes one straight shank with ripper tooth. Recommended order quantity of 2 ONLY FOR USE WITH: RIPPER/SCARIFIER		
P	4K-3330	**SHANKS/TEETH, RIPPER/SCARIFIER**	152	$1,404
		Nine shanks for ripper and scarifier combination. Utilizes the scarifier shank positions on a ripper and scarifier combination. Will work with a midmount scarifier ONLY FOR USE WITH: RIPPER/SCARIFIER		

FIELD INSTALLED ATTACHMENTS

Please refer to the Caterpillar Work Tools Price List (WT-MG) for Motor Grader work tools.

Available Through Parts Distribution

Reference numbers below are kits used to upgrade existing motor with new features or technology

463-6258 **KIT, JOYSTICK,ADVANCED CONTROL**
Improves operational efficiency when utilizing ACCUGRADE or GRADE CONTROL X SLOPE.
Estimated install Hours: 2.5
Special Instructions: REHS8847

442-8145 **KIT, ACCUMULATOR, BLADE LIFT**
Provides hydraulic lines for base functions and accumulators for the blade lift. Allows approximately 1-3" of vertical blade travel to reduce impact loads. Nitrogen/oil accumulators activated by electric switch.
Estimated install Hours: 8
Special Instructions: REHS4230

466-5233 **KIT, EXTENSIONS, MIRROR HEATED**
9" extension from Current Mirror, adds 2 additional mirrors 1 for front visability and 1 rear visability. Heated to keep free of ice and snow in cold weather
Estimated install Hours: 2

466-5255 **KIT, EXTENSIONS, MIRROR STD**
9" extension from Current Mirror, adds 2 additional mirrors, 1 for front visability and 1 rear visability
Estimated install Hours: 2

524-8603 **KIT,LEFT HAND BLADE EXTENSION**
24" x 24" x 7/8" - Left Hand Blade Extension Kit for use with 12 ft. and 14 ft. Basic Moldboards.
Estimated install Hours: 1.5

524-8604 **KIT,LEFT HAND BLADE EXTENSION**
24" x 27" x 1" - Left Hand Blade Extension Kit for use with 14 ft. Plus Moldboard.
Estimated install Hours: 1.5

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

FIELD INSTALLED ATTACHMENTS (CONT.)

Available Through Parts Distribution (Cont.)

524-8605 **EXTENSION, BLADE, 24" RH**
24" x 24" x 7/8" - Right Hand Blade Extension Kit for use with
12 ft. and 14 ft. Basic Moldboards.
Estimated install Hours: 1.5

524-8606 **EXTENSION, BLADE, 24" RH**
24" x 27" x 1" - Right Hand Blade Extension Kit for use with
14 ft. Plus Moldboard.
Estimated install Hours: 1.5

524-8607 **KIT, SPARE RIM**
14" x 25" MP Spare Rim
Estimated install Hours: 0.5

524-8609 **KIT, SPARE RIM**
10" x 24" MP Spare Rim
Estimated install Hours: 0.5

488-2192 **KIT, CIRCLE SAVER**
Circle Saver
Estimated install Hours: 0.5
Special Instructions: REHS4230

415-3925 **KIT, FENDERS, FRONT**
12/140/160M3 Tandem Front Fender Kit

434-1065 **KIT, FENDERS, REAR**
12M3 & 140M3 Rear Fender Kit

380-3889 **KIT, HEATED GLASS, RH DOOR**
Right Hand Heated Door Glass
Special Instructions: REHS7154

380-3885 **KIT, HEATED GLASS,WIDE FRONT**
Wide Front Heated Glass
Special Instructions: REHS7155

380-3886 **KIT, HEATED GLASS,NARROW FRONT**
Narrow Front Heated Glass
Special Instructions: REHS7155

473-5233 **KIT, STORAGE, CAB**
12/140/160M3 Cab Storage Kit

PACKING

EXPORT PACKING

0P-2265 **ROLL ON-ROLL OFF** . . . . . 0 **$304 NET**
Machine is driveable with nothing removed.
For sound testing purposes, European units with European arrangements
must be ordered in Ro-Ro Configuration.
(Cab or canopy remains mounted.)
REQUIRED BY: EUROPEAN ARRANGEMENT
REQUIRED BY: EUROPEAN AR. W/ ROADING (TUV)

0P-2962 **SHIPPING TIRE FREIGHT OPTION** . . . . . 0 **NC**
This 0P is required when the machine is ordered with the Shipping Tire
This insures the correct trailer is used for shipment preventing
This is informational only and there is no additional charge.
REQUIRED BY: TIRES, 17.5 SHIPPING, MP
REQUIRED BY: TIRES, 14.0 SHIPPING, MP

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

PACKING (CONT.)

ATTACHMENT PACKING

0P-6706	**BUNDLE EXPORT PACKING**	0	**NC**

This 0P should be ordered for all miscellaneous orders.

SPECIAL INSTRUCTIONS

EXPOSITION MACHINE

0P-2949	**EXPOSITION INSTRUCTION**	0	**NC**

This special instruction must be selected whenever dealer is placing an order for a unit intended for use at expositions and/or trade fairs.

12M3 MOTOR GRADER
LITTLE ROCK, AR, USA (SAP)

	Ship Weight lbs	LIST PRICE AT DEALER

Standard Equipment:

POWERTRAIN

Air cleaner, dual stage dry type radial seal with service indicator and automatic dust ejector
Air-to-air after cooler (ATAAC)
Belt, serpentine, automatic tensioner
Brakes, oil disc, four-wheel, hydraulic
Demand fan, hydraulic
Differential, lock/unlock, Automatic
Drain, engine oil, ecology
Electronic over-speed protection
Parking brake, multi-disc, sealed and oil cooled.
Sediment drain, fuel tank.
Tandem drive
Transmission, 8 speed forward and 6 speed reverse, power shift, direct drive
VHP Plus (Variable Horse Power Plus)

ELECTRICAL

Alarm, back-up
Alternator, 150 ampere, sealed
Batteries, maintenance free, heavy duty, 1125 CCA
Breaker panel, ground accessible
Electrical hydraulic valves
Electrical system, 24V
Grade control ready (cab harness, software, electrical hydraulic valves, bosses and brackets)
Lights, reversing
Lights, roading, roof-mounted
Lights, stop and tail, LED
Starter, electric

OPERATOR ENVIRONMENT

Air conditioning with heater
Articulation, automatic return to center
Centershift pin indicator
Display, digital speed and gear
Doors, left and right side with wiper
Gauge, machine level
Gauges (analog) inside the cab (includes fuel, articulation, engine coolant temp, engine RPM, and hydraulic oil temp, DEF/AdBlue)
Joystick, adjustable armrests
Joystick gear selection, hydraulic power steering hydraulic controls (right/left, blade lift w/ float position, blade sideshift and tip, circle drive, centershift, front wheel lean and articulation and steering)
Lights, night time cab
Messenger operator information system
Meter, hour, digital
Mirror, inside rearview, wide angle
Power port, 12V
Radio ready, entertainment
ROPS cab, sound suppressed
- 69dB(A) - ISO 6394
Seat,cloth-covered, comfort suspension
Storage area for cooler/lunchbox
Throttle control, electronic
Windows laminated glass:
-Fixed front with intermittent wiper
-Door with intermittent wipers (3)
Windows tempered:
-Left and right side wipers
-Rear with intermittent wiper
Cab storage

SAFETY AND SECURITY

Clutch, circle drive slip
Doors, 2 engine compartment, (two left hand, two right hand) locking
Doors, 2 service, left and right locking
Ground level engine shutdown
Hammer (emergency exit)
Horn, electric
Lockout, hydraulic implement (for roading and servicing)
Seat belt, retractable 76.2mm (3")
Secondary steering
Tandem walkway/guards

TIRES, RIMS, AND WHEELS

A partial allowance for tires on 254mm x 609.6mm(10" x 24") multi-piece rins is included in the base machine price and weight.

FLUIDS

Antifreeze
Extended life coolant -35C/-30F

OTHER STANDARD EQUIPMENT

Accumulators -brake -dual certified
Drawbar,6 shoe w/replaceable wear strips
Fluid check, ground level
Fuel tank, 398 liters (105 gallon)
Ground level fueling
DEF/AdBlue Tank, 21 liters (5.5 gallon)
Hydraulic lines for base functions
Pump, hydrailic, high capacity (98cc / 15 cu in)
Radiator, cleanout access (both sides with swing doors)
SOS ports - engine -hydraulic

12M3 MOTOR GRADER
LITTLE ROCK, AR, USA (SAP)

	Ship Weight lbs	LIST PRICE AT DEALER

OTHER STANDARD EQUIPMENT (CONT.)

-transmission -coolant -fuel
Tandem walkway/guards
Tool box
Debris guard

12M3 MOTOR GRADER LITTLE ROCK, AR, USA (SAP)	Ship Weight lbs	LIST PRICE AT DEALER

Lane 2 is reserved for the Base Order Management Program.
Please use Lane 2 when placing orders that are part of the Base Order Management Program.

12M3 MOTOR GRADER LITTLE ROCK, AR, USA (SAP)		Ship Weight lbs	LIST PRICE AT DEALER
384-8606	**12M3 MOTOR GRADER** LANE 2 - AVAILABLE FROM NORTH LITTLE ROCK FACTORY LANE 3 - AVAILABLE FROM NORTH LITTLE ROCK FACTORY	37,145	**$348,620**
0P-2970	**12M3 MISC MATERIAL NLR** AVAILABLE FROM NORTH LITTLE ROCK FACTORY	0	**NC**

Only reference numbers that have the text
"ALSO AVAILABLE ON A MISCELLANOUS ORDER" can be used on a MISC order.

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

LANE SELECTION

	0P-9002	LANE 2 ORDER	0	NC
		Only for dealers enrolled in the Base Orders Management (BOM) program.		
	0P-9003	LANE 3 ORDER	0	NC

REGIONAL PACKAGES

REGIONAL PACKAGES

L	385-9294	GLOBAL ARRANGEMENT	0	NC
		Provides standard brake accumulators. For use in temperatures above -18C		
		CANNOT BE USED WITH: WEATHER, COLD PLUS		
L	385-9297	GLOBAL ARRANGEMENT,LOW AMBIENT	0	NC
		Provides brake accumulators for low ambient temperatures below -18C		
		CANNOT BE USED WITH: EU dealers		
		CANNOT BE USED WITH: WEATHER, STANDARD		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

PERFORMANCE PACKAGES

MOLDBOARDS

L	349-3046	**MOLDBOARD, 12'**	0	NC
		INCLUDES: - Moldboard 12' x 24" x 7/8" (3658mm x 610mm x 22mm) - Curved Cutting Edge, 6" X 5/8" (152mm x 16mm) - End Bits, Standard, Without Overlay		
L	349-3047	**MOLDBOARD, 14' BASIC**	347	$1,140
		INCLUDES: - Moldboard 14' x 24" x 7/8" (4267mm x 610mm x 22mm) - Curved Cutting Edge, 8" x 3/4" (203mm x 19mm) - End Bits, Standard, Without Overlay		
L	349-3048	**MOLDBOARD, 14' PLUS**	650	$2,710
		INCLUDES: - Moldboard 14' x 27" x 1" (4267mm x 686mm x 25mm) - Curved Cutting Edge, 8" x 3/4" (203mm x 19mm) - End Bits, Standard, With Overlay		

WORK TOOLS

L	393-4882	**NO HITCH**	0	NC
L	337-7510	**HITCH, TOWING**	0	$540
L	324-0889	**RIPPER/SCARIFIER**	2,120 2,150	$20,380 $20,540 NI

NOTE
NOT INSTALLED option is only for use with Miscellaneous orders using 0P-2970 12M3 MISC MATERIAL
Hydraulic, rear mounted ripper with three straight ripper shanks. Can accommodate two additional ripper shanks and nine scarifier teeth which must be ordered separately.
REQUIRES: A hydraulics control part number that has a ripper function.
INCLUDES: Ripper Mounting

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

PERFORMANCE PACKAGES (CONT.)

WEATHER PACKAGES

L **353-3316** **WEATHER, STANDARD** . . . . . 0 **NC**

Recommended for year around use when typical ambient temperature range is 0 degrees C (32 degrees F) to 43 degrees C (110 degrees F) and operating at altitude below 1220 m (4000 feet).
INCLUDES:
- Batteries, Heavy Duty - 1125 CCA
- Oil, Hydraulic, 10W

ONLY FOR USE WITH: GLOBAL ARRANGEMENT
EUROPEAN ARRANGEMENT
EUROPEAN AR. W/ ROADING (TUV)

L **394-4521** **COLD WEATHER PACKAGE** 0 **$760**

Recommended for year around use when typical ambient temperature range is -18 degrees C (0 degrees F) to 43 degrees C (110 degrees F) and operating at altitude below 1220 m (4000 feet).
INCLUDES:
- Starting Aid, Ether
- Batteries, Extreme Duty -1400 CCA
- Oil, Hydraulic, 10W

ONLY FOR USE WITH: GLOBAL ARRANGEMENT
GLOBAL ARRANGEMENT,LOW AMBIENT
CANADIAN ARRANGEMENT
EUROPEAN ARRANGEMENT
EUROPEAN AR. W/ ROADING (TUV)

L **394-4522** **COLD WEATHER PLUS PACKAGE** 38 **$3,005**

Recommended for year around use when typical ambient temperature range is -40 degrees C (-40 degrees F) to 40 degrees C (104 degrees) or operating at altitude above 1220 m (4000 feet).
INCLUDES:
- Starting Aid, Ether
- Cold Start; Transmission oil and fan brake bypass
- Batteries, Extreme Duty -1400 CCA
- Oil, Hydraulic, Cold, 0W

REQUIRES:
HEATER, ENGINE COOLANT, 120V or HEATER, ENGINE COOLANT, 240V
REQUIRED BY: SNOW ARRANGEMENT
ONLY FOR USE WITH: GLOBAL ARRANGEMENT,LOW AMBIENT
CANADIAN ARRANGEMENT
EUROPEAN ARRANGEMENT
EUROPEAN AR. W/ ROADING (TUV)

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

PERFORMANCE PACKAGES (CONT.)

ACCUMULATORS

L	305-2927	**LINES,STANDARD W/O ACCUMULATOR**	0	NC
		Provides hydraulic lines for base functions		
L	358-9338	**ACCUMULATORS, BLADE LIFT**	170	$4,665
		Provides hydraulic lines for base functions and accumulators for the blade lift. Allows approximately 1-3" of vertical blade travel to reduce impact loads. Nitrogen/oil accumulators activated by electric switch. CANNOT BE USED WITH: Canadian Dealers.		

PRECLEANER

L	380-6774	**PRECLEANER, NON SY-KLONE**	0	NC
		Includes dust ejector for medium to heavy dust environments.		
L	380-6775	**PRECLEANER, SY-KLONE**	5	$750
		Recommended for environments with large degris (leaves, chips, large grass, etc.)		

POWERTRAIN

ENGINE

L	567-4685	**ENGINE, TIER IV**	0	NC
		EPA Tier 4 Final certified engine with aftertreatment Caterpillar C9 ACERT turbo charged diesel engine with automatic engine derate and idle control.		

OIL CHANGE

L	324-5328	**DRAIN, GRAVITY, ENGINE OIL**	0	NC
		Standard engine oil drain		
L	501-1163	**DRAIN, HIGH SPEED, ENGINE OIL**	0	$286
		High speed engine oil drain. Requires pump at service location to be attached to coupling receiver for high speed flow. HSO drain can also manual/gravity drain.		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS

NOTE: Optional Control Locations

Caterpillar offers many attachment hydraulic controls to operate work tools. Depending on which hydraulic part number is selected, the operating electro-hydraulic switches may include the auxiliary pod, mini-joystick located on the auxiliary pod, and/or the ripper control pod.

NOTE: Auxiliary controls that can have float

Auxiliary Pod Controls

```
INDEX = Index Finger (front lift)(float capability)
MID = Middle Finger(dozer angle 1)
RING = Ring Finger (dozer angle 2)
LITTLE= Little Finger (float capability)
```

NOTE: Mini-Joystick

```
 Fore/Aft
     .
    / \
     |
<--------->  Left/Right (float capability)
     |
    \ /
     .
```

NOTE: Ripper Control Pod

```
RH1   =  Front Lift (float capability)
RH2   =  Ripper-Scarifier Control
RHD   =  Ripper Handle Dual Switch (RH1 & RH2)
```

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

NOTE: Common Functions

COMMON FUNCTIONS:

Base = 8 functions: right and left blade lift, circle turn, drawbar center shift, blade side shift, blade tip, front wheel lean, frame articulation.

```
     FL      = Front Lift (moves front work tools up/down)
     DA1     = Dozer Angle 1 (angles front blade left OR right)
     DA2     = Dozer Angle 2 (angles front blade left AND right)
     RIP     = Rear Mounted Ripper (moves ripper up/down)
     MMS     = Mid-Mounted Scarifier
     WM      = Wing Mast
     WT      = Wing Tilt
     Float   = Built-in feature of valve section that opens both the
               work ports to tank. The external forces (weight of the
               work ports to tank. The external forces (weight of the
                implement) allows free movement of the implement.
     Flow Rate=Provides maximum rate of fluid flow from the specific
                work port.  B/A represents the maximum flow rate in
                Port B/Port A* in LPM (liters per minute).

 *NOTE: Each valve section has two work ports (Port A and Port B).
     Port A:  Used to either raise implement or move implement to the
     right or for clockwise rotation of the implement.
     Port B:  Used to either lower implement or move implement to the
     left or for counter-clockwise rotation of the implement.
```

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

HYDRAULIC VALVE LOCATIONS

This illustration shows the factory installed switch location for each function by hydraulic part number.

Part Number	MINI-JOYSTICK Front Aft	MINI-JOYSTICK Left/ Right Float	MINI-JOYSTICK Index with Float	AUXILIARY POD Mid	AUXILIARY POD Ring	AUXILIARY POD Little	RIPPER POD RHD RH1	RIPPER POD RHD RH2
242-5056								
385-8094								RIPPER
Float:								N
Flow rate:								49/49
354-4113								MID-MOUNT SCARIFIER
Float:								Y
Flow Rate:								25/36
309-9848							FR.LIFT	
Float:							Y	
Flow Rate:							46/60	
385-8095							FR.LIFT	RIPPER
Float:							Y	N
Flow rate:							46/60	49/49
395-2008	MAST	TILT	FR.LIFT					
Float:	N	N	Y					
Flow rate:	72/72	41/30	46/60					
385-8096			FR.LIFT	DA1				RIPPER
Float:			Y	N				N
Flow rate:			46/60	72/72				49/49
385-8099	MAST	TILT	FR.LIFT					RIPPER
Float:	N	Y	Y					N
Flow rate:	72/72	74/86	46/60					49/49
385-8100	MAST	TILT	FR.LIFT					RIPPER
Float:	N	N	Y					N
Flow rate:	72/72	41/30	46/60					49/49
395-2009	MAST	TILT	FR.LIFT	DA1	MID-MOUNT SCARIFIER			
Float:	N	N	Y	N	N			
Flow rate:	72/72	41/30	46/60	72/72	25/36			

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

HYDRAULIC VALVE LOCATIONS LANE 3 ONLY

Part Number	MINI-JOYSTICK Front Aft	MINI-JOYSTICK Left/ Right Float	AUXILIARY POD Index with Float	AUXILIARY POD Mid	AUXILIARY POD Ring	AUXILIARY POD Little	RIPPER POD RH1	RIPPER POD RH2
385-8097			FR.LIFT	MID-MOUNT SCARIFIER				RIPPER
Float:			Y	N				N
Flow rate:			46/60	25/36				49/49
385-8101	MAST	TILT	FR.LIFT	DA1				RIPPER
Float:	N	N	Y	N				N
Flow rate:	72/72	41/30	46/60	72/72				49/49
385-8103	MAST	TILT	FR.LIFT	DA1	DA2			RIPPER
Float:	N	N	Y	N	N			N
Flow rate:	72/72	41/30	46/60	72/72	72/72			49/49
481-8610	MAST	TILT	FR.LIFT	DA1	DA2			RIPPER
Float:	N	Y	Y	N	N			N
Flow rate:	72/72	74/86	46/60	72/72	72/72			49/49

HYDRAULIC VALVE PART NUMBERS

L	242-5056	**HYDRAULICS, BASE** . . . . . 0 Base hydraulic system includes machine articulation, wheel lean, left and right blade lift with independent float, drawbar centershift, circle drive, blade sideshift and tip.		NC
L	385-8094	**BASE + 1 (RIP)**. . . . . 21 Ripper function. Includes the Ripper Lines. ONLY FOR USE WITH: RIPPER-SCARIFIER, REAR		$2,300
L	354-4113	**BASE + 1 (MMS)** . . . . . 21 Mid-Mount Scarifier function. Includes the Mid-Mount Scarifier Lines. ONLY FOR USE WITH: MID MOUNT SCARIFIER PACKAGE		$2,300
L	309-9848	**BASE + 1 (FL)**. . . . . 18 FOR USE IN LANE 3 ONLY Front Lift function. Includes the Front Lift Lines. ONLY FOR USE WITH: LIFT GROUP, MANUAL, FRONT		$1,890
L	385-8095	**BASE + 2 (FL,RIP)** . . . . . 37 Ripper and Front Lift functions. Includes the Front Lift Lines and Ripper Lines. ONLY FOR USE WITH: LIFT GROUP, MANUAL, FRONT RIPPER-SCARIFIER, REAR		$4,085
L	395-2008	**BASE + 3 (WM,WT-NOFLOAT,FL)** . . . . . 60 Front Lift, Snow Wing Mast, and Snow Wing Tilt ONLY FOR USE WITH: SNOW ARRANGEMENT LIFT GROUP, MANUAL, FRONT		$6,540

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

HYDRAULIC VALVE PART NUMBERS (Cont.)

L	385-8096	**BASE + 3 (FL,DA1,RIP)**	67	$7,460
		FOR USE IN LANE 3 ONLY Ripper, Front Lift and Angle functions. Includes the Front Lift Lines Dozer Angle 1 Lines, and Ripper Lines. ONLY FOR USE WITH: LIFT GROUP, MANUAL, FRONT RIPPER-SCARIFIER, REAR		
L	385-8099	**BASE + 4 (WM,WT-FLOAT,FL,RIP)**	85	$8,960
		Ripper, Front Lift, Snow Wing Mast and Snow Wing Tilt (74/86 with float) functions. Includes the Front Lift Lines and Ripper Lines. ONLY FOR USE WITH: SNOW ARRANGEMENT LIFT GROUP, MANUAL, FRONT RIPPER-SCARIFIER, REAR		
L	385-8100	**BASE + 4 (WM,WT,FL,RIP) NOFLT**	85	$8,700
		FOR USE IN LANE 3 ONLY Ripper, Front Lift, Snow Wing Mast and Snow Wing Tilt (41/30 - No Float) functions. Includes the Front Lift Lines and Ripper Lines. ONLY FOR USE WITH: SNOW ARRANGEMENT LIFT GROUP, MANUAL, FRONT RIPPER-SCARIFIER, REAR		
L	395-2009	**BASE + 5 (WM,WT,DA1,FL,MMS)**	120	$10,790
		FOR USE IN LANE 3 ONLY Snow Wing Mast, Snow Wing Tilt (41/30 - No Float) functions, Dozer Angle 1, Front LIFT, and Mid-Mount Scarifier Includes the Front Lift Lines, Angle 1 Lines, and Mid-Mount Scarifier Lines. ONLY FOR USE WITH: SNOW ARRANGEMENT LIFT GROUP, MANUAL, FRONT MID MOUNT SCARIFIER PACKAGE		

HYDRAULIC VALVE PART NUMBERS LANE 3 ONLY

L	385-8097	**BASE+3 (RIP, MMS, FL)**	67	$7,460
		FOR USE WITH: Lane 3 only. Front Lift, Ripper and Mid-Mount Scarifier functions. Includes the Front Lift Lines, Ripper Lines and Mid-Mount Scarifier Lines. ONLY FOR USE WITH: LIFT GROUP, MANUAL, FRONT RIPPER-SCARIFIER, REAR MID MOUNT SCARIFIER PACKAGE		
L	385-8101	**BASE + 5 (WM,WT,DA1,FL,RIP)**	120	$10,790
		FOR USE WITH: Lane 3 only. Snow Wing Mast, Snow Wing Tilt (41/30 - No Float) functions, Dozer Angle 1, Front LIFT, and Ripper. Includes the Front Lift Lines, Angle 1 Lines, and Ripper Lines. ONLY FOR USE WITH: SNOW ARRANGEMENT MOUNT, SNOW WING, FRAME READY LIFT GROUP, MANUAL, FRONT RIPPER-SCARIFIER, REAR		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

HYDRAULIC VALVE PART NUMBERS (Cont.)

L	385-8103	**BASE + 6(WM,WT,DA1,DA2,FL,RIP)**	130	**$13,350**
		FOR USE WITH: Lane 3 only. Ripper, Dozer Angle 1, Dozer Angle 2, Front Lift, Snow Wing Mast and Snow Wing Tilt (41/30 - No Float) functions. Includes the Front Lift Lines, Dozer Angle 2 Lines and Ripper Lines. ONLY FOR USE WITH: SNOW ARRANGEMENT MOUNT, SNOW WING, FRAME READY LIFT GROUP, MANUAL, FRONT RIPPER-SCARIFIER, REAR		
L	481-8610	**BASE+6(WM,WT+F,DA1,DA2,FL,RIP)**.....	130	**$13,620**
		FOR USE WITH: Lane 3 only. Ripper, Dozer Angle 1, Dozer Angle 2, Front Lift, Snow Wing Mast and Snow Wing Tilt (72/72 + Float) functions. Includes the Front Lift Lines, Dozer Angle 2 Lines and Ripper Lines. ONLY FOR USE WITH: SNOW ARRANGEMENT MOUNT, SNOW WING, FRAME READY LIFT GROUP, MANUAL, FRONT RIPPER-SCARIFIER, REAR		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

STARTERS, BATTERIES, & ALTERNATORS

STARTER ARRANGMENT

L	394-3945	**STARTER, ELECTRIC, HEAVY DUTY**	0	NC
		Provides a 715 Amp. starter		
L	395-3547	**STARTER, ELEC, EXTREME DUTY**	21	$408
		Recommended for Cold weather applications		
		Provides a 1000 Amp. starter		

ELECTRICAL

BRAKE LIGHTS

L	331-6793	**LIGHTS, BRAKE AND BACK-UP**	0	NC
		FOR USE IN LANE 3 ONLY		
		Provides stationary rear brake lights along with the back-up lights.		
		Does not include front headlights or turn signals		
		CANNOT BE USED WITH: 526-2563 EUROPEAN ARRANGEMENT		
		394-3871 EUROPEAN AR. W/ROADING (TUV)		
		308-9370 HEADLIGHTS,FRONT, LOW, HALOGEN		
		308-9371 HEADLIGHTS,FRONT, HIGH,HALOGEN		
		553-2588 HEADLIGHTS, FRONT, LOW, LED		
		553-2589 HEADLIGHTS, FRONT, HIGH, LED		
		396-1966 SNOW ARRANGEMENT		
L	536-9969	**LIGHTS, ARM, FOLD DOWN**	0	$1,875
		Provides stationary rear brake lights along with the back-up lights, dimmer switch for road lighting, drop-down stop, tail, and rear turn signals and back-up lights.		
		REQUIRES: 308-9370 HEADLIGHTS,FRONT, LOW, HALOGEN		
		308-9371 HEADLIGHTS,FRONT, HIGH,HALOGEN		
		553-2588 HEADLIGHTS, FRONT, LOW, LED		
		553-2589HEADLIGHTS, FRONT, HIGH, LED		
		INCLUDED IN: 396-1966 SNOW ARRANGEMENT		

ROADING LIGHTS

L	421-7810	**LIGHTS, ROADING, HALOGEN**	0	NC
		Provides six halogen cab roof mounted roading lights.		
		CANNOT BE USED WITH: 553-2588 HEADLIGHTS, FRONT, LOW, LED		
		553-2589HEADLIGHTS, FRONT, HIGH, LED		
L	550-6608	**LIGHTS, ROADING, LED**	0	$1,245
		Provides six LED cab roof mounted roading lights.		
		CANNOT BE USED WITH: 308-9370 HEADLIGHTS,FRONT, LOW, HALOGEN		
		308-9371 HEADLIGHTS,FRONT, HIGH,HALOGEN		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

OPERATOR ENVIRONMENT

CAB EXTERIOR

L	385-9553	**CAB, BASE (STANDARD GLASS)**	0	NC
		INCLUDES: - 150 amp alternator - Standard Glass CANNOT BE USED WITH: SNOW ARRANGEMENT CANNOT BE USED WITH: EUROPEAN ARRANGEMENT CANNOT BE USED WITH: EUROPEAN AR. W/ ROADING (TUV)		
L	385-9554	**CAB, PLUS (STANDARD GLASS)**	35	$1,105
		INCLUDES: - 150 amp alternator - Wiper/washer, rear - Standard Glass		
L	385-9555	**CAB, PLUS (ANTI-ICING GLASS)**	35	$6,630
		FOR USE IN LANE 3 ONLY INCLUDES: - 270 amp alternator - Wiper/washer, rear - Front glass and RH door glass are heated.		

CAB INTERIOR

L	397-7456	**CAB, BASE (INTERIOR)**	0	NC
		INCLUDES: - Seat, mechanical suspension, cloth - Shade, Sun CANNOT BE USED WITH: SNOW ARRANGEMENT CANNOT BE USED WITH: EUROPEAN ARRANGEMENT CANNOT BE USED WITH: EUROPEAN AR. W/ ROADING (TUV)		
L	397-7457	**CAB, PLUS (INTERIOR)**	45	$3,010
		INCLUDES: - Seat, Air Suspension, Cloth, Heated - Radio,12V, AM/FM, Weatherband, Bluetooth, USB, Aux Input Available to countries with bluetooth certification. Please contact your Cat marketing representative if you have questions. - Fan, defroster, rear window - Converter, Communication (CB) - Shade, Sun		
L	397-7458	**CAB, PREMIUM (INTERIOR)**	80	$4,580
		- Seat, air suspension, cloth; Heated, Ventilated - Radio,12V, AM/FM CD/MP3 Bluetooth, Weatherband, USB, Aux Input XM/Sirius Satellite Available to countries with bluetooth certification. Please contact your Cat marketing representative if you have questions. - Fan, defroster, rear window - Converter, Communication (CB) - Shade, Sun *Recommended for Snow Removal		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

OPERATOR ENVIRONMENT (CONT.)

SEAT BELT

L	394-1492	SEAT BELT	0	NC
		Standard 3 inch seat belt		
L	394-1132	SEAT BELT W/INDICATOR	5	$193
		Standard 3 inch seat belt with indicator located on display panel		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

TECHNOLOGY PRODUCTS

PRODUCT LINK

Product Link enables the remote transmission of information about the location, operation, and condition of your equipment. Efficiently and effectively monitor the performance of your assets to help keep your jobs on schedule, maintain equipment condition, and reduce the costs of owning and operating your fleet. Availability varies by country - please reference https://Dealer.cat.com/PL/Certification for certified countries. Please contact your Caterpillar marketing representative with questions.

L	464-6804	**PRODUCT LINK, SATELLITE PLE631** . . . . . Product Link Elite series PLE631 uses a satellite network to transmit location, utilization and condition information for viewing in Product Link's remote monitoring web interface. For use in areas with poor or no cellular coverage.	29	**$432**
L	464-6442	**PRODUCT LINK, CELLULAR PLE641** . . . . . Product Link Elite series PLE641 offers expanded coverage including 3G UMTS and CDMA2000 as well as 2G GSM and CDMA cellular networks to transmit location, utilization and condition information f viewing in Product Link-s remote monitoring web interface. Cellular technology provides capabilities for frequent transmission and larger volumes of data.	29	**NC**

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

TECHNOLOGY PRODUCTS (CONT.)

ACCUGRADE

L	362-5222	**NO ACCUGRADE**	0	NC
L	462-7928	**INSTALLATION, ACCUGRADE READY** Allows the Motor Grader to be equipped with either a Cross Slope, Sonic, Laser, GPS, or ATS electronics kit. Provides software, harnesses for sensors, mounting for sensors and blade mast bracket.	90	$4,830

NOTE: Highly recommended to select Advanced Joystick Controls. This will Allow for complete configuration and control when using 3 party grade control systems

L	462-7929	**GRADE CONTROL X SLOPE** Allows the operator to manually control one end of the blade to match the curb or crown while automatically maintaining the desired slope of the blade. This system is used to maintain the crown of a gravel road or the shoulder of a road. Provides cab switches, software, harnesses for sensors, mounting for sensors and blade mast bracket. Accugrade Ready is included in this option REQUIRES: JOYSTICK CONTROLS, ADVANCED INCLUDED IN: 492-3594 CONTROLS, PERFORMANCE BUNDLE	165	$11,060

MOTOR GRADER CONTROLS

L	357-9151	**JOYSTICK CONTROLS, BASIC** Standard joystick controls.	6	NC
L	458-8701	**JOYSTICK CONTROLS, ADVANCED** Provides enhanced functionality while using ACCUGRADE READY or GRADE CONTROL X SLOPE INCLUDES: - Advanced Joysticks - Harness - Films REQUIRED BY: GRADE CONTROL X SLOPE. RECOMMENDED FOR USE WITH: ACCUGRADE READY INCLUDED IN: 492-3594 CONTROLS, PERFORMANCE BUNDLE	8	$2,030

CONTROL AUTO ARTICULATION

L	483-2354	**CONTROL,AUTO ARTICULATION-DEMO** 500 machine hour demo. Improves ease of operation, increases maneuverability and maximizes productivity by automatically matching articulation angle to steering angle. Includes 3 position rocker switch enabling 3 modes; off / forward / both forward and reverse.	0	NC
L	435-2072	**CONTROL,AUTO ARTICULATION-FULL** Improves ease of operation, increases maneuverability and maximizes productivity by automatically matching articulation angle to steering angle. Includes 3 position rocker switch enabling 3 modes; off / forward / both forward and reverse.	0	$1,810

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER
		FUEL SYSTEMS		
L	540-2373	**TANK, FUEL, STANDARD** . . . . . Standard Fuel 105 gallon (398 L)	0	NC
L	553-3677	**TANK, FUEL, FAST FILL** . . . . . Fuel tank is ready to accept fast fill 100 gpm nozzle. Tank capacity is 105 gallons (398 L)	0	$1,410
		COOLING		
		COOLING FAN		
L	542-4660	**FAN, STANDARD** . . . . . Provides a hydraulically driven demand fan	0	NC
L	542-4661	**FAN, REVERSING** . . . . . Provides a hydraulically driven demand fan that can reverse direction to prevent debris build up on the cooling package and engine enclosure. Includes automatic and manual controls for airflow reversal. Recommended for applications with a high content of airborne debris.	0	$3,105

TIRES, RIMS, AND WHEELS

Tires listed below include a set of six tires.
****To calculate tire loads with machine attachments, please reference the MG Tire Selection Pocket Guide (media #AEXQ0182), available on the Electronic Sales Library.**
All tire selections should be made with consideration for planned machine attachments (OEM and aftermarket) and their additional weight. Each tire has a maximum load rating that is not to be exceeded. The tire selection should be based on the maximum of all tire position loads on the machine. Assistance for calculating the highest tire load can be found in the Tire Load Worksheet in the back of the Caterpillar Motor Graders Tire Selection Pocket Guide. Failure to abide by the load ratings of the tires without first consulting the local tire supplier representative could result in nullification of the tire warranty.

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

TIRES, RIMS, AND WHEELS (CONT.)

Due to industry-wide tire availability limitations, tire brand and type cannot be guaranteed. Every effort will be made to satisfy your tire choice, but we reserve the right to change to alternate tires. If the tire brand cannot be supplied, the dealer will be contacted to propose alternative tire options. The dealer will need to respond with an alternative tire selection within 72 hours. If no response is provided by the supplier, the order will default to a comparable tire. As a consequence of a tire change the total machine price will be decreased or increased relative to the price of the new tire selection.

The information provided can be used to make a tire selection based on the particular conditions at the site. When available, the tire manufacturer should be consulted regarding proper tire selection.

APPLICATION SPECIFIC TIRES

L	515-5399	**TIRES,14.0R24 SOIL TRACTION MP**	0	$5,970
		Tire group received will be one of the tire groups listed below: - Bridgestone VKT 1* on 10" x 24" multi-piece rims. - Michelin XGLA2 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	515-5400	**TIRES,17.5R25 SOIL TRACTION MP**	0	$12,450
		Tire group received will be one of the tire groups listed below: - Bridgestone VKT 1* on 14" x 25" multi-piece rims. - Michelin XTLA 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		

BRIDGESTONE

L	252-0714	**TIRES, 14.0 R24 BS VKT * G2**	1,540	$6,970
		Bridgestone VKT 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	252-0720	**TIRES, 14.0R24 BS VUT * L2 MP**	1,012	$7,250
		Bridgestone VUT 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	252-0775	**TIRES, 17.5R25 BS VKT * D2A MP**	1,810	$13,450
		Bridgestone VKT 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	252-0708	**TIRES, 14.0R24 BS VSW * G2 MP**	1,481	$13,320
		Bridgestone VSW 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	310-7331	**TIRES, 17.5R25 BS VSW * G2 MP**	1,888	$18,590
		Bridgestone VSW 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

TIRES, RIMS, AND WHEELS (CONT.)

MICHELIN

L	252-0679	**TIRES,14.0R24 MX XGLA2 * G2 MP**	1,069	$10,860
		Michelin XGLA2 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (7824 lbs) 3550 kg.**		
L	252-0701	**TIRES,14.0R24 MX XSNO+ * G2 MP**	1,282	$14,890
		Michelin XSNO 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (7824 lbs) 3550 kg.**		
L	252-0777	**TIRES,17.5R25 MX XSNO+ * G2 MP**	1,093	$20,490
		Michelin XSNO+ 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	252-0771	**TIRES, 17.5R25 MX XTLA * L2 MP**	1,371	$16,110
		FOR USE IN LANE 3 ONLY Michelin XTLA 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	254-7904	**TIRES,14.0R24 MX XGLA2 * G2 SP**	709	$7,290
		Michelin XGLA 1* on 9" x 24" single piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (7824 lbs) 3550 kg.**		
L	254-7971	**TIRES, 17.5R25 MX XTLA * L2 SP**	979	$11,910
		Michelin XTLA 1* on 13" x 25" single piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		

SHIPPING TIRES

L	440-3433	**TIRES, 17.5 SHIPPING, MP**	274	$2,250
		FOR USE WITH LANE 3 ONLY Shipping tire for use during shipment of machine only. Solid rubber band mounted on 14" x 25" multi-piece rims. Must be replaced with pneumatic tire before delivering to customer.		
L	448-5577	**TIRES, 14.0 SHIPPING, MP**	90	$2,000
		FOR USE WITH LANE 3 ONLY Shipping tire for use during shipment of machine only. Solid rubber band mounted on 10" x 24" multi-piece rims. Must be replaced with pneumatic tire before delivering to customer.		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER
		GUARDS		
		Guards		
L	323-6970	**GUARD GP, HITCH**	25	NC
		Standard bottom plate just rear of articulation hitch		
L	368-6239	**ARTICULATION GUARD.**	30	$1,260
		Provides protection for the articulation rods from snow, dirt and Highly recommended for snow removal applications, or below freezing CANNOT BE USED WITH : SOUND SUPRESSION (BOTTOM)		
		FLUIDS		
		ANTIFREEZE		
L	469-8157	**COOLANT, 50/50, -35C (-31F)**	0	NC
		Standard engine coolant		
L	469-8160	**COOLANT, 60/40, -51C (-60F)**	0	$245 NET
		Engine coolant recommended for extreme low temperatures		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

DOCUMENTATION

LANGUAGE SELECTION

NOTE: This part number will provide the language for Messenger and Statement of Conformity

L	**386-1254**	**LANGUAGE, ENGLISH**	0	**NC**

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

DOCUMENTATION (CONT.)

DECAL PACKAGES

NOTE: This part number will provide the films in ANSI or ISO
The word "WARNING" is on picto decals for ANSI.
Symbols only are on picto decals for ISO.

L	**442-9940**	**DECALS, ENGLISH (U.S.)**	0	**NC**
		Provides decals as required by ANSI.		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

FEATURE PACKAGES

REGIONAL OPTIONAL PACKAGES

L	396-1966	**SNOW ARRANGEMENT**	355	$6,460

FOR USE WITH LANE 3 ONLY
INCLUDES:
- LIGHTS, ARM, FOLD DOWN
- MOUNTING, WARNING LIGHT
- TRANSMISSION, AUTOSHIFT

RECOMMENDED: MIRRORS, OUTSIDE HEATED
REQUIRES: MOUNT,SNOW WING,FRAME RDY HAL or LED
LIGHTS, WORKING, PLUS, HALOGEN or LED
HEADLIGHTS,FRONT, HIGH, (HALOGEN OR LED)
HEATER, ENGINE COOLANT, 120V or 240v
STARTER, ELEC, EXTREME DUTY or EXTRM DUTY(TUV)
WEATHER, COLD PLUS
CAB, PLUS (STANDARD GLASS) or (ANTI-ICING GLASS)

WORK TOOL PACKAGES

L	358-9341	**MID MOUNT SCARIFIER PACKAGE**	2,076	$16,290

INCLUDES:
- Mid-mount Scarifier, V-Type with 11 Teeth
- MOUNT, MID-MOUNT SCARIFIER

CANNOT BE USED WITH: Any Front Lift group
FENDERS, FRONT, NON-AWD

WORK TOOL PACKAGES-SNOW WING MOUNT

L	390-9182	**MOUNT,SNOW WING,FRAME RDY HAL**	251	$2,295

FOR USE IN LANE 3 ONLY
INCLUDES:
- Snow Wing Mount
- Light, halogen Snow Wing, Right Hand

CANNOT BE USED WITH: ANY LED LIGHTING OPTION
REQUIRED BY: SNOW ARRANGEMENT

L	551-6546	**MOUNT,SNOW WING,FRAME RDY LED**	0	$2,710

FOR USE IN LANE 3 ONLY
INCLUDES:
- Snow Wing Mount
- Light, LED Snow Wing, Right Hand

CANNOT BE USED WITH: ANY HALOGEN LIGHTING OPTION
REQUIRED BY: Snow Arrangement

WORKING LIGHTS PACKAGES

CANNOT MIX HALOGEN AND LED LIGHT PACKAGES

L	395-1966	**LIGHTS, WORKING, BASIC,HALOGEN**	19	$770

INCLUDES:
- Lights, Work, Heel 3X3
- Lights, Work, Midframe Toe 3X3
- Switch, Work Lighting

CANNOT BE USED WITH: Snow Arrangement

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

FEATURE PACKAGES (CONT.)

WORKING LIGHTS PACKAGES (Cont.)

L	395-1967	**LIGHTS, WORKING, PLUS, HALOGEN**	22	$1,035
		INCLUDES: - Lights, halogen, ripper 3X3 - Lights, halogen, work, heel 3X3 - Lights, halogen, work, midframe toe 3X3 - Switch, Work Lighting CANNOT BE USED WITH: ANY LED LIGHTING OPTION REQUIRED BY: Snow Arrangement		
L	552-7285	**LIGHTS, WORKING, PLUS, LED**	0	$2,590
		INCLUDES: - Lights, LED, ripper 3X3 - Lights, LED, work, heel 3X3 - Lights, LED, work, midframe toe 3X3 - Switch, work lighting CANNOT BE USED WITH: ANY HALOGEN LIGHTING OPTION REQUIRED BY: Snow Arrangement		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

FEATURE PACKAGES (CONT.)

OTHER OPTIONAL ATTACHMENTS

L	338-1132	**LIGHT, LED WARNING STROBE**	5	$605 NI
		Amber high-speed strobe beacon. REQUIRES: MOUNTING, WARNING LIGHT		
L	361-3137	**MOUNTING, WARNING LIGHT**	10	$725
		Provides the bracket for warning beacon light INCLUDED IN: SNOW ARRANGEMENT		
L	396-3515	**TRANSMISSION, AUTOSHIFT**	5	$3,205
		Improves ease of operation and maximizes productivity by automatically shifting the transmission at optimal shift points. INCLUDED IN: SNOW ARRANGEMENT REQUIRED BY: EUROPEAN ARRANGEMENT EUROPEAN AR. W/ ROADING (TUV)		
L	380-3070	**LIGHTS, SERVICE, INTERNAL**	5	$193
		Provides two lights operated by a single manual switch located in the rear enclosure. One light illuminates the engine compartment and the second light illuminates the hydraulic level sight gauge.		

ELECTRICAL

FRONT HEADLIGHTS

L	308-9370	**HEADLIGHTS,FRONT, LOW, HALOGEN**	0	$640
		Provides LOW bar HALOGEN headlights with front turn signals. CANNOT BE USED WITH: 396-1966 SNOW ARRANGEMENT ANY LED LIGHTING OPTION REQUIRED BY: 526-2563 EUROPEAN ARRANGEMENT 394-3871 EUROPEAN AR. W/ROADING (TUV) 536-9969 LIGHTS, ARM, FOLD DOWN		
L	553-2588	**HEADLIGHTS, FRONT, LOW, LED**	0	$1,365
		Provides LOW bar LED headlights with front turn signals. CANNOT BE USED WITH: SNOW ARRANGEMENT ANY HALOGEN LIGHTING OPTION REQUIRED BY: LIGHTS,ARM, FOLD DOWN 526-2563 EUROPEAN ARRANGEMENT 394-3871 EUROPEAN AR. W/ROADING (TUV)		
L	308-9371	**HEADLIGHTS,FRONT, HIGH,HALOGEN**	0	$640
		Provides HIGH bar HALOGEN headlights with front turn signals. CANNOT BE USED WITH: ANY LED LIGHTING OPTION REQUIRED BY: 526-2563 EUROPEAN ARRANGEMENT 394-3871 EUROPEAN AR. W/ROADING (TUV) 536-9969 LIGHTS, ARM, FOLD DOWN 396-1966 SNOW ARRANGEMENT		
L	553-2589	**HEADLIGHTS, FRONT, HIGH, LED**	0	$1,365
		Provides HIGH bar LED headlights with front turn signals. CANNOT BE USED WITH: ANY HALOGEN LIGHTING OPTION REQUIRED BY: LIGHTS,ARM, FOLD DOWN SNOW ARRANGEMENT 526-2563 EUROPEAN ARRANGEMENT 394-3871 EUROPEAN AR. W/ROADING (TUV)		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

OPERATOR ENVIRONMENT

CAMERA

L	396-3921	**CAMERA, REAR VISION**	15	$2,535
		Provides a 115 degree color camera mounted on the rear of the hood that is connected to a 7 inch (178mm) LCD color display mounted in the cab which shows the view behind the machine. CAN NOT BE USED WITH: EUROPEAN AR. W/ ROADING (TUV) NOTE* EUROPEAN AR. W/ ROADING (TUV) includes front and rear facing cameras		

MIRRORS

L	233-3295	**MIRRORS, OUTSIDE MOUNTED**	32	$495
		Provides two convex mirrors for outside mounting on the left and right cab grab irons. NOTE: The mirrors are wrapped in bubble wrap and rotated toward the doors for protection during shipment.		
L	344-0984	**MIRRORS, OUTSIDE HEATED 24V**	33	$670
		Provides mirrors with a 24V heating element to keep mirrors ice free in cold weather operations. NOTE: The mirrors are wrapped in bubble wrap and rotated toward the doors for protection during shipment.		

TECHNOLOGY PRODUCTS

L	393-6335	**SECURITY SYSTEM, MACHINE**	10	$720
		FOR USE IN LANE 3 ONLY Provides a programmable system to manage access to the machine using special MSS keys. Deters theft, vandalism, and unauthorized use. Programmable features allow the following: * limits operators to selected machines * controls the days and hours equipment may be started * controls access by untrained operators or personnel		
L	458-2072	**STABLE BLADE**	3	$2,470
		Provides sensor and software to automatically reduce engine speed in various applications to reduce machine bounce and scalloping of surface.		
L	492-3594	**CONTROLS, PERFORMANCE BUNDLE**	176	$15,560
		The Auto Articulation in this bundle is an unrestricted version, not limited to 500 hours. INCLUDES: 435-2072 CONTROL,AUTO ARTICULATION-FULL 458-2072 STABLE BLADE 458-8701 JOYSTICK CONTROLS, ADVANCED 462-7929 GRADE CONTROL X SLOPE		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER
GUARDS				
L	367-6905	**GUARD, AXLE HOSE**	15	$1,075
		FOR USE IN LANE 3 ONLY Provides additional protection to the front axle cylinders, lines, and fittings. NOTE: NOT recommended for use with tire chains		
L	366-2459	**GUARD, TRANSMISSION**	310	$3,400
		Provides a steel guard to protect the transmission from ground debris. REQUIRED BY: SOUND SUPRESSION (BOTTOM) INCLUDED IN: EUROPEAN ARRANGEMENT EUROPEAN AR. W/ ROADING (TUV)		
L	377-1602	**SOUND SUPPRESSION (BOTTOM)**	243	$2,095
		FOR USE IN LANE 3 ONLY Provides two metallic side panels on either side of the transmission guard, enclosing the rear of the machine. This option prevents debris from accumulating on top of the transmission guard and also suppresses sound to meet EU sound regulations. REQUIRES: GUARD, TRANSMISSION REQUIRES: GUARD GP, HITCH INCLUDED IN: EUROPEAN ARRANGEMENT INCLUDED IN: EUROPEAN AR. W/ ROADING (TUV) CANNOT BE USED WITH: ARTICULATION GUARD		
L	546-0262	**SOUND SUPPRESSION, ENGINE ENCL**	0	$1,540
		FOR USE IN LANE 3 ONLY Suppression panels in engine enclosure doors. INLCUDED IN: EUROPEAN ARRANGEMENT INCLUDED IN: EUROPEAN AR. W/ ROADING		
L	498-3458	**FENDERS, FRONT, JOY, TND**	0	$4,130
		Non-metallic front fenders aid in reducing the build-up of mud, snow, or debris. Front fenders are compatible with all Non-AWD tire sizes offered by the factory. ** NOT RECOMMENDED FOR USE WITH TIRE CHAINS. CANNOT BE USED WITH: MID MOUNT SCARIFIER PACKAGE -OR- GUARD, AXLE HOSE		
L	568-3669	**FENDERS, REAR**	0	$5,030
		Provides non-metallic rear fenders to aid in reducing the build-up of mud, snow, or debris. Rear fenders are compatible with all MG tire sizes offered by the factory. INCLUDED IN: EUROPEAN AR. W/ ROADING (TUV) ** NOT RECOMMENDED FOR USE WITH TIRE CHAINS.		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

OTHER ATTACHMENTS

STARTING AIDS

L	249-5516	**HEATER, ENGINE COOLANT, 120V**	3	$245
		Engine coolant heater for 120 volt external power source. REQUIRED BY: SNOW ARRANGEMENT		

CIRCLE DRIVE INJECTOR GREASE

L	521-3250	**KIT, CIRCLE SAVER**	0	$238
		Remote Circle Drive Greasing point (Zerk). Located top of drawbar for easy servicing of circle drive gear. Helps the pinion maintain its lubrication caused by lack of grease in this component.		

WORK TOOLS

L	360-5074	**MOUNT, MID-MOUNT SCARIFIER**	131	$1,520
		Brackets welded to front frame for future installation of midmount scarifier. INCLUDED IN: SCARIFIER, MID-MOUNT V-TYPE NOTE: This is the mounting only and does not include the scarifier. RECOMMENDED: Hydraulics with a mid-mount scarifier (MMS) function NOTE: If you intend to purchase the mid-mounted scarifier, please note that the actual scarifier cannot be attached to the machine at same time as the LIFT GROUP, MANUAL, FRONT		
L	367-6880	**COUNTERWEIGHT**	885	$3,200
			0	$3,200 NI
		FOR USE IN LANE 3 ONLY **NOTE** NOT INSTALLED option is only for use with Miscellaneous order using 0P-2970 12M3 MISC MATERIAL Front mounted. Recommended when machine is not equipped with front or rear mounted work tool attachments to provide additional blade performance capability. NOTE: This cannot be used in conjunction with push plate, front lift work tools,or the 'installed' hydraulic front lift. It can be used with a not installed hydraulic front lift NOT RECOMMENDED FOR USE WITH: RIPPER-SCARIFIER, REAR CANNOT BE USED WITH: PUSH PLATE LIFT GROUP, MANUAL, FRONT (Installed)		
L	367-6842	**PUSH PLATE, COUNTERWEIGHT**	2,822	$5,640
			2,822	$5,640 NI
		NOTE NOT INSTALLED option is only for use with Miscellaneous orders using 0P-2970 12M3 MISC MATERIAL Front mounted. Recommended when machine is equipped with rear ripper/scarifier and other rear mounted attachments. NOTE: This cannot be used in conjunction with counterweight, any front lift work tools,or the 'installed' hydraulic front lift. It can be used with a not installed hydraulic front lift CANNOT BE USED WITH: COUNTERWEIGHT CANNOT BE USED WITH: LIFT GROUP, MANUAL, FRONT (Installed)		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

WORK TOOLS (CONT.)

L	312-2204	**LIFT GROUP, MANUAL, FRONT**	1,500 1,500	**$11,030** **$11,030 NI**

Front hydraulic lift without any work tool attached.
Note: This Front Lift Group has manual locking pins.

INSTALLED COMPATIBILITY:
REQUIRES: MOUNTING, FRONT LIFT
Hydraulics control part number that has front lift (FL) function.
REQUIRED BY: Front Scarifiers
CANNOT BE USED WITH: PUSH PLATE
COUNTERWEIGHT
MID MOUNT SCARIFIER PACKAGE
(The Installed Manual Lift Group can be attached to the machine at the sametime as the mounting for the mid-mount scarifier, but not the actual scarifier itself).

NOTE: A Not-Installed Manual Lift Group can be ordered with an INSTALLED Push Plate or Counterweight. The not-installed lift group will be skidded, banded and shipped with the unit.

NOT INSTALLED COMPATIBILITY:
REQUIRES: MOUNTING, FRONT LIFT
Hydraulics control part number that has front lift (FL) function

L	359-3925	**LIFT GROUP, FRONT MOUNTING**	10	**$442**

Two mounting plates welded to both sides of the front frame for factory or future installation of Front Lift.
REQUIRED BY: LIFT GROUP, MANUAL, FRONT

L	387-8664	**LINES, RIPPER, ADDITIONAL**	8	**$426**

For use with rear mounted auxiliary functions. Provides two hydraulic hoses with one end bundled at the rear of the machine and the other end bundled at the rear valve bank in front of the cab.
REQUIRES: Ripper Function
ONLY FOR USE WITH: BASE + 1 (RIP)
BASE + 2 (FL, RIP)
BASE+3 (FL,DA1,RIP)
BASE+4 (WM,WT-FLOAT,FL,RIP)
BASE+4 (WM,WT,FL,RIP) NOFLT
BASE+5 (WM,WT,DA1,FL,RIP)
BASE+6 (WM,WT,DA1,DA2,FL,RIP)

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

GROUND ENGAGING TOOLS

GROUND ENGAGING TOOLS

P	**8J-1434**	**TOOTH, STRAIGHT**	67 67	**$805** **$805 NI**
		NOTE AVAIALABLE for use as NOT INSTALLED ONLY with Miscellaneous order for RIPPER-SCARIFIER, REAR using 0P-2970 12M3 MISC MATERIAL Ripper tooth group for rear ripper. Includes one straight shank with ripper tooth. Recommended order quantity of 2 ONLY FOR USE WITH: RIPPER/SCARIFIER		
P	**4K-3330**	**SHANKS/TEETH, RIPPER/SCARIFIER**	152 152	**$1,404** **$1,404 NI**
		NOTE AVAIALABLE for use as NOT INSTALLED ONLY with Miscellaneous order for RIPPER-SCARIFIER, REAR using 0P-2970 12M3 MISC MATERIAL Nine shanks for ripper and scarifier combination. Utilizes the scarifier shank positions on a ripper and scarifier combination. Will work with a midmount scarifier ONLY FOR USE WITH: RIPPER/SCARIFIER		

FIELD INSTALLED ATTACHMENTS

Please refer to the Caterpillar Work Tools Price List (WT-MG) for Motor Grader work tools.

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

FIELD INSTALLED ATTACHMENTS (CONT.)

Available Through Parts Distribution

Reference numbers below are kits used to upgrade existing motor graders with new features or technology

463-6258 KIT, JOYSTICK,ADVANCED CONTROL
Improves operational efficiency when utilizing ACCUGRADE or GRADE CONTROL X SLOPE.
Estimated install Hours: 2.5
Special Instructions: REHS8847

442-8145 KIT, ACCUMULATOR, BLADE LIFT
Provides hydraulic lines for base functions and accumulators for the blade lift. Allows approximately 1-3" of vertical blade travel to reduce impact loads. Nitrogen/oil accumulators activated by electric switch.
Estimated install Hours: 8
Special Instructions: REHS4230

466-5233 KIT, EXTENSIONS, MIRROR HEATED
9" extension from Current Mirror, adds 2 additional mirrors 1 for front visibility and 1 rear visibility. Heated to keep free of ice and snow in cold weather
Estimated install Hours: 2

466-5255 KIT, EXTENSIONS, MIRROR STD
9" extension from Current Mirror, adds 2 additional mirrors, 1 for front visibility and 1 rear visibility
Estimated install Hours: 2

524-8603 KIT,LEFT HAND BLADE EXTENSION
24" x 24" x 7/8" - Left Hand Blade Extension Kit for use with 12 ft. and 14 ft. Basic Moldboards.
Estimated install Hours: 1.5

524-8604 KIT,LEFT HAND BLADE EXTENSION
24" x 27" x 1" - Left Hand Blade Extension Kit for use with 14 ft. Plus Moldboard.
Estimated install Hours: 1.5

524-8605 EXTENSION, BLADE, 24" RH
24" x 24" x 7/8" - Right Hand Blade Extension Kit for use with 12 ft. and 14 ft. Basic Moldboards.
Estimated install Hours: 1.5

524-8606 EXTENSION, BLADE, 24" RH
24" x 27" x 1" - Right Hand Blade Extension Kit for use with 14 ft. Plus Moldboard.
Estimated install Hours: 1.5

524-8607 KIT, SPARE RIM
14" x 25" MP Spare Rim
Estimated install Hours: 0.5

524-8609 KIT, SPARE RIM
10" x 24" MP Spare Rim
Estimated install Hours: 0.5

488-2192 KIT, CIRCLE SAVER
Circle Saver
Estimated install Hours: 0.5
Special Instructions: REHS4230

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

FIELD INSTALLED ATTACHMENTS (CONT.)

415-3925 **KIT, FENDERS, FRONT**
12/140/160M3 Tandem Front Fender Kit

434-1065 **KIT, FENDERS, REAR**
12M3 & 140M3 Rear Fender Kit

380-3889 **KIT, HEATED GLASS, RH DOOR**
Right Hand Heated Door Glass
Special Instructions: REHS7154

380-3885 **KIT, HEATED GLASS,WIDE FRONT**
Wide Front Heated Glass
Special Instructions: REHS7155

380-3886 **KIT, HEATED GLASS,NARROW FRONT**
Narrow Front Heated Glass
Special Instructions: REHS7155

473-5233 **KIT, STORAGE, CAB**
12/140/160M3 Cab Storage Kit

PACKING

MACHINE PACKING (Must Select One)

0P-0251 **DOMESTIC TRUCK** . . . . . 0 **NC**

0P-6645 **BUNDLED, LESS TIRES** . . . . . 0 **$1,175 NET**
Ships less tires. Rims ship on a separate skid.

ATTACHMENT PACKING

0P-0210 **PACK, DOMESTIC TRUCK** . . . . . 0 **NC**
Use for miscellaneous material orders.

0P-1935 **BUNDLED FRONT LIFT GROUP** 0 **$1,175**
Required when ordering the Not Installed
Lift Group,Manual,Front
REQUIRED BY: LIFT GROUP, MANUAL, FRONT NI

12M3 AWD MOTOR GRADER
PIRACICABA, BRAZIL

Ship Weight lbs | LIST PRICE AT DEALER

Standard Equipment:

POWERTRAIN

Air cleaner, dual stage dry type radial seal with service indicator and automatic dust ejector
Air-to-air after cooler (ATAAC)
Belt, serpentine, automatic tensioner
Brakes, oil disc, four-wheel, hydraulic
Demand fan, hydraulic
Differential, lock/unlock, Automatic
Drain, engine oil, ecology
Electronic over-speed protection
Engine:
-C9 with ACERT technology, diesel with automatic engine derate and idle control. EPA/ARB Tier 4 Final & EU stage
-IV certified Engine & Aftertreatment
Parking brake, multi-disc, sealed and oil cooled.
Sediment drain, fuel tank.
Tandem drive
Transmission, 8 speed forward and 6 speed reverse, power shift, direct drive
VHP Plus (Variable Horse Power Plus)

ELECTRICAL

Alarm, back-up
Alternator, 150 ampere, sealed
Batteries, maintenance free, heavy duty, 1125 CCA
Breaker panel, ground accessible
Electrical hydraulic valves
Electrical system, 24V
Grade control ready (Cab harness, software, electrical hydraulic valves, bosses and brackets)
Lights, reversing
Lights, roading, roof-mounted, stop and tail, LED
Starter, electric

OPERATOR ENVIRONMENT

Air Conditioning with heater
Articulation, automatic return to center
Centershift pin indicator
Display, digital speed and gear
Doors, left and right side with wiper
Gauge, machine level
Gauges (analog) inside the cab (includes fuel, articulation, engine coolant temp, engine RPM, and hydraulic oil temp, DEF/AdBlue)
Joystick, adjustable armrests
Joystick gear selection, hydraulic power steering hydraulic controls (right/left, blade lift w/ float position, blade sideshift and tip, circle drive, centershift, front wheel lean and articulation and steering)
Lights, night time cab
Messenger operator information system
Meter, hour, digital
Mirror, inside rearview, wide angle
Power Port, 12V
Radio Ready, Entertainment
ROPS cab, sound suppressed
69dB(A) - ISO 6394
Seat,cloth-covered, comfort suspension
Storage area for cooler/lunchbox
Throttle control, electronic
Windows laminated glass:
-Fixed front with intermittent wiper
-Door with intermittent wipers (3)
Windows tempered:
-Left and right side wipers
-Rear with intermittent wiper
Cab storage

SAFETY AND SECURITY

Clutch, circle drive slip
Doors, 2 engine compartment, (two left hand, two right hand) locking
Doors, 2 service, left and right locking
Ground level engine shutdown
Hammer (emergency exit)
Horn, electric
Lockout, hydraulic implement (for roading and servicing)
Seat belt, retractable 76.2 (3")
Secondary steering
Tandem walkway/guards

TIRES, RIMS, AND WHEELS

A partial allowance for tires on 254mm x 609.6mm (10" x 24") multi-piece rims is included in the base machine price and weight.

FLUIDS

Antifreeze
Extended Life Coolant -35C/-30F

OTHER STANDARD EQUIPMENT

Accumulators -brake -dual certified
Drawbar,6 shoe w/replaceable wear strips
Fluid check, ground level
Fuel tank, 398 liters (105 gallon)
Ground level fueling
DEF/AdBlue Tank, 21 liters (5.5 gallon)

12M3 AWD MOTOR GRADER
PIRACICABA, BRAZIL

	Ship Weight lbs	LIST PRICE AT DEALER

OTHER STANDARD EQUIPMENT (CONT.)

Hydraulic lines for base functions
Pump, hydrailic, high capacity
(98cc / 15 cu in)
Radiator, cleanout access
(both sides with swing doors)
SOS ports - engine -hydraulic
-transmission -coolant -fuel
Tandem walkway/guards
Tool box
Debris Guard

12M3 AWD MOTOR GRADER PIRACICABA, BRAZIL	Ship Weight lbs	LIST PRICE AT DEALER

Lane 2 is reserved for the Base Order Management program.
Please use Lane 2 when placing orders that are part of the Base Order Management program.

12M3 AWD MOTOR GRADER PIRACICABA, BRAZIL		Ship Weight lbs	LIST PRICE AT DEALER
384-9678	**12M3 AWD MOTOR GRADER**	39,334	**$400,820**
	LANE 2 - AVAILABLE FROM PIRACICABA FACTORY LANE 3 - AVAILABLE FROM PIRACICABA FACTORY		
0P-2981	**12M3 AWD MISC MATL**	0	**NC**
	AVAILABLE FROM PIRACICABA FACTORY		

Only reference numbers that have the text
"ALSO AVAILABLE ON A MISCELLANEOUS ORDER" can be used on a MISC order.

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

LANE SELECTION

	0P-9002	**LANE 2 ORDER**	0	NC
		Only for dealers enrolled in the Base Orders Management (BOM) program.		
	0P-9003	**LANE 3 ORDER**	0	NC

REGIONAL PACKAGES

L	385-9294	**GLOBAL ARRANGEMENT**	0	NC
		Provides standard brake accumulators. For use in temperatures above -18C		
		CANNOT BE USED WITH: WEATHER, COLD PLUS		
L	385-9297	**GLOBAL ARRANGEMENT,LOW AMBIENT**	0	NC
		Provides brake accumulators for low ambient temperatures below -18C		
		CANNOT BE USED WITH: EU dealers		
		WEATHER, STANDARD		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

PERFORMANCE PACKAGES

MOLDBOARDS

L	349-3046	**MOLDBOARD, 12'**	0	NC
		INCLUDES: - Moldboard 12' x 24" x 7/8" (3658mm x 610mm x 22mm) - Curved Cutting Edge, 6" X 5/8" (152mm x 16mm) - End Bits, Standard, Without Overlay		
L	349-3047	**MOLDBOARD, 14' BASIC**	347	$1,140
		INCLUDES: - Moldboard 14' x 24" x 7/8" (4267mm x 610mm x 22mm) - Curved Cutting Edge, 8" x 3/4" (203mm x 19mm) - End Bits, Standard, Without Overlay		
L	349-3048	**MOLDBOARD, 14' PLUS**	650	$2,710
		INCLUDES: - Moldboard 14' x 27" x 1" (4267mm x 686mm x 25mm) - Curved Cutting Edge, 8" x 3/4" (203mm x 19mm) - End Bits, Standard, With Overlay		

WORK TOOLS

L	393-4882	**NO HITCH**	0	NC
L	337-7510	**HITCH, TOWING**	0	$540
L	324-0889	**RIPPER/SCARIFIER**	2,120	$20,380
		Hydraulic, rear mounted ripper with three straight ripper shanks. Can accommodate two additional ripper shanks and nine scarifier teeth which must be ordered separately. REQUIRES: A hydraulics control part number that has a ripper function. INCLUDES: Ripper Mounting		
L	539-6894	**RIPPER, SNOW WING READY**	0	$23,830
		FOR USE IN LANE 3 ONLY Hydraulic, rear mounted ripper with three straight ripper shanks. Includes the mount for the Caterpillar Mastless Snow Wing on the right side of the ripper backplate. Can accommodate two additional ripper shanks, nine scarifier teeth, and the Caterpillar Mastless Snow wing which must be ordered separately. CANNOT BE USED WITH: Legacy Snow Wings		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

PERFORMANCE PACKAGES (CONT.)

WEATHER PACKAGES

L	353-3330	**STANDARD WEATHER AWD**	0	NC
		Recommended for year around use when typical ambient temperature range is 0C (32F) to 43C (110F) and operating at altitude below 1220 m (4000 feet). INCLUDES: - Batteries, Heavy Duty - 1125 CCA - Oil, Hydraulic, 10W FOR USE WITH: GLOBAL ARRANGEMENT FOR USE WITH: EUROPEAN ARRANGEMENT FOR USE WITH: EUROPEAN AR. W/ ROADING (TUV) CANNOT BE USED WITH: GLOBAL ARRANGEMENT,LOW AMBIENT		
L	394-4523	**COLD WEATHER PACKAGE AWD**	0	$760
		Recommended for year around use when typical ambient temperature range is -18C (0F) to 43C (110F) and operating at altitude below 1220 m (4000 feet). INCLUDES: - Starting Aid, Ether - Batteries, Extreme Duty -1400 CCA - Oil, Hydraulic, 10W - Cold Start arrangement ONLY FOR USE WITH: GLOBAL ARRANGEMENT; GLOBAL ARRANGEMENT,LOW AMBIENT; EUROPEAN ARRANGEMENT; EUROPEAN AR. W/ ROADING (TUV); CANADIAN ARRANGEMENT		
L	394-4524	**COLD WEATHER PLUS PACKAGE AWD**	37	$3,765
		Recommended for year around use when typical ambient temperature range is -40 degrees C (-40 degrees F) to 40 degrees C (104 degrees) or operating at altitude above 1220 m (4000 feet). INCLUDES: - Starting Aid, Ether - Cold Start; Transmission oil and fan brake bypass - Batteries, Extreme Duty -1400 CCA - Oil, Hydraulic, Cold, 0W. REQUIRES: HEATER, ENGINE COOLANT, 120V or HEATER, ENGINE COOLANT, 240V REQUIRED BY: SNOW ARRANGEMENT FOR USE WITH: GLOBAL ARRANGEMENT,LOW AMBIENT FOR USE WITH: CANADIAN ARRANGEMENT FOR USE WITH: EUROPEAN ARRANGEMENT FOR USE WITH: EUROPEAN AR. W/ ROADING (TUV) CANNOT BE USED WITH: GLOBAL ARRANGEMENT		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

PERFORMANCE PACKAGES (CONT.)

ACCUMULATORS

L	305-2927	**LINES,STANDARD W/O ACCUMULATOR**	0	NC
		Provides hydraulic lines for base functions		
L	358-9338	**ACCUMULATORS, BLADE LIFT**	170	$4,665
		Provides hydraulic lines for base functions and accumulators for the blade lift. Allows approximately 1-3" of vertical blade travel to reduce impact loads. Nitrogen/oil accumulators activated by electric switch.		
		CANNOT BE USED WITH: Canadian Dealers.		

PRECLEANER

L	380-6774	**PRECLEANER, NON SY-KLONE**	0	NC
		Includes dust ejector for medium to heavy dust environments.		
L	380-6775	**PRECLEANER, SY-KLONE**	5	$750
		Recommended for environments with large debris (leaves, chips, large grass, etc.)		

POWERTRAIN

OIL CHANGE

L	324-5328	**DRAIN, GRAVITY, ENGINE OIL**	0	NC
		Standard engine oil drain		
L	501-1163	**DRAIN, HIGH SPEED, ENGINE OIL**	0	$286
		High speed engine oil drain. Requires pump at service location to be attached to coupling receiver for high speed flow. HSO drain can also manual/gravity drain.		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS

NOTE: Optional Control Locations

Caterpillar offers many attachment hydraulic controls to operate work tools. Depending on which hydraulic part number is selected, the operating electro-hydraulic switches may include the auxiliary pod, mini-joystick located on the auxiliary pod, and/or the ripper control pod.

NOTE: Auxiliary controls that can have float

Auxiliary Pod Controls

```
INDEX = Index Finger (front lift)(float capability)
MID = Middle Finger(dozer angle 1)
RING = Ring Finger (dozer angle 2)
LITTLE= Little Finger (float capability)
```

NOTE: Mini-Joystick

```
 Fore/Aft
     .
    / \
     |
<--------->  Left/Right (float capability)
     |
    \ /
     .
```

NOTE: Ripper Control Pod

```
RH1   =  Front Lift (float capability)
RH2   =  Ripper-Scarifier Control
RHD   =  Ripper Handle Dual Switch (RH1 & RH2)
```

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

NOTE: Common Functions

COMMON FUNCTIONS:

Base = 8 functions: right and left blade lift, circle turn, drawbar center shift, blade side shift, blade tip, front wheel lean, frame articulation.

```
     FL      = Front Lift (moves front work tools up/down)
     DA1     = Dozer Angle 1 (angles front blade left OR right)
     DA2     = Dozer Angle 2 (angles front blade left AND right)
     RIP     = Rear Mounted Ripper (moves ripper up/down)
     MMS     = Mid-Mounted Scarifier
     WM      = Wing Mast
     WT      = Wing Tilt
     Float   = Built-in feature of valve section that opens both the
               work ports to tank. The external forces (weight of the
               work ports to tank. The external forces (weight of the
                implement) allows free movement of the implement.
     Flow Rate=Provides maximum rate of fluid flow from the specific
                work port.  B/A represents the maximum flow rate in
                Port B/Port A* in LPM (liters per minute).
                Port B/Port A* in LPM (liters per minute).

 *NOTE: Each valve section has two work ports (Port A and Port B).
     Port A:  Used to either raise implement or move implement to the
     right or for clockwise rotation of the implement.
     Port B:  Used to either lower implement or move implement to the
     left or for counter-clockwise rotation of the implement.
```

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

HYDRAULIC VALVE LOCATIONS

This illustration shows the factory installed switch location for each function by hydraulic part number.

Part Number	MINI-JOYSTICK Front Aft	MINI-JOYSTICK Left/ Right Float	MINI-JOYSTICK Index with Float	AUXILIARY POD Mid	AUXILIARY POD Ring	AUXILIARY POD Little	RIPPER POD RHD RH1	RIPPER POD RHD RH2
242-5056								
385-8094								RIPPER
Float:								N
Flow rate:								49/49
354-4113								MID-MOUNT SCARIFIER
Float:								Y
Flow Rate:								25/36
309-9848							FR.LIFT	
Float:							Y	
Flow Rate:							46/60	
385-8095							FR.LIFT	RIPPER
Float:							Y	N
Flow rate:							46/60	49/49
395-2008	MAST	TILT	FR.LIFT					
Float:	N	N	Y					
Flow rate:	72/72	41/30	46/60					
385-8096			FR.LIFT	DA1				RIPPER
Float:			Y	N				N
Flow rate:			46/60	72/72				49/49
385-8099	MAST	TILT	FR.LIFT					RIPPER
Float:	N	Y	Y					N
Flow rate:	72/72	74/86	46/60					49/49
385-8100	MAST	TILT	FR.LIFT					RIPPER
Float:	N	N	Y					N
Flow rate:	72/72	41/30	46/60					49/49
395-2009	MAST	TILT	FR.LIFT	DA1	MID-MOUNT SCARIFIER			
Float:	N	N	Y	N	N			
Flow rate:	72/72	41/30	46/60	72/72	25/36			

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

HYDRAULIC VALVE LOCATIONS LANE 3 ONLY

Part Number	MINI-JOYSTICK Front Aft	MINI-JOYSTICK Left/ Right Float	AUXILIARY POD Index with Float	AUXILIARY POD Mid	AUXILIARY POD Ring	AUXILIARY POD Little	RIPPER POD RH1	RIPPER POD RH2
385-8097			FR. LIFT		MID-MOUNT SCARIFIER			RIPPER
Float:			Y		N			N
Flow rate:			46/60		25/36			49/49
385-8101	MAST	TILT	FR.LIFT	DA1				RIPPER
Float:	N	N	Y	N				N
Flow rate:	72/72	41/30	46/60	72/72				49/49
385-8103	MAST	TILT	FR.LIFT	DA1	DA2			RIPPER
Float:	N	N	Y	N	N			N
Flow rate:	72/72	41/30	46/60	72/72	72/72			49/49
481-8610	MAST	TILT	FR.LIFT	DA1	DA2			RIPPER
Float:	N	N	Y	N	N			N
Flow rate:	72/72	74/86	46/60	72/72	72/72			49/49

HYDRAULIC VALVE PART NUMBERS

L **242-5056** **HYDRAULICS, BASE** . . . . . 0 **NC**
Base hydraulic system includes machine articulation, wheel lean, left and right blade lift with independent float, drawbar centershift, circle drive, blade sideshift and tip.

L **385-8094** **BASE + 1 (RIP)**. 21 **$2,300**
Ripper function. Includes the Ripper Lines.
ONLY FOR USE WITH: RIPPER-SCARIFIER, REAR

L **354-4113** **BASE + 1 (MMS)** 21 **$2,300**
FOR USE IN LANE 3 ONLY
Mid-Mount Scarifier function. Includes the Mid-Mount Scarifier Lines.
ONLY FOR USE WITH: MID MOUNT SCARIFIER PACKAGE

L **309-9848** **BASE + 1 (FL)**. 18 **$1,890**
Front Lift function. Includes the Front Lift Lines.
ONLY FOR USE WITH: LIFT GROUP, MANUAL, FRONT or FRONT BLADE PACKAGE

L **385-8095** **BASE + 2 (FL,RIP)** 37 **$4,085**
Ripper and Front Lift functions. Includes the Front Lift Lines and Ripper Lines.
ONLY FOR USE WITH: RIPPER-SCARIFIER, REAR and LIFT GROUP, MANUAL, FRONT or FRONT BLADE PACKAGE

L **395-2008** **BASE + 3 (WM,WT-NOFLOAT,FL)** 60 **$6,540**
Front Lift, Snow Wing Mast, and Snow Wing Tilt
ONLY FOR USE WITH: SNOW ARRANGEMENT and LIFT GROUP, MANUAL, FRONT or FRONT BLADE PACKAGE

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

HYDRAULIC VALVE PART NUMBERS (Cont.)

L	385-8096	**BASE + 3 (FL,DA1,RIP)**	67	$7,460
		FOR USE IN LANE 3 ONLY Ripper, Front Lift and Angle functions. Includes the Front Lift Lines Dozer Angle 1 Lines, and Ripper Lines. ONLY FOR USE WITH: RIPPER-SCARIFIER, REAR and LIFT GROUP, MANUAL, FRONT or FRONT BLADE PACKAGE		
L	385-8099	**BASE + 4 (WM,WT-FLOAT,FL,RIP)**	85	$8,960
		Ripper, Front Lift, Snow Wing Mast and Snow Wing Tilt (74/86 with float) functions. Includes the Front Lift Lines and Ripper Lines. ONLY FOR USE WITH: SNOW ARRANGEMENT and RIPPER-SCARIFIER, REAR and LIFT GROUP, MANUAL, FRONT or FRONT BLADE PACKAGE		
L	385-8100	**BASE + 4 (WM,WT,FL,RIP) NOFLT**	85	$8,700
		FOR USE IN LANE 3 ONLY Ripper, Front Lift, Snow Wing Mast and Snow Wing Tilt (41/30 - No Float) functions. Includes the Front Lift Lines and Ripper Lines. ONLY FOR USE WITH: SNOW ARRANGEMENT and RIPPER-SCARIFIER, REAR and LIFT GROUP, MANUAL, FRONT or FRONT BLADE PACKAGE		
L	395-2009	**BASE + 5 (WM,WT,DA1,FL,MMS)**	120	$10,790
		FOR USE IN LANE 3 ONLY Snow Wing Mast, Snow Wing Tilt (41/30 - No Float) functions, Dozer Angle 1, Front LIFT, and Mid-Mount Scarifier Includes the Front Lift Lines, Angle 1 Lines, and Mid-Mount Scarifier Lines. ONLY FOR USE WITH: SNOW ARRANGEMENT and RIPPER-SCARIFIER, REAR and LIFT GROUP, MANUAL, FRONT or FRONT BLADE PACKAGE		

HYDRAULIC VALVE PART NUMBERS LANE 3 ONLY

L	385-8097	**BASE+3 (RIP, MMS, FL)**	67	$7,460
		FOR USE IN LANE 3 ONLY Front Lift, Ripper and Mid-Mount Scarifier functions. Includes the Front Lift Lines, Ripper Lines and Mid-Mount Scarifier Lines. ONLY FOR USE WITH: RIPPER-SCARIFIER, REAR and MID MOUNT SCARIFIER PACKAGE and LIFT GROUP, MANUAL, FRONT or FRONT BLADE PACKAGE		
L	385-8101	**BASE + 5 (WM,WT,DA1,FL,RIP)**	120	$10,790
		FOR USE IN LANE 3 ONLY Snow Wing Mast, Snow Wing Tilt (41/30 - No Float) functions, Dozer Angle 1, Front LIFT, and Ripper. Includes the Front Lift Lines, Angle 1 Lines, and Ripper Lines. ONLY FOR USE WITH: SNOW ARRANGEMENT and MOUNT, SNOW WING, FRAME READY and RIPPER-SCARIFIER, REAR and LIFT GROUP, MANUAL, FRONT or FRONT BLADE PACKAGE		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

HYDRAULIC VALVE PART NUMBERS (Cont.)

L	385-8103	**BASE + 6(WM,WT,DA1,DA2,FL,RIP)**	130	**$13,350**
		FOR USE IN LANE 3 ONLY Ripper, Dozer Angle 1, Dozer Angle 2, Front Lift, Snow Wing Mast and Snow Wing Tilt (41/30 - No Float) functions. Includes the Front Lift Lines, Dozer Angle 2 Lines and Ripper Lines. ONLY FOR USE WITH: SNOW ARRANGEMENT and MOUNT, SNOW WING, FRAME READY and RIPPER-SCARIFIER, REAR and LIFT GROUP, MANUAL, FRONT or FRONT BLADE PACKAGE		
L	481-8610	**BASE+6(WM,WT+F,DA1,DA2,FL,RIP)**.	130	**$13,620**
		FOR USE IN LANE 3 ONLY Ripper, Dozer Angle 1, Dozer Angle 2, Front Lift, Snow Wing Mast and Snow Wing Tilt (72/72 + Float) functions. Includes the Front Lift Lines, Dozer Angle 2 Lines and Ripper Lines. ONLY FOR USE WITH: SNOW ARRANGEMENT and MOUNT, SNOW WING, FRAME READY and RIPPER-SCARIFIER, REAR and LIFT GROUP, MANUAL, FRONT or FRONT BLADE PACKAGE		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

STARTERS, BATTERIES, & ALTERNATORS

STARTER ARRANGMENT

L	394-3945	**STARTER, ELECTRIC, HEAVY DUTY**	0	NC
		Provides a 715 Amp. starter		
L	395-3547	**STARTER, ELEC, EXTREME DUTY**	21	$408
		Recommended for Cold weather applications		
		Provides a 1000 Amp. starter		

ELECTRICAL

BRAKE LIGHTS

L	331-6793	**LIGHTS, BRAKE AND BACK-UP**	0	NC
		FOR USE IN LANE 3 ONLY		
		Provides stationary rear brake lights along with the back-up lights.		
		Does not include front headlights or turn signals		
		CANNOT BE USED WITH: 526-2563 EUROPEAN ARRANGEMENT		
		394-3871 EUROPEAN AR. W/ ROADING (TUV)		
		396-1966 SNOW ARRANGEMENT		
		553-2588 HEADLIGHTS, FRONT, LOW, LED or		
		553-2589 HEADLIGHTS, FRONT, HIGH, LED or		
		308-9370 HEADLIGHTS,FRONT, LOW, HALOGEN or		
		308-9371 HEADLIGHTS,FRONT, HIGH,HALOGEN		
L	536-9969	**LIGHTS, ARM, FOLD DOWN**	0	$1,875
		Provides stationary rear brake lights along with the back-up lights, dimmer switch for road lighting, drop-down stop, tail, and rear turn signals and back-up lights.		
		REQUIRES: 308-9370 LIGHTS, FRONT HEADLIGHTS, LOW or		
		308-9371 LIGHTS, FRONT HEADLIGHTS, HIGH or		
		553-2588 HEADLIGHTS, FRONT, LOW, LED or		
		553-2589 HEADLIGHTS, FRONT, HIGH, LED		
		INCLUDED IN: 396-1966 SNOW ARRANGEMENT		

ROADING LIGHTS

L	421-7810	**LIGHTS, ROADING, HALOGEN**	0	NC
		Provides six halogen cab roof mounted roading lights.		
L	550-6608	**LIGHTS, ROADING, LED**	0	$1,245
		Provides six LED cab roof mounted roading lights.		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

OPERATOR ENVIRONMENT

CAB EXTERIOR

L	385-9553	**CAB, BASE (STANDARD GLASS)**	0	NC
		FOR USE IN LANE 3 ONLY INCLUDES: - 150 amp alternator - Standard Glass CANNOT BE USED WITH: SNOW ARRANGEMENT EUROPEAN ARRANGEMENT EUROPEAN AR. W/ ROADING (TUV)		
L	385-9554	**CAB, PLUS (STANDARD GLASS)**	35	$1,105
		INCLUDES: - 150 amp alternator - Wiper/washer, rear - Standard Glass		
L	385-9555	**CAB, PLUS (ANTI-ICING GLASS)**	35	$6,630
		INCLUDES: - 270 amp alternator - Wiper/washer, rear - Front glass and RH door glass are heated.		

CAB INTERIOR

Bluetooth radio technology enables the use of a hands free function such as listening to music and making phone calls.
Authorization varies by country, please contact your Cat marketing representative with questions or click on the link below:
https://dealer.cat.com/en/products/technology.html

L	397-7456	**CAB, BASE (INTERIOR)**	0	NC
		INCLUDES: - Seat, mechanical suspension, cloth - Shade, Sun CANNOT BE USED WITH: SNOW ARRANGEMENT EUROPEAN ARRANGEMENT EUROPEAN AR. W/ ROADING (TUV)		
L	397-7457	**CAB, PLUS (INTERIOR)**	45	$3,010
		INCLUDES: - Seat, Air Suspension, Cloth, Heated - Radio,12V, AM/FM, Weatherband, Bluetooth, USB, Aux Input - Fan, defroster, rear window - Converter, Communication (CB) - Shade, Sun		
L	397-7458	**CAB, PREMIUM (INTERIOR)**	80	$4,580
		- Seat, air suspension, cloth; Heated, Ventilated - Radio,12V, AM/FM CD/MP3 Bluetooth, Weatherband, USB, Aux Input XM/Sirius Satellite (439-1564) - Fan, defroster, rear window - Converter, Communication (CB) - Shade, Sun *Recommended for Snow Removal		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

OPERATOR ENVIRONMENT (CONT.)

SEAT BELT

L	394-1492	**SEAT BELT**	0	NC
		Standard 3 inch seat belt		
L	394-1132	**SEAT BELT W/INDICATOR**	5	$193
		Standard 3 inch seat belt with indicator located on display panel		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

TECHNOLOGY PRODUCTS

PRODUCT LINK

Product Link enables the remote transmission of information about the location, operation, and condition of your equipment. Efficiently and effectively monitor performance of your assets to help keep your jobs on schedule, maintain equipment condition, and reduce the costs of owning and operating your fleet.

Availability varies by country, please contact your Cat marketing representative with questions or click on the link below:
HTTPS://DEALER.CAT.COM/en/bt/otd/machine-price-list.html
From there click on the 'PRODUCT LINK Hardware Certification" link.

L	464-6804	**PRODUCT LINK, SATELLITE PLE631**	29	**$432**
		Product Link Elite series PLE631 uses a satellite network to transmit location, utilization and condition information for viewing in Product Link's remote monitoring web interface. For use in areas with poor or no cellular coverage. Includes Network Manager.		
L	464-6442	**PRODUCT LINK, CELLULAR PLE641**	29	**NC**
		Product Link Elite series PLE641 offers expanded coverage including 3G UMTS and CDMA2000 as well as 2G GSM and CDMA cellular networks to transmit location, utilization and condition information for viewing in Product Link-s remote monitoring web interface. Cellulartechnology provides capabilities for frequent transmission and larger volumes of data.		

ACCUGRADE

L	362-5222	**NO ACCUGRADE**.	0	**NC**
L	462-7930	**INSTALLATION, ACCUGRADE READY**	90	**$4,830**
		Allows the Motor Grader to be equipped with either a Cross Slope, Sonic, Laser, GPS, or ATS electronics kit. Provides software, harnesses for sensors, mounting for sensors and blade mast bracket.		

NOTE: Highly recommended to select Advanced Joystick Controls. This will Allow for complete configuration and control when using 3 party grade control systems

L	462-7931	**GRADE CONTROL X SLOPE**	165	**$11,060**
		Allows the operator to manually control one end of the blade to match the curb or crown while automatically maintaining the desired slope of the blade. This system is used to maintain the crown of a gravel road or the shoulder of a road. Provides cab switches, software, harnesses for sensors, mounting for sensors and blade mast bracket. Accugrade Ready is included in this option REQUIRES: JOYSTICK CONTROLS, ADVANCED		

MOTOR GRADER CONTROLS

L	357-9151	**JOYSTICK CONTROLS, BASIC**	6	**NC**
		Standard joystick controls.		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

TECHNOLOGY PRODUCTS (CONT.)

MOTOR GRADER CONTROLS (Cont.)

L	458-8701	**JOYSTICK CONTROLS, ADVANCED**	8	$2,030
		Provides enhanced functionality while using ACCUGRADE READY or GRADE CONTROL X SLOPE INCLUDES: - Advanced Joysticks - Harness - Films REQUIRED BY: GRADE CONTROL X SLOPE RECOMMENDED FOR USE WITH: ACCUGRADE READY INCLUDED IN: 492-3595 CONTROLS, PERFORMANCE BUNDLE		

FUEL SYSTEMS

L	540-2373	**TANK, FUEL, STANDARD**	0	NC
		Standard Fuel 105 gallon (398 L)		
L	553-3677	**TANK, FUEL, FAST FILL**	0	$1,410
		Fuel tank is ready to accept fast fill 100 gpm nozzle. Tank capacity is 105 gallons (398 L)		

COOLING

COOLING FAN

L	542-4660	**FAN, STANDARD**	0	NC
		Provides a hydraulically driven demand fan		
L	542-4661	**FAN, REVERSING**	0	$3,105
		Provides a hydraulically driven demand fan that can reverse direction to prevent debris build up on the cooling package and engine enclosure. Includes automatic and manual controls for airflow reversal. Recommended for applications with a high content of airborne debris.		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

TIRES, RIMS, AND WHEELS

Tires listed below include a set of six tires.
****To calculate tire loads with machine attachments, please reference the MG Tire Selection Pocket Guide (media #AEXQ0182), available on the Electronic Sales Library.**
All tire selections should be made with consideration for planned machine attachments (OEM and aftermarket) and their additional weight. Each tire has a maximum load rating that is not to be exceeded. The tire selection should be based on the maximum of all tire position loads on the machine. Assistance for calculating the highest tire load can be found in the Tire Load Worksheet in the back of the Caterpillar Motor Graders Tire Selection Pocket Guide. Failure to abide by the load ratings of the tires without first consulting the local tire supplier representative could result in nullification of the tire warranty.

Due to industry-wide tire availability limitations, tire brand and type cannot be guaranteed. Every effort will be made to satisfy your tire choice, but we reserve the right to change to alternate tires. If the tire brand cannot be supplied, the dealer will be contacted to propose alternative tire options. The dealer will need to respond with an alternative tire selection within 72 hours. If no response is provided by the supplier, the order will default to a comparable tire. As a consequence of a tire change the total machine price will be decreased or increased relative to the price of the new tire selection.

The information provided can be used to make a tire selection based on the particular conditions at the site. When available, the tire manufacturer should be consulted regarding proper tire selection.

Application specific

L	515-5404	**TIRES,14.0R24 SOIL TRACTION MP**	0	$5,970
		Tire group received will be one of the tire groups listed below: - Bridgestone VKT 1* on 10" x 24" multi-piece rims. - Michelin XGLA2 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	515-5405	**TIRES,17.5R25 SOIL TRACTION MP**	0	$12,440
		Tire group received will be one of the tire groups listed below: - Bridgestone VKT 1* on 14" x 25" multi-piece rims. - Michelin XTLA 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

TIRES, RIMS, AND WHEELS (CONT.)

Goodyear

L	310-7327	**TIRES, GY17.5R25* COMBO MP**	1,200	**$20,290**
		Goodyear RL2+ 6S on 14" x 25" multi-piece rims THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		

Bridgestone

L	252-0722	**TIRES, 14.0R24 BS VUT * L2 MP**	991	**$7,250**
		FOR USE IN LANE 3 ONLY Bridgestone VUT 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	249-7841	**TIRES, 17.5R25 BS VKT * D2A MP**	1,620	**$13,440**
		Bridgestone VKT 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	252-0716	**TIRES, 14.0R24 BS VKT * G2 MP**	1,519	**$6,970**
		Bridgestone VKT 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	252-0710	**TIRES, 14.0R24 BS VSW * G2 MP**	1,459	**$13,320**
		FOR USE IN LANE 3 ONLY Bridgestone VSW 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	310-7332	**TIRES, 17.5R25 BS VSW * G2 MP**	1,698	**$18,590**
		Bridgestone VSW 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		

Michelin

L	249-7845	**TIRES,14.0R24 MX XSNO+ * G2 MP.**	1,261	**$14,890**
		FOR USE IN LANE 3 ONLY Michelin XSNO 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (7824 lbs) 3550 kg.**		
L	252-0681	**TIRES,14.0R24 MX XGLA2 * G2 MP**	1,048	**$10,860**
		FOR USE IN LANE 3 ONLY Michelin XGLA2 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (7824 lbs) 3550 kg.**		
L	252-0779	**TIRES,17.5R25 MX XSNO+ * G2 MP.**	903	**$20,490**
		FOR USE IN LANE 3 ONLY Michelin XSNO+ 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	252-0773	**TIRES, 17.5R25 MX XTLA * L2 MP**	268	**$16,110**
		FOR USE IN LANE 2 ONLY Michelin XTLA 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

TIRES, RIMS, AND WHEELS (CONT.)

SHIPPING TIRES

L	440-3434	**TIRES, 17.5 SHIPPING, AWD, MP**	83	$2,250
		FOR USE WITH LANE 3 ONLY Shipping tire for use during shipment of machine only. Solid rubber band mounted on 14" x 25" multi-piece rims. Must be replaced with pneumatic tire before delivering to customer		
L	448-5584	**TIRES, 14.0 SHIPPING, AWD, MP**	69	$2,000
		FOR USE WITH LANE 3 ONLY Shipping tire for use during shipment of machine only. Solid rubber band mounted on 10" x 24" multi-piece rims. Must be replaced with pneumatic tire before delivering to customer.		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER
		GUARDS		
		Guards		
L	323-6970	**GUARD GP, HITCH**	25	NC
		Standard bottom plate just rear of articulation hitch		
L	368-6239	**ARTICULATION GUARD.**	30	$1,260
		Provides protection for the articulation rods from snow, dirt and		
		Highly recommended for snow removal applications, or below freezing		
		CANNOT BE USED WITH : SOUND SUPRESSION (BOTTOM)		
		CANNOT BE USED WITH: EUROPEAN ARRANGEMENT		
		FLUIDS		
		COOLANT ANTIFREEZE		
L	469-8157	**COOLANT, 50/50, -35C (-31F)**	0	NC
		Standard engine coolant		
L	469-8160	**COOLANT, 60/40, -51C (-60F)**	0	$245 NET
		Engine coolant recommended for extreme low temperatures		
		CAB ANTIFREEZE		
	0P-1939	**ANTIFREEZE WINDSHIELD WASHER**	0	NC
		For use with machines with cab.		
		FUEL ANTIFREEZE		
	0P-3978	**FUEL ANTIFREEZE, -25C (-13F)**	0	NC
		Provides fuel (diesel) antifreeze protection down to -25C (-13F)		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

DOCUMENTATION

LANGUAGE SELECTION

NOTE: This part number will provide the language for Messenger and Statement of Conformity

L	**386-1254**	**LANGUAGE, ENGLISH**	0	**NC**

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

DOCUMENTATION (CONT.)

DECAL PACKAGES

NOTE: This part number will provide the films in ANSI or ISO
The word "WARNING" is on picto decals for ANSI.
Symbols only are on picto decals for ISO.

L	**442-9940**	**DECALS, ENGLISH (U.S.)**	0	**NC**
		Provides decals as required by ANSI.		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

FEATURE PACKAGES

REGIONAL OPTIONAL PACKAGES

L	396-1966	**SNOW ARRANGEMENT**	355	$6,460

INCLUDES:
361-3137 MOUNTING, WARNING LIGHT
396-3515 TRANSMISSION, AUTOSHIFT
536-9969 LIGHTS, ARM, FOLD DOWN
RECOMMENDED: MIRRORS, OUTSIDE HEATED
REQUIRES: 395-3547 STARTER, ELEC, EXTREME DUTY or
395-3745 STARTER, ELEC, EXTRM DUTY(TUV) and
394-4524 COLD WEATHER PLUS PACKAGE AWD and
385-9554 CAB, PLUS (STANDARD GLASS) or
385-9555 CAB, PLUS (ANTI-ICING GLASS) and
397-7457 CAB, PLUS (INTERIOR) or
397-7458 CAB, PREMIUM (INTERIOR) and
395-2008 BASE + 3 (WM, WT-NOFLOAT, FL) or
385-8099 BASE + 4 (WM, WT-FLOAT, FL, RIP) or
385-8100 BASE + 4 (WM, WT, FL, RIP) NOFLT or
395-2009 BASE + 5 (WM, WT, DA1, FL, MMS) or
385-8101 BASE + 5 (WM, WT, DA1, FL, RIP) or
385-8103 BASE + 6 (WM, WT, DA1, DA2, FL, RIP) or
481-8610 BASE + 6 (WM, WT+F, DA1, DA2, FL, RIP) and
390-9182 MOUNT,SNOW WING,FRAME RDY HAL or
551-6546 MOUNT,SNOW WING,FRAME RDY LED and
395-1967 LIGHTS, WORKING, PLUS, HALOGEN or
552-7285 LIGHTS, WORKING, PLUS, LED and
553-2589 HEADLIGHTS, FRONT, HIGH, LED or
308-9371 HEADLIGHTS,FRONT, HIGH,HALOGEN

WORK TOOL PACKAGES

L	358-9341	**MID MOUNT SCARIFIER PACKAGE**	2,076	$16,290

INCLUDES:
- Mid-mount Scarifier, V-Type with 11 Teeth
- MOUNT, MID-MOUNT SCARIFIER
CANNOT BE USED WITH: Any Front Lift group
CANNOT BE USED WITH: FENDERS, FRONT, AWD

L	390-9182	**MOUNT,SNOW WING,FRAME RDY HAL**	251	$2,295

INCLUDES:
- Snow Wing Mount
- Light, halogen Snow Wing, Right Hand
REQUIRED BY: SNOW ARRANGEMENT

L	551-6546	**MOUNT,SNOW WING,FRAME RDY LED**	0	$2,710

INCLUDES:
- Snow Wing Mount
- Light, LED Snow Wing, Right Hand
REQUIRED BY: SNOW ARRANGEMENT

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

FEATURE PACKAGES (CONT.)

WORK TOOL PACKAGES (Cont.)

L	351-5178	**FRONT BLADE PACKAGE**	2,612	$11,510
		FOR USE IN LANE 3 ONLY INCLUDES: - Front Blade (Lift & Lower only) - Lines for Front Blade REQUIRES: A hydraulics control part number that has a Front Lift function. CANNOT BE USED WITH: COUNTERWEIGHT CANNOT BE USED WITH: PUSH PLATE CANNOT BE USED WITH: LIFT GROUP, MANUAL, FRONT (Installed) CANNOT BE USED WITH: LIFT GROUP, MANUAL, FRONT (NOT Installed)		

LIGHTING PACKAGES

L	395-1966	**LIGHTS, WORKING, BASIC,HALOGEN**	19	$770
		FOR USE IN LANE 3 ONLY INCLUDES: - Lights, halogen, Heel 3X3 - Lights, halogen, Midframe Toe 3X3 - Switch, Work Lighting		
L	395-1967	**LIGHTS, WORKING, PLUS, HALOGEN**	22	$1,035
		INCLUDES: - Lights, halogen, ripper 3X3 - Lights, halogen, work, heel 3X3 - Lights, halogen, work, midframe toe 3X3 - Switch, Work Lighting CANNOT BE USED WITH: LIGHTS, ROADING, LED MOUNT,SNOW WING,FRAME RDY LED REQUIRED BY: SNOW ARRANGEMENT		
L	552-7285	**LIGHTS, WORKING, PLUS, LED**	0	$2,590
		INCLUDES: - Lights, LED, ripper 3X3 - Lights, LED, work, heel 3X3 - Lights, LED, work, midframe toe 3X3 - Switch, work lighting CANNOT BE USED WITH: LIGHTS, ROADING, HALOGEN MOUNT,SNOW WING,FRAME RDY HAL REQUIRED BY: Snow Arrangement		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

FEATURE PACKAGES (CONT.)

OTHER OPTIONAL ATTACHMENTS

L	338-1132	**LIGHT, LED WARNING STROBE**	5	$565
		Amber high-speed strobe beacon. REQUIRES: MOUNTING, WARNING LIGHT		
L	361-3137	**MOUNTING, WARNING LIGHT**	10	$725
		Provides the bracket for warning beacon light INCLUDED IN: SNOW ARRANGEMENT		
L	396-3515	**TRANSMISSION, AUTOSHIFT**	5	$3,205
		Improves ease of operation and maximizes productivity by automatically shifting the transmission at optimal shift points. REQUIRED BY: EUROPEAN ARRANGEMENT REQUIRED BY: EUROPEAN AR. W/ ROADING (TUV) REQUIRED BY: JAPANESE ARRANGEMENT INCLUDED IN: SNOW ARRANGEMENT		
L	380-3070	**LIGHTS, SERVICE, INTERNAL**	5	$193
		Provides two lights operated by a single manual switch located in the rear enclosure. One light illuminates the engine compartment and the second light illuminates the hydraulic level sight gauge.		

ELECTRICAL

FRONT HEADLIGHTS

L	308-9370	**HEADLIGHTS,FRONT, LOW, HALOGEN**	0	$640
		Provides low bar headlights with front turn signals. REQUIRED BY: 526-2563 EUROPEAN ARRANGEMENT or 394-3871 EUROPEAN AR. W/ROADING (TUV) or 536-9969 LIGHTS, ARM, FOLD DOWN CANNOT BE USED WITH: 396-1966 SNOW ARRANGEMENT		
L	308-9371	**HEADLIGHTS,FRONT, HIGH,HALOGEN**	0	$640
		Provides HIGH bar headlights with front turn signals. REQUIRED BY: 526-2563 EUROPEAN ARRANGEMENT or 394-3871 EUROPEAN AR. W/ROADING (TUV) or 536-9969 LIGHTS, ARM, FOLD DOWN or 396-1966 SNOW ARRANGEMENT		
L	553-2588	**HEADLIGHTS, FRONT, LOW, LED**	0	$1,365
		Provides LOW bar LED headlights with front turn signals. CANNOT BE USED WITH: SNOW ARRANGEMENT ANY HALOGEN LIGHTING OPTION REQUIRED BY: LIGHTS,ARM, FOLD DOWN 526-2563 EUROPEAN ARRANGEMENT 394-3871 EUROPEAN AR. W/ROADING (TUV)		
L	553-2589	**HEADLIGHTS, FRONT, HIGH, LED**	0	$1,365
		Provides HIGH bar LED headlights with front turn signals. CANNOT BE USED WITH: ANY HALOGEN LIGHTING OPTION REQUIRED BY: LIGHTS,ARM, FOLD DOWN SNOW ARRANGEMENT 526-2563 EUROPEAN ARRANGEMENT 394-3871 EUROPEAN AR. W/ROADING (TUV)		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

OPERATOR ENVIRONMENT

CAMERA

L	396-3921	**CAMERA, REAR VISION**	15	$2,535
		Provides a 115 degree color camera mounted on the rear of the hood that is connected to a 7 inch (178mm) LCD color display mounted in the cab which shows the view behind the machine. REQUIRED BY: JAPANESE ARRANGEMENT EUROPEAN ARRANGEMENT CAN NOT BE USED WITH: EUROPEAN AR. W/ ROADING (TUV) NOTE* EUROPEAN AR. W/ ROADING (TUV) includes front and rear facing camera		

MIRRORS

L	233-3295	**MIRRORS, OUTSIDE MOUNTED**	32	$495
		Provides two convex mirrors for outside mounting on the left and right cab grab irons. NOTE: The mirrors are wrapped in bubble wrap and rotated toward the doors for protection during shipment. REQUIRED BY: EUROPEAN ARRANGEMENT EUROPEAN AR. W/ ROADING (TUV) JAPANESE ARRANGEMENT		
L	344-0984	**MIRRORS, OUTSIDE HEATED 24V**	33	$670
		Provides mirrors with a 24V heating element to keep mirrors ice free in cold weather operations. NOTE: The mirrors are wrapped in bubble wrap and rotated toward the doors for protection during shipment. REQUIRED BY: EUROPEAN ARRANGEMENT EUROPEAN AR. W/ ROADING (TUV) JAPANESE ARRANGEMENT		

TECHNOLOGY PRODUCTS

TECHNOLOGY PRODUCTS

L	393-6335	**SECURITY SYSTEM, MACHINE**	10	$720
		Provides a programmable system to manage access to the machine using special MSS keys. Deters theft, vandalism, and unauthorized use. Programmable features allow the following: * limits operators to selected machines * controls the days and hours equipment may be started * controls access by untrained operators or personnel		
L	458-2072	**STABLE BLADE**	3	$2,470
		Provides sensor and software to automatically reduce engine speed in various applications to reduce machine bounce and scalloping of surface.		
L	492-3595	**CONTROLS, PERFORMANCE BUNDLE**	176	$15,560
		The Auto Articulation in this bundle is an unrestricted version, not limited to 500 hours. INCLUDES: 435-2072 CONTROL,AUTO ARTICULATION-FULL 458-2072 STABLE BLADE 458-8701 JOYSTICK CONTROLS, ADVANCED 462-7931 GRADE CONTROL X SLOPE		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

TECHNOLOGY PRODUCTS (CONT.)

CONTROL AUTO ARTICULATION

L	483-2354	**CONTROL,AUTO ARTICULATION-DEMO** . . . . . 500 machine hour demo. Improves ease of operation, increases maneuverability and maximizes productivity by automatically matching articulation angle to steering angle. Includes 3 position rocker switch enabling 3 modes; off / forward / both forward and reverse.	0	**NC**
L	435-2072	**CONTROL,AUTO ARTICULATION-FULL** . . . . . Improves ease of operation, increases maneuverability and maximizes productivity by automatically matching articulation angle to steering angle. Includes 3 position rocker switch enabling 3 modes; off / forward / both forward and reverse.	0	**$1,810**

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER
		GUARDS		
		GUARDS		
L	367-6905	**GUARD, AXLE HOSE**	15	$1,075
		FOR USE IN LANE 3 ONLY Provides additional protection to the front axle cylinders, lines, and fittings. *NOTE* NOT recommended for use with tire chains		
L	366-2459	**GUARD, TRANSMISSION**	310	$3,400
		Provides a steel guard to protect the transmission from ground debris. INCLUDED IN: EUROPEAN ARRANGEMENT INCLUDED IN: EUROPEAN AR. W/ ROADING (TUV) REQUIRED BY: SOUND SUPRESSION (BOTTOM)		
L	377-1602	**SOUND SUPPRESSION (BOTTOM)**	243	$2,095
		FOR USE IN LANE 3 ONLY Provides two metallic side panels on either side of the transmission guard, enclosing the rear of the machine. This option prevents debris from accumulating on top of the transmission guard and also suppresses sound to meet EU sound regulations. REQUIRES: GUARD, TRANSMISSION REQUIRES: GUARD GP, HITCH INCLUDED IN: EUROPEAN ARRANGEMENT INCLUDED IN: EUROPEAN AR. W/ ROADING (TUV) CANNOT BE USED WITH: ARTICULATION GUARD		
L	546-0262	**SOUND SUPPRESSION, ENGINE ENCL**	0	$1,540
		FOR USE IN LANE 3 ONLY Suppression panels in engine enclosure doors. INLCUDED IN: EUROPEAN ARRANGEMENT INCLUDED IN: EUROPEAN AR. W/ ROADING (TUV)		
L	262-0412	**FENDERS, FRONT, AWD**	124	$3,795
		Non-metallic front fenders aid in reducing the build-up of mud, snow, or debris. Front fenders are compatible with all Non-AWD tire sizes offered by the factory. ** NOT RECOMMENDED FOR USE WITH TIRE CHAINS. CANNOT BE USED WITH: MID MOUNT SCARIFIER PACKAGE CANNOT BE USED WITH: GUARD, AXLE HOSE		
L	262-0413	**FENDERS, REAR**	344	$5,030
		Provides non-metallic rear fenders to aid in reducing the build-up of mud, snow, or debris. Rear fenders are compatible with all MG tire sizes offered by the factory. INCLUDED IN: EUROPEAN AR. W/ ROADING (TUV) ** NOT RECOMMENDED FOR USE WITH TIRE CHAINS.		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

OTHER ATTACHMENTS

STARTING AIDS

L	249-5516	**HEATER, ENGINE COOLANT, 120V**	3	$245
		Engine coolant heater for 120 volt external power source. REQUIRED BY: SNOW ARRANGEMENT		

WORK TOOLS

WORK TOOLS

L	360-5074	**MOUNT, MID-MOUNT SCARIFIER**	131	$1,520
		FOR USE IN LANE 3 ONLY Brackets welded to front frame for future installation of midmount scarifier. INCLUDED IN: SCARIFIER, MID-MOUNT V-TYPE NOTE: This is the mounting only and does not include the scarifier. RECOMMENDED: Hydraulics with a mid-mount scarifier (MMS) function NOTE: If you intend to purchase the mid-mounted scarifier, please note that the actual scarifier cannot be attached to the machine at same time as the Lift Group, Hydraulic, Front		
L	367-6880	**COUNTERWEIGHT**	885	$3,200
		Front mounted.Recommended when machine is not equipped with front or rear mounted work tool attachments to provide additional blade performance capability. NOTE:This cannot be used in conjunction with push plate, front lift work tools,or the 'installed' hydraulic front lift. It can be used with a not installed hydraulic front lift NOT RECOMMENDED FOR USE WITH: RIPPER-SCARIFIER, REAR CANNOT BE USED WITH: PUSH PLATE CANNOT BE USED WITH: LIFT GROUP, MANUAL, FRONT (Installed) CANNOT BE USED WITH: FRONT BLADE PACKAGE		
L	367-6842	**PUSH PLATE, COUNTERWEIGHT**	2,822	$5,640
		Front mounted. Recommended when machine is equipped with rear ripper/scarifier and other rear mounted attachments. NOTE: This cannot be used in conjunction with counterweight, any front lift work tools,or the 'installed' hydraulic front lift. It can be used with a not installed hydraulic front lift CANNOT BE USED WITH: COUNTERWEIGHT CANNOT BE USED WITH: LIFT GROUP, MANUAL, FRONT (Installed) CANNOT BE USED WITH: FRONT BLADE PACKAGE		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

WORK TOOLS (CONT.)

WORK TOOLS (Cont.)

L	312-2204	**LIFT GROUP, MANUAL, FRONT**	1,500 1,500	**$11,030** **$11,030 NI**

ALSO AVAILABLE ON A MISCELLANEOUS ORDER
Front hydraulic lift without any work tool attached.
Note: This Front Lift Group has manual locking pins.

INSTALLED COMPATIBILITY:
REQUIRES: MOUNTING, FRONT LIFT
REQUIRES: Hydraulics control part number that has front lift (FL) function
REQUIRED, to use Front Scarifiers
CANNOT BE USED WITH: PUSH PLATE
CANNOT BE USED WITH: COUNTERWEIGHT
CANNOT BE USED WITH: MID MOUNT SCARIFIER PACKAGE
CANNOT BE USED WITH: FRONT BLADE PACKAGE

(The Installed Manual Lift Group can be attached to the machine at the sametime as the mounting for the mid-mount scarifier, but not the actual scarifier itself).

NOTE: A Not-Installed Manual Lift Group can be ordered with an INSTALLED Push Plate or Counterweight. The not-installed lift group will be skidded, banded and shipped with the unit.

NOT INSTALLED COMPATIBILITY:
CANNOT BE USED WITH: FRONT BLADE PACKAGE
REQUIRES: MOUNTING, FRONT LIFT
REQUIRES: Hydraulics control part number that has front lift (FL) function.

L	359-3925	**LIFT GROUP, FRONT MOUNTING**	10	**$442**

Two mounting plates welded to both sides of the front frame for factory or future installation of Front Lift.
REQUIRED BY: LIFT GROUP, MANUAL, FRONT

L	387-8664	**LINES, RIPPER, ADDITIONAL**	8	**$426**

For use with rear mounted auxiliary functions. Provides two hydraulic hoses with one end bundled at the rear of the machine and the other end bundled at the rear valve bank in front of the cab.
REQUIRES: Ripper Function
FOR USE WITH: BASE + 1 (RIP)
FOR USE WITH: BASE + 2 (FL, RIP)
FOR USE WITH: BASE+3 (FL,DA1,RIP)
FOR USE WITH: BASE+4 (WM,WT-FLOAT,FL,RIP)
FOR USE WITH: BASE+4 (WM,WT,FL,RIP) NOFLT
FOR USE WITH: BASE+3 (FL,MMS,RIP)
FOR USE WITH: BASE+5 (WM,WT,DA1,FL,RIP)
FOR USE WITH: BASE+6 (WM,WT,DA1,DA2,FL,RIP)

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

GROUND ENGAGING TOOLS

GROUND ENGAGING TOOLS

P	8J-1434	**TOOTH, STRAIGHT**	67	**$805**
		Ripper tooth group for rear ripper. Includes one straight shank with ripper tooth. Recommended order quantity of 2 ONLY FOR USE WITH: RIPPER/SCARIFIER		
P	4K-3330	**SHANKS/TEETH, RIPPER/SCARIFIER**	152	**$1,404**
		Nine shanks for ripper and scarifier combination. Utilizes the scarifier shank positions on a ripper and scarifier combination. Will work with a midmount scarifier ONLY FOR USE WITH: RIPPER/SCARIFIER		

FIELD INSTALLED ATTACHMENTS

Please refer to the Caterpillar Work Tools Price List (WT-MG) for Motor Grader work tools.

Available Through Parts Distribution

Reference numbers below are kits used to upgrade existing motor with new features or technology

463-6258 **KIT, JOYSTICK,ADVANCED CONTROL**
Improves operational efficiency when utilizing ACCUGRADE or GRADE CONTROL X SLOPE.
Estimated install Hours: 2.5
Special Instructions: REHS8847

442-8145 **KIT, ACCUMULATOR, BLADE LIFT**
Provides hydraulic lines for base functions and accumulators for the blade lift. Allows approximately 1-3" of vertical blade travel to reduce impact loads. Nitrogen/oil accumulators activated by electric switch.
Estimated install Hours: 8
Special Instructions: REHS4230

466-5233 **KIT, EXTENSIONS, MIRROR HEATED**
9" extension from Current Mirror, adds 2 additional mirrors 1 for front visability and 1 rear visability. Heated to keep free of ice and snow in cold weather
Estimated install Hours: 2

466-5255 **KIT, EXTENSIONS, MIRROR STD**
9" extension from Current Mirror, adds 2 additional mirrors, 1 for front visability and 1 rear visability
Estimated install Hours: 2

524-8603 **KIT,LEFT HAND BLADE EXTENSION**
24" x 24" x 7/8" - Left Hand Blade Extension Kit for use with 12 ft. and 14 ft. Basic Moldboards.
Estimated install Hours: 1.5

524-8604 **KIT,LEFT HAND BLADE EXTENSION**
24" x 27" x 1" - Left Hand Blade Extension Kit for use with 14 ft. Plus Moldboard.
Estimated install Hours: 1.5

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

FIELD INSTALLED ATTACHMENTS (CONT.)

Available Through Parts Distribution (Cont.)

524-8605 **EXTENSION, BLADE, 24" RH**
24" x 24" x 7/8" - Right Hand Blade Extension Kit for use with
12 ft. and 14 ft. Basic Moldboards.
Estimated install Hours: 1.5

524-8606 **EXTENSION, BLADE, 24" RH**
24" x 27" x 1" - Right Hand Blade Extension Kit for use with
14 ft. Plus Moldboard.
Estimated install Hours: 1.5

524-8607 **KIT, SPARE RIM**
14" x 25" MP Spare Rim
Estimated install Hours: 0.5

524-8608 **KIT, SPARE RIM**
14" x 25" AWD MP Spare Rim - for use on front of AWD Machine
Estimated install Hours: 0.5

524-8609 **KIT, SPARE RIM**
10" x 24" MP Spare Rim
Estimated install Hours: 0.5

524-8610 **KIT, SPARE RIM**
10" x 24" AWD MP Spare Rim - for use on front of AWD Machine
Estimated install Hours: 0.5

488-2192 **KIT, CIRCLE SAVER**
Circle Saver
Estimated install Hours: 0.5
Special Instructions: REHS4230

434-1068 **KIT, FENDERS, FRONT**
12/140/160M3 AWD Front Fender Kit

434-1065 **KIT, FENDERS, REAR**
12M3 & 140M3 Rear Fender Kit

380-3889 **KIT, HEATED GLASS, RH DOOR**
Right Hand Heated Door Glass
Special Instructions: REHS7154

380-3885 **KIT, HEATED GLASS,WIDE FRONT**
Wide Front Heated Glass
Special Instructions: REHS7155

380-3886 **KIT, HEATED GLASS,NARROW FRONT**
Narrow Front Heated Glass
Special Instructions: REHS7155

473-5233 **KIT, STORAGE, CAB**
12/140/160M3 Cab Storage Kit

PACKING

EXPORT PACKING

0P-2265 **ROLL ON-ROLL OFF** . . . . . 0 **$304 NET**
Machine is driveable with nothing removed.
For sound testing purposes, European units with
European arrangements must be ordered in Ro-Ro Configuration.
(Cab or canopy remains mounted.)
REQUIRED BY: EUROPEAN ARRANGEMENT
REQUIRED BY: EUROPEAN AR. W/ ROADING (TUV)

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

PACKING (CONT.)

EXPORT PACKING (Cont.)

0P-2962 **SHIPPING TIRE FREIGHT OPTION** . . . . . 0 **NC**
This 0P is required when the machine is ordered with the Shipping Tire
This insures the correct trailer is used for shipment preventing
This is informational only and there is no additional charge.
REQUIRED BY: TIRES, 17.5 SHIPPING, AWD, MP
REQUIRED BY: TIRES, 14.0 SHIPPING, AWD, MP

ATTACHMENT PACKING

0P-6706 **BUNDLE EXPORT PACKING** . . . . . 0 **NC**
This 0P should be ordered for all miscellaneous orders.

SPECIAL INSTRUCTIONS

EXPOSITION MACHINE

0P-2949 **EXPOSITION INSTRUCTION** . . . . . 0 **NC**
This special instruction must be selected whenever dealer is placing an order for a unit intended for use at expositions and/or trade fairs.

12M3 AWD MOTOR GRADER
LITTLE ROCK, AR, USA (SAP)

Ship Weight lbs	LIST PRICE AT DEALER

Standard Equipment:

POWERTRAIN

Air cleaner, dual stage dry type radial seal with service indicator and automatic dust ejector
Air-to-air after cooler (ATAAC)
Belt, serpentine, automatic tensioner
Brakes, oil disc, four-wheel, hydraulic
Demand fan, hydraulic
Differential, lock/unlock, Automatic
Drain, engine oil, ecology
Electronic over-speed protection
Parking brake, multi-disc, sealed and oil cooled.
Sediment drain, fuel tank.
Tandem drive
Transmission, 8 speed forward and 6 speed reverse, power shift, direct drive
VHP Plus (Variable Horse Power Plus)

ELECTRICAL

Alarm, back-up
Alternator, 150 ampere, sealed
Batteries, maintenance free, heavy duty, 1125 CCA
Breaker panel, ground accessible
Electrical hydraulic valves
Electrical system, 24V
Grade control Ready (cab harness, software, electrical hydraulic valves, bosses and brackets)
Lights, reversing
Lights, roading, roof-mounted
Lights, stop and tail, LED
Starter, electric

OPERATOR ENVIRONMENT

Air conditioning with heater
Articulation, automatic return to center
Centershift pin indicator
Display, digital speed and gear
Doors, left and right side with wiper
Gauge, machine level
Gauges (analog) inside the cab (includes fuel, articulation, engine coolant temp, engine RPM, and hydraulic oil temp, DEF/AdBlue)
Joystick, adjustable armrests
Joystick gear selection, hydraulic power steering hydraulic controls (right/left, blade lift w/ float position, blade sideshift and tip, circle drive, centershift, front wheel lean and articulation and steering)
Lights, night time cab
Messenger operator information system
Meter, hour, digital
Mirror, inside rearview, wide angle
Power port, 12V
Radio ready, entertainment
ROPS cab, sound suppressed
- 69dB(A) - ISO 6394
Seat,cloth-covered, comfort suspension
Storage area for cooler/lunchbox
Throttle control, electronic
Windows laminated glass:
-Fixed front with intermittent wiper
-Door with intermittent wipers (3)
Windows tempered:
-Left and right side wipers
-Rear with intermittent wiper
Cab storage

SAFETY AND SECURITY

Clutch, circle drive slip
Doors, 2 engine compartment, (two left hand, two right hand) locking
Doors, 2 service, left and right locking
Ground level engine shutdown
Hammer (emergency exit)
Horn, electric
Lockout, hydraulic implement (for roading and servicing)
Seat belt, retractable 76.2mm (3")
Secondary steering
Tandem walkway/guards

TIRES, RIMS, AND WHEELS

A partial allowance for tires on 254mm x 609.6mm (10" x 24") multi-piece rims is included in the base machine price and weight.

FLUIDS

Antifreeze
Extended life coolant -35C/-30F

OTHER STANDARD EQUIPMENT

Accumulators -brake -dual certified
Drawbar,6 shoe w/replaceable wear strips
Fluid check, ground level
Fuel tank, 398 liters (105 gallon)
Ground level fueling
DEF/AdBlue tank, 21 liters (5.5 gallon)
Hydraulic lines for base functions
Pump, hydrailic, high capacity (98cc / 15 cu in)
Radiator, cleanout access (both sides with swing doors)
SOS ports - engine -hydraulic

12M3 AWD MOTOR GRADER
LITTLE ROCK, AR, USA (SAP)

	Ship Weight lbs	LIST PRICE AT DEALER

OTHER STANDARD EQUIPMENT (CONT.)

-transmission -coolant -fuel
Tandem walkway/guards
Tool box
Debris guard

12M3 AWD MOTOR GRADER
LITTLE ROCK, AR, USA (SAP)

	Ship Weight lbs	LIST PRICE AT DEALER

Lane 2 is reserved for the Base Order Management Program.
Please use Lane 2 when placing orders that are part of the Base Order Management Program.

12M3 AWD MOTOR GRADER LITTLE ROCK, AR, USA (SAP)		Ship Weight lbs	LIST PRICE AT DEALER
384-9678	**12M3 AWD MOTOR GRADER**	39,334	**$400,820**
	LANE 2 - AVAILABLE FROM NORTH LITTLE ROCK FACTORY LANE 3 - AVAILABLE FROM NORTH LITTLE ROCK FACTORY		
0P-2973	**12M3 AWD MISC MATERIAL NLR**	0	**NC**
	AVAILABLE FROM NORTH LITTLE ROCK FACTORY		

Only reference numbers that have the text
"ALSO AVAILABLE ON A MISCELLANOUS ORDER" can be used on a MISC order.

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

LANE SELECTION

	0P-9002	**LANE 2 ORDER**	0	NC
		Only for dealers enrolled in the Base Orders Management (BOM) program.		
	0P-9003	**LANE 3 ORDER**	0	NC

REGIONAL PACKAGES

L	385-9294	**GLOBAL ARRANGEMENT**	0	NC
		Provides standard brake accumulators. For use in temperatures above -18C		
		CANNOT BE USED WITH: WEATHER, COLD PLUS		
L	385-9297	**GLOBAL ARRANGEMENT,LOW AMBIENT**	0	NC
		Provides brake accumulators for low ambient temperatures below -18C		
		CANNOT BE USED WITH: EU dealers		
		CANNOT BE USED WITH: WEATHER, STANDARD		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

PERFORMANCE PACKAGES

MOLDBOARDS

L	349-3046	**MOLDBOARD, 12'**	0	NC
		INCLUDES: - Moldboard 12' x 24" x 7/8" (3658mm x 610mm x 22mm) - Curved Cutting Edge, 6" X 5/8" (152mm x 16mm) - End Bits, Standard, Without Overlay		
L	349-3047	**MOLDBOARD, 14' BASIC**	347	$1,140
		INCLUDES: - Moldboard 14' x 24" x 7/8" (4267mm x 610mm x 22mm) - Curved Cutting Edge, 8" x 3/4" (203mm x 19mm) - End Bits, Standard, Without Overlay		
L	349-3048	**MOLDBOARD, 14' PLUS**	650	$2,710
		INCLUDES: - Moldboard 14' x 27" x 1" (4267mm x 686mm x 25mm) - Curved Cutting Edge, 8" x 3/4" (203mm x 19mm) - End Bits, Standard, With Overlay		

WORK TOOLS

L	393-4882	**NO HITCH**	0	NC
L	337-7510	**HITCH, TOWING**	0	$540
L	324-0889	**RIPPER/SCARIFIER**	2,120 2,150	$20,380 $20,540 NI

NOTE
NOT INSTALLED option is only for use with Miscellaneous orders using 0P-2973 12M3 AWD MISC MATERIAL
Hydraulic, rear mounted ripper with three straight ripper shanks. Can accommodate two additional ripper shanks and nine scarifier teeth which must be ordered separately.
REQUIRES: A hydraulics control part number that has a ripper function.
INCLUDES: Ripper Mounting

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

PERFORMANCE PACKAGES (CONT.)

WEATHER PACKAGES

L 353-3330 STANDARD WEATHER AWD . . . . . 0 **NC**

Recommended for year around use when typical ambient temperature range is 0 degrees C (32 degrees F) to 43 degrees C (110 degrees F) and operating at altitude below 1220 m (4000 feet).
INCLUDES:
- Batteries, Heavy Duty - 1125 CCA
- Oil, Hydraulic, 10W

ONLY FOR USE WITH: GLOBAL ARRANGEMENT
EUROPEAN ARRANGEMENT
EUROPEAN AR. W/ ROADING (TUV)

L 394-4523 COLD WEATHER PACKAGE AWD 0 **$760**

Recommended for year around use when typical ambient temperature range is -18 degrees C (0 degrees F) to 43 degrees C (110 degrees F) and operating at altitude below 1220 m (4000 feet).
INCLUDES:
- Starting Aid, Ether
- Batteries, Extreme Duty -1400 CCA
- Oil, Hydraulic, 10W
- Cold Start arrangemnt

ONLY FOR USE WITH: GLOBAL ARRANGEMENT
GLOBAL ARRANGEMENT,LOW AMBIENT
CANADIAN ARRANGEMENT
EUROPEAN ARRANGEMENT
EUROPEAN AR. W/ ROADING (TUV)

L 394-4524 COLD WEATHER PLUS PACKAGE AWD 37 **$3,765**

Recommended for year around use when typical ambient temperature range is -40 degrees C (-40 degrees F) to 40 degrees C (104 degrees) or operating at altitude above 1220 m (4000 feet).
INCLUDES:
- Starting Aid, Ether
- Cold Start; Transmission oil and fan brake bypass
- Batteries, Extreme Duty -1400 CCA
- Oil, Hydraulic, Cold, 0W

REQUIRES:
HEATER, ENGINE COOLANT, 120V or HEATER, ENGINE COOLANT, 240V

ONLY FOR USE WITH: GLOBAL ARRANGEMENT,LOW AMBIENT
CANADIAN ARRANGEMENT
EUROPEAN ARRANGEMENT
EUROPEAN AR. W/ ROADING (TUV)

REQUIRED BY: SNOW ARRANGEMENT

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

PERFORMANCE PACKAGES (CONT.)

ACCUMULATORS

L	305-2927	**LINES,STANDARD W/O ACCUMULATOR**	0	NC
		Provides hydraulic lines for base functions		
L	358-9338	**ACCUMULATORS, BLADE LIFT**	170	$4,665
		Provides hydraulic lines for base functions and accumulators for the blade lift. Allows approximately 1-3" of vertical blade travel to reduce impact loads. Nitrogen/oil accumulators activated by electric switch. CANNOT BE USED WITH: Canadian Dealers.		

PRECLEANER

L	380-6774	**PRECLEANER, NON SY-KLONE**	0	NC
		Includes dust ejector for medium to heavy dust environments.		
L	380-6775	**PRECLEANER, SY-KLONE**	5	$750
		Recommended for environments with large degris (leaves, chips, large grass, etc.)		

POWERTRAIN

ENGINE

L	567-4685	**ENGINE, TIER IV**	0	NC
		EPA Tier 4 Final certified engine with aftertreatment Caterpillar C9 ACERT turbo charged diesel engine with automatic engine derate and idle control.		

OIL CHANGE

L	324-5328	**DRAIN, GRAVITY, ENGINE OIL**	0	NC
		Standard engine oil drain		
L	501-1163	**DRAIN, HIGH SPEED, ENGINE OIL**	0	$286
		High speed engine oil drain. Requires pump at service location to be attached to coupling receiver for high speed flow. HSO drain can also manual/gravity drain.		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS

NOTE: Optional Control Locations

Caterpillar offers many attachment hydraulic controls to operate work tools. Depending on which hydraulic part number is selected, the operating electro-hydraulic switches may include the auxiliary pod, mini-joystick located on the auxiliary pod, and/or the ripper control pod.

NOTE: Auxiliary controls that can have float

Auxiliary Pod Controls

```
INDEX = Index Finger (front lift)(float capability)
MID = Middle Finger(dozer angle 1)
RING = Ring Finger (dozer angle 2)
LITTLE= Little Finger (float capability)
```

NOTE: Mini-Joystick

```
 Fore/Aft
     .
    / \
     |
<--------->  Left/Right (float capability)
     |
    \ /
     .
```

NOTE: Ripper Control Pod

```
RH1   =  Front Lift (float capability)
RH2   =  Ripper-Scarifier Control
RHD   =  Ripper Handle Dual Switch (RH1 & RH2)
```

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

NOTE: Common Functions

COMMON FUNCTIONS:

Base = 8 functions: right and left blade lift, circle turn, drawbar center shift, blade side shift, blade tip, front wheel lean, frame articulation.

FL = Front Lift (moves front work tools up/down)
DA1 = Dozer Angle 1 (angles front blade left OR right)
DA2 = Dozer Angle 2 (angles front blade left AND right)
RIP = Rear Mounted Ripper (moves ripper up/down)
MMS = Mid-Mounted Scarifier
WM = Wing Mast
WT = Wing Tilt
Float = Built-in feature of valve section that opens both the work ports to tank. The external forces (weight of the work ports to tank. The external forces (weight of the implement) allows free movement of the implement.
Flow Rate=Provides maximum rate of fluid flow from the specific work port. B/A represents the maximum flow rate in Port B/Port A* in LPM (liters per minute).

*NOTE: Each valve section has two work ports (Port A and Port B).
Port A: Used to either raise implement or move implement to the right or for clockwise rotation of the implement.
Port B: Used to either lower implement or move implement to the left or for counter-clockwise rotation of the implement.

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

HYDRAULIC VALVE LOCATIONS

This illustration shows the factory installed switch location for each function by hydraulic part number.

Part Number	MINI-JOYSTICK Front Aft	MINI-JOYSTICK Left/ Right Float	MINI-JOYSTICK Index with Float	AUXILIARY POD Mid	AUXILIARY POD Ring	AUXILIARY POD Little	RIPPER POD RHD RH1	RIPPER POD RHD RH2
242-5056								
385-8094								RIPPER
Float:								N
Flow rate:								49/49
354-4113								MID-MOUNT SCARIFIER
Float:								Y
Flow Rate:								25/36
309-9848							FR.LIFT	
Float:							Y	
Flow Rate:							46/60	
385-8095							FR.LIFT	RIPPER
Float:							Y	N
Flow rate:							46/60	49/49
395-2008	MAST	TILT	FR.LIFT					
Float:	N	N	Y					
Flow rate:	72/72	41/30	46/60					
385-8096			FR.LIFT	DA1				RIPPER
Float:			Y	N				N
Flow rate:			46/60	72/72				49/49
385-8099	MAST	TILT	FR.LIFT					RIPPER
Float:	N	Y	Y					N
Flow rate:	72/72	74/86	46/60					49/49
385-8100	MAST	TILT	FR.LIFT					RIPPER
Float:	N	N	Y					N
Flow rate:	72/72	41/30	46/60					49/49
395-2009	MAST	TILT	FR.LIFT	DA1	MID-MOUNT SCARIFIER			
Float:	N	N	Y	N	N			
Flow rate:	72/72	41/30	46/60	72/72	25/36			

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

HYDRAULIC VALVE LOCATIONS LANE 3 ONLY

Part Number	MINI-JOYSTICK Front Aft	MINI-JOYSTICK Left/ Right Float	AUXILIARY POD Index with Float	AUXILIARY POD Mid	AUXILIARY POD Ring	AUXILIARY POD Little	RIPPER POD RH1	RIPPER POD RH2
385-8097			FR.LIFT	MID-MOUNT SCARIFIER				RIPPER
Float:			Y	N				N
Flow rate:			46/60	25/36				49/49
385-8101	MAST	TILT	FR.LIFT	DA1				RIPPER
Float:	N	N	Y	N				N
Flow rate:	72/72	41/30	46/60	72/72				49/49
385-8103	MAST	TILT	FR.LIFT	DA1	DA2			RIPPER
Float:	N	N	Y	N	N			N
Flow rate:	72/72	41/30	46/60	72/72	72/72			49/49
481-8610	MAST	TILT	FR.LIFT	DA1	DA2			RIPPER
Float:	N	Y	Y	N	N			N
Flow rate:	72/72	74/86	46/60	72/72	72/72			49/49

HYDRAULIC VALVE PART NUMBERS

L	242-5056	**HYDRAULICS, BASE** . . . . . 0 Base hydraulic system includes machine articulation, wheel lean, left and right blade lift with independent float, drawbar centershift, circle drive, blade sideshift and tip.		NC
L	385-8094	**BASE + 1 (RIP)**. . . . . 21 Ripper function. Includes the Ripper Lines. ONLY FOR USE WITH: RIPPER-SCARIFIER, REAR		$2,300
L	354-4113	**BASE + 1 (MMS)**. . . . . 21 FOR USE IN LANE 3 ONLY Mid-Mount Scarifier function. Includes the Mid-Mount Scarifier Lines. ONLY FOR USE WITH: MID MOUNT SCARIFIER PACKAGE		$2,300
L	309-9848	**BASE + 1 (FL)**. . . . . 18 FOR USE IN LANE 3 ONLY Front Lift function. Includes the Front Lift Lines. ONLY FOR USE WITH: LIFT GROUP, MANUAL, FRONT		$1,890
L	385-8095	**BASE + 2 (FL,RIP)** . . . . . 37 Ripper and Front Lift functions. Includes the Front Lift Lines and Ripper Lines. ONLY FOR USE WITH: LIFT GROUP, MANUAL, FRONT RIPPER-SCARIFIER, REAR		$4,085
L	395-2008	**BASE + 3 (WM,WT-NOFLOAT,FL)** . . . . . 60 Front Lift, Snow Wing Mast, and Snow Wing Tilt ONLY FOR USE WITH: SNOW ARRANGEMENT LIFT GROUP, MANUAL, FRONT		$6,540

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

HYDRAULIC VALVE PART NUMBERS (Cont.)

L	385-8096	**BASE + 3 (FL,DA1,RIP)**	67	$7,460
		FOR USE IN LANE 3 ONLY Ripper, Front Lift and Angle functions. Includes the Front Lift Lines Dozer Angle 1 Lines, and Ripper Lines. ONLY FOR USE WITH: LIFT GROUP, MANUAL, FRONT RIPPER-SCARIFIER, REAR		
L	385-8099	**BASE + 4 (WM,WT-FLOAT,FL,RIP)**	85	$8,960
		Ripper, Front Lift, Snow Wing Mast and Snow Wing Tilt (74/86 with float) functions. Includes the Front Lift Lines and Ripper Lines. ONLY FOR USE WITH: SNOW ARRANGEMENT LIFT GROUP, MANUAL, FRONT RIPPER-SCARIFIER, REAR		
L	385-8100	**BASE + 4 (WM,WT,FL,RIP) NOFLT**	85	$8,700
		FOR USE IN LANE 3 ONLY Ripper, Front Lift, Snow Wing Mast and Snow Wing Tilt (41/30 - No Float) functions. Includes the Front Lift Lines and Ripper Lines. ONLY FOR USE WITH: SNOW ARRANGEMENT LIFT GROUP, MANUAL, FRONT RIPPER-SCARIFIER, REAR		
L	395-2009	**BASE + 5 (WM,WT,DA1,FL,MMS)**	120	$10,790
		FOR USE IN LANE 3 ONLY Snow Wing Mast, Snow Wing Tilt (41/30 - No Float) functions, Dozer Angle 1, Front LIFT, and Mid-Mount Scarifier Includes the Front Lift Lines, Angle 1 Lines, and Mid-Mount Scarifier Lines. ONLY FOR USE WITH: SNOW ARRANGEMENT LIFT GROUP, MANUAL, FRONT MID MOUNT SCARIFIER PACKAGE		

HYDRAULIC VALVE PART NUMBERS LANE 3 ONLY

L	385-8097	**BASE+3 (RIP, MMS, FL)**	67	$7,460
		FOR USE WITH: Lane 3 only. Front Lift, Ripper and Mid-Mount Scarifier functions. Includes the Front Lift Lines, Ripper Lines and Mid-Mount Scarifier Lines. ONLY FOR USE WITH: LIFT GROUP, MANUAL, FRONT RIPPER-SCARIFIER, REAR MID MOUNT SCARIFIER PACKAGE		
L	385-8101	**BASE + 5 (WM,WT,DA1,FL,RIP)**	120	$10,790
		FOR USE WITH: Lane 3 only. Snow Wing Mast, Snow Wing Tilt (41/30 - No Float) functions, Dozer Angle 1, Front LIFT, and Ripper. Includes the Front Lift Lines, Angle 1 Lines, and Ripper Lines. ONLY FOR USE WITH: SNOW ARRANGEMENT MOUNT, SNOW WING, FRAME READY LIFT GROUP, MANUAL, FRONT RIPPER-SCARIFIER, REAR		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

HYDRAULIC VALVE PART NUMBERS (Cont.)

L	385-8103	**BASE + 6(WM,WT,DA1,DA2,FL,RIP)**	130	$13,350
		FOR USE WITH: Lane 3 only. Ripper, Dozer Angle 1, Dozer Angle 2, Front Lift, Snow Wing Mast and Snow Wing Tilt (41/30 - No Float) functions. Includes the Front Lift Lines, Dozer Angle 2 Lines and Ripper Lines. ONLY FOR USE WITH: SNOW ARRANGEMENT MOUNT, SNOW WING, FRAME READY LIFT GROUP, MANUAL, FRONT RIPPER-SCARIFIER, REAR		
L	481-8610	**BASE+6(WM,WT+F,DA1,DA2,FL,RIP)**	130	$13,620
		FOR USE WITH: Lane 3 only. Ripper, Dozer Angle 1, Dozer Angle 2, Front Lift, Snow Wing Mast and Snow Wing Tilt (72/72 + Float) functions. Includes the Front Lift Lines, Dozer Angle 2 Lines and Ripper Lines. ONLY FOR USE WITH: SNOW ARRANGEMENT MOUNT, SNOW WING, FRAME READY LIFT GROUP, MANUAL, FRONT RIPPER-SCARIFIER, REAR		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

STARTERS, BATTERIES, & ALTERNATORS

STARTER ARRANGMENT

L	394-3945	**STARTER, ELECTRIC, HEAVY DUTY**	0	NC
		Provides a 715 Amp. starter		
L	395-3547	**STARTER, ELEC, EXTREME DUTY**	21	$408
		Recommended for Cold weather applications		
		Provides a 1000 Amp. starter		

ELECTRICAL

REAR BRAKE LIGHTS

L	331-6793	**LIGHTS, BRAKE AND BACK-UP**	0	NC
		FOR USE IN LANE 3 ONLY		
		Provides stationary rear brake lights along with the back-up lights.		
		Does not include front headlights or turn signals		
		CANNOT BE USED WITH: 526-2563 EUROPEAN ARRANGEMENT		
		394-3871 EUROPEAN AR. W/ROADING (TUV)		
		308-9370 LIGHTS, FRONT HEADLIGHTS, LOW		
		308-9371 LIGHTS, FRONT HEADLIGHTS, HIGH		
		553-2588 HEADLIGHTS, FRONT, LOW, LED		
		553-2589 HEADLIGHTS, FRONT, HIGH, LED		
		396-1966 SNOW ARRANGEMENT		
L	536-9969	**LIGHTS, ARM, FOLD DOWN**	0	$1,875
		Provides stationary rear brake lights along with the back-up lights, dimmer switch for road lighting, drop-down stop, tail, and rear turn signals and back-up lights.		
		REQUIRES: FRONT HEADLIGHTS (High/Low)/(Halogen/LED)		
		INCLUDED IN: 396-1966 SNOW ARRANGEMENT		

ROADING LIGHTS

L	421-7810	**LIGHTS, ROADING, HALOGEN**	0	NC
		Provides six halogen cab roof mounted roading lights.		
		CANNOT BE USED WITH: HEADLIGHTS, FRONT, LOW, LED		
		HEADLIGHTS, FRONT, HIGH, LED		
L	550-6608	**LIGHTS, ROADING, LED**	0	$1,245
		Provides six LED cab roof mounted roading lights.		
		CANNOT BE USED WITH: HEADLIGHTS,FRONT, LOW, HALOGEN		
		HEADLIGHTS,FRONT, HIGH,HALOGEN		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

OPERATOR ENVIRONMENT

CAB EXTERIOR

L	385-9553	**CAB, BASE (STANDARD GLASS)**	0	NC
		FOR USE IN LANE 3 ONLY INCLUDES: - 150 amp alternator - Standard Glass CANNOT BE USED WITH: SNOW ARRANGEMENT EUROPEAN ARRANGEMENT EUROPEAN AR. W/ ROADING (TUV)		
L	385-9554	**CAB, PLUS (STANDARD GLASS)**	35	$1,105
		INCLUDES: - 150 amp alternator - Wiper/washer, rear - Standard Glass		
L	385-9555	**CAB, PLUS (ANTI-ICING GLASS)**	35	$6,630
		FOR USE IN LANE 3 ONLY INCLUDES: - 270 amp alternator - Wiper/washer, rear - Front glass and RH door glass are heated.		

CAB INTERIOR

L	397-7456	**CAB, BASE (INTERIOR)**	0	NC
		INCLUDES: - Seat, mechanical suspension, cloth - Shade, Sun CANNOT BE USED WITH: SNOW ARRANGEMENT EUROPEAN ARRANGEMENT EUROPEAN AR. W/ ROADING (TUV)		
L	397-7457	**CAB, PLUS (INTERIOR)**	45	$3,010
		INCLUDES: - Seat, air suspension, cloth - Radio,12V, AM/FM, Weatherband, Bluetooth, USB, Aux Input Available to countries with bluetooth certification. Please contact your Cat marketing representative if you have questions. - Fan, defroster, rear window - Converter, Communication (CB) - Shade, Sun		
L	397-7458	**CAB, PREMIUM (INTERIOR)**	80	$4,580
		- Seat, air suspension, cloth; Heated, Ventilated - Radio,12V, AM/FM CD/MP3 Bluetooth, Weatherband, USB, Aux Input XM/Sirius Satellite Available to countries with bluetooth certification. Please contact your Cat marketing representative if you have questions. - Fan, defroster, rear window - Converter, Communication (CB) - Shade, Sun *Recommended for Snow Removal		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

OPERATOR ENVIRONMENT (CONT.)

SEAT BELT

L	394-1492	**SEAT BELT**	0	NC
		Standard 3 inch seat belt		
L	394-1132	**SEAT BELT W/INDICATOR**	5	$193
		Standard 3 inch seat belt with indicator located on display panel		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

TECHNOLOGY PRODUCTS

PRODUCT LINK

Product Link enables the remote transmission of information about the location, operation, and condition of your equipment. Efficiently and effectively monitor the performance of your assets to help keep your jobs on schedule, maintain equipment condition, and reduce the costs of owning and operating your fleet. Availability varies by country - please reference https://Dealer.cat.com/PL/Certification for certified countries. Please contact your Caterpillar marketing representative with questions.

L	464-6804	**PRODUCT LINK, SATELLITE PLE631** . . . . . Product Link Elite series PLE631 uses a satellite network to transmit location, utilization and condition information for viewing in Product Link's remote monitoring web interface. For use in areas with poor or no cellular coverage.	29	**$432**
L	464-6442	**PRODUCT LINK, CELLULAR PLE641** . . . . . Product Link Elite series PLE641 offers expanded coverage including 3G UMTS and CDMA2000 as well as 2G GSM and CDMA cellular networks to transmit location, utilization and condition information f viewing in Product Link-s remote monitoring web interface. Cellular technology provides capabilities for frequent transmission and larger volumes of data.	29	**NC**

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

TECHNOLOGY PRODUCTS (CONT.)

ACCUGRADE

L	362-5222	**NO ACCUGRADE**	0	NC
L	462-7930	**INSTALLATION, ACCUGRADE READY** Allows the Motor Grader to be equipped with either a Cross Slope, Sonic, Laser, GPS, or ATS electronics kit. Provides software, harnesses for sensors, mounting for sensors and blade mast bracket.	90	$4,830

NOTE: Highly recommended to select Advanced Joystick Controls. This will Allow for complete configuration and control when using 3 party grade control systems

L	462-7931	**GRADE CONTROL X SLOPE** Allows the operator to manually control one end of the blade to match the curb or crown while automatically maintaining the desired slope of the blade. This system is used to maintain the crown of a gravel road or the shoulder of a road. Provides cab switches, software, harnesses for sensors, mounting for sensors and blade mast bracket. Accugrade Ready is included in this option REQUIRES: JOYSTICK CONTROLS, ADVANCED INCLUDED IN: 492-3595 CONTROLS, PERFORMANCE BUNDLE	165	$11,060

MOTOR GRADER CONTROLS

L	357-9151	**JOYSTICK CONTROLS, BASIC** Standard joystick controls.	6	NC
L	458-8701	**JOYSTICK CONTROLS, ADVANCED** Provides enhanced functionality while using ACCUGRADE READY or GRADE CONTROL X SLOPE INCLUDES: - Advanced Joysticks - Harness - Films REQUIRED BY: GRADE CONTROL X SLOPE. RECOMMENDED FOR USE WITH: ACCUGRADE READY INCLUDED IN: 492-3595 CONTROLS, PERFORMANCE BUNDLE	8	$2,030

CONTROL AUTO ARTICULATION

L	483-2354	**CONTROL,AUTO ARTICULATION-DEMO** 500 machine hour demo. Improves ease of operation, increases maneuverability and maximizes productivity by automatically matching articulation angle to steering angle. Includes 3 position rocker switch enabling 3 modes; off / forward / both forward and reverse.	0	NC
L	435-2072	**CONTROL,AUTO ARTICULATION-FULL** Improves ease of operation, increases maneuverability and maximizes productivity by automatically matching articulation angle to steering angle. Includes 3 position rocker switch enabling 3 modes; off / forward / both forward and reverse.	0	$1,810

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER
		FUEL SYSTEMS		
L	540-2373	**TANK, FUEL, STANDARD** . . . . . Standard Fuel 105 gallon (398 L)	0	NC
L	553-3677	**TANK, FUEL, FAST FILL** . . . . . Fuel tank is ready to accept fast fill 100 gpm nozzle. Tank capacity is 105 gallons (398 L)	0	$1,410
		COOLING		
		COOLING FAN		
L	542-4660	**FAN, STANDARD** . . . . . Provides a hydraulically driven demand fan	0	NC
L	542-4661	**FAN, REVERSING** . . . . . Provides a hydraulically driven demand fan that can reverse direction to prevent debris build up on the cooling package and engine enclosure. Includes automatic and manual controls for airflow reversal. Recommended for applications with a high content of airborne debris.	0	$3,105
		TIRES, RIMS, AND WHEELS		

Tires listed below include a set of six tires.
****To calculate tire loads with machine attachments, please reference the MG Tire Selection Pocket Guide (media #AEXQ0182), available on the Electronic Sales Library.**
All tire selections should be made with consideration for planned machine attachments (OEM and aftermarket) and their additional weight. Each tire has a maximum load rating that is not to be exceeded. The tire selection should be based on the maximum of all tire position loads on the machine. Assistance for calculating the highest tire load can be found in the Tire Load Worksheet in the back of the Caterpillar Motor Graders Tire Selection Pocket Guide. Failure to abide by the load ratings of the tires without first consulting the local tire supplier representative could result in nullification of the tire warranty.

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

TIRES, RIMS, AND WHEELS (CONT.)

Due to industry-wide tire availability limitations, tire brand and type cannot be guaranteed. Every effort will be made to satisfy your tire choice, but we reserve the right to change to alternate tires. If the tire brand cannot be supplied, the dealer will be contacted to propose alternative tire options. The dealer will need to respond with an alternative tire selection within 72 hours. If no response is provided by the supplier, the order will default to a comparable tire. As a consequence of a tire change the total machine price will be decreased or increased relative to the price of the new tire selection.

The information provided can be used to make a tire selection based on the particular conditions at the site. When available, the tire manufacturer should be consulted regarding proper tire selection.

APPLICATION SPECIFIC TIRES

L	515-5404	**TIRES,14.0R24 SOIL TRACTION MP**	0	$5,970
		Tire group received will be one of the tire groups listed below: - Bridgestone VKT 1* on 10" x 24" multi-piece rims. - Michelin XGLA2 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	515-5405	**TIRES,17.5R25 SOIL TRACTION MP**	0	$12,440
		Tire group received will be one of the tire groups listed below: - Bridgestone VKT 1* on 14" x 25" multi-piece rims. - Michelin XTLA 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		

Bridgestone

L	252-0722	**TIRES, 14.0R24 BS VUT * L2 MP**	991	$7,250
		Bridgestone VUT 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	249-7841	**TIRES, 17.5R25 BS VKT * D2A MP**	1,620	$13,440
		Bridgestone VKT 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	252-0716	**TIRES, 14.0R24 BS VKT * G2 MP**	1,519	$6,970
		Bridgestone VKT 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	252-0710	**TIRES, 14.0R24 BS VSW * G2 MP**	1,459	$13,320
		FOR USE IN LANE 3 ONLY Bridgestone VSW 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	310-7332	**TIRES, 17.5R25 BS VSW * G2 MP**	1,698	$18,590
		Bridgestone VSW 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

TIRES, RIMS, AND WHEELS (CONT.)

Michelin

L	252-0681	**TIRES,14.0R24 MX XGLA2 * G2 MP**	1,048	**$10,860**
		FOR USE IN LANE 3 ONLY Michelin XGLA2 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (7824 lbs) 3550 kg.**		
L	249-7845	**TIRES,14.0R24 MX XSNO+ * G2 MP**	1,261	**$14,890**
		Michelin XSNO 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (7824 lbs) 3550 kg.**		
L	252-0779	**TIRES,17.5R25 MX XSNO+ * G2 MP**	903	**$20,490**
		Michelin XSNO+ 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	252-0773	**TIRES, 17.5R25 MX XTLA * L2 MP**	268	**$16,110**
		Michelin XTLA 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		

GOODYEAR

L	310-7327	**TIRES, GY17.5R25* COMBO MP**	1,200	**$20,290**
		Goodyear RL2+ 6S on 14" x 25" multi-piece rims THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		

SHIPPING TIRES

L	440-3434	**TIRES, 17.5 SHIPPING, AWD, MP**	83	**$2,250**
		FOR USE WITH LANE 3 ONLY Shipping tire for use during shipment of machine only. Solid rubber band mounted on 14" x 25" multi-piece rims. Must be replaced with pneumatic tire before delivering to customer.		
L	448-5584	**TIRES, 14.0 SHIPPING, AWD, MP**	69	**$2,000**
		FOR USE WITH LANE 3 ONLY Shipping tire for use during shipment of machine only. Solid rubber band mounted on 10" x 24" multi-piece rims. Must be replaced with pneumatic tire before delivering to customer.		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER
		GUARDS		
		Guards		
L	323-6970	**GUARD GP, HITCH**	25	NC
		Standard bottom plate just rear of articulation hitch		
L	368-6239	**ARTICULATION GUARD.**	30	$1,260
		Provides protection for the articulation rods from snow, dirt and Highly recommended for snow removal applications, or below freezing CANNOT BE USED WITH : SOUND SUPRESSION (BOTTOM)		
		FLUIDS		
		ANTIFREEZE		
L	469-8157	**COOLANT, 50/50, -35C (-31F)**	0	NC
		Standard engine coolant		
L	469-8160	**COOLANT, 60/40, -51C (-60F)**	0	$245 NET
		Engine coolant recommended for extreme low temperatures		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

DOCUMENTATION

LANGUAGE SELECTION

NOTE: This part number will provide the language for Messenger and Statement of Conformity

L	**386-1254**	**LANGUAGE, ENGLISH**	0	**NC**

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

DOCUMENTATION (CONT.)

DECAL PACKAGES

NOTE: This part number will provide the films in ANSI or ISO
The word "WARNING" is on picto decals for ANSI.
Symbols only are on picto decals for ISO.

L	**442-9940**	**DECALS, ENGLISH (U.S.)** . . . . . 0 Provides decals as required by ANSI.		**NC**

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

FEATURE PACKAGES

REGIONAL OPTIONAL PACKAGES

L	396-1966	**SNOW ARRANGEMENT**	355	$6,460

INCLUDES:
- LIGHTS, ARM, FOLD DOWN
- MOUNTING, WARNING LIGHT
- TRANSMISSION, AUTOSHIFT

REQUIRES: MOUNT,SNOW WING,FRAME RDY HAL or LED
LIGHTS, WORKING, PLUS, HALOGEN or LED
HEADLIGHTS,FRONT, HIGH, (HALOGEN OR LED)
HEATER, ENGINE COOLANT, 120V or 240v
STARTER, ELEC, EXTREME DUTY or EXTRM DUTY(TUV)
WEATHER, COLD PLUS
CAB, PLUS (STANDARD GLASS) or (ANTI-ICING GLASS

WORK TOOL PACKAGES

L	358-9341	**MID MOUNT SCARIFIER PACKAGE**	2,076	$16,290

INCLUDES:
- Mid-mount Scarifier, V-Type with 11 Teeth
- MOUNT, MID-MOUNT SCARIFIER

CANNOT BE USED WITH: Any Front Lift group or
CANNOT BE USED WITH: FENDERS, FRONT, NON-AWD

WORK TOOL PACKAGES-SNOW WING MOUNT

L	390-9182	**MOUNT,SNOW WING,FRAME RDY HAL**	251	$2,295

FOR USE IN LANE 3 ONLY
INCLUDES:
- Snow Wing Mount
- Light, Halogen, Snow Wing, Right Hand

CANNOT BE USED WITH: ANY LED LIGHTING OPTION
REQUIRED BY: Snow Arrangement

L	551-6546	**MOUNT,SNOW WING,FRAME RDY LED**	0	$2,710

FOR USE IN LANE 3 ONLY
INCLUDES:
- Snow Wing Mount
- Light, LED Snow Wing, Right Hand

CANNOT BE USED WITH: ANY HALOGEN LIGHTING OPTION
REQUIRED BY: Snow Arrangement

WORKING LIGHTS PACKAGES.

CANNOT MIX HALOGEN AND LED LIGHT PACKAGES

L	395-1966	**LIGHTS, WORKING, BASIC,HALOGEN**	19	$770

FOR USE IN LANE 3 ONLY
INCLUDES:
- Lights, Work, Heel 3X3
- Lights, Work, Midframe Toe 3X3
- Switch, Work Lighting

CANNOT BE USED WITH: Snow Arrangement

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

FEATURE PACKAGES (CONT.)

WORKING LIGHTS PACKAGES. (Cont.)

L	395-1967	**LIGHTS, WORKING, PLUS, HALOGEN**	22	$1,035
		INCLUDES: - Lights, halogen, ripper 3X3 - Lights, halogen, work, heel 3X3 - Lights, halogen, work, midframe toe 3X3 - Switch, Work Lighting CANNOT BE USED WITH: ANY LED LIGHTING OPTION REQUIRED BY: Snow Arrangement		
L	552-7285	**LIGHTS, WORKING, PLUS, LED**	0	$2,590
		INCLUDES: - Lights, LED, ripper 3X3 - Lights, LED, work, heel 3X3 - Lights, LED, work, midframe toe 3X3 - Switch, work lighting CANNOT BE USED WITH: ANY HALOGEN LIGHTING OPTION REQUIRED BY: Snow Arrangement		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

FEATURE PACKAGES (CONT.)

OTHER OPTIONAL ATTACHMENTS

L	338-1132	**LIGHT, LED WARNING STROBE**	5	$605 NI
		Amber high-speed strobe beacon. REQUIRES: MOUNTING, WARNING LIGHT		
L	361-3137	**MOUNTING, WARNING LIGHT**	10	$725
		Provides the bracket for warning beacon light INCLUDED IN: SNOW ARRANGEMENT		
L	396-3515	**TRANSMISSION, AUTOSHIFT**	5	$3,205
		Improves ease of operation and maximizes productivity by automatically shifting the transmission at optimal shift points. REQUIRED BY: EUROPEAN ARRANGEMENT INCLUDED IN: SNOW ARRANGEMENT		
L	380-3070	**LIGHTS, SERVICE, INTERNAL**	5	$193
		Provides two lights operated by a single manual switch located in the rear enclosure. One light illuminates the engine compartment and the second light illuminates the hydraulic level sight gauge.		

ELECTRICAL

FRONT HEADLIGHTS

L	308-9370	**HEADLIGHTS,FRONT, LOW, HALOGEN**	0	$640
		Provides LOW bar HALOGEN headlights with front turn signals. CANNOT BE USED WITH: 396-1966 SNOW ARRANGEMENT ANY LED LIGHTING OPTION REQUIRED BY: 526-2563 EUROPEAN ARRANGEMENT 394-3871 EUROPEAN AR. W/ROADING (TUV) 536-9969 LIGHTS, ARM, FOLD DOWN		
L	553-2588	**HEADLIGHTS, FRONT, LOW, LED**	0	$1,365
		Provides LOW bar LED headlights with front turn signals. CANNOT BE USED WITH: 396-1966 SNOW ARRANGEMENT ANY HALOGEN LIGHTING OPTION REQUIRED BY: 536-9969 LIGHTS, ARM, FOLD DOWN 526-2563 EUROPEAN ARRANGEMENT 394-3871 EUROPEAN AR. W/ROADING (TUV)		
L	308-9371	**HEADLIGHTS,FRONT, HIGH,HALOGEN**	0	$640
		Provides HIGH bar HALOGEN headlights with front turn signals. CANNOT BE USED WITH: ANY LED LIGHTING OPTION REQUIRED BY: 526-2563 EUROPEAN ARRANGEMENT 394-3871 EUROPEAN AR. W/ROADING (TUV) 536-9969 LIGHTS, ARM, FOLD DOWN 396-1966 SNOW ARRANGEMENT		
L	553-2589	**HEADLIGHTS, FRONT, HIGH, LED**	0	$1,365
		Provides HIGH bar LED headlights with front turn signals. CANNOT BE USED WITH: ANY HALOGEN LIGHTING OPTION REQUIRED BY: 536-9969 LIGHTS, ARM, FOLD DOWN 396-1966 SNOW ARRANGEMENT 526-2563 EUROPEAN ARRANGEMENT 394-3871 EUROPEAN AR. W/ROADING (TUV)		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

OPERATOR ENVIRONMENT

CAMERA

L	396-3921	**CAMERA, REAR VISION**	15	$2,535
		Provides a 115 degree color camera mounted on the rear of the hood that is connected to a 7 inch (178mm) LCD color display mounted in the cab which shows the view behind the machine. CAN NOT BE USED WITH: EUROPEAN AR. W/ ROADING (TUV) NOTE* EUROPEAN AR. W/ ROADING (TUV) includes front and rear facing cameras		

MIRRORS

L	233-3295	**MIRRORS, OUTSIDE MOUNTED**	32	$495
		Provides two convex mirrors for outside mounting on the left and right cab grab irons. NOTE: The mirrors are wrapped in bubble wrap and rotated toward the doors for protection during shipment.		
L	344-0984	**MIRRORS, OUTSIDE HEATED 24V**	33	$670
		Provides mirrors with a 24V heating element to keep mirrors ice free in cold weather operations. NOTE: The mirrors are wrapped in bubble wrap and rotated toward the doors for protection during shipment.		

TECHNOLOGY PRODUCTS

TECHNOLOGY PRODUCTS

L	393-6335	**SECURITY SYSTEM, MACHINE**	10	$720
		FOR USE IN LANE 3 ONLY Provides a programmable system to manage access to the machine using special MSS keys. Deters theft, vandalism, and unauthorized use. Programmable features allow the following: * limits operators to selected machines * controls the days and hours equipment may be started * controls access by untrained operators or personnel		
L	458-2072	**STABLE BLADE**	3	$2,470
		Provides sensor and software to automatically reduce engine speed in various applications to reduce machine bounce and scalloping of surface.		
L	492-3595	**CONTROLS, PERFORMANCE BUNDLE**	176	$15,560
		The Auto Articulation in this bundle is an unrestricted version, not limited to 500 hours. INCLUDES: 435-2072 CONTROL,AUTO ARTICULATION-FULL 458-2072 STABLE BLADE 458-8701 JOYSTICK CONTROLS, ADVANCED 462-7931 GRADE CONTROL X SLOPE		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER
GUARDS				
L	367-6905	**GUARD, AXLE HOSE**	15	$1,075
		FOR USE IN LANE 3 ONLY Provides additional protection to the front axle cylinders, lines, and fittings. NOTE: NOT recommended for use with tire chains		
L	366-2459	**GUARD, TRANSMISSION**	310	$3,400
		Provides a steel guard to protect the transmission from ground debris. REQUIRED BY: SOUND SUPRESSION (BOTTOM) INCLUDED IN: EUROPEAN ARRANGEMENT EUROPEAN AR. W/ ROADING (TUV)		
L	377-1602	**SOUND SUPPRESSION (BOTTOM)**	243	$2,095
		Provides two metallic side panels on either side of the transmission guard, enclosing the rear of the machine. This option prevents debris from accumulating on top of the transmission guard and also suppresses sound to meet EU sound regulations. REQUIRES: GUARD, TRANSMISSION REQUIRES: GUARD GP, HITCH INCLUDED IN: EUROPEAN ARRANGEMENT INCLUDED IN: EUROPEAN AR. W/ ROADING (TUV) CANNOT BE USED WITH: ARTICULATION GUARD		
L	546-0262	**SOUND SUPPRESSION, ENGINE ENCL**	0	$1,540
		FOR USE WITH LANE 3 ONLY Suppression panels in engine enclosure doors. INCLUDED IN: EUROPEAN ARRANGEMENT EUROPEAN AR. W/ ROADING		
L	449-7700	**FENDERS, FRONT**	0	$3,795
		Non-metallic front fenders aid in reducing the build-up of mud, snow, or debris. Front fenders are compatible with all Non-AWD tire sizes offered by the factory. ** NOT RECOMMENDED FOR USE WITH TIRE CHAINS. CANNOT BE USED WITH: MID MOUNT SCARIFIER PACKAGE CANNOT BE USED WITH: GUARD, AXLE HOSE		
L	568-3669	**FENDERS, REAR**	0	$5,030
		Provides non-metallic rear fenders to aid in reducing the build-up of mud, snow, or debris. Rear fenders are compatible with all MG tire sizes offered by the factory. INCLUDED IN: EUROPEAN AR. W/ ROADING (TUV) ** NOT RECOMMENDED FOR USE WITH TIRE CHAINS.		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

OTHER ATTACHMENTS

STARTING AIDS

L	249-5516	**HEATER, ENGINE COOLANT, 120V**	3	$245
		Engine coolant heater for 120 volt external power source. REQUIRED BY: SNOW ARRANGEMENT		

CIRCLE DRIVE INJECTOR GREASE

L	521-3250	**KIT, CIRCLE SAVER**	0	$238
		Remote Circle Drive Greasing point (Zerk). Located top of drawbar for easy servicing of circle drive gear. Helps the pinion maintain its lubrication caused by lack of grease in this component.		

WORK TOOLS

WORK TOOLS

L	360-5074	**MOUNT, MID-MOUNT SCARIFIER**	131	$1,520
		FOR USE IN LANE 3 ONLY Brackets welded to front frame for future installation of midmount scarifier. INCLUDED IN: SCARIFIER, MID-MOUNT V-TYPE NOTE: This is the mounting only and does not include the scarifier. RECOMMENDED: Hydraulics with a mid-mount scarifier (MMS) function NOTE: If you intend to purchase the mid-mounted scarifier, please note that the actual scarifier cannot be attached to the machine at same time as the Lift Group, Hydraulic, Front		
L	367-6880	**COUNTERWEIGHT**	885 0	$3,200 $3,200 NI
		NOTE NOT INSTALLED option is only for use with Miscellaneous orders using 0P-2973 12M3 AWD MISC MATERIAL Front mounted.Recommended when machine is not equipped with front or rear mounted work tool attachments to provide additional blade performance capability. NOTE:This cannot be used in conjunction with push plate, front lift work tools,or the 'installed' hydraulic front lift. It can be used with a not installed hydraulic front lift NOT RECOMMENDED FOR USE WITH: RIPPER-SCARIFIER, REAR CANNOT BE USED WITH: PUSH PLATE LIFT GROUP, MANUAL, FRONT (Installed)		
L	367-6842	**PUSH PLATE, COUNTERWEIGHT**	2,822 2,822	$5,640 $5,640 NI
		NOTE NOT INSTALLED option is only for use with Miscellaneous orders using 0P-2973 12M3 AWD MISC MATERIAL Front mounted. Recommended when machine is equipped with rear ripper/scarifier and other rear mounted attachments. NOTE: This cannot be used in conjunction with counterweight, any front lift work tools,or the 'installed' hydraulic front lift. It can be used with a not installed hydraulic front lift CANNOT BE USED WITH: COUNTERWEIGHT CANNOT BE USED WITH: LIFT GROUP, MANUAL, FRONT (Installed)		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

WORK TOOLS (CONT.)

WORK TOOLS (Cont.)

L	312-2204	**LIFT GROUP, MANUAL, FRONT**	1,500 1,500	**$11,030** **$11,030 NI**

Front hydraulic lift without any work tool attached.
Note: This Front Lift Group has manual locking pins.

INSTALLED COMPATIBILITY:
REQUIRES: MOUNTING, FRONT LIFT
Hydraulics control part number that hasfront lift (FL) function
REQUIRED BY: Front Scarifiers
CANNOT BE USED WITH: PUSH PLATE
COUNTERWEIGHT
MID MOUNT SCARIFIER PACKAGE

(The Installed Manual Lift Group can be attached to the machine at the sametime as the mounting for the mid-mount scarifier, but not the actual scarifier itself).

NOTE: A Not-Installed Manual Lift Group can be ordered with an INSTALLED Push Plate or Counterweight. The not-installed lift group will be skidded, banded and shipped with the unit.

NOT INSTALLED COMPATIBILITY:
REQUIRES: MOUNTING, FRONT LIFT
Hydraulics control part number that hasfront lift (FL) function

L	359-3925	**LIFT GROUP, FRONT MOUNTING**	10	**$442**

Two mounting plates welded to both sides of the front frame for factory or future installation of Front Lift.
REQUIRED BY: LIFT GROUP, MANUAL, FRONT

L	387-8664	**LINES, RIPPER, ADDITIONAL**	8	**$426**

For use with rear mounted auxiliary functions. Provides two hydraulic hoses with one end bundled at the rear of the machine and the other end bundled at the rear valve bank in front of the cab.
REQUIRES: Ripper Function
ONLY FOR USE WITH: BASE + 1 (RIP)
BASE + 2 (FL, RIP)
BASE+3 (FL,DA1,RIP)
BASE+4 (WM,WT-FLOAT,FL,RIP)
BASE+4 (WM,WT,FL,RIP) NOFLT
BASE+3 (FL,MMS,RIP)
BASE+5 (WM,WT,DA1,FL,RIP)
BASE+6 (WM,WT,DA1,DA2,FL,RIP)

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

GROUND ENGAGING TOOLS

GROUND ENGAGING TOOLS

P	**8J-1434**	**TOOTH, STRAIGHT**	67 67	**$805** **$805 NI**
		NOTE AVAIALABLE for use as NOT INSTALLED ONLY with Miscellaneous order for RIPPER-SCARIFIER, REAR using 0P-2973 12M3 AWD MISC MATERIAL Ripper tooth group for rear ripper. Includes one straight shank with ripper tooth. Recommended order quantity of 2 ONLY FOR USE WITH: RIPPER/SCARIFIER		
P	**4K-3330**	**SHANKS/TEETH, RIPPER/SCARIFIER**	152 152	**$1,404** **$1,404 NI**
		NOTE AVAIALABLE for use as NOT INSTALLED ONLY with Miscellaneous order for RIPPER-SCARIFIER, REAR using 0P-2973 12M3 AWD MISC MATERIAL Nine shanks for ripper and scarifier combination. Utilizes the scarifier shank positions on a ripper and scarifier combination. Will work with a midmount scarifier ONLY FOR USE WITH: RIPPER/SCARIFIER		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

FIELD INSTALLED ATTACHMENTS

Please refer to the Caterpillar Work Tools Price List (WT-MG) for Motor Grader work tools.

Available Through Parts Distribution

Reference numbers below are kits used to upgrade existing motor graders with new features or technology

463-6258 KIT, JOYSTICK,ADVANCED CONTROL
Improves operational efficiency when utilizing ACCUGRADE or GRADE CONTROL X SLOPE.
Estimated install Hours: 2.5
Special Instructions: REHS8847

442-8145 KIT, ACCUMULATOR, BLADE LIFT
Provides hydraulic lines for base functions and accumulators for the blade lift. Allows approximately 1-3" of vertical blade travel to reduce impact loads. Nitrogen/oil accumulators activated by electric switch.
Estimated install Hours: 8
Special Instructions: REHS4230

466-5233 KIT, EXTENSIONS, MIRROR HEATED
9" extension from Current Mirror, adds 2 additional mirrors 1 for front visibility and 1 rear visibility. Heated to keep free of ice and snow in cold weather
Estimated install Hours: 2

466-5255 KIT, EXTENSIONS, MIRROR STD
9" extension from Current Mirror, adds 2 additional mirrors, 1 for front visibility and 1 rear visibility
Estimated install Hours: 2

524-8603 KIT,LEFT HAND BLADE EXTENSION
24" x 24" x 7/8" - Left Hand Blade Extension Kit for use with 12 ft. and 14 ft. Basic Moldboards.
Estimated install Hours: 1.5

524-8604 KIT,LEFT HAND BLADE EXTENSION
24" x 27" x 1" - Left Hand Blade Extension Kit for use with 14 ft. Plus Moldboard.
Estimated install Hours: 1.5

524-8605 EXTENSION, BLADE, 24" RH
24" x 24" x 7/8" - Right Hand Blade Extension Kit for use with 12 ft. and 14 ft. Basic Moldboards.
Estimated install Hours: 1.5

524-8606 EXTENSION, BLADE, 24" RH
24" x 27" x 1" - Right Hand Blade Extension Kit for use with 14 ft. Plus Moldboard.
Estimated install Hours: 1.5

524-8607 KIT, SPARE RIM
14" x 25" AWD MP Spare Rim - for use on rear of AWD Machine
Estimated install Hours: 0.5

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

FIELD INSTALLED ATTACHMENTS (CONT.)

Available Through Parts Distribution (Cont.)

524-8608 **KIT, SPARE RIM**
14" x 25" AWD MP Spare Rim - for use on front of AWD Machine
Estimated install Hours: 0.5

524-8609 **KIT, SPARE RIM**
10" x 24" AWD MP Spare Rim - for use on rear of AWD Machine
Estimated install Hours: 0.5

524-8610 **KIT, SPARE RIM**
10" x 24" AWD MP Spare Rim - for use on front of AWD Machine
Estimated install Hours: 0.5

488-2192 **KIT, CIRCLE SAVER**
Circle Saver
Estimated install Hours: 0.5
Special Instructions: REHS4230

434-1068 **KIT, FENDERS, FRONT**
12/140/160M3 AWD Front Fender Kit

434-1065 **KIT, FENDERS, REAR**
12M3 & 140M3 Rear Fender Kit

380-3889 **KIT, HEATED GLASS, RH DOOR**
Right Hand Heated Door Glass
Special Instructions: REHS7154

380-3885 **KIT, HEATED GLASS,WIDE FRONT**
Wide Front Heated Glass
Special Instructions: REHS7155

380-3886 **KIT, HEATED GLASS,NARROW FRONT**
Narrow Front Heated Glass
Special Instructions: REHS7155

473-5233 **KIT, STORAGE, CAB**
12/140/160M3 Cab Storage Kit

PACKING

MACHINE PACKING (Must Select One)

0P-0251 **DOMESTIC TRUCK** . . . . . 0 **NC**

0P-6645 **BUNDLED, LESS TIRES** . . . . . 0 **$1,175 NET**
Ships less tires. Rims ship on a separate skid.

ATTACHMENT PACKING

0P-0210 **PACK, DOMESTIC TRUCK** . . . . . 0 **NC**
Use for miscellaneous material orders.

0P-1935 **BUNDLED FRONT LIFT GROUP** 0 **$1,175**
Required when ordering the Not Installed
Lift Group,Manual,Front
REQUIRED BY: LIFT GROUP, MANUAL, FRONT NI

14M3 MOTOR GRADER
LITTLE ROCK, AR, USA (SAP)

	Ship Weight lbs	LIST PRICE AT DEALER

Standard Equipment:

POWERTRAIN

Air cleaner, dual stage dry type radial seal with service indicator through messenger and automatic dust ejector
Air-to-air after cooler (ATAAC)
Brakes, oil disc, four-wheel, hydraulic
Demand fan, hydraulic
Differential, lock/unlock, auto
Drain, engine oil, ecology
Parking brake, multi-disc, sealed and oil cooled
Priming pump, fuel
Transmission, 8 speed forward and 6 speed reverse, power shift, direct drive

STARTERS, BATTERIES, & ALTERNATORS

Starter, heavy duty

ELECTRICAL

Alarm, back-up
Alternator, 150 ampere, sealed
Batteries, maintenance free, HD 1125 CCA
Electrical system, 24V
Grade control ready (cab harness, software, electrical hydraulic valves, bosses, and brackets)
Lights, reversing, LED
Lights, roading, roof-mounted
Lights, stop and tail, LED
Product link elite
Service lights, enclosure, rear, LED

OPERATOR ENVIRONMENT

Air Conditioning with heater
Display, digital speed and gear
Gauge, machine level
Gauges (analog) inside the cab (includes fuel, articulation, engine coolant temp, engine RPM, and hydraulic oil temp)
Joystick, power adjustable armrests
Joystick gear selection
Joystick hydraulic controls, (right/left blade lift with float position, blade sideshift and tip, circle drive, centershift, front wheel lean and articulation and steering)
Joystick hydraulic power steering
Ladders, cab, left and right side
Message operator information display, meter, hour, digital
Mirror, inside rearview, wide angle
Power Port, 12V
Radio Ready, Entertainment
ROPS cab
ISO 6394 (70% fan speed)
Throttle control, electronic
Windows laminated glass:
-Fixed front with intermittent wiper
-Side and rear wipers (3)

SAFETY AND SECURITY

Clutch, circle drive slip
Doors, 4, engine compartment, (two left hand, two right hand), locking
Ground level engine shutdown
Hammer (emergency exit)
Lockout, hydraulic implement (for roading)
Seat belt, retractable 76.2 (3")
Secondary steering
Tandem walkway w/guards

TIRES, RIMS, AND WHEELS

A partial allowance of 1600lbs for tires on 495.3mm x 635mm (19.5"x25") multi-piece rims is included in the base machine weight and price

OTHER STANDARD EQUIPMENT

CD ROM parts book
Doors, 3 service compartment, (one left hand, two right hand), locking
Drawbar, 6 shoe with replaceable wear strips
SOS ports, engine, hydraulic, transmission, coolant, fuel
Tool box
Fuel tank, 416 liters (110 gallon)
Radiator, cleanout access
Endbits, 16mm (5/8") DH-2 steel, 19mm (3/4") mounting bolts
Circle saver

14M3 MOTOR GRADER
LITTLE ROCK, AR, USA (SAP)

	Ship Weight lbs	LIST PRICE AT DEALER

Lane 2 is reserved for the Base Order Management program.
Please use Lane 2 when placing orders that are part of the Base Order Management program

386-5220	**14M3 MOTOR GRADER**	0	**$557,930**
	LANE 2 - AVAILABLE FROM NORTH LITTLE ROCK FACTORY LANE 3 - AVAILABLE FROM NORTH LITTLE ROCK FACTORY		
	ONLY FOR USE WITH: Tier IV or Stage V Engines AVAILABLE FOR: U.S. Dealers Canadian Dealers EU Dealers		
0P-2976	**14M3 MISC MATERIAL NLR**	0	**NC**
	AVAILABLE FROM NORTH LITTLE ROCK FACTORY		
	Only reference numbers that have the text "ALSO AVAILABLE ON A MISCELLANEOUS ORDER" can be used on a MISC order.		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

LANE SELECTION

	0P-9002	**LANE 2 ORDER**	0	NC
		Only for dealers enrolled in the Base Orders Management (BOM) program.		
	0P-9003	**LANE 3 ORDER**	0	NC

REGIONAL PACKAGES

L	420-4751	**GLOBAL ARRANGEMENT**	0	NC
		Provides standard accumulators for brakes.		
		CANNOT BE USED WITH: Australian/NZ Dealers		

PERFORMANCE PACKAGES

MOLDBOARDS

L	351-2597	**MOLDBOARD, 14 FT, PLUS**	0	NC
		INCLUDES:		
		- Moldboard 14' x 25" x 1" (4290mm x 631mm x 25mm)		
		- Curved Cutting Edge, 8" x 3/4" (203mm x 19mm)		
		- End Bits, standard, without overlay		
L	351-2598	**MOLDBOARD, 16 FT, PLUS**	444	$3,155
		INCLUDES:		
		- Moldboard 16' x 25" x 1" (4898mm x 640mm x 25mm)		
		- Curved Cutting Edge, 8" x 1" (213mm x 25mm)		
		- End Bits, standard, without overlay		

WORK TOOLS

L	521-9215	**HITCH, TOWING**	0	NC
L	521-9214	**RIPPER, REAR.**	0	$29,110
			0	$29,110 NI
		ALSO AVAILABLE ON A MISCELLANEOUS ORDER		
		NI (Not Installed) ONLY AVAILABLE AS MISC ORDER		
		Hydraulic, rear mounted ripper with three straight ripper shanks and teeth. Can accommodate up to four additional shanks which must be ordered separately found in optional attachments section.		
		INCLUDES: Ripper Mounting		
		REQUIRES: A hydraulics control part number that has a ripper function.		

WEATHER PACKAGES

L	424-5145	**WEATHER, STANDARD**	0	NC
		Recommended for year around use when typical ambient temperature range is 5C (41F) to 43C (110F)		
		and operating at altitude below 1220 m (4000 feet).		
		INCLUDES: Batteries, Heavy Duty - 1125 CCA		
		Oil, Hydraulic, 10W		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

PERFORMANCE PACKAGES (CONT.)

WEATHER PACKAGES (Cont.)

L	424-5146	**WEATHER, COLD PLUS**	0	$2,660

Recommended for year around use when typical ambient temperature range is -40C (-40F) to 40C (104F) or operating at altitude above 1220 m (4000 feet).
*Recommended for Snow Removal
INCLUDES: 452-8170 COVERS, SCREEN
Batteries, Extreme Duty, 1400 CCA
Cover, Hydraulic Oil Cooler
Oil, Hydraulic, Cold, 0W
REQUIRES: One of the options listed below:
498-8770 HEATER, ENGINE COOLANT, 120V
498-8769 HEATER, ENGINE COOLANT, 120V
488-9612 HEATER, ENGINE COOLANT, 240V
INCLUDED IN: 368-6557 SNOW ARRANGEMENT

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

PERFORMANCE PACKAGES (CONT.)

ACCUMULATORS

L	352-5814	**LINES,STANDARD W/O ACCUMULATOR**	0	NC
		Provides hydraulic lines for base functions.		
L	420-4775	**ACCUMULATORS, BLADE LIFT**	0	$4,690
		Provides hydraulic lines for base functions and accumulators for the blade lift. Allows approximately 1-3" of vertical blade travel to reduce impact loads. Nitrogen/oil accumulators activated by electric switch.		

HORN

L	370-8464	**HORN, ELECTRIC**	0	NC
		Provides an electrical horn that mounts on front frame.		
L	370-8465	**HORN, AIR**	15	$1,890
		FOR USE WITH LANE 3 ONLY Provides a self-sufficient air horn that mounts on the front frame. Provides 107 to 112 db (A) loudness at seven meters.		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

PERFORMANCE PACKAGES (CONT.)

ENGINE INTAKE PRECLEANER

L	368-2225	**PRECLEANER, NON SY-KLONE**	0	**NC**
		Includes dust ejector for medium to heavy dust environments.		
L	368-2226	**PRECLEANER, SY-KLONE**	0	**$865**
		FOR USE WITH LANE 3 ONLY For use in snow applications, especially when fine snow dust is common, NOT recommended for medium to heavy dust environments. ONLY FOR USE WITH: 386-5220 14M3 MOTOR GRADER		

DCM WEAR STRIPS

L	494-9364	**WEAR STRIPS, DCM, METALLIC**	0	**$1,310**
		Provides metallic wear strips for the circle for severe applications. Includes shim-able moldboard wear strip retention system. *Recommended for mining application		
L	498-1569	**WEAR STRIPS, DCM, NON-METALLIC**	0	**NC**
		Provides non-metallic wear strips for the circle as described in the standard equipment section. Includes set screw adjust on moldboard.		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

POWERTRAIN

ENGINE SELECTION

L	559-7101	**ENGINE, TIER IV, W/O COMP BRK**	0	**NC**
		EPA Tier 4 Final certified engine with aftertreatment, without compression brake. Caterpillar C13 ACERT turbo charged diesel engine with automatic engine derate and idle control. ONLY FOR USE WITH: 386-5220 14M3 MOTOR GRADER CANNOT BE USED WITH: EU DEALERS		
L	447-1077	**ENGINE, COMPRESSION BRAKE T4**	0	**$955**
		EPA Tier 4 Final certified engine with aftertreatment, with compression brake. Caterpillar C13 ACERT turbo charged diesel engine with automatic engine derate and idle control. ONLY FOR USE WITH: 386-5220 14M3 MOTOR GRADER CANNOT BE USED WITH: EU DEALERS		

OIL CHANGE

L	368-2217	**DRAIN, GRAVITY, ENGINE OIL**	0	**NC**
		Standard engine oil drain		
L	501-1165	**DRAIN, HIGH SPEED, ENGINE OIL**	0	**$286**
		High speed engine oil drain. Requires pump at service location to be attached to coupling receiver for high speed flow. HSO drain can also manual/gravity drain.		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS

NOTE: Optional Control Locations

Caterpillar offers many attachment hydraulic controls to operate work tools. Depending on which hydraulic part number is selected, the operating electro-hydraulic switches may include the auxiliary pod, mini-joystick located on the auxiliary pod, and/or the ripper control pod.

NOTE: Auxiliary Pod controls

```
INDEX =  Index Finger (front lift)(float capability)
MID   =  Middle Finger(dozer angle 1)
RING  =  Ring Finger (dozer angle 2)
LITTLE=  Little Finger (float capability)
```

NOTE: Mini-Joystick

```
 Fore/Aft
     .
    / \
     |
<--------->  Left/Right (float capability)
     |
    \ /
     .
```

NOTE: Ripper Control Pod

```
RH1   =  Front Lift (float capability)
RH2   =  Ripper-Scarifier Control
RHD   =  Ripper Handle Dual Switch (RH1 & RH2)
```

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

NOTE: Common Functions

COMMON FUNCTIONS:

Base = 8 functions: right and left blade lift, circle turn, drawbar center shift, blade side shift, blade tip, front wheel lean, frame articulation.

```
     FL      = Front Lift (moves front work tools up/down)
     DA1     = Dozer Angle 1 (angles front blade left OR right)
     DA2     = Dozer Angle 2 (angles front blade left AND right)
     RIP     = Rear Mounted Ripper (moves ripper up/down)
     MMS     = Mid-Mounted Scarifier
     WM      = Wing Mast
     WT      = Wing Tilt
     Float   = Built-in feature of valve section that opens both the
               work ports to tank.  The external forces (weight of the
               implement) allows free movement of the implement.
     Flow Rate=Provides maximum rate of fluid flow from the specific
               work port.  B/A represents the maximum flow rate in
               Port B/Port A* in LPM (liters per minute).
*NOTE: Each valve section has two work ports (Port A and Port B).
    Port A:  Used to either raise implement or move implement to the
             right or for clockwise rotation of the implement.
    Port B:  Used to either lower implement or move implement to the
             left or for counter-clockwise rotation of the implement.
```

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

HYDRAULIC VALVE LOCATIONS

This illustration shows the factory installed switch location for each function by hydraulic part number.

Part Number	MINI-JOYSTICK Front Aft	MINI-JOYSTICK Left/ Right Float	AUXILIARY POD Index with Float	AUXILIARY POD Mid	AUXILIARY POD Ring	AUXILIARY POD Little	RIPPER POD RH1	RIPPER POD RH2
424-5154								
Float:								RIPPER N
Flow rate:								72/72
424-5155								
FOR USE WITH LANE 3 ONLY								
			FR.LIFT	DA1				RIPPER
Float:			N	N				N
Flow rate:			46/60	72/72				72/72
424-5157								
FOR USE WITH LANE 3 ONLY								
	MAST	TILT	FR.LIFT					RIPPER
Float:	N	Y	N					N
Flow rate:	72/72	74/86	46/60					72/72
424-5160								
FOR USE WITH LANE 3 ONLY								
	MAST	TILT	FR.LIFT	DA1				RIPPER
Float:	N	Y	N	N				N
Flow rate:	72/72	74/86	46/60	72/72				72/72
424-5161								
FOR USE WITH LANE 3 ONLY								
	MAST	TILT	FR.LIFT	DA1	DA2			RIPPER
Float:	N	Y	N	N	N			N
Flow rate:	72/72	74/86	46/60	72/72	72/72			72/72

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

HYDRAULIC CONFIGURATIONS

L	424-5154	**BASE & 1 (RIP)**	0	$2,230
		Ripper function. Includes the Ripper Lines. CANNOT BE USED WITH: 368-6557 SNOW ARRANGEMENT		
L	424-5155	**BASE & 3 (FL,DA1,RIP)**	0	$6,810
		FOR USE WITH LANE 3 ONLY Ripper, front lift and dozer angle functions. CANNOT BE USED WITH: 368-6557 SNOW ARRANGEMENT		
L	424-5157	**BASE + 4(WM,WTW/FLOAT,FL,RIP)**	0	$8,830
		FOR USE WITH LANE 3 ONLY Ripper, Front Lift, Snow Wing Mast and Snow Wing Tilt functions. Includes the front Lift Lines. *NOTE*: Float only on Wing Tilt function		
L	424-5160	**BASE + 5(WM,WTW/FLT,DA1,FL,RIP)**	0	$10,520
		FOR USE WITH LANE 3 ONLY Ripper, Dozer Angle 1, Front Lift, Snow Wing Mast and Snow Wing Tilt with Float. Includes the front Lift Lines. *NOTE*: Float only on Wing Tilt function		
L	424-5161	**BASE & 6(WM,WT,DA1,DA2,FL,RIP)**	0	$11,780
		FOR USE WITH LANE 3 ONLY Ripper, front lift, snow wing mast, snow wing tilt with Float, and dozer angle 1 and dozer angle 2 functions. *NOTE*: Float only on Wing Tilt function		

ELECTRICAL

ROADING LIGHTS

L	421-7810	**LIGHTS, ROADING, HALOGEN**	0	NC
		Provides six halogen cab roof mounted roading lights CANNOT BE USED WITH: ANY LED LIGHTING OPTION		
L	550-6608	**LIGHTS, ROADING, LED**	0	$1,245
		Provides six LED cab roof mounted roading lights. CANNOT BE USED WITH: ANY HALOGEN LIGHTING OPTION		

REAR BRAKE LIGHTS

L	549-9138	**LIGHTS, ARM, FOLD DOWN**	0	$1,270
		Provides stationary rear brake lights along with the back-up lights, dimmer switch for road lighting, drop-down stop, tail, and rear turn signals and back-up lights. REQUIRES: FRONT HEADLIGHTS (High/Low)/(Halogen/LED) INCLUDED IN: SNOW ARRANGEMENT REQUIRED BY: EUROPEAN ARRANGEMENT		
L	426-2662	**LIGHTS, BRAKE AND BACK-UP**	0	NC
		Provides stationary rear brake lights along with the back-up lights. Does not include front headlights or turn signals CANNOT BE USED WITH: 420-4754 EUROPEAN ARRANGEMENT FRONT HEADLIGHTS		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

OPERATOR ENVIRONMENT

CAB EXTERIOR

L	424-5141	**CAB, BASE (STANDARD GLASS)**	0	NC
		INCLUDES: - Windows, sides + rear, without wipers - Alternator, 150 Amp CANNOT BE USED WITH: 368-6557 SNOW ARRANGEMENT		
L	424-5142	**CAB, PLUS (STANDARD GLASS)**	0	$1,105
		INCLUDES: - Windows, sides with wiper - wiper/washer, rear - Alternator, 150 Amp		
L	424-5143	**CAB, PLUS (ANTI-ICING GLASS)**	0	$6,630
		INCLUDES: - Windows, sides with wiper - wiper/washer, rear - Alternator, 280 Amp *Recommended for Snow Removal		

CAB INTERIOR

L	397-7456	**CAB, BASE (INTERIOR)**	0	NC
		INCLUDES: - Seat, mechanical suspension, cloth - Shade, Sun		
L	426-4829	**CAB, PLUS (INTERIOR)**	0	$3,010
		INCLUDES: - Seat, heated, air suspension, cloth - Radio,12V, AM/FM, Weatherband, Bluetooth, USB, Aux Input Available to countries with bluetooth certification. Please contact your Cat marketing representative if you have questions. - Fan, defroster, rear window - Converter, Communication (CB) - Shade, Sun		
L	426-4830	**CAB, PREMIUM (INTERIOR)**	0	$4,580
		INCLUDES: - Seat, ventilated, heated, air suspension, cloth - Radio,12V, AM/FM CD/MP3 Bluetooth, Weatherband, USB, Aux Input XM/Sirius Satellite. Available to countries with bluetooth certification. Please contact your Cat marketing representative if you have questions. - Fan, defroster, rear window - Converter, Communication (CB) - Shade, Sun *Recommended for Snow Removal		

SEAT BELT

L	394-1492	**SEAT BELT**	0	NC
		Standard 3 inch seat belt		
L	394-1132	**SEAT BELT W/INDICATOR**	5	$193
		Standard 3 inch seat belt with indicator located on display panel		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

TECHNOLOGY PRODUCTS

PRODUCT LINK

Product Link enables the remote transmission of information about the location, operation, and condition of your equipment. Efficiently and effectively monitor the performance of your assets to help keep your jobs on schedule, maintain equipment condition, and reduce the costs of owning and operating your fleet. Availability varies by country - please reference https://Dealer.cat.com/PL/Certification for certified countries. Please contact your Caterpillar marketing representative with questions.

L	464-2510	**VIMS & SAT PROD LINK, PLE631**	0	**$432**
		This single attachment supports activation of VIMS and/or satellite Product Link. VIMS provides historical trends, histograms, events and more through a wired connection for off-board analysis in applications including VIMS PC. The VIMS on-board system also includes a port for wireless transmission with the most widely-used radio and cellular broadband systems. Product link Elite series PLE631 uses a satellite network to transmit location, utilization and condition information for viewing in Product Link's remote monitoring web interface. For use in areas with poor or no cellular coverage.		
L	464-2500	**VIMS & CELL PROD LINK, PLE641**	0	**NC**
		This single attachment supports activation of VIMS and/or cellular Product Link. VIMS provides historical trends, histograms, events and more through a wired connection for off-board analysis in applications including VIMS PC. The VIMS on-board system also includes a port for wireless transmission with the most widely-used radio and cellular broadband systems. Product Link Elite series PLE641 offers expanded coverage including 3G UMTS and CDMA2000 as well as 2G GSM and CDMA cellular networks to transmit location, utilization and condition information for viewing in Product Link's remote monitoring web interface. Cellular technology provides capabilities for frequent transmission and larger volumes of data.		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

TECHNOLOGY PRODUCTS (CONT.)

ACCUGRADE

L	362-5222	**NO ACCUGRADE**	0	NC
L	420-4756	**INSTALLATION, ACCUGRADE READY** Allows the Motor Grader to be equipped with either a Cross Slope, Sonic, Laser, GPS, or ATS electronics kit. Provides software, harnesses for sensors, mounting for sensors and blade mast bracket. NOTE: Highly recommended to select Advanced Joystick Controls. This will Allow for complete configuration and control when using 3 party grade control systems	0	$6,340
L	420-4757	**GRADE CONTROL X SLOPE** Allows the operator to manually control one end of the blade to match the curb or crown while automatically maintaining the desired slope of the blade. This system is used to maintain the crown of a gravel road or the shoulder of a road. Provides cab switches, software, harness, sensors and mounting. REQUIRES: 458-8701 JOYSTICK CONTROLS, ADVANCED	0	$11,060

MOTOR GRADER CONTROLS

L	357-9151	**JOYSTICK CONTROLS, BASIC** Standard joystick controls. CANNOT BE USED WITH: 420-4757 GRADE CONTROL X SLOPE	6	NC
L	458-8701	**JOYSTICK CONTROLS, ADVANCED** Provides enhanced functionality while using ACCUGRADE READY or GRADE CONTROL X SLOPE INCLUDES: - Advanced Joysticks - Harness - Films *Recommended for use with: 420-4756 ACCUGRADE READY	8	$2,030

CONTROL AUTO ARTICULATION

L	483-2355	**CONTROL,AUTO ARTICULATION-DEMO** 500 machine hour demo. Improves ease of operation, increases maneuverability and maximizes productivity by automatically matching articulation angle to steering angle. 3 modes; off / forward / both forward and reverse.	0	NC
L	448-1293	**CONTROL,AUTO ARTICULATION-FULL** Improves ease of operation, increases maneuverability and maximizes productivity by automatically matching articulation angle to steering angle. Includes 3 position rocker switch enabling 3 modes; off / forward / both forward and reverse.	0	$1,810

FUEL SYSTEMS

FUEL TANK

L	490-4797	**TANK, FUEL, STANDARD** Provides a 110 gallon (416 liter) gravity fill fuel tank at ground level.	0	NC

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

FUEL SYSTEMS (CONT.)

FUEL TANK (Cont.)

L	490-4792	TANK, FUEL, FAST FILL Ground level gravity and ground level accessible fast fill feature. Shaw Aero low-pressure system with automatic shut-off for fast fill fueling rates up to 100 GPM.	0	$4,300

TIRES, RIMS, AND WHEELS

**To calculate tire loads with machine attachments, please reference the MG Tire Selection Pocket Guide (media #AEXQ0182), available on the Electronic Sales Library.
All tire selections should be made with consideration for planned machine attachments (OEM and aftermarket) and their additional weight. Each tire has a maximum load rating that is not to be exceeded. The tire selection should be based on the maximum of all tire position loads on the machine. Assistance for calculating the highest tire load can be found in the Tire Load Worksheet in the back of the Caterpillar Motor Graders Tire Selection Pocket Guide. Failure to abide by the load ratings of the tires without first consulting the local tire supplier representative could result in nullification of the tire warranty.

Due to industry-wide tire availability limitations, tire brand and type cannot be guaranteed. Every effort will be made to satisfy your tire choice, but we reserve the right to change to alternate tires. If the tire brand cannot be supplied, we may contact the dealer. However, in some cases, we will change to an alternative premium brand tire without notice. If the tire type cannot be supplied, we will contact the dealer to propose alternatives. The dealer needs to choose an alternative tire a "rims only" option (where available) within 72 hours. If no response is provided by the deadline, the order will default to the alternative tire and will be changed at that point. As a consequence of a possible tire change, the total machine price will be decreased or increased depending on the price of the new tire.

The information provided can be used to make a tire selection based on the particular conditions at the site. When available, the tire manufacturer should be consulted regarding proper tire selection.

NOTE:

Bridgestone

L	435-7970	TIRES, 20.5R25 BS VJT * MP Bridgestone VJT* radial on 17"x25" multipiece rim. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (10194 lbs) 4625 kg.**	1,774	$4,610

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

TIRES, RIMS, AND WHEELS (CONT.)

Bridgestone (Cont.)

L	255-5002	**TIRES,20.5R25 BS VKT * G2/3 MP**	2,762	**$2,180**
		Bridgestone VKT 1* radial (L2) on 17" x 25" multi-piece rim. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (10194 lbs) 4625 kg.**		

Michelin

L	255-4996	**TIRES,20.5R25 MX XHA2 * L3 MP**	2,947	**$7,600**
		Michelin XHA 1* radial (L3) on 17" x 25" multi-piece rim. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (10194 lbs) 4625 kg.**		
L	255-5004	**TIRES,20.5R25 MX XSNO+ * G2 MP**	2,630	**$9,530**
		Michelin X SNO Plus 1* radial (G2) on 17" x 25" multi-piece rim. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (10194 lbs) 4625 kg.**		

MAXAM

L	549-9139	**TIRES,20.5R25 MA MS301 **L3/G3**	0	**$2,020**
		Maxam MS301 2* radial (L3/G3) on 17- x 25- multi-piece rim. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (11795 lbs) 5350 kg.**		

RIMS ONLY

L	255-4973	**RIMS ONLY, 17" X 25" MP**	-1,377	**$-10,200**
		Provides multi-piece rims for mounting 20.50-25 tires and 20.50R25 tires.		

FLUIDS

ANTIFREEZE

L	447-1071	**COOLANT, 50/50, -35C (-31F)**	0	**NC**
		Standard engine coolant		
L	447-1072	**COOLANT, 60/40, -51C (-60F)**	0	**$249**
		Engine coolant recommended for extreme low temperatures		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

INSTRUCTIONS

LANGUAGE SELECTION

L	**386-1254**	**LANGUAGE, ENGLISH**	0	**NC**

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

INSTRUCTIONS (CONT.)

DECAL PACKAGES

NOTE: This part number will provide the films in ANSI or ISO Pictogram
The word "WARNING" is on picto decals for ANSI.
Symbols only are on picto decals for ISO.

L	**424-5377**	**MANUALS, ENGLISH (USA)**	0	**NC**
		Provides decals as required by ANSI.		

USE	REF NO.	LANE 2 / 3 OPTIONAL	Ship Weight lbs	LIST PRICE AT DEALER

FEATURE PACKAGES

SNOW REMOVAL PACKAGES

L	368-6557	**SNOW ARRANGEMENT**	0	$15,680

INCLUDES:
- TRANSMISSION, AUTOSHIFT
- MOUNTING, FOR WARNING LIGHT
- WEATHER, COLD PLUS
- LIGHTS, ARM, FOLD DOWN

*Recommend: 424-5143 CAB, PLUS (ANTIICING GLASS)
*Recommend: 421-7813 MIRRORS, OUTSIDE HEATED 24V
REQUIRES: HEATER, ENGINE COOLANT, 120Vor 240V
HEADLIGHTS,FRONT, HIGH,HALOGEN or LED
SNOW WING READY PACKAGE-HAL or LED
CAB, PLUS (STANDARD GLASS) or (ANTIICING GLASS)

SNOW WING READY PACKAGES

L	549-9154	**SNOW WING READY PACKAGE-LED**	0	$2,340

INCLUDES:
- Snow Wing Mount
- Light, LED, Snow Wing, Right Hand

CANNOT BE USED WITH: LIGHTS, ROADING, HALOGEN
LIGHTS, WORKING, HALOGEN
HEADLIGHTS,FRONT, LOW, HALOGEN
HEADLIGHTS,FRONT, HIGH,HALOGEN
REQUIRED BY: SNOW ARRANGEMENT

L	424-5372	**SNOW WING READY PKG, HALOGEN**	0	$1,930

INCLUDES:
- Snow Wing Mount
- Light, halogen Snow Wing, Right Hand

CANNOT BE USED WITH: HEADLIGHTS, FRONT, LOW, LED
HEADLIGHTS, FRONT, HIGH, LED
LIGHTS, ROADING, LED
LIGHTS, WORKING, PLUS, LED
REQUIRED BY: SNOW ARRANGEMENT

LIGHTING PACKAGES

L	420-4777	**LIGHTS, WORKING, PLUS, HALOGEN**	0	$1,035

INCLUDES:
- Lights, halogen, ripper 3X3
- Lights, halogen, work, heel 3X3
- Lights, halogen, work, midframe toe 3X3

CANNOT BE USED WITH: LIGHTS, ROADING, LED
MOUNT,SNOW WING,FRAME RDY LED
HEADLIGHTS, FRONT, LOW, LED
HEADLIGHTS, FRONT, HIGH, LED
REQUIRED BY: SNOW ARRANGEMENT

USE	REF NO.	LANE 2 / 3 OPTIONAL	Ship Weight lbs	LIST PRICE AT DEALER

FEATURE PACKAGES (CONT.)

LIGHTING PACKAGES (Cont.)

L **549-9155** **LIGHTS, WORKING, PLUS, LED** 0 **$2,590**
INCLUDES:
- Lights, LED, ripper 3X3
- Lights, LED, work, heel 3X3
- Lights, LED, work, midframe toe 3X3, LED

CANNOT BE USED WITH: LIGHTS, ROADING, HALOGEN
SNOW WING READY PKG-HALOGEN
HEADLIGHTS,FRONT, LOW, HALOGEN
HEADLIGHTS,FRONT, HIGH,HALOGEN
REQUIRED BY: SNOW ARRANGEMENT

ELECTRICAL

LIGHTING

L **338-1132** **LIGHT, LED WARNING STROBE** . . . . . 5 **$605 NI**
Amber high-speed strobe beacon.
REQUIRES: MOUNTING, WARNING LIGHT

FRONT HEADLIGHTS

L **235-5955** **HEADLIGHTS,FRONT, LOW, HALOGEN** 48 **$745**
Provides low bar HALOGEN headlights with front turn signals, dimmer switch for road lighting, drop-down stop, tail, and rear turn signals and back-up lights.
ONLY FOR USE WITH: LIGHTS,ARM, FOLD DOWN
CANNOT BE USED WITH: ANY LED LIGHTING OPTION
SNOW ARRANGEMENT
REQUIRED BY: LIGHTS,ARM, FOLD DOWN

L **553-2585** **HEADLIGHTS, FRONT, LOW, LED** 0 **$1,285**
Provides low bar LED headlights with front turn signals, dimmer switch for road lighting, drop-down stop, tail, and rear turn signals and back-up lights.
ONLY FOR USE WITH: LIGHTS,ARM, FOLD DOWN
CANNOT BE USED WITH: ANY HALOGEN LIGHTING OPTION
SNOW ARRANGEMENT
REQUIRED BY: LIGHTS,ARM, FOLD DOWN

L **260-1909** **HEADLIGHTS,FRONT, HIGH,HALOGEN** 10 **$865**
Provides high bar HALOGEN headlights with front turn signals, dimmer switch for road lighting, drop-down stop, tail, and rear turn signals and back-up lights.
ONLY FOR USE WITH: LIGHTS,ARM, FOLD DOWN
CANNOT BE USED WITH: ANY LED LIGHTING OPTION
REQUIRED BY: LIGHTS,ARM, FOLD DOWN
SNOW ARRANGEMENT

USE	REF NO.	LANE 2 / 3 OPTIONAL	Ship Weight lbs	LIST PRICE AT DEALER

ELECTRICAL (CONT.)

FRONT HEADLIGHTS (Cont.)

L	553-2587	**HEADLIGHTS, FRONT, HIGH, LED**	0	$1,420

Provides high bar LED headlights with front turn signals, dimmer switch for road lighting, drop-down stop, tail, and rear turn signals and back-up lights.
ONLY FOR USE WITH: LIGHTS,ARM, FOLD DOWN
CANNOT BE USED WITH: ANY HALOGEN LIGHTING OPTION
REQUIRED BY: LIGHTS,ARM, FOLD DOWN
SNOW ARRANGEMENT

OPERATOR ENVIRONMENT

CAMERA

L	368-6554	**CAMERA, REAR VISION**	0	$2,535

Provides a 115 degree color camera mounted on the rear of the hood that is connected to a 7 inch (178mm) LCD color display mounted in the cab which shows the view behind the machine.
INCLUDED IN: 420-4754 EUROPEAN ARRANGEMENT
526-0307 TURKISH ARRANGEMENT

L	536-9906	**CAMERA, REAR VISION W/MIRRORS**	0	$3,060

Provides increased visibility surrounding the machine.
Proides a rear vision camera and round convex mirrors that are mounted on outside mirror brackets.
Camera and mirrors - ISO 5006:2017 Compliant
REQUIRES: 233-3295 MIRRORS, OUTSIDE MOUNTED or
421-7813 MIRRORS, OUTSIDE HEATED 24V
CANNOT BE USED WITH: 420-4754 EUROPEAN ARRANGEMENT
368-6554 CAMERA, REAR VISION

NOTE: The mirrors are wrapped in bubble wrap and rotated toward the door for protection during shipment.

MIRRORS

NOTE: Selection of one of the options below is
REQUIRED BY: 420-4754 EUROPEAN ARRANGEMENT

L	233-3295	**MIRRORS, OUTSIDE MOUNTED**	32	$495

Provides two convex mirrors for outside mounting on the left and right cab grab irons.
NOTE: The mirrors are wrapped in bubble wrap and rotated toward the doors for protection during shipment.
CANNOT BE USED WITH: 4217813 MIRRORS, OUTSIDE HEATED 24V

L	421-7813	**MIRRORS, OUTSIDE HEATED 24V**	0	$750

FOR USE WITH LANE 3 ONLY
Provides mirrors with a 24V heating element to keep mirrors ice free in cold weather operations.
NOTE: The mirrors are wrapped in bubble wrap and rotated toward the doors for protection during shipment.
*Recommended for Snow Removal
CANNOT BE USED WITH: 2333295 MIRRORS, OUTSIDE MOUNTED

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

TECHNOLOGY PRODUCTS

L	214-2470	**TRANSMISSION, AUTOSHIFT, JOY**	5	$4,020
		Improves ease of operation and maximizes productivity by automatically shifting the transmission at optimal shift points. REQUIRED BY: 420-4754 EUROPEAN ARRANGEMENT INCLUDED IN: 368-6557 SNOW ARRANGEMENT		
L	458-2072	**STABLE BLADE**	3	$2,470
		Provides sensor and software to automatically reduce engine speed in various applications to reduce machine bounce and scalloping of surface.		
L	473-3296	**CONTROLS, PERFORMANCE BUNDLE**	0	$15,560
		The Auto Articulation in this bundle is an unrestricted version, not limited to 500 hours. Satisfies REQUIREMENT of 483-2355 CONTROL, AUTO ARTICULATION INCLUDES: 420-4757 GRADE CONTROL X SLOPE 458-8701 JOYSTICK CONTROLS, ADVANCED 458-2072 STABLE GRADE 448-1293 CONTROL,AUTO ARTICULATION-FULL		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

SAFETY AND SECURITY

SECURITY

L	393-6335	**SECURITY SYSTEM, MACHINE**	10	$720
		FOR USE WITH LANE 3 ONLY. Provides a programmable system to manage access to the machine using special MSS keys. Deters theft, vandalism, and unauthorized use. Programmable features allow the following: * limits operators to selected machines * controls the days and hours equipment may be started * controls access by untrained operators or personnel ONLY FOR USE WITH: 386-5220 14M3 MOTOR GRADER		

GUARDS

GUARDS

L	425-6468	**GUARD, TRANSMISSION**	0	$3,285
		Provides a steel guard to protect the transmission from ground debris. *Recommended 424-2267 GUARD, TRANSMISSION SIDES/SOUND INCLUDED IN: 420-4754 EUROPEAN ARRANGEMENT 526-0307 TURKISH ARRANGEMENT		
L	424-2267	**GUARD,TRANSMISSION SIDES/SOUND**	0	$2,095
		Provides two metallic side panels on either side of transmission guard, enclosing the rear of the machine. This option prevents debris from accumulating on top of the transmission guard and also suppresses sound to meet EU sound regulations. ONLY FOR USE WITH: 425-6468 GUARD, TRANSMISSION INCLUDED IN: 420-4754 EUROPEAN ARRANGEMENT 526-0307 TURKISH ARRANGEMENT		
L	255-5090	**FENDERS, REAR**	405	$7,760
		Provides non-metallic rear fenders to aid in reducing the build-up of mud, snow, or debris. Rear fenders are compatible with all MG tire sizes offered by the factory. ** NOT RECOMMENDED FOR USE WITH TIRE CHAINS.		
L	424-8974	**GUARD, FRONT AXLE CYLINDER**	0	$1,260
		Provides additional protection to the front axle cylinders. lines, and fittings.		

OTHER ATTACHMENTS

MOUNTS

L	421-7812	**MOUNTING, FOR WARNING LIGHT**	10	$810
		Provides the bracket for warning beacon light REQUIRED BY: 338-1132 LIGHT, LED WARNING STROBE INCLUDED IN: 368-6557 SNOW ARRANGEMENT		

STARTING AIDS

L	498-8770	**HEATER, ENGINE COOLANT 120V**	0	$256
		FOR USE WITH LANE 3 ONLY Engine coolant heater for 120 volt external power source. *Recommended for Snow Removal		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

APPLICATION SPECIFIC COMPONENTS

REAR ENCLOSURE

L	452-8170	**COVERS, SCREEN**	0	$1,000
		INCLUDED IN: 424-5146 WEATHER, COLD PLUS		

WORK TOOLS

L	420-4809	**PUSH PLATE, COUNTERWEIGHT**	0	$7,030
			0	$7,030 NI
		ALSO AVAILABLE ON A MISCELLANEOUS ORDER NI (Not Installed) ONLY AVAILABLE AS MISC ORDER Front mounted. Recommended when machine is equipped with rear ripper/scarifier and other rear mounted attachments. NOTE: this cannot be used in conjunction with any front lift work tools		

GROUND ENGAGING TOOLS

GROUND ENGAGING TOOLS

P	8J-1434	**TOOTH, STRAIGHT**	67	$805
		ALSO AVAILABLE ON A MISCELLANEOUS ORDER with 491-8100 RIPPER, REAR Ripper tooth group for rear ripper. Includes one straight shank with ripper tooth. Available in quantities of 1, 2, 3, or 4 ONLY FOR USE WITH: 491-8100 RIPPER, REAR		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

FIELD INSTALLED ATTACHMENTS

Available Through Parts Distribution

Reference numbers below are kits used to upgrade existing motor graders with new features or technology

463-6258 **KIT, JOYSTICK,ADVANCED CONTROL**
Improves operational efficiency when utilizing ACCUGRADE or GRADE CONTROL X SLOPE.
Estimated install Hours: 2.5
Special Instructions: REHS8847

466-5233 **KIT, EXTENSIONS, MIRROR HEATED**
9" extension from Current Mirror, adds 2 additional mirrors 1 for front visibility and 1 rear visibility. Heated to keep free of ice and snow in cold weather
Estimated install Hours: 2

466-5255 **KIT, EXTENSIONS, MIRROR STD**
9" extension from Current Mirror, adds 2 additional mirrors, 1 for front visibility and 1 rear visibility
Estimated install Hours: 2

265-6743 **KIT,EXTEN.,BLADE,24"X27"X1"LH**
Left hand extension to be used for light maintenance work only. Extensions are of lighter construction than moldboard and using them as the leading edge in tough or rocky material may damage the extension.
Cannot be used with moldboard masts for accugrade.
Estimated install Hours: 2 hrs

265-6744 **KIT,EXTEN.,BLADE,24"X 27"X1"RH**
Right hand extension to be used for light maintenance work only. Extensions are of lighter construction than moldboard and using them as the leading edge in tough or rocky material may damage the extension.
Cannot be used with moldboard masts for accugrade.
Estimated install Hours: 2 hrs

PACKING

MACHINE PACKING (Must Select One)

0P-0251	**DOMESTIC TRUCK**	0	**NC**

ATTACHMENT PACKING

0P-8000	**BUNDLED, LESS TIRES, 14M**	0	**$1,175**
	Ships less tires. Rims ship on a skid.		
0P-0210	**PACK, DOMESTIC TRUCK**	0	**NC**
	Use for miscellaneous material orders.		
0P-8011	**BUNDLED FENDERS**	0	**$458 NET**
	Required when ordering fenders with rims only.		

16M3 MOTOR GRADER
LITTLE ROCK, AR, USA (SAP)

Ship Weight lbs	LIST PRICE AT DEALER

Standard Equipment:

POWERTRAIN

Air cleaner, dual stage dry type radial seal with service indicator through diesel, with automatic engine derate information display and automatic and idle control
dust ejector
-Optimized VHP Plus
Air-to-air after cooler (ATAAC)
-Engine ECO mode
Demand fan, hydraulic
Drain, engine oil, high speed
Brakes, oil disc, four-wheel, hydraulic
Auto differential lock
Critically low fluid monitoring
Ok-to-Start
Consistent power to ground
Brake wear indicator
Ether starting aid
Sediment drain, fuel tank
Muffler, under hood (Tier 2/3 only)
Parking brake - multi disc, sealed, oil cooled

STARTERS, BATTERIES, & ALTERNATORS

Starter, electric, heavy duty
Batteries, maintenance free, HD 1400 CCA
Alternator, 150 ampere, sealed

ELECTRICAL

Electrical system, 24V

LIGHTS

Lights, reversing
Lights, roading, roof-mounted
Lights, stop and tail, LED

OPERATOR ENVIRONMENT

Air conditioning with heater
Touch screen information display monitor coolant temp, engine RPM, and hydraulic oil temp)
Joystick, adjustable armrests, electric
Joystick gear selection
Joystick hydraulic controls, (right/left blade lift with float position, blade side shift and tip, circle drive, center shift, front wheel lean and articulation and steering)
Joystick hydraulic power steering
Ladders, cab, left and right side
Rearview camera
Mirror, inside rearview, wide angle
Power Port, 12V
Radio ready, entertainment
ROPS cab, sound suppressed less than 73 dB(A)
ISO 6394 (70% fan speed)
Storage compartments
Coat hook
Seat, cloth-covered, comfort suspension
Seat belt, retractable 76 mm (3")
Seatbelt indicator
Windows laminated glass:
-Fixed front with intermittent wiper
-Door with intermittent wipers (3)
Windows tempered:
-Left and right side wipers
-Rear with intermittent wiper

TECHNOLOGY PRODUCTS

Grade control cross slope
Product link ready

SAFETY AND SECURITY

Ground level engine shutdown
Hammer (emergency exit)
Alarm, back-up

FUEL SYSTEMS

Metallic Fuel tank, 496 liters (131 gallons)
Fast fill 567 liters (150 gallons) per minute

COOLING

Modular cooling package
Doors, 2 cooling core cleanouts, left and right

16M3 MOTOR GRADER
LITTLE ROCK, AR, USA (SAP)

	Ship Weight lbs	LIST PRICE AT DEALER

TIRES, RIMS, AND WHEELS

A partial allowance of 1600 lbs for tires on 482.6mm x 635mm (19.5" x 25") multi-piece rims is included in the base machine weight and price

OTHER STANDARD EQUIPMENT

Accumulators, blade lift
Doors, 4 engine compartment, (two left hand, two right hand) locking
Doors, 2 service, left and right
Top adjust circle wear strips
End bits, 16 mm (5/8") DH-2 steel, 19 mm (3/4") mounting bolts
Rear tandem access steps & hand bars
Hydraulics, base 8 with 1 additional hydraulic valve
Hydraulics, load-sensing

16M3 MOTOR GRADER LITTLE ROCK, AR, USA (SAP)	Ship Weight lbs	LIST PRICE AT DEALER

Lane 2 is reserved for the Base Order Management program.
Please use Lane 2 when placing orders that are part of the Base Order Management program.

16M3 MOTOR GRADER
LITTLE ROCK, AR, USA (SAP)

		Ship Weight lbs	LIST PRICE AT DEALER
369-1756	**16M3 MOTOR GRADER**	56,516	**$1,086,500**
	LANE 2 - AVAILABLE FROM NORTH LITTLE ROCK FACTORY LANE 3 - AVAILABLE FROM NORTH LITTLE ROCK FACTORY		
	AVAILABLE FOR: U.S. Dealers Canadian Dealers EU Dealers Japan Dealers		
0P-2977	**16M3 MISC MATERIAL NLR**	0	**NC**
	AVAILABLE FROM NORTH LITTLE ROCK FACTORY		

Only reference numbers that have the text
"ALSO AVAILABLE ON A MISCELLANOUS ORDER" can be used on a MISC order.

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

LANE SELECTION

0P-9002	LANE 2 ORDER	0	NC
	Only for dealers enrolled in the Base Orders Management (BOM) program.		
0P-9003	LANE 3 ORDER	0	NC

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

PERFORMANCE PACKAGES

WORK TOOLS

L	390-4077	**HITCH, TOWING**	0	NC
L	372-7830	**RIPPER, REAR.**	4,298 4,834	$51,650 $51,650 NI

NOTE
NOT INSTALLED option is only for use with Miscellaneous orders using 0P-2977 16M3 MISC MATERIAL
Hydraulic, rear mounted ripper with three straight ripper shanks and teeth. Can accommodate up to four additional shanks (total of 7) which must be ordered separately found in optional attachments section.
Includes:
- Ripper
- Ripper Mounting
- 3 x TOOTH, RIPPER

RECOMMEND: 441-4488 PUSH PLATE, COUNTERWEIGHT

L	453-4370	**RIPPER, REAR, AUTOLUBE FOR RIP**	4,308	$53,670

Hydraulic, rear mounted ripper with three straight ripper shanks and teeth. Can accommodate up to four additional shanks (total of 7) which must be ordered separately found in optional attachments
Includes:
- Ripper
- Auto Lube Enhancement for Ripper
- Ripper Mounting
- 3 x TOOTH, RIPPER

RECOMMEND: 441-4488 PUSH PLATE, COUNTERWEIGHT
REQUIRES: 385-7552 AUTOLUBE, CENTRO-MATIC

MOLDBOARDS

L	462-6462	**MOLDBOARD, 16 FT FLAT EDGE**	280	$1,390

INCLUDES:
Moldboard 16' x 27" x 1" (4877mm x 686mm x 25mm)
10" x 1 3/8" (254mm x 35mm) cutting edge.
For 3/4" (19mm) mounting bolts
End Bits, standard, without overlay

L	462-6461	**MOLDBOARD, 16 FT CURVED EDGE**	0	NC

INCLUDES:
Moldboard 16' x 27" x 1" (4877mm x 686mm x 25mm)
8" x 1" (203mm x 25mm) curved cutting edge.
For 3/4" (19mm) mounting bolts.
End Bits, standard, without overlay

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

PERFORMANCE PACKAGES (CONT.)

WEATHER/OIL PACKAGES

L	251-1201	OIL, HYDRAULIC	0	NC
L	390-2819	WEATHER, COLD PLUS Recommended for year around use when typical ambient temperature range is -40C (-40F) to 40C (104F) or operating at altitude above 1220 m (4000 feet). Includes: - Covers, Screen - Oil, Hydraulic, Cold, 0W REQUIRES: One of the options listed below: 498-8770 HEATER, ENGINE COOLANT, 120V (as available) 498-8769 HEATER, ENGINE COOLANT, 120V (as available) 488-9612 HEATER, ENGINE COOLANT, 240V (as available)	24	$2,615

HYDRUALIC LINES

L	366-6151	LINES, GP Provides hydraulic lines for base functions.	0	NC
L	386-4105	CONTROL, BLADE, VARIABLE FLOAT Allows operator to control the amount of down force the blade has in float mode.	20	$13,700

ACCUMULATORS

L	391-3804	ACCUMULATORS, BRAKE & BLADE. Accumulators for brakes and blade lift functions Allows approximately 1-3" of vertical blade travel CANNOT BE USED WITH: EU Dealers	0	NC
L	479-3361	ACCUMULATORS, BRK&BLD, ARCTIC. Accumulators for brakes and blade lift functions Allows approximately 1-3" of vertical blade travel Provides functionality for brake accumulators for ambient conditions to -40C. CANNOT BE USED WITH: EU Dealers	20	NC

HORNS

L	370-8464	HORN, ELECTRIC Provides an electrical horn that mounts on front frame.	0	NC
L	370-8465	HORN, AIR FOR USE WITH LANE 3 ONLY Provides a self-sufficient air horn that mounts on the front frame. Provides 107 to 112 db (A) loudness at seven meters.	15	$1,890

AUTOLUBE

L	366-6152	LINES, GREASE	0	NC

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

PERFORMANCE PACKAGES (CONT.)

AUTOLUBE (Cont.)

L	385-7552	**AUTOLUBE, CENTRO-MATIC**	25	$19,690
		Provides a LINCOLN INDUSTRIAL CORP. "CENTRO-MATIC" automated lubrication system. The system utilizes a Hydrualic pump, SL-V injectors and a 40 lb. reservoir. Provides for an adjustable timer to dispense grease at a predetermined interval to all MG lubrication points; eliminates manual lubrication, extends component life and reduces downtime.		

POWERTRAIN

ENGINE SELECTION

L	559-7102	**ENGINE, EPA TIER 4**	0	NC
		EPA Tier 4 Final certified engine with aftertreatment, with compression brake. Caterpillar C13 ACERT turbo charged diesel engine with automatic engine derate and idle control. ONLY FOR USE WITH: 369-1756 16M3 MOTOR GRADER CANNOT BE USED WITH: EU DEALERS		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS

NOTE: Optional Control Locations

Caterpillar offers many attachment hydraulic controls to operate work tools. Depending on which hydraulic part number is selected, the operating electro-hydraulic switches may include the auxiliary pod, mini-joystick located on the auxiliary pod, and/or the ripper control pod.

```
INDEX =  Index Finger (front lift)(float capability)
MID   =  Middle Finger(dozer angle 1)
RING  =  Ring Finger (dozer angle 2)
LITTLE=  Little Finger (float capability)
```

NOTE: Mini-Joystick

```
                 Fore/Aft
                     .
                    / \
                     |
               <--------->  Left/Right (float capability)
                     |
                    \ /
```

NOTE: Ripper Control Pod

```
RH1   =  Front Lift (float capability)
RH2   =  Ripper-Scarifier Control
RHD   =  Ripper Handle Dual Switch (RH1 & RH2)
```

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

NOTE: Common Functions

COMMON FUNCTIONS:

Base = 8 functions: right and left blade lift, circle turn, drawbar center shift, blade side shift, blade tip, front wheel lean, frame articulation.

```
     FL      = Front Lift (moves front work tools up/down)
     DA1     = Dozer Angle 1 (angles front blade left OR right)
     DA2     = Dozer Angle 2 (angles front blade left AND right)
     RIP     = Rear Mounted Ripper (moves ripper up/down)
     AUX     = Auxiliary
     WM      = Wing Mast
     WT      = Wing Tilt
     Float   = Built-in feature of valve section that opens both the
               work ports to tank.  The external forces (weight of the
               implement) allows free movement of the implement.
     Flow Rate=Provides maximum rate of fluid flow from the specific
               work port.  B/A represents the maximum flow rate in
               Port B/Port A* in LPM (liters per minute).
*NOTE: Each valve section has two work ports (Port A and Port B).
    Port A:  Used to either raise implement or move implement to the
    right or for clockwise rotation of the implement.
    Port B:  Used to either lower implement or move implement to the
    left or for counter-clockwise rotation of the implement.
```

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

HYDRAULIC VALVE LOCATIONS

Part Number	MINI-JOYSTICK Front Aft	MINI-JOYSTICK Left/ Right Float	AUXILIARY POD Index with Float	AUXILIARY POD Mid	AUXILIARY POD Ring	AUXILIARY POD Little	RIPPER POD RH1	RIPPER POD RH2
385-7554								RIPPER
Float:								N
Flow rate:								72/72
385-7557								
FOR USE WITH LANE 3 ONLY								
	MAST	TILT	FR LIFT	DA1				RIPPER
Float:	N	N	Y	N				N
Flow rate:	72/72	41/30	46/60	72/72				72/72

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

HYDRAULIC PART NUMBERS

L	385-7554	**HYD-BS + 1, RIP**	16	$2,285
		Ripper function.		
		INCLUDES: Ripper Lines.		
L	385-7557	**HYD-BS + 5, WM,WT,DA1,FL,RIP**	100	$11,700
		FOR USE WITH LANE 3 ONLY		
		Ripper, Front Lift, snow Wing Mast, snow Wing Tilt NO FLOAT, and Dozer Angle 1 functions.		

ELECTRICAL

ROADING LIGHTS

L	390-2797	**LIGHTS, ROADING, HALOGEN**	0	NC
		Provides two front HALOGEN working lights (5 x 5) and six halogen cab roof mounted roading lights (3 x 3).		
		CANNOT BE USED WITH: HEADLIGHTS, FRONT, LOW, LED HEADLIGHTS, FRONT, HIGH, LED		
L	390-2798	**LIGHTS, ROADING, LED**	34	$8,610
		Provides two front LED working lights (4x4) and six LED cab roof mounted roading lights (4x4).		
		CANNOT BE USED WITH: HEADLIGHTS,FRONT, LOW, HALOGEN HEADLIGHTS,FRONT, HIGH,HALOGEN		

REAR BRAKE LIGHTS

L	549-9136	**LIGHTS**	0	$1,470
		Provides stationary rear brake lights along with the back-up lights, dimmer switch for road lighting, drop-down stop, tail, and rear turn signals and back-up lights.		
		REQUIRES: FRONT HEADLIGHTS (High/Low)/(Halogen/LED)		
		CANNOT BE USED WITH: FIRE SUPPRESSION READY		
		REQUIRED BY: EUROPEAN ARRANGEMENT		
L	549-9137	**LIGHTS**	0	$1,470
		Provides stationary rear brake lights along with the back-up lights, dimmer switch for road lighting, drop-down stop, tail, and rear turn signals and back-up lights.		
		REQUIRES: FRONT HEADLIGHTS (High/Low)/(Halogen/LED)		
		REQUIRED BY: FIRE SUPPRESSION READY EUROPEAN ARRANGEMENT		
L	490-6429	**LIGHTS, BRAKE AND BACK-UP**	0	NC
		Provides stationary rear brake lights along with the back-up lights. Does not include front headlights or turn signals		
		CANNOT BE USED WITH: FIRE SUPPRESSION READY FRONT HEADLIGHTS		
L	479-6065	**LIGHTS,BRAKE & BACK UP**	0	NC
		Provides stationary rear brake lights along with the back-up lights. Does not include front headlights or turn signals		
		REQUIRES: FIRE SUPPRESSION READY		
		CANNOT BE USED WITH: FRONT HEADLIGHTS		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

OPERATOR ENVIRONMENT

ACCESS

L	375-3405	**LADDER, LEFT & RIGHT HAND SIDE**	0	NC
		Standard left and right hand side ladders REQUIRES: DECALS, LANYARD ANCHOR POINT 521-6198 or 521-6202		
L	375-3406	**PLATFORM, LADDER LHS & RHS**	280	$11,560
		Provides window cleaning platform and two ladders. Ladders are on each side of the cab REQUIRES: DECALS, LANYARD ANCHOR POINT 521-6198 or 521-6202		
L	375-3407	**PLATFORM, ENHANCED ACCESS**	1,655	$69,170
		LANE 3 ONLY Safety compliant access provides wrap around cab platform with left & right rear enclosure walkways, left walkway lighting, rear fenders, rear ladders, right front cab emergency egress ladder. Improved serviceability and window cleaning access. Highly recommended for mining applications This access platform was designed following the principles of the EMESRT guidelines. Note: Use of GradeControl Masts will limit mold board range of motion Includes: Typical Mirror Arrangement ** NOT RECOMMENDED FOR USE WITH TIRE CHAINS. CANNOT BE USED WITH: 233-3295 MIRRORS, OUTSIDE MOUNTED 421-7813 MIRRORS, OUTSIDE HEATED 24V 351-4490 MIRRORS, HIGH VISIBILITY 375-3402 FENDERS, REAR		
L	462-6400	**PLATFORM, SERVICE ACCESS**	830	$34,590
		LANE 3 ONLY Safety compliant access provides left & right rear enclosure walkways, left walkway lighting, rear fenders, rear ladders. Improved serviceability . This access platform was designed following the principles of the EMREST guidelines. ** NOT RECOMMENDED FOR USE WITH TIRE CHAINS. CANNOT BE USED WITH: 375-3402 FENDERS, REAR		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

OPERATOR ENVIRONMENT (CONT.)

CAB EXTERIOR

L	386-1309	**DOOR, STANDARD**	0	NC
		CANNOT BE USED WITH: 375-3407 PLATFORM, ENHANCED ACCESS		
L	386-1310	**DOOR, PLATFORM**	0	NC
		Door has foot operated latch for use with the large mining platform		
		ONLY FOR USE WITH: 375-3407 PLATFORM, ENHANCED ACCESS		
L	386-1311	**DOOR, HEATED GLASS**	0	$1,890
		Right door and front windshield are heated for anti-icing		
		CANNOT BE USED WITH: 375-3407 PLATFORM, ENHANCED ACCESS		
L	442-8722	**DOOR, PLATFORM, HEATED**	0	$1,890
		Right door and front windshield are heated for anti-icing		
		Doors have foot operated latch for use with the large mining platform		
		ONLY FOR USE WITH: 375-3407 PLATFORM, ENHANCED ACCESS		

CAB INTERIOR

L	391-5182	**SEAT, STANDARD**	0	NC
		- Seat, air suspension, cloth		
L	385-8713	**SEAT, HEATED**	0	$525
		- Seat, air suspension, cloth		
		- Heated		
L	385-8714	**SEAT, VENTILATED + HEATED**	0	$2,445
		- Seat, air suspension, cloth		
		- Heated		
		- Fan forced ventilation		

DISPLAY OPTIONS

L	442-4478	**INFORMATION DISPLAY, STANDARD**	0	NC
		Touch screen display monitor for machine monitoring,		
		displays rear camera view when machine is in reverse.		
L	447-2229	**MONITOR, CAMERA, DEDICATED**	0	$2,175
		Includes INFORMATION DISPLAY, STANDARD plus an additional		
		camera display monitor located above the rear view mirror		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

TECHNOLOGY PRODUCTS

PRODUCT LINK

Product Link enables the remote transmission of information about the location, operation, and condition of your equipment. Efficiently and effectively monitor the performance of your assets to help keep your jobs on schedule, maintain equipment condition, and reduce the costs of owning and operating your fleet. Availability varies by country - please reference https://Dealer.cat.com/PL/Certification for certified countries. Please contact your Caterpillar marketing representative with questions.

L	464-2500	**VIMS & CELL PROD LINK, PLE641**	0	**NC**
		This single attachment supports activation of VIMS and/or cellular Product Link. VIMS provides historical trends, histograms, events and more through a wired connection for off-board analysis in applications including VIMS PC. The VIMS on-board system also includes a port for wireless transmission with the most widely-used radio and cellular broadband systems. Product Link Elite series PLE641 offers expanded coverage including 3G UMTS and CDMA2000 as well as 2G GSM and CDMA cellular networks to transmit location, utilization and condition information for viewing in Product Link's remote monitoring web interface. Cellular technology provides capabilities for frequent transmission and larger volumes of data.		
L	464-2510	**VIMS & SAT PROD LINK, PLE631**	0	**$432**
		This single attachment supports activation of VIMS and/or satellite Product Link. VIMS provides historical trends, histograms, events and more through a wired connection for off-board analysis in applications including VIMS PC. The VIMS on-board system also includes a port for wireless transmission with the most widely-used radio and cellular broadband systems. Product link Elite series PLE631 uses a satellite network to transmit location, utilization and condition information for viewing in Product Link's remote monitoring web interface. For use in areas with poor or no cellular coverage.		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

TIRES, RIMS, AND WHEELS

Tires listed below include a set of six tires.

****To calculate tire loads with machine attachments, please reference the MG Tire Selection Pocket Guide (media #AEXQ0182), available on the Electronic Sales Library.
All tire selections should be made with consideration for planned machine attachments (OEM and aftermarket) and their additional weight. Each tire has a maximum load rating that is not to be exceeded. The tire selection should be based on the maximum of all tire position loads on the machine. Assistance for calculating the highest tire load can be found in the Tire Load Worksheet in the back of the Caterpillar Motor Graders Tire Selection Pocket Guide. Failure to abide by the load ratings of the tires without first consulting the local tire supplier representative could result in nullification of the tire warranty.**

Due to industry-wide tire availability limitations, tire brand and type cannot be guaranteed. Every effort will be made to satisfy your tire choice, but we reserve the right to change to alternate tires. If the tire brand cannot be supplied, the dealer will be contacted to propose alternative tire options. The dealer will need to respond with an alternative tire selection within 72 hours. If no response is provided by the supplier, the order will default to a comparable tire. As a consequence of a tire change, the total machine price will be decreased or increased relative to the price of the new tire selection.

The information provided can be used to make a tire selection based on the particular conditions at the site. When available, the tire manufacturer should be consulted regarding proper tire selection.

Bridgestone

L	196-4928	**TIRES,23.5R25 BS VKT ** L3 MP**	5,396	**$2,800**
		Bridgestone VKT 2* radial (E3) on 19.5" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (17154 lbs) 7781 kg.**		
L	310-7336	**TIRES, 23.5R25 BS VUT * L2 MP**	5,420	**$-1,250**
		Bridgestone VKT 1* radial (G2) on 19.5" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (13230 lbs) 6000 kg.**		
L	435-7972	**TIRES, 23.5R25 BS VJT * L3 MP**	2,613	**$2,930**
		Bridgestone VJT 1* radial (L3) on 19.5" x 25" multi-piece rim. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (13230 lbs) 6000 kg.**		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

TIRES, RIMS, AND WHEELS (CONT.)

Michelin

L	256-3325	**TIRES,23.5R25 MX XLDD2 * L5 MP**	2,600	**$48,350**
		Michelin XLDD2 1* radial (L5) on 19.5" x 25" multi-piece rim. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (13230 lbs) 6000 kg.**		
L	152-3988	**TIRES,23.5R25 MX XHA2 * L3 MP**	5,304	**$8,820**
		Michelin XHA2 1* radial (L3) on 19.5" x 25" multi-piece rim. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (13230 lbs) 6000 kg.**		

FLUIDS

ANTIFREEZE

L	473-3369	**COOLANT, 50/50, -35C (-31F)**	0	**NC**
		Standard engine coolant		
L	473-3370	**COOLANT, 60/40, -51C (-60F)**	0	**$197 NET**
		Engine coolant recommended for extreme low temperatures		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

DOCUMENTATION

MACHINE DOCUMENTATION

LANGUAGES FOR DECAL PACKAGES, AND PUBLICATIONS
NOTE: This part number will provide the language for
Statement of Conformity

L	**386-1254**	**LANGUAGE, ENGLISH**	0	**NC**

DECAL PACKAGES

Note:This part number will provide the films in ANSI
or ISO Pictograms.
The word "WARNING" is on picto decals for ANSI.
Symbols only are on picto decals for ISO.

L	**433-5817**	**DECALS, ENGLISH (U.S.)**	0	**NC**
		Provides decals as required by ANSI.		

USE	REF NO.	LANE 2 / 3 OPTIONAL	Ship Weight lbs	LIST PRICE AT DEALER

FEATURE PACKAGES

COMFORT PACKAGE

Bluetooth radio technology enables the use of a hands free function such as listening to music and making phone calls.
Authorization varies by country, please contact your Cat marketing representative with questions or click on the link below:
https://dealer.cat.com/en/products/technology.html

L	450-1651	**COMFORT PACKAGE-1**	23	$2,735
		Available to countries with Bluetooth certification. Please contact your Cat marketing representative if you have questions. INCLUDES: - Radio,12V, AM/FM, Bluetooth, Weather band, USB, Aux Input - Sun Shade, Rear - Defrost Fan - Converter, 12Amp/12V, communication (CB)		
L	450-1652	**COMFORT PACKAGE-2**	21	$3,375
		Available to countries with Bluetooth certification. Please contact your Cat marketing representative if you have questions. INCLUDES: - Radio, 12V, AM/FM/CD, Bluetooth Mic, Weather band, USB, Aux Input, Remote XM/Sirius Satellite - Sun Shade, Rear - Defrost Fan - Converter, 12Amp/12V, communication (CB)		

WORKING LIGHT PACKAGES

L	370-8503	**LIGHTS, WORKING, HALOGEN**	26	$1,995
		INCLUDES: - Halogen lights, work, heel 5x5 - Halogen lights, work, mid-frame toe 5x5 - Halogen lights, ripper, 5x5 - Halogen lights, work, tandem, 5x5 CANNOT BE USED WITH: ANY LED LIGHTING OPTION		
L	370-8504	**LIGHTS, WORKING, LED**	54	$9,830
		FOR USE WITH LANE 3 ONLY INCLUDES: - Lights, work, heel LED 4x4 - Lights, work, mid-frame toe LED 4x4 - Lights, ripper LED 4x4 - Lights, work, tandem LED 4x4 CANNOT BE USED WITH: ANY HALOGEN LIGHTING OPIONS		

POWERTRAIN

STARTING AIDS

L	498-8770	**HEATER, ENGINE COOLANT 120V**	0	$256
		FOR USE WITH LANE 3 ONLY Engine coolant heater for 120 volt external power source. *Recommended for Snow Removal		

USE	REF NO.	LANE 2 / 3 OPTIONAL	Ship Weight lbs	LIST PRICE AT DEALER

ELECTRICAL

LIGHTING

L	338-1132	**LIGHT, LED WARNING STROBE**	5	$605 NI
		Amber high-speed strobe beacon. REQUIRES: 421-7812 MOUNTING, FOR WARNING LIGHT		
L	459-1706	**LIGHTS, SERVICE, INTERNAL**	5	$540
		Provides two lights operated by a single manual switch located in the rear enclosure. One light illuminates the engine compartment and the second light illuminates the hydraulic level sight gauge. ONLY FOR USE WITH: 369-1756 16M3 MOTOR GRADER CANNOT BE USED WITH: EU DEALERS		

FRONT HEADLIGHTS

L	260-1910	**HEADLIGHTS,FRONT, LOW, HALOGEN**	42	$1,060
		Provides low bar HALOGEN headlights with front turn signals, dimmer switch for road lighting, drop-down stop, tail, and rear turn signals and back-up lights. CANNOT BE USED WITH: ANY LED LIGHTING OPTION REQUIRED BY: 549-9136 or 549-9137 LIGHTS		
L	260-1909	**HEADLIGHTS,FRONT, HIGH,HALOGEN**	10	$865
		Provides high bar HALOGEN headlights with front turn signals, dimmer switch for road lighting, drop-down stop, tail, and rear turn signals and back-up lights. REQUIRED BY: 549-9136 or 549-9137 LIGHTS		
L	553-2586	**HEADLIGHTS, FRONT, LOW, LED**	0	$1,860
		Provides low bar LED headlights with front turn signals, dimmer switch for road lighting, drop-down stop, tail, and rear turn signals and back-up lights. CANNOT BE USED WITH: ANY HALOGEN LIGHTING OPTION REQUIRED BY: 549-9136 or 549-9137 LIGHTS		
L	553-2587	**HEADLIGHTS, FRONT, HIGH, LED**	0	$1,420
		Provides high bar LED headlights with front turn signals, dimmer switch for road lighting, drop-down stop, tail, and rear turn signals and back-up lights. CANNOT BE USED WITH: ANY HALOGEN LIGHTING OPTION REQUIRED BY: 549-9136 or 549-9137 LIGHTS		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

OPERATOR ENVIRONMENT

MIRRORS

L	233-3295	**MIRRORS, OUTSIDE MOUNTED**	32	$495
		Provides two convex mirrors for outside mounting on the left and right cab grab irons. NOTE: The mirrors are wrapped in bubble wrap and rotated toward the doors for protection during shipment. CANNOT BE USED WITH: 386-1313 EUROPEAN ARRANGEMENT INCLUDED IN: 375-3407 PLATFORM, ENHANCED ACCESS		
L	421-7813	**MIRRORS, OUTSIDE HEATED 24V**	0	$750
		Provides mirrors with a 24V heating element to keep mirrors ice free in cold weather operations. NOTE: The mirrors are wrapped in bubble wrap and rotated toward the doors for protection during shipment. CANNOT BE USED WITH: 375-3407 PLATFORM, ENHANCED ACCESS 386-1313 EUROPEAN ARRANGEMENT		
L	351-4490	**MIRRORS, HIGH VISIBILITY**	30	$1,605
		Provides increased visibility surrounding the machine, including views to the left and right front and rear of the machine. Conforms to ISO 5006:2006 compliant standards. INCLUDES: -Left and Right side Standard Rearview Mirrors -Left and Right side Circular Convex Mirrors -Left and Right side Front View Convex Mirrors CANNOT BE USED WITH: 375-3407 PLATFORM, ENHANCED ACCESS INCLUDED IN: 386-1313 EUROPEAN ARRANGEMENT		

TECHNOLOGY PRODUCTS

L	214-2470	**TRANSMISSION, AUTOSHIFT, JOY**	5	$4,020
		Improves ease of operation and maximizes productivity by automatically shifting the transmission at optimal shift points.		
L	448-4908	**MINESTAR READY**	0	$6,010
		Allows the Motor Grader to be equipped with MineStar Fleet and Proximity Awareness machine kit. Provides Display Mounting, Ethernet Switch, MS352, GPS antenna, coaxial cables, and harness with radio connector		

CONTROL AUTO ARTICULATION

L	483-2355	**CONTROL,AUTO ARTICULATION-DEMO**	0	NC
		500 machine hour demo. Improves ease of operation, increases maneuverability and maximizes productivity by automatically matching articulation angle to steering angle. 3 modes; off / forward / both forward and reverse.		
L	448-1293	**CONTROL,AUTO ARTICULATION-FULL**	0	$1,810
		Improves ease of operation, increases maneuverability and maximizes productivity by automatically matching articulation angle to steering angle. Includes 3 position rocker switch enabling 3 modes; off / forward / both forward and reverse.		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

SAFETY AND SECURITY

SAFETY

L	**521-6198**	**DECALS, LANYARD ANCHOR POINT**	0	**NC**
		ANSI decal marking location of safety lanyard anchor points located on the rear enclosure ONLY FOR USE WITH: 375-3405 LADDER, LEFT & RIGHT HAND SIDE 375-3406 PLATFORM, LADDER LHS & RHS		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

SAFETY AND SECURITY (CONT.)

SECURITY

L	393-6335	**SECURITY SYSTEM, MACHINE**	10	$720

FOR USE IN LANE 3 ONLY
Provides a programmable system to manage access to the machine using special MSS keys. Deters theft, vandalism, and unauthorized use. Programmable features allow the following:
* limits operators to selected machines
* controls the days and hours equipment may be started
* controls access by untrained operators or personnel
ONLY FOR USE WITH: 369-1756 16M3 MOTOR GRADER

FIRE SUPPRESSION

Machine has provisions for fire suppression capabilities.
- Mounting location on left rear for remote manual actuator
- Mounting location on exterior of upper rear enclosure for pressure canisters
- Knock-outs for routing hoses through hood and cab
- Mounting points for nozzles on interior of rear enclosure
- Machine wire harness will integrate with fire suppression controller machine shutdown

L	435-8504	**FIRE SUPPRESSION READY**	0	$1,770

Includes provisions for mounting fire suppression tanks, space claim for fire suppression lines, and mounting locations for up to 16 nozzles; capable of accepting fire suppression tank(s) (including fire suppression agent) not to exceed 200 kg (440 lbs) in weight. Please refer to Fire Suppression Ready Arrangement for Cat 16M3 Salesgram (Media # TEKQ1341-00) for more details.

- Universal tank mounting bracket; holds two Ansul LVS10's (or similar) in a horizontal position or two Ansul LTA 101's (or similar) in a vertical position.
- Mounting plates in cab for manual actuator and fire suppression controller.
NOTE Tanks nor controller included
REQUIRES: 549-9137 LIGHTS,ARM, FOLD DOWN

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

SAFETY AND SECURITY (CONT.)

FIRE SUPPRESSION (Cont.)

L	508-8136	**FIRE SUPPRESSION, FULL INSTALL**	0	$36,440

Factory installed ANSUL Liquid Vehicle System fire suppression. System includes two 10 gallon tanks, engineered lines routing with 16 nozzle locations, ground level actuation switch, cab mounted actuation switch and control module.

** NOTE **
Full installation is hardware only. The fire suppression system is empty and not pressurized.

NOTE: A local ANSUL distributor must complete the installation and certify the system with the ANSUL Liquid Vehicle System (LVS) liquid agent and two pressure cartridges. ANSUL LVS liquid agent has operating temperature of -40 to 60 degree Celsius or -40 (140F). Please refer to Factory Installed Fire Suppression System for Cat D10T2, D11T, 777G, 16M3, 18M3 and 24 Salesgram (Media number: TEKQ1341) for more ordering and commissioning details prior to ordering.
ONLY FOR USE WITH: 369-1756 16M3 MOTOR GRADER
435-8504 FIRE SUPPRESSION READY

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

TIRES, RIMS, AND WHEELS

SPARE RIMS

L	150-5144	**RIM, 19.5" X 25" MP (SPARE)**	320	$2,595 NI
		NOTE Option is also available with a Miscellaneous order using 0P-2977 16M3 MISC MATERIAL REQUIRES: 0P-8004 BUNDLED, SPARE RIM ONLY FOR USE WITH: 23.5" x 25" tire.		

GUARDS

GUARDS

L	375-3408	**GUARD, TRANSMISSION** Provides a steel guard to protect the transmission from ground debris. INCLUDED IN: 386-1313 ARRANGEMENT	350	$5,160
L	375-3402	**FENDERS, REAR** Provides metallic rear fenders to aid in reducing the build-up of mud, snow, or debris. ** NOT RECOMMENDED FOR USE WITH TIRE CHAINS. CANNOT BE USED WITH: 375-3407 PLATFORM, ENHANCED ACCESS 462-6400 PLATFORM, SERVICE ACCESS	1,150	$11,860
L	386-1982	**GUARD, DEBRIS** Provides a shield that is designed to minimize debris from entering the cooling package.	20	$945
L	480-6660	**GUARD, FRONT AXLE** Provides additional protection to the front axle cylinders, lines, and fittings	0	$2,890
L	375-3410	**SOUND SUPPRESSION (BOTTOM)** Provides two metallic side panels on either side of the transmission guard, and panels on the front of the rear enclosure of the machine. This option prevents debris from accumulating on top of the guard and also suppresses sound to meet EU sound regulations. ONLY FOR USE WITH: 375-3408 GUARD, TRANSMISSION 369-1756 16M3 MOTOR GRADER INCLUDED IN: 386-1313 EUROPEAN ARRANGEMENT	315	$2,615

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

OTHER ATTACHMENTS

MOUNTS

L	**421-7812**	**MOUNTING, FOR WARNING LIGHT**	10	**$810**
		Provides the bracket for warning beacon light REQUIRED BY: 338-1132 LIGHT, LED WARNING STROBE		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

WORK TOOLS

WORK TOOLS

L	**441-4488**	**PUSH PLATE, COUNTERWEIGHT**	1,840	**$9,320**
			1,940	**$9,320 NI**

NOTE
NOT INSTALLED option is only for use with Miscellaneous orders using 0P-2977 16M3 MISC MATERIAL
Front mounted. Recommended when machine is equipped with rear ripper and other rear mounted attachments.
NOTE: This cannot be used in conjunction with any front lift work tools.

GROUND ENGAGING TOOLS

GROUND ENGAGING TOOLS

P	**8J-2189**	**TOOTH, STRAIGHT**	456	**$1,380**

NOTE
Also available for use with miscellaneous order for RIPPER-SCARIFIER, REAR using 0P-2977 16M3 MISC MATERIAL
Straight shank with one tooth each.
Order quantity of 1 = 1 tooth
RIPPER includes 3 - TOOTH, RIPPER and holds 7

USE	REF NO.	CUSTOM PRODUCTS	Ship Weight lbs	LIST PRICE AT DEALER

CUSTOM PRODUCTS

DCM

DCM may only be ordered as misc order using 0P-2977

L	**479-7656**	**DCM, COMPLETE,16M3**	12,300	**$130,350 NI**

LANE 3 ONLY
Complete Drawbar, Circle, and Mold board arrangement.
Includes:
- Drive group
- Drawbar
- Circle
- Moldboard with CUTTING EDGE,CURVED,16'BLADE

Ships Not Installed and requires a truck / rail car
Ships in crate with dimensions of 216"L X 90"W X 70"H
CANNOT BE USED WITH: 16M3 MOTOR GRADER (Machine order)

FIELD INSTALLED ATTACHMENTS

Please refer to the Caterpillar Work Tools Price List (WT-MG)
for Motor Grader work tools.

Available Through Parts Distribution

463-6258 **KIT, JOYSTICK,ADVANCED CONTROL**
Improves operational efficiency when utilizing ACCUGRADE or GRADE CONTROL X SLOPE.
Estimated install Hours: 2.5
Special Instructions: REHS8847

466-5233 **KIT, EXTENSIONS, MIRROR HEATED**
9" extension from Current Mirror, adds 2 additional mirrors 1 for front visibility and 1 rear visibility. Heated to keep free of ice and snow in cold weather
Estimated install Hours: 2

466-5255 **KIT, EXTENSIONS, MIRROR STD**
9" extension from Current Mirror, adds 2 additional mirrors, 1 for front visibility and 1 rear visibility
Estimated install Hours: 2

281-9455 **KIT,EXTEN.,BLADE,24"X27"X1"LH**
Left hand extension to be used for light maintenance work only. Extensions are of lighter construction than moldboard and using them as the leading edge in tough or rocky material may damage the extension.
Cannot be used with moldboard masts for accugrade.
Estimated install Hours: 2 hrs

456-4448 **KIT,EXTEN.,BLADE,24"X 27"X1"RH**
Right hand extension to be used for light maintenance work only. Extensions are of lighter construction than moldboard and using them as the leading edge in tough or rocky material may damage the extension.
Cannot be used with moldboard masts for accugrade.
Estimated install Hours: 2 hrs

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

PACKING

MACHINE PACKING (Must Select One)

0P-0251	**DOMESTIC TRUCK**	0	**NC**

ATTACHMENT PACKING

0P-8004	**BUNDLED, SPARE RIM** REQUIRED BY: 150-5144 RIM, 19.5" X 25" MP (SPARE)	0	**$275 NET**
0P-0210	**PACK, DOMESTIC TRUCK** Use for miscellaneous material orders.	0	**NC**

18M3 MOTOR GRADER
LITTLE ROCK, AR, USA (SAP)

	Ship Weight lbs	LIST PRICE AT DEALER

Standard Equipment:

POWERTRAIN
Air cleaner, dual stage dry type radial seal with service indicator through information display and automatic dust ejector
Air-to-air after cooler (ATAAC)
Demand fan, hydraulic
Drain, engine oil, high speed
Brakes, oil disc, four-wheel, hydraulic
Auto differential lock
Critically low fluid monitoring
Ok-to-Start
Consistent power to ground
Brake wear indicator
Ether starting aid
Sediment drain, fuel tank
Muffler, under hood (Tier 2/3 only)
Parking brake - multi disc, sealed, oil cooled

STARTERS, BATTERIES, & ALTERNATORS
Starter, electric, heavy duty
Batteries, maintenance free, HD 1400 CCA
Alternator, 150 ampere, sealed

ELECTRICAL
Electrical system, 24V

LIGHTS
Lights, reversing
Lights, roading, roof-mounted
Lights, stop and tail, LED

OPERATOR ENVIRONMENT
Air Conditioning with heater
Touch screen information display monitor coolant temp, engine RPM, and hydraulic oil temp)
Joystick, adjustable armrests, electric
Joystick gear selection
Joystick hydraulic controls, (right/ left blade lift with float position, blade side shift and tip, circle drive, center shift, front wheel lean and articulation and steering)
Joystick hydraulic power steering
Ladders, cab, left and right side
Rearview camera
Mirror, inside rearview, wide angle
Power port, 12V
Radio ready, entertainment
ROPS cab, sound suppressed less than 73 dB(A)
ISO 6394 (70% fan speed)
Storage compartments
Coat hook
Seat, cloth-covered, comfort suspension
Seat belt, retractable 76 mm (3")
Seatbelt indicator
Windows laminated glass:
-Fixed front with intermittent wiper
-Door with intermittent wipers (3)
Windows tempered:
-Left and right side wipers
-Rear with intermittent wiper

TECHNOLOGY PRODUCTS
Grade control cross slope
Product link ready

SAFETY AND SECURITY
Fire suppression ready
Ground level engine shutdown
Hammer (emergency exit)
Air horn
Alarm, back-up

FUEL SYSTEMS
Metallic fuel tank, 131 gallon (496 L)
Fast fill 567 liters (150 gallons) per minute

COOLING
Modular cooling package
Doors, 2 cooling core cleanouts, left and right

TIRES, RIMS, AND WHEELS
A partial allowance of 1600lbs for tires on 495.3mm x 635mm (19.5" x 25") multi-piece rims is included in the base machine weight and price

GUARDS
Transmission guard
Axle guard

GROUND ENGAGING TOOLS
Rear ripper

OTHER STANDARD EQUIPMENT
Push plate, counterweight
Accumulators, blade lift
Doors, 4 engine compartment, (two left hand, two right hand) locking
Doors, 2 service, left and right
Top Adjust circle wear strips
End bits, 16mm (5/8") DH-2 steel, 19mm (3/4") mounting bolts
Rear tandem access steps & hand bars

18M3 MOTOR GRADER
LITTLE ROCK, AR, USA (SAP)

	Ship Weight lbs	LIST PRICE AT DEALER

OTHER STANDARD EQUIPMENT (CONT.)

Hydraulics, base 8 with 1 additional hydraulic valve
Hydraulics, load-sensing

18M3 MOTOR GRADER
LITTLE ROCK, AR, USA (SAP)

	Ship Weight lbs	LIST PRICE AT DEALER

Lane 2 is reserved for the Base Order Management program.
Please use Lane 2 when placing orders that are part of the Base Order Management program

18M3 MOTOR GRADER
LITTLE ROCK, AR, USA (SAP)

		Ship Weight lbs	LIST PRICE AT DEALER
473-3363	**18M3 MOTOR GRADER**	64,454	**$1,207,030**
	LANE 2 - AVAILABLE FROM NORTH LITTLE ROCK FACTORY LANE 3 - AVAILABLE FROM NORTH LITTLE ROCK FACTORY		
	AVAILABLE FOR: U.S. Dealers Canadian Dealers EU Dealers Japan Dealers		
0P-3904	**18M3 MISC MATERIAL NLR**	0	**NC**
	AVAILABLE FROM NORTH LITTLE ROCK FACTORY		

Only reference numbers that have the text
"ALSO AVAILABLE ON A MISCELLANOUS ORDER" can be used on a MISC order.

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

LANE SELECTION

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	0P-9002	**LANE 2 ORDER**	0	NC
		Only for dealers enrolled in the Base Orders Management (BOM) program.		
	0P-9003	**LANE 3 ORDER**	0	NC

PERFORMANCE PACKAGES

MOLDBOARDS

L	474-8904	**MOLDBOARD, 18' FLAT EDGE**	0	NC
		INCLUDES: - Moldboard 18' x 27" x 1" (5486mm x 686mm x 25mm) - 10" x 1 3/8" (254mm x 35mm) cutting edge. - For 3/4" (19mm) mounting bolts - End bits, standard, without overlay		
L	474-8903	**MOLDBOARD, 18 FT CURVED EDGE**	0	$-1,445
		INCLUDES: - Moldboard 18' x 27" x 1" (5486mm x 686mm x 25mm) - Curved cutting edge, 8" x 1" (203mm x 25mm) - For 3/4" (19mm) mounting bolts - End bits, standard, without overlay		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

PERFORMANCE PACKAGES (CONT.)

WEATHER/OIL PACKAGES

L	251-1201	OIL, HYDRAULIC	0	NC
L	390-2819	WEATHER, COLD PLUS Recommended for year around use when typical ambient temperature range is -40C (-40F) to 40C (104F) or operating at altitude above 1220 m (4000 feet). Includes: - Covers, Screen - Oil, Hydraulic, Cold, 0W REQUIRES: One of the options listed below: 498-8770 HEATER, ENGINE COOLANT, 120V (as available) 498-8769 HEATER, ENGINE COOLANT, 120V (as available) 488-9612 HEATER, ENGINE COOLANT, 240V (as available)	24	$2,615

HYDRUALIC LINES

L	366-6151	LINES, GP Provides hydraulic lines for base functions.	0	NC
L	386-4105	CONTROL, BLADE, VARIABLE FLOAT Allows operator to control the amount of down force the blade has in float mode.	20	$13,700

ACCUMULATORS

L	391-3804	ACCUMULATORS, BRAKE & BLADE. Accumulators for brakes and blade lift functions Allows approximately 1-3" of vertical blade travel CANNOT BE USED WITH: EU Dealers	0	NC
L	479-3361	ACCUMULATORS, BRK&BLD, ARCTIC. Accumulators for brakes and blade lift functions Allows approximately 1-3" of vertical blade travel Provides functionality for brake accumulators for ambient conditions to -40C. CANNOT BE USED WITH: EU Dealers	20	NC

AUTOLUBE

L	366-6152	LINES, GREASE	0	NC
L	479-1625	AUTOLUBE,CENTRO-MATIC COMPLETE Provides a LINCOLN INDUSTRIAL CORP. "CENTRO-MATIC" automated lubrication system. The system utilizes a Hydraulic pump, SL-V injectors and a 40 lb. reservoir. Provides for an adjustable timer to dispense grease at a predetermined interval to all MG lubrication points; eliminates manual lubrication, extends component life and reduces downtime. Includes Ripper Enhancement feature	25	$19,690

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS

NOTE: Optional Control Locations

Caterpillar offers many attachment hydraulic controls to operate work tools. Depending on which hydraulic part number is selected, the operating electro-hydraulic switches may include the auxiliary pod, mini-joystick located on the auxiliary pod, and/or the ripper control pod.

```
INDEX =  Index Finger (front lift)(float capability)
MID   =  Middle Finger(dozer angle 1)
RING  =  Ring Finger (dozer angle 2)
LITTLE=  Little Finger (float capability)
```

NOTE: Mini-Joystick

```
                 Fore/Aft
                     .
                    / \
                     |
                <--------->  Left/Right (float capability)
                     |
                    \ /
```

NOTE: Ripper Control Pod

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RH1   =  Front Lift (float capability)
RH2   =  Ripper-Scarifier Control
RHD   =  Ripper Handle Dual Switch (RH1 & RH2)
```

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

NOTE: Common Functions

COMMON FUNCTIONS:

Base = 8 functions: right and left blade lift, circle turn, drawbar center shift, blade side shift, blade tip, front wheel lean, frame articulation.

```
     FL      = Front Lift (moves front work tools up/down)
     DA1     = Dozer Angle 1 (angles front blade left OR right)
     DA2     = Dozer Angle 2 (angles front blade left AND right)
     RIP     = Rear Mounted Ripper (moves ripper up/down)
     AUX     = Auxiliary
     WM      = Wing Mast
     WT      = Wing Tilt
     Float   = Built-in feature of valve section that opens both the
               work ports to tank.  The external forces (weight of the
               implement) allows free movement of the implement.
     Flow Rate=Provides maximum rate of fluid flow from the specific
               work port.  B/A represents the maximum flow rate in
               Port B/Port A* in LPM (liters per minute).
*NOTE: Each valve section has two work ports (Port A and Port B).
    Port A:  Used to either raise implement or move implement to the
    right or for clockwise rotation of the implement.
    Port B:  Used to either lower implement or move implement to the
    left or for counter-clockwise rotation of the implement.
```

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

HYDRAULIC VALVE LOCATIONS

Part Number	MINI-JOYSTICK Front Aft	MINI-JOYSTICK Left/ Right Float	AUXILIARY POD Index with Float	AUXILIARY POD Mid	AUXILIARY POD Ring	AUXILIARY POD Little	RIPPER POD RH1	RIPPER POD RH2
385-7554								RIPPER
Float:								N
Flow rate:								72/72
385-7557								
FOR USE WITH LANE 3 ONLY								
	MAST	TILT	FR LIFT	DA1				RIPPER
Float:	N	N	Y	N				N
Flow rate:	72/72	41/30	46/60	72/72				72/72

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

HYDRAULIC PART NUMBERS

L	385-7554	**HYD-BS + 1, RIP.**	16	$2,285
		Ripper function. INCLUDES: Ripper Lines.		

HYDRAULIC VALVE LOCATIONS LANE 3 ONLY

L	385-7557	**HYD-BS + 5, WM,WT,DA1,FL,RIP**	100	$11,700
		FOR USE WITH LANE 3 ONLY Ripper, Front Lift, snow Wing Mast, snow Wing Tilt NO FLOAT, and Dozer Angle 1 functions.		

ELECTRICAL

ROADING LIGHTS

L	390-2797	**LIGHTS, ROADING, HALOGEN**	0	NC
		Provides two front HALOGEN working lights (5 x 5) and six halogen cab roof mounted roading lights (3 x 3). CANNOT BE USED WITH: HEADLIGHTS, FRONT, LOW, LED HEADLIGHTS, FRONT, HIGH, LED		
L	390-2798	**LIGHTS, ROADING, LED**	34	$8,610
		Provides two front LED working lights (4x4) and six LED cab roof mounted roading lights (4x4). CANNOT BE USED WITH: HEADLIGHTS,FRONT, LOW, HALOGEN HEADLIGHTS,FRONT, HIGH,HALOGEN		

REAR BRAKE LIGHTS

L	479-6065	**LIGHTS,BRAKE & BACK UP**	0	NC
		Provides stationary rear brake lights along with the back-up lights. Does not include front headlights or turn signals CANNOT BE USED WITH: FRONT HEADLIGHTS REQUIRED BY: FIRE SUPPRESSION READY		
L	549-9137	**LIGHTS**	0	$1,470
		Provides stationary rear brake lights along with the back-up lights, dimmer switch for road lighting, drop-down stop, tail, and rear turn signals and back-up lights. REQUIRES: FRONT HEADLIGHTS (High/Low)/(Halogen/LED) REQUIRED BY: FIRE SUPPRESSION READY EUROPEAN ARRANGEMENT		

LIGHTING

L	459-1706	**LIGHTS, SERVICE, INTERNAL**	5	$540
		Provides two lights operated by a single manual switch located in the rear enclosure. One light illuminates the engine compartment and the second light illuminates the hydraulic level sight gauge. ONLY FOR USE WITH: 473-3363 18M3 MOTOR GRADER CANNOT BE USED WITH: EU DEALERS		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

OPERATOR ENVIRONMENT

ACCESS

L	375-3405	**LADDER, LEFT & RIGHT HAND SIDE**	0	NC
		Standard left and right hand side ladders REQUIRES: DECALS, LANYARD ANCHOR POINT 521-6198 or 521-6202		
L	375-3406	**PLATFORM, LADDER LHS & RHS**	280	$11,560
		Provides window cleaning platform and two ladders. Ladders are on each side of the cab REQUIRES: DECALS, LANYARD ANCHOR POINT 521-6198 or 521-6202		
L	375-3407	**PLATFORM, ENHANCED ACCESS**	1,655	$69,170
		LANE 3 ONLY Safety compliant access provides wrap around cab platform with left & right rear enclosure walkways, left walkway lighting, rear fenders, rear ladders, right front cab emergency egress ladder. Improved serviceability and window cleaning access. Highly recommended for mining applications This access platform was designed following the principles of the EMESRT guidelines. Note: Use of GradeControl Masts will limit mold board range of motion Includes: Typical Mirror Arrangement ** NOT RECOMMENDED FOR USE WITH TIRE CHAINS. CANNOT BE USED WITH: 233-3295 MIRRORS, OUTSIDE MOUNTED 421-7813 MIRRORS, OUTSIDE HEATED 24V 351-4490 MIRRORS, HIGH VISIBILITY 375-3402 FENDERS, REAR		
L	462-6400	**PLATFORM, SERVICE ACCESS**	830	$34,590
		LANE 3 ONLY Safety compliant access provides left & right rear enclosure walkways, left walkway lighting, rear fenders, rear ladders. Improved serviceability . This access platform was designed following the principles of the EMREST guidelines. ** NOT RECOMMENDED FOR USE WITH TIRE CHAINS. CANNOT BE USED WITH: 375-3402 FENDERS, REAR		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

OPERATOR ENVIRONMENT (CONT.)

CAB EXTERIOR

L	386-1309	**DOOR, STANDARD**	0	NC
		CANNOT BE USED WITH: 375-3407 PLATFORM, ENHANCED ACCESS		
L	386-1310	**DOOR, PLATFORM**	0	NC
		Door has foot operated latch for use with the large mining platform		
		ONLY FOR USE WITH: 375-3407 PLATFORM, ENHANCED ACCESS		
L	386-1311	**DOOR, HEATED GLASS**	0	$1,890
		Right door and front windshield are heated for anti-icing		
		CANNOT BE USED WITH: 375-3407 PLATFORM, ENHANCED ACCESS		
L	442-8722	**DOOR, PLATFORM, HEATED**	0	$1,890
		Right door and front windshield are heated for anti-icing		
		Doors have foot operated latch for use with the large mining platform		
		ONLY FOR USE WITH: 375-3407 PLATFORM, ENHANCED ACCESS		

CAB INTERIOR

L	391-5182	**SEAT, STANDARD**	0	NC
		- Seat, air suspension, cloth		
L	385-8713	**SEAT, HEATED**	0	$525
		- Seat, air suspension, cloth		
		- Heated		
L	385-8714	**SEAT, VENTILATED + HEATED**	0	$2,445
		- Seat, air suspension, cloth		
		- Heated		
		- Fan forced ventilation		

DISPLAY OPTIONS

L	442-4478	**INFORMATION DISPLAY, STANDARD**	0	NC
		Touch screen display monitor for machine monitoring,		
		displays rear camera view when machine is in reverse.		
L	447-2229	**MONITOR, CAMERA, DEDICATED**	0	$2,175
		Includes INFORMATION DISPLAY, STANDARD plus an additional		
		camera display monitor located above the rear view mirror		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

TECHNOLOGY PRODUCTS

PRODUCT LINK

Product Link enables the remote transmission of information about the location, operation, and condition of your equipment. Efficiently and effectively monitor the performance of your assets to help keep your jobs on schedule, maintain equipment condition, and reduce the costs of owning and operating your fleet. Availability varies by country - please reference https://Dealer.cat.com/PL/Certification for certified countries. Please contact your Caterpillar marketing representative with questions.

L	464-2500	**VIMS & CELL PROD LINK, PLE641**	0	**NC**
		This single attachment supports activation of VIMS and/or cellular Product Link. VIMS provides historical trends, histograms, events and more through a wired connection for off-board analysis in applications including VIMS PC. The VIMS on-board system also includes a port for wireless transmission with the most widely-used radio and cellular broadband systems. Product Link Elite series PLE641 offers expanded coverage including 3G UMTS and CDMA2000 as well as 2G GSM and CDMA cellular networks to transmit location, utilization and condition information for viewing in Product Link's remote monitoring web interface. Cellular technology provides capabilities for frequent transmission and larger volumes of data.		
L	464-2510	**VIMS & SAT PROD LINK, PLE631**	0	**$432**
		This single attachment supports activation of VIMS and/or satellite Product Link. VIMS provides historical trends, histograms, events and more through a wired connection for off-board analysis in applications including VIMS PC. The VIMS on-board system also includes a port for wireless transmission with the most widely-used radio and cellular broadband systems. Product link Elite series PLE631 uses a satellite network to transmit location, utilization and condition information for viewing in Product Link's remote monitoring web interface. For use in areas with poor or no cellular coverage.		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

TIRES, RIMS, AND WHEELS

Tires listed below include a set of six tires.

****To calculate tire loads with machine attachments, please reference the MG Tire Selection Pocket Guide (media #AEXQ0182), available on the Electronic Sales Library.
All tire selections should be made with consideration for planned machine attachments (OEM and aftermarket) and their additional weight. Each tire has a maximum load rating that is not to be exceeded. The tire selection should be based on the maximum of all tire position loads on the machine. Assistance for calculating the highest tire load can be found in the Tire Load Worksheet in the back of the Caterpillar Motor Graders Tire Selection Pocket Guide. Failure to abide by the load ratings of the tires without first consulting the local tire supplier representative could result in nullification of the tire warranty.**

Due to the worldwide tire shortage of Off-The-Road tires, Caterpillar has had to change the tires that are offered for Motor Graders. Caterpillar fully understands that many tenders may require a certain tire; however the factory can only supply tires that are available from the tire manufacturers. During this shortage, you may be required to change to an alternative tire.

The information provided can be used to make a tire selection based on the particular conditions at the site. When available, the tire manufacturer should be consulted regarding proper tire selection.

Bridgestone

L	196-4928	**TIRES,23.5R25 BS VKT ** L3 MP**	5,396	**$2,800**
		Bridgestone VKT 2* radial (E3) on 19.5" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (17154 lbs) 7781 kg.**		
L	310-7336	**TIRES, 23.5R25 BS VUT * L2 MP**	5,420	**$-1,250**
		Bridgestone VKT 1* radial (G2) on 19.5" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (13230 lbs) 6000 kg.**		
L	435-7972	**TIRES, 23.5R25 BS VJT * L3 MP**	2,613	**$2,930**
		Bridgestone VJT 1* radial (L3) on 19.5" x 25" multi-piece rim. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (13230 lbs) 6000 kg.**		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

TIRES, RIMS, AND WHEELS (CONT.)

Michelin

L	256-3325	**TIRES,23.5R25 MX XLDD2 * L5 MP**	2,600	**$48,350**
		Michelin XLDD2 1* radial (L5) on 19.5" x 25" multi-piece rim. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (13230 lbs) 6000 kg.**		
L	152-3988	**TIRES,23.5R25 MX XHA2 * L3 MP**	5,304	**$8,820**
		Michelin XHA2 1* radial (L3) on 19.5" x 25" multi-piece rim. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (13230 lbs) 6000 kg.**		

FLUIDS

ANTIFREEZE

L	473-3369	**COOLANT, 50/50, -35C (-31F)**	0	**NC**
		Standard engine coolant		
L	473-3370	**COOLANT, 60/40, -51C (-60F)**	0	**$197 NET**
		Engine coolant recommended for extreme low temperatures		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

DOCUMENTATION

MACHINE DOCUMENTATION

LANGUAGES FOR DECAL PACKAGES, AND PUBLICATIONS
NOTE: This part number will provide the language for
Statement of Conformity

L	**386-1254**	**LANGUAGE, ENGLISH**	0	**NC**

DECAL PACKAGES

Note:This part number will provide the films in ANSI
or ISO Pictograms.
The word "WARNING" is on picto decals for ANSI.
Symbols only are on picto decals for ISO.

L	**433-5817**	**DECALS, ENGLISH (U.S.)**	0	**NC**
		Provides decals as required by ANSI.		

USE	REF NO.	LANE 2 / 3 OPTIONAL	Ship Weight lbs	LIST PRICE AT DEALER

FEATURE PACKAGES

COMFORT PACKAGE

Bluetooth radio technology enables the use of a hands free function such as listening to music and making phone calls.
Authorization varies by country, please contact your Cat marketing representative with questions or click on the link below:
https://dealer.cat.com/en/products/technology.html

L	450-1651	**COMFORT PACKAGE-1**	23	$2,735
		Available to countries with Bluetooth certification. Please contact your Cat marketing representative if you have questions. INCLUDES: - Radio,12V, AM/FM, Bluetooth, Weather band, USB, Aux Input - Sun Shade, Rear - Defrost Fan - Converter, 12Amp/12V, communication (CB)		
L	450-1652	**COMFORT PACKAGE-2**	21	$3,375
		Available to countries with Bluetooth certification. Please contact your Cat marketing representative if you have questions. INCLUDES: - Radio, 12V, AM/FM/CD, Bluetooth Mic, Weather band, USB, Aux Input, Remote XM/Sirius Satellite - Sun Shade, Rear - Defrost Fan - Converter, 12Amp/12V, communication (CB)		

LIGHTING PACKAGES

L	370-8503	**LIGHTS, WORKING, HALOGEN**	26	$1,995
		INCLUDES: - Lights, work, heel 5x5 - Lights, work, mid-frame toe 5x5 - Lights, ripper, 5x5 - Lights, work, tandem, 5x5		
L	370-8504	**LIGHTS, WORKING, LED**	54	$9,830
		FOR USE WITH LANE 3 ONLY INCLUDES: - Lights, work, heel LED 4x4 - Lights, work, mid-frame toe LED 4x4 - Lights, ripper LED 4x4 - Lights, work, tandem LED 4x4		

POWERTRAIN

STARTING AIDS

L	498-8770	**HEATER, ENGINE COOLANT 120V**	0	$256
		FOR USE WITH LANE 3 ONLY Engine coolant heater for 120 volt external power source. *Recommended for Snow Removal		

USE	REF NO.	LANE 2 / 3 OPTIONAL	Ship Weight lbs	LIST PRICE AT DEALER

ELECTRICAL

LIGHTING

L	338-1132	**LIGHT, LED WARNING STROBE**	5	$605 NI
		Amber high-speed strobe beacon. REQUIRES: 421-7812 MOUNTING, FOR WARNING LIGHT		

FRONT HEADLIGHTS

L	260-1910	**HEADLIGHTS,FRONT, LOW, HALOGEN**	42	$1,060
		Provides low bar HALOGEN headlights with front turn signals, dimmer switch for road lighting, drop-down stop, tail, and rear turn signals and back-up lights. CANNOT BE USED WITH: ANY LED LIGHTING OPTION REQUIRED BY: LIGHTS,ARM, FOLD DOWN		
L	260-1909	**HEADLIGHTS,FRONT, HIGH,HALOGEN**	10	$865
		Provides high bar HALOGEN headlights with front turn signals, dimmer switch for road lighting, drop-down stop, tail, and rear turn signals and back-up lights. REQUIRED BY: LIGHTS,ARM, FOLD DOWN		
L	553-2586	**HEADLIGHTS, FRONT, LOW, LED**	0	$1,860
		Provides low bar LED headlights with front turn signals, dimmer switch for road lighting, drop-down stop, tail, and rear turn signals and back-up lights. CANNOT BE USED WITH: ANY HALOGEN LIGHTING OPTION REQUIRED BY: LIGHTS,ARM, FOLD DOWN		
L	553-2587	**HEADLIGHTS, FRONT, HIGH, LED**	0	$1,420
		Provides high bar LED headlights with front turn signals, dimmer switch for road lighting, drop-down stop, tail, and rear turn signals and back-up lights. CANNOT BE USED WITH: ANY HALOGEN LIGHTING OPTION REQUIRED BY: LIGHTS,ARM, FOLD DOWN		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

OPERATOR ENVIRONMENT

MIRRORS

L	233-3295	**MIRRORS, OUTSIDE MOUNTED**	32	$495
		Provides two convex mirrors for outside mounting on the left and right cab grab irons. NOTE: The mirrors are wrapped in bubble wrap and rotated toward the doors for protection during shipment. CANNOT BE USED WITH: 470-0021 EUROPEAN ARRANGEMENT INCLUDED IN: 375-3407 PLATFORM, ENHANCED ACCESS		
L	421-7813	**MIRRORS, OUTSIDE HEATED 24V**	0	$750
		Provides mirrors with a 24V heating element to keep mirrors ice free in cold weather operations. NOTE: The mirrors are wrapped in bubble wrap and rotated toward the doors for protection during shipment. CANNOT BE USED WITH: 375-3407 PLATFORM, ENHANCED ACCESS 470-0021 EUROPEAN ARRANGEMENT		
L	351-4490	**MIRRORS, HIGH VISIBILITY**	30	$1,605
		Provides increased visibility surrounding the machine, including views to the left and right front and rear of the machine. Conforms to ISO 5006:2006 compliant standards. INCLUDES: -Left and Right side Standard Rearview Mirrors -Left and Right side Circular Convex Mirrors -Left and Right side Front View Convex Mirrors CANNOT BE USED WITH: 375-3407 PLATFORM, ENHANCED ACCESS INCLUDED IN: 470-0021 EUROPEAN ARRANGEMENT		

TECHNOLOGY PRODUCTS

L	214-2470	**TRANSMISSION, AUTOSHIFT, JOY**	5	$4,020
		Improves ease of operation and maximizes productivity by automatically shifting the transmission at optimal shift points.		
L	448-4908	**MINESTAR READY**	0	$6,010
		Allows the Motor Grader to be equipped with MineStar Fleet and Proximity Awareness machine kit. Provides Display Mounting, Ethernet Switch, MS352, GPS antenna, coaxial cables, and harness with radio connector		

CONTROL AUTO ARTICULATION

L	483-2355	**CONTROL,AUTO ARTICULATION-DEMO**	0	NC
		500 machine hour demo. Improves ease of operation, increases maneuverability and maximizes productivity by automatically matching articulation angle to steering angle. 3 modes; off / forward / both forward and reverse.		
L	448-1293	**CONTROL,AUTO ARTICULATION-FULL**	0	$1,810
		Improves ease of operation, increases maneuverability and maximizes productivity by automatically matching articulation angle to steering angle. Includes 3 position rocker switch enabling 3 modes; off / forward / both forward and reverse.		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

SAFETY AND SECURITY

SAFETY

L	**521-6198**	**DECALS, LANYARD ANCHOR POINT**	0	**NC**
		ANSI decal marking location of safety lanyard anchor points located on the rear enclosure ONLY FOR USE WITH: 375-3405 LADDER, LEFT & RIGHT HAND SIDE 375-3406 PLATFORM, LADDER LHS & RHS		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

SAFETY AND SECURITY (CONT.)

SECURITY

L	**393-6335**	**SECURITY SYSTEM, MACHINE**	10	**$720**

FOR USE IN LANE 3 ONLY
Provides a programmable system to manage access to the machine using special MSS keys. Deters theft, vandalism, and unauthorized use. Programmable features allow the following:
* limits operators to selected machines
* controls the days and hours equipment may be started
* controls access by untrained operators or personnel
ONLY FOR USE WITH: 473-3363 18M3 MOTOR GRADER

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

SAFETY AND SECURITY (CONT.)

FIRE SUPPRESSION

Machine has provisions for fire suppression capabilities.
- Mounting location on left rear for remote manual actuator
- Mounting location on exterior of upper rear enclosure for pressure canisters
- Knock-outs for routing hoses through hood and cab
- Mounting points for nozzles on interior of rear enclosure
- Machine wire harness will integrate with fire suppression controller machine shutdown

Base 18M3 is FIRE SUPPRESSION READY
- Universal tank mounting bracket; holds two Ansul LVS10's (or similar) in a horizontal position or two Ansul LTA 101's (or similar) in a vertical position.
- Mounting plates in cab for manual actuator and fire suppression controller.

NOTE Tanks nor controller included

L	508-8136	**FIRE SUPPRESSION, FULL INSTALL**	0	$36,440

Factory installed ANSUL Liquid Vehicle System fire suppression. System includes two 10 gallon tanks, engineered lines routing with 16 nozzle locations, ground level actuation switch, cab mounted actuation switch and control module.

** NOTE **
Full installation is hardware only. The fire suppression system is empty and not pressurized.

NOTE: A local ANSUL distributor must complete the installation and certify the system with the ANSUL Liquid Vehicle System (LVS) liquid agent and two pressure cartridges. ANSUL LVS liquid agent has operating temperature of -40 to 60 degree Celsius or -40 (140F). Please refer to Factory Installed Fire Suppression System for Cat D10T2, D11T, 777G, 16M3, 18M3 and 24 Salesgram (Media number: TEKQ1341) for more ordering and commissioning details prior to ordering.
ONLY FOR USE WITH: 473-3363 18M3 MOTOR GRADER

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

TIRES, RIMS, AND WHEELS

SPARE RIMS

L	150-5144	**RIM, 19.5" X 25" MP (SPARE)**	320	$2,595 NI
		NOTE Option is also available with a Miscellaneous order using 0P-3904 18M3 MISC MATERIALNLR REQUIRES: 0P-8004 BUNDLED, SPARE RIM ONLY FOR USE WITH: 23.5" x 25" tire.		

GUARDS

GUARDS

L	375-3402	**FENDERS, REAR**	1,150	$11,860
		Provides metallic rear fenders to aid in reducing the build-up of mud, snow, or debris. ** NOT RECOMMENDED FOR USE WITH TIRE CHAINS. CANNOT BE USED WITH: 375-3407 PLATFORM, ENHANCED ACCESS 462-6400 PLATFORM, SERVICE ACCESS		
L	386-1982	**GUARD, DEBRIS**	20	$945
		Provides a shield that is designed to minimize debris from entering the cooling package.		
L	375-3410	**SOUND SUPPRESSION (BOTTOM)**	315	$2,615
		Provides two metallic side panels on either side of the transmission guard, and panels on the front of the rear enclosure of the machine. This option prevents debris from accumulating on top of the guard and also suppresses sound to meet EU sound regulations. ONLY FOR USE WITH: 473-3363 18M3 MOTOR GRADER INCLUDED IN: 470-0021 EUROPEAN ARRANGEMENT		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

OTHER ATTACHMENTS

MOUNTS

L	**421-7812**	**MOUNTING, FOR WARNING LIGHT**	10	**$810**
		Provides the bracket for warning beacon light REQUIRED BY: 338-1132 LIGHT, LED WARNING STROBE		

GROUND ENGAGING TOOLS

GROUND ENGAGING TOOLS

P	**8J-2189**	**TOOTH, STRAIGHT**	456	**$1,380**
		Straight shank with one tooth each. Order quantity of 1 = 1 tooth RIPPER includes 3 - TOOTH, RIPPER and holds 7		

USE	REF NO.	CUSTOM PRODUCTS	Ship Weight lbs	LIST PRICE AT DEALER

CUSTOM PRODUCTS

DCM

DCM may only be ordered as misc order using 0P-3904

L	**479-7657**	**DCM, COMPLETE,18M3**	12,300	**$136,850 NI**
		LANE 3 ONLY Complete Drawbar, Circle, and Mold board arrangement. Includes: - Drive group - Drawbar - Circle - Moldboard with CUTTING EDGE,CURVED,18' BLADE Ships Not Installed and requires a truck / rail car Ships in crate with dimensions of 240"L X 90"W X 70"H CANNOT BE USED WITH: 18M3 MOTOR GRADER (Machine order)		

FIELD INSTALLED ATTACHMENTS

Please refer to the Caterpillar Work Tools Price List (WT-MG)
for Motor Grader work tools.

Available Through Parts Distribution

463-6258	**KIT, JOYSTICK,ADVANCED CONTROL** Improves operational efficiency when utilizing ACCUGRADE or GRADE CONTROL X SLOPE. Estimated install Hours: 2.5 Special Instructions: REHS8847		
466-5233	**KIT, EXTENSIONS, MIRROR HEATED** 9" extension from Current Mirror, adds 2 additional mirrors 1 for front visibility and 1 rear visibility. Heated to keep free of ice and snow in cold weather Estimated install Hours: 2		
466-5255	**KIT, EXTENSIONS, MIRROR STD** 9" extension from Current Mirror, adds 2 additional mirrors, 1 for front visibility and 1 rear visibility Estimated install Hours: 2		

PACKING

MACHINE PACKING (Must Select One)

0P-0251	**DOMESTIC TRUCK**	0	**NC**

ATTACHMENT PACKING

0P-8004	**BUNDLED, SPARE RIM** REQUIRED BY: 150-5144 RIM, 19.5" X 25" MP (SPARE)	0	**$275 NET**
0P-0210	**PACK, DOMESTIC TRUCK** Use for miscellaneous material orders.	0	**NC**

24 MOTOR GRADER
DECATUR, IL, USA

	Ship Weight lbs	LIST PRICE AT FACTORY

Standard Equipment:

POWERTRAIN

Engine:
-C27 with ACERT technology
-24-volt electric start
Air filters, dual with precleaner automatic dust ejector
Aftercoolers, air-to-air
Ether starting aid
Automatic fan, suction with hydraulic demand
Drive, near zero fan speed
Torque divider, lock-up
Transmission, 533mm (21in) planetary powershift with 6F/3R, ECPC
Enhanced auto-shift, APECS
Directional shift management
Differential, lock/unlock (auto/manual)
Parking brake, multi-disc, sealed and oil cooled
Fast fill (fuel, hydraulic, transmission, coolant)
Fuel priming pump, electric
Electronic Prescreener water/fuel
Prescreener Separator, water/fuel
Thermal shields
Fluid monitoring (engine, transmission, hydraulic, differential)

ELECTRICAL

Alarm, back-up
Alternator, 150 ampere, sealed, filtered air intake
Batteries, 12V (4), 200 amp-hour maintenance free
Starter (2), heavy duty
Electrical hydraulic valves, base 8
Electrical system, 24 volt
Lights, reversing, stop, tail, turn
Starter, receptacle, plug-in

OPERATOR ENVIRONMENT

Air conditioner & heater sound suppressed, pressurized cab 73dB(A) ISO 6394 at 70% fan speed.
Rollover protective structure (ROPS/ FOPS)
Radio ready for (entertainment) includes antenna, speakers, and a 12V converter
Armrest, adjustable
Electro-Hydraulic controls
Throttle control, electronic
Articulation, automatic return to center
Information Display, 10inch digital touch screen
Camera, rear vision
Coat hook
Seat, cloth-covered, comfort suspension
Windows: front laminated glass
-fixed front with intermittent wiper, sides (2), rear with wiper/washer
Seat belt, retractable, 76mm (3")
Lockout, hydraulic implement for roading and servicing

TECHNOLOGY PRODUCTS

VIMS -3G
Grade control X slope
Overspeed/Underspeed protection
Second generation steering system
Ripper auto stow
Circle angle limits

SAFETY AND SECURITY

Fire suppression ready
Clutch, circle drive slip
Doors, locking
Ground level engine shutdown
Secondary steering
Working at heights tie-off anchors
Rear Tandem access platforms
Seatbelt indicator

GROUND ENGAGING TOOLS

Moldboard, 24' X 42" X 2" (7315mm X 1067mm X 50mm)
Ripper, rear, 7 shank capacity, 3 shanks/tips provided

OTHER STANDARD EQUIPMENT

Accumulators, blade lift
Autolube, Lincoln Centro-Matic
Drawbar, 8 shoe with replaceable wear strips
Fuel tank, 240 gallon (908 L) fast fill
Ground level fueling
Push plate-counterweight
SOS ports, engine, hydraulic, transmission, coolant, fuel
Hydraulic and Electric Bulkheads
Fluid service center: engine, transmission,hydraulic oil, and coolant ports

24 MOTOR GRADER
DECATUR, IL, USA

		Ship Weight lbs	LIST PRICE AT FACTORY
480-4163	**24-14A MOTOR GRADER**	0	**
	LANE 3 - AVAILABLE FROM DECATUR FACTORY Includes: Tier 4 Engine NOTE: Meets ISO 5006 visibility requirements ONLY when equipped with: 536-0780 VISIBILITY ARR, CAB, FR CAMERA and 138-0727 or 487-9647 OUTSIDE MIRRORS		
0P-2860	**24M MISC MATL DECATUR**	0	**NC**
	AVAILABLE FROM DECATUR FACTORY		

Only reference numbers that have the text
"ALSO AVAILABLE ON A MISCELLANEOUS ORDER" can be used on a MISC order.

USE	REF NO.	LANE 3 MANDATORY	Ship Weight lbs	LIST PRICE AT FACTORY

LANE SELECTION

	0P-9003	**LANE 3 ORDER**	0	NC
		YOUR ORDER WILL BE LANE 3, NO OTHER OPTIONS ARE CURRENTLY AVAILABLE		

REGIONAL PACKAGES

L	510-0705	**GLOBAL ARRANGEMENT**	0	NC
		Provides standard brake accumulators.		
		CANNOT BE USED WITH: AUSTRALIAN / NZ DEALERS EU DEALERS		

PERFORMANCE PACKAGES

WEATHER/OIL

L	526-7449	**OIL, HYDRAULIC**	0	NC
L	468-3506	**COLD WEATHER PACKAGE (ANSI)**	0	$11,230
		Recommended for year round use when typical ambient temperature range is -40 to 40 degrees C (-40 to 104 degrees F) or in operating altitude above 1220m (4000 feet).		
		Includes: -OIL, HYDRAULIC - ARCTIC -ENGINE, HYDRAULIC, TRANSMISSION AND COOLANT HEATER (240V/30A) -FILMS, ANSI and 240vl Cooler		
		ONLY FOR USE WITH: 480-4163 24-14A MOTOR GRADER		

GROUND ENGAGING TOOLS

L	551-4002	**CUTTING EDGE, 16" X 2.36" FLAT**	0	$6,830
		(406mm x 60mm) Flat Cutting Edge		
		4' (1.22m) long (6x installed)		
		Flat, solid edge, thicker & through hardened for longer life, but less penetration than thinner edges.		
		Recommended for regular and/or muddy haul road maintenance.		
L	551-4003	**CUTTING EDGE, 16" X 2.95" SERR**	0	$9,380
		(406mm x 75mm) Serrated Cutting Edge		
		8' (2.4m) long (3x installed)		
		Serrated edge, thickest available with through hardening for longer life. Longer length for faster replacement. Sixteen 95mm wide teeth edge, allowing for 57mm aggregate pass through.		
		Recommended for hard/frozen haul road maintenance or forming ruts for traction.		

USE	REF NO.	LANE 3 MANDATORY	Ship Weight lbs	LIST PRICE AT FACTORY

PERFORMANCE PACKAGES (CONT.)

GROUND ENGAGING TOOLS (Cont.)

L	551-4004	**CUTTING EDGE,MININGBIT(TM) SYS**	0	$51,000
		14" (355.6mm) X 2.13" (75mm) MiningBit(TM) System 2' (61cm) long adapter boards (8x installed) MiningBit(TM) adapter boards with steel/carbide bits. 15-30X longer life than a flat edge with replacable bits installed in reusable adapter boards. Recommended for hard/frozen haul road maintenance or forming ruts for traction. NOTE: Discuss proper MiningBit use with customer, contact your GET Marketing Professional for proper use directions or further information at Cat_Americas_Wearparts@cat.com Adapter boards and MiningBits(TM) will be installed from the factory.		

POWERTRAIN

RADIATOR

L	432-2540	**RADIATOR, CGT, FLEXIBLE CORE**	0	NC
		CGT - Copper Grommet Tube Reduces maintenance time by using a modular cooling core Extended radiator cleanout intervals Coppers cores improve cooling efficiency Good choice for high ambient temperature and heavy debris application environment		
L	432-2589	**RADIATOR, BAR & PLT, DUAL CORE**	0	$-8,160

PRECLEANER

L	421-9580	**PRECLEANER, DUST EJECTOR**	0	NC
L	421-9581	**PRECLEANER, SY-KLONE**	0	$925

HYDRAULICS

L	369-0449	**ACCUMULATORS, BLADE LIFT**	0	NC
		Provides hydraulic lines for base functions and accumulators for the blade lift. Allows approximately 1-3" of vertical blade travel to reduce impact loads.		
L	435-3821	**CONTROL, BLADE, VARIABLE FLOAT**	0	$14,700
		INCLUDES: 369-0449 ACCUMULATORS, BLADE LIFT Additionally, allows operator to control the amount of down force the blade has in float mode.		

USE	REF NO.	LANE 3 MANDATORY	Ship Weight lbs	LIST PRICE AT FACTORY

OPERATOR ENVIRONMENT

OPERATOR ACCESS

L	469-9266	**ACCESS, STANDARD**	0	NC
		Provides left and right cab access doors and ladders		
L	469-9265	**ACCESS, DUAL PLATFORM PKG, BSC**	0	$56,530
		Provides cab access with left and right hand doors, around cab, left and right hand platforms and left and right hand rear step-up from tandem walkways.		
		Includes emergency egress ladder on left side platform, movable to right side platform, as well as front cab window washer platform with bifold guardrail.		

OPERATOR ACCESS LIGHTING PACKAGES

L	453-0358	**LIGHTS, HALOGEN, STD ACCESS**	0	$2,550
		Provides two heel and two tandem halogen lights with mounting hardware		
		Used to display a large dispersion of light around and below the cab.		
		REQUIRES: 469-9266 ACCESS STANDARD		
L	453-0356	**LIGHTS, HALOGEN, DUAL ACCESS**	0	$2,550
		Provides two heel, two tandem, and two left side tandem walkway halogen lights with mounting hardware.		
		Used to display a large dispersion of light around and below the cab.		
		REQUIRES: 469-9265 DUAL ACCESS PLATFORM PKG		
L	453-0359	**LIGHTS, LED, STD ACCESS**	0	$6,550
		Provides two heel and two tandem LED lights with mounting hardware.		
		Used to display a large dispersion of light around and below the cab.		
		REQUIRES: 469-9266 ACCESS STANDARD		
L	453-0357	**LIGHTS, LED, DUAL ACCESS**	0	$6,550
		Provides two heel, two tandem, and two left side tandem walkway LED lights with mounting hardware. cab,		
		Used to display a large dispersion of light around and below the cab.		
		REQUIRES: 453-0357 DUAL ACCESS PLATFORM PKG		

CAB-VISION

L	509-5642	**CAB BASIC, COVER**	0	NC
		Provides CAB with storage pocket in front dash as an alternative to a forward vision monitor.		
		CANNOT BE USED WITH: 470-3930 EU ARRANGEMENT		
L	536-0780	**VISIBILITY ARR, CAB, FR CAMERA**	0	$6,840
		Provides two front facing cameras located above the front axle and a cab monitor.		
		REQUIRED BY: EU ARRANGMENT 482-1836 YOM PLATE WITH EAC		
		NOTE: Provides ISO 5006 - Compliant operator visibility and Union Certification EAC (TR CU) for Eurasian countries: Belarus, Kazakhstan, Russia, Armenia, and Kyrgyzstan.		

CAB INTERIOR (SEAT)

L	391-5182	**SEAT, STANDARD**	0	NC
		- Seat, air suspension, cloth		

USE	REF NO.	LANE 3 MANDATORY	Ship Weight lbs	LIST PRICE AT FACTORY

OPERATOR ENVIRONMENT (CONT.)

CAB INTERIOR (SEAT) (Cont.)

L	385-8713	**SEAT, HEATED**	0	$525
		- Seat, air suspension, cloth - Heated		
L	385-8714	**SEAT, VENTILATED + HEATED**	0	$2,445
		- Seat, air suspension, cloth - Heated - Fan forced ventilation		

HORNS

L	490-6422	**HORN, ELECTRIC**	0	NC
		Provides an electrical horn that mounts on front frame.		
L	490-6423	**HORN, AIR**	0	$3,365
		Provides a self-sufficient air horn that mounts on the front frame. Provides 107 to 112 db (A) loudness at seven meters.		

ENTERTAINMENT

L	477-1258	**RADIO, BLUETOOTH**	10	$1,035
		Available to countries with bluetooth certification. Please contact your CAT marketing representative if you have questions. Radio features: AUX, USB, Bluetooth, AM/FM Bluetooth microphone is included Super capacitor used to retain radio memory when power is removed		
L	477-1259	**RADIO, SATELLITE SIRIUS**	10	$1,740
		Available to countries with bluetooth certification. Please contact your CAT marketing representative if you have questions. Radio features: AUX, USB, Bluetooth, CD, satellite, AM/FM Bluetooth microphone is included Super capacitor used to retain radio memory when power is removed NOTE: Activation required.		

MIRRORS

L	138-0727	**MIRRORS, OUTSIDE MOUNTED**	28	$670
		Provides two convex mirrors for outside mounting on the left and right cab grab irons. REQUIRED BY: EU ARRANGEMENT 482-1836 YOM PLATE WITH EAC NOTE: - The mirrors will ship inside the cab. - Provides ISO 5006 - Compliant operator visibility and Union Certification EAC (TR CU) for Eurasian countries: Belarus, Kazakhstan, Russia, Armenia, and Kyrgyzstan.		

USE	REF NO.	LANE 3 MANDATORY	Ship Weight lbs	LIST PRICE AT FACTORY

OPERATOR ENVIRONMENT (CONT.)

MIRRORS (Cont.)

L	487-9647	**MIRRORS, OUTSIDE HEATED 24V**	0	$1,060

Provides mirrors with a 24V heating element to keep mirrors ice free in cold weather operations.
REQUIRED BY: EU ARRANGEMENT
482-1836 YOM PLATE WITH EAC

NOTE: - The mirrors will ship inside the cab.
- Provides ISO 5006 - Compliant operator visibility and Union Certification EAC (TR CU) for Eurasian countries: Belarus, Kazakhstan, Russia, Armenia, and Kyrgyzstan.

TECHNOLOGY PRODUCTS

VIMS-PRODUCT LINK

Product Link enables the remote transmission of information about the location, operation, and condition of your equipment. Efficiently and effectively monitor the performance of your assets to help keep your jobs on schedule, maintain equipment condition, and reduce the costs of owning and operating your fleet. Availability varies by country - please reference https://Dealer.cat.com/PL/Certification for certified countries. Please contact your Caterpillar marketing representative with questions.

L	471-3085	**VIMS & CELL PROD LINK, PLE641**	0	NC

Product Link Elite series PLE641 offers expanded coverage including 3G UMTS and CDMA2000 as well as 2G GSM and CDMA cellular networks to transmit location, utilization and condition information s viewing in Product Link-s remote monitoring web interface. Cellular technology provides capabilities for frequent transmission and larger volumes of data

L	471-3093	**VIMS & DUAL PL, PLE641 & PL631**	0	$1,243

The Product Link Elite series dual solution uses a combination of cellular and satellite networks to transmit location, utilization and condition information for viewing in Product Link-s remote monitoring web interface. For applications that require travel between areas of both cellular and satellite coverage.

USE	REF NO.	LANE 3 MANDATORY	Ship Weight lbs	LIST PRICE AT FACTORY

TIRES, RIMS, AND WHEELS

TIRES

**Tires listed below include a set of six tires.
Due to industry wide tire availability limitations, tire brand and type cannot be guaranteed. Every effort will be made to satisfy your tire choice, but we reserve the right to change to alternate tires. If the brand cannot be supplied, we may contact the dealer. However, in some cases, we will change to an alternative premium brand tire without notice. If the tire type cannot be supplied, we will contact the dealer to propose alternatives. The dealer needs to choose between an alternative tire or a "rims only" option (where available) within 72 hours. If no response is provided by the deadline, the order will default to the alternative tire and will be changed at that point. As a consequence of a possible tire change, the total machine price will be decreased or increased depending on the price of the new tire.
To calculate tire loads with machine attachments, please reference the MG Tire Selection Pocket Guide (media #AEXQ0182), available on the Electronic Sales Library. All tire selections should be made with consideration for planned machine attachments (OEM and aftermarket) and their additional weight. Each tire has a maximum load rating that is not to be exceeded. The tire selection should be based on the maximum of all tire position loads on the machine. Assistance for calculating the highest tire load can be found in the Tire Load Worksheet in the back of the Caterpillar Motor Graders Tire Selection Pocket Guide. Failure to abide by the load ratings of the tires without first consulting the local tire supplier representative could result in nullification of of the tire warranty.

The information provided can be used to make a tire selection based on the particular conditions at the site. When available, the tire manufacturer should be consulted regarding proper tire selection.

L	536-3444	RIMS ONLY, 25" X 29" MP	0	$14,080
L	536-3447	TIRES, 29.5R29 BS VSTD D2A *L5	0	$75,030

Bridgestone VSTD D2A ** L5 on 25"x29" (635MM X 736MM) multipiece rims.

NOTE: **THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING Front: 9,950 kg/21,936lb, Rear: 13,450kg/29,652lb

USE	REF NO.	LANE 3 MANDATORY	Ship Weight lbs	LIST PRICE AT FACTORY

GUARDS

L	447-1073	**GUARD PACKAGE**	0	$25,890
		Package contains LH and RH mud guards to protect the front frame hydraulic valves under the cab, a bottom guard to protect the engine bottom and two guards on the front axle to protect the steering cylinders. Includes: - GUARD, MUD (2) - GUARD, BOTTOM, ENG COMPARTMENT - GUARD, AXLE, FRONT (2)		
L	514-8130	**GUARD, STEERING VALVE**	0	NC
		Protects front frame steering valve.		

OTHER ATTACHMENTS

REAR ATTACHMENTS

L	468-3068	**GUARD, BRAKE**	0	NC
		Provides a guard to brake lines on the Tandems.		
L	541-5159	**FENDERS, REAR & GUARDRAILS**	0	$40,660
		Provides left and right hand tandem fenders with mounted guardrails		

INSTRUCTIONS

SERVICE INSTRUCTIONS

L	386-1254	**LANGUAGE, ENGLISH**	0	NC
L	386-5945	**LANGUAGE, ENGLISH W/SYMBOLS**	0	NC

DECAL PACKAGES

NOTE: This part number will provide the films in ANSI or ISO
The word "WARNING" is on picto decals for ANSI.
Symbols only are on picto decals for ISO.

L	470-7382	**DECALS, ENGLISH, US, ANSI**	0	NC
		Provides decals as required by ANSI. ONLY FOR USE WITH: 480-4163 24-14A MOTOR GRADER		

USE	REF NO.	LANE 3 OPTIONAL	Ship Weight lbs	LIST PRICE AT FACTORY

FEATURE PACKAGES

LIGHTING PACKAGES

L	464-2646	**LIGHTING PACKAGE, BASIC**	0	$2,795
		Provides two halogen mid front frame tow lights (5x5) to illuminate the moldboard and surrounding area, two front-facing halogen axle lights (5x5) that mount near the front of the machine and provide flood light to the front, and two rearward facing flood lights for a wide dispersal of light. Additionally, there are four forward facing lights where two are flood lights for a wide dispersal of light and the remaining two are long range lights with a concentrated beam of light. Provides six halogen (road 5X5) cab roof lights: four forward facing and two rear facing. CANNOT BE USED WITH: 464-2649 LIGHTING PACKAGE, PLUS, LED		
L	464-2649	**LIGHTING PACKAGE, PLUS, LED**	0	$21,980
		Provides two LED mid front frame tow lights (5x5) to illuminate e the moldboard and surrounding area, two front-facing LED axle lights (5x5) that mount near the front of the machine and provide flood light to the front, and two rearward facing flood lights for a wide dispersal of light. Additionally, there are four forward facing lights where two are flood lights for a wide dispersal of light and the remaining two are long range lights with a concentrated beam of light. Provides six LED (road 5X5) cab roof lights: eam four forward facing and two rear facing. CANNOT BE USED WITH: 464-2646 LIGHTING PACKAGE, BASIC		

OTHER FEATURE ATTACHMENTS

L	331-1592	**LIGHT, LED WARNING STROBE**	5	$645 NI
		LED amber high-speed strobe beacon. Ships not-installed.		

OPERATOR ENVIRONMENT

CAMERA

L	536-8812	**MONITOR,DEDICATED,REAR CAMERA**	0	$2,960
		Mounted on rear of cab		

TECHNOLOGY PRODUCTS

CONTROL AUTO ARTICULATION

L	483-2355	**CONTROL,AUTO ARTICULATION-DEMO**	0	NC
		500 machine hour demo. Improves ease of operation, increases maneuverability and maximizes productivity by automatically matching articulation angle to steering angle. 3 modes; off / forward / both forward and reverse.		
L	448-1293	**CONTROL,AUTO ARTICULATION-FULL**	0	$1,810
		Improves ease of operation, increases maneuverability and maximizes productivity by automatically matching articulation angle to steering angle. Includes 3 position rocker switch enabling 3 modes; off / forward / both forward and reverse.		

USE	REF NO.	LANE 3 OPTIONAL	Ship Weight lbs	LIST PRICE AT FACTORY

SAFETY AND SECURITY

FIRE SUPPRESSION.

L	508-8115	**FIRE SUPPRESSION, FULL INSTALL**	0	$35,900

Factory installed ANSUL Liquid Vehicle System fire suppression. System includes two 10 gallon tanks, engineered lines routing with 16 nozzle locations, ground level actuation switch, cab mounted actuation switch and control module.

** NOTE **
Full installation is hardware only. The fire suppression system is empty and not pressurized.

NOTE: A local ANSUL distributor must complete the installation and certify the system with the ANSUL Liquid Vehicle System (LVS) liquid agent and two pressure cartridges. ANSUL LVS liquid agent has operating temperature of -40 to 60 degree Celsius or -40 (140F). Please refer to Factory Installed Fire Suppression System for Cat D10T2, D11T, 777G, 16M3, 18M3 and 24 Salesgram (Media number: TEKQ1341) for more ordering and commissioning details prior to ordering.
ONLY FOR USE WITH: 480-4163 24-14A MOTOR GRADER

WHEEL CHOCKS

L	538-9643	**WHEEL CHOCKS**	0	$1,530

Provides two wheel chocks including ripper mounting bracket.

GUARDS

SOUND SUPPRESSION

L	422-8829	**SOUND SUPPRESSION, ENGINE ENCL**	0	$1,835

Suppression panels in engine enclosure doors.
INCLUDED IN: 470-3930 EU ARRANGMENT

L	465-5552	**GUARD, SOUND SUPPRESSION**	0	$9,350

Provides sound suppresion panels attached to the bottom guard below engine designed to supress the sound coming from the machine.
An included guard also prevents debris from entering the enclosure from underside directly behind tandem axle housing.
REQUIRES: 447-1073 GUARD PACKAGE
INCLUDED IN: 470-3930 EU ARRANGMENT

OTHER ATTACHMENTS

GROUND ENGAGING TOOLS

P	8J-2189	**TOOTH, STRAIGHT**	456	$1,380

Straight shank with one tooth each.

PACKING

(Must Select One)

	0P-0250	**DOMESTIC RAIL**	0	$1,245 NET

Ships on 2 rail cars.

USE	REF NO.	LANE 3 OPTIONAL	Ship Weight lbs	LIST PRICE AT FACTORY

PACKING (CONT.)

(Must Select One) (Cont.)

0P-0251	**DOMESTIC TRUCK**	0	**NC**
	Ships on 3 trucks.		

120 MOTOR GRADER
PIRACICABA, BRAZIL

	Ship Weight lbs	LIST PRICE AT DEALER

Standard Equipment:

POWERTRAIN

Air cleaner, dual stage dry type radial seal with service indicator through messenger and automatic dust ejector
Air-to-air after cooler (ATAAC)
Brakes, oil disc, four-wheel, hydraulic
Demand fan, hydraulic
Differential, lock/unlock, auto
Drain, engine oil, ecology
Engine:
-C7.1 diesel, with automatic engine derate, and idle control.
-Optimized VHP Plus
-Engine ECO mode
-Fuel-water separator
Parking brake, multi-disc, sealed and oil cooled
Priming pump, fuel
Transmission, 8 speed forward and 6 speed reverse, power shift, direct drive

ELECTRICAL

Alarm, back-up
Alternator,
Batteries, maintenance free
Electrical system, 24V

OPERATOR ENVIRONMENT

Display, digital speed and gear
Gauge, machine level
Gauges (analog) inside the cab (includes fuel, articulation, engine coolant temp, engine RPM, and hydraulic oil temp)
Ladders, cab, left and right side
Message operator information display, meter, hour, digital
ISO 6394 (70% fan speed)
Throttle control, electronic

SAFETY AND SECURITY

Clutch, circle drive slip
Doors, engine compartment,
Ground level engine shutdown
Seat belt, retractable 76.2 (3")

TIRES, RIMS, AND WHEELS

A partial allowance for tires on 254mm x 609mm (10"x24") multi-piece rims is included in the base machine weight and price

OTHER STANDARD EQUIPMENT

CD ROM parts book
Doors, service compartment, locking
SOS ports, engine, hydraulic, transmission, coolant, fuel
Tool box
Fuel tank, 225 liters (59 gallon)
Radiator, cleanout access

120 MOTOR GRADER
PIRACICABA, BRAZIL

		Ship Weight lbs	LIST PRICE AT DEALER
	Lane 2 is reserved for the Base Order Management Program. Please use Lane 2 when placing orders that are part of the Base Order Management Program.		
467-7423	**120 14A MOTOR GRADER**	0	**$297,260**
	LANE 2 - AVAILABLE FROM PIRACICABA FACTORY LANE 3 - AVAILABLE FROM PIRACICABA FACTORY		
	REQUIRES: JOYSTICK IMPLEMENT CONTROLS AVAILABLE FOR: AM-N, EU		
460-7652	**120 14A AWD MOTOR GRADER**	0	**$348,480**
	LANE 2 - AVAILABLE FROM PIRACICABA FACTORY LANE 3 - AVAILABLE FROM PIRACICABA FACTORY		
	REQUIRES: JOYSTICK IMPLEMENT CONTROLS AVAILABLE FOR: AM-N, EU		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

LANE SELECTION

	0P-9002	**LANE 2 ORDER**	0	NC
		Only for dealers enrolled in the Base Orders Management (BOM) program.		
	0P-9003	**LANE 3 ORDER**	0	NC

REGIONAL PACKAGES

L	561-6489	**GLOBAL ARRANGEMENT, JOY**	0	NC
		ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or 467-7423 120-14A MOTOR GRADER		

PERFORMANCE PACKAGES

MOLDBOARDS

L	320-9924	**MOLDBOARD, 12′ BASIC**	0	NC
		INCLUDES: Moldboard 12'x 24"x7/8" (3658 x 610 x 22mm) with hydraulic side shift and 5/8" (15.89mm) end bits. Cutting edge 8"x 3/4" (203 x 19.mm) curved cutting edge. COMPATIBLE WITH ALL HYDRAULICS		
L	436-3473	**MOLDBOARD, 12′ PLUS**	485	$710
		INCLUDES: Moldboard 12'x 24"x7/8" (3658 x 610 x 22mm) with hydraulic side shift and 5/8" (15.89mm) end bits. g edge. Cutting edge 8"x 3/4" (203 x 19mm) curved cutting edge. Reversible end bits overlay with curved edges, can protect moldboard and cutting edges. Reversible pair for use with 8" x 3/4" (203 x 19mm) cutting edge		
L	320-7431	**MOLDBOARD, 14′ BASIC**	75	$2,265
		INCLUDES: Moldboard 14'x 27"x7/8" (4267 x 686 x 22mm) with hydraulic side shift and 5/8" (15.89mm) end bits. Cutting edge 8"x 3/4" (203 x 19mm) curved cutting edge. Reversible end bits overlay with curved edges, can protect moldboard and cutting edges. Reversible pair for use with 8" x 3/4" (203 x 19mm) cutting edge.		

WEATHER PACKAGES (TANDEM MACHINES)

L	467-7404	**WEATHER, STANDARD TND**	0	NC
		Recommended for year around use when typical ambient temperature range is 0 degrees C (32 degrees F) to 43 degrees C (110 degrees F) and operating at altitude below 1220 m (4000 feet). INCLUDES: Batteries, Heavy Duty - 1125 CCA Oil, Hydraulic, 10W ONLY FOR USE WITH: 467-7423 120-14A MOTOR GRADER or 467-7424 120-14A MOTOR GRADER		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

PERFORMANCE PACKAGES (CONT.)

WEATHER PACKAGES (TANDEM MACHINES) (Cont.)

L 467-7411 **WEATHER, COLD TND** 0 **$745**

Recommended for year around use when typical ambient temperature range is -18 degrees C (0 degrees F) to 43 degrees C (110 degrees F) and operating at altitude below 1220 m (4000 feet).
INCLUDES:
Batteries, Extreme Duty -1400 CCA
Oil, Hydraulic, 10W
Jump Start Stud
Cold Start; Transmission cooler bypass
REQUIRES: STARTER, HEAVY DUTY
ONLY FOR USE WITH: 467-7423 120-14A MOTOR GRADER or
467-7424 120-14A MOTOR GRADER

L 467-7418 **WEATHER, COLD PLUS TND** 0 **$2,725**

Recommended for year around use when typical ambient temperature range is -40 degrees C (-40 degrees F) to 40 degrees C (104 degrees) or operating at altitude above 1220 m (4000 feet).
INCLUDES:
Starting Aid, Ether
Cold Start; Transmission cooler and filter bypass
Batteries, Extreme Duty -1400 CCA
Oil, Hydraulic, Cold, 0W-20
Jump Start Stud
REQUIRES: STARTER, HEAVY DUTY
ONLY FOR USE WITH: 467-7423 120-14A MOTOR GRADER

WEATHER PACKAGES (AWD MACHINES)

L 467-7403 **WEATHER, STANDARD AWD** . . . . . 0 **NC**

Recommended for year around use when typical ambient temperature range is 0 degrees C (32 degrees F) to 43 degrees C (110 degrees F) and operating at altitude below 1220 m (4000 feet).
INCLUDES:
Batteries, Heavy Duty - 1125 CCA
Oil, Hydraulic, 10W
ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or
467-7425 120-14A AWD MOTOR GRADER

L 467-7410 **WEATHER, COLD AWD** 0 **$745**

Recommended for year around use when typical ambient temperature range is -18 degrees C (0 degrees F) to 43 degrees C (110 degrees F) and operating at altitude below 1220 m (4000 feet).
INCLUDES:
Batteries, Extreme Duty -1400 CCA
Cold Start; Transmission cooler and filter bypass
Oil, Hydraulic, 10W
Jump Start Stud
REQUIRES: STARTER, HEAVY DUTY
ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or
467-7425 120-14A AWD MOTOR GRADER

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

PERFORMANCE PACKAGES (CONT.)

WEATHER PACKAGES (AWD MACHINES) (Cont.)

L 467-7417 **WEATHER, COLD PLUS AWD** 0 $2,670
Recommended for year around use when typical ambient temperature range is -40 degrees C (-40 degrees F) to 40 degrees C (104 degrees) or operating at altitude above 1220 m (4000 feet).
INCLUDES:
Starting Aid, Ether
Cold Start; Transmission cooler and filter bypass
Batteries, Extreme Duty -1400 CCA
Oil, Hydraulic, Cold, 0W-20
Jump start stud
REQUIRES: STARTER, HEAVY DUTY
ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER

ACCUMULATORS

L 517-0699 **NO ACCUM, NO ARO, JOY** . . . . . 0 NC
For use on units NOT equipped with ARO.
Provides hydraulic lines for base functions.
ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or
467-7423 120-14A MOTOR GRADER or
467-7424 120-14A MOTOR GRADER or
467-7425 120-14A AWD MOTOR GRADER
CANNOT BE USED WITH: 462-6536 DRAWBAR, TOP ADJUST, JOYSTICK

L 462-6539 **ACCUMULATORS, WITH ARO, JOY** 0 $4,605
For units equipped with ARO.
Provides hydraulic lines for base functions and accumulators for the blade lift. Allows approximately 1-3" (25-76mm) of vertical blade travel to reduce impact loads. Nitrogen/oil accumulators activated by electric switch.
ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or
467-7423 120-14A MOTOR GRADER or
467-7424 120-14A MOTOR GRADER or
467-7425 120-14A AWD MOTOR GRADER

DRAWBAR ARRANGEMENT

L 468-1603 **DRAWBAR, STANDARD,HYD TIP,JOY** . . . . . 0 $-1,550
Standard (H-Type, A-Frame) DCM. Standard shimmed circle wear strips.
Standard shimmed moldboard wear strips.
Intended for customers who perform rough grading or road maintenance and do not frequently maintain their drawbar, circle and moldboard.
ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or
467-7423 120-14A MOTOR GRADER or
467-7424 120-14A MOTOR GRADER or
467-7425 120-14A AWD MOTOR GRADER

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

PERFORMANCE PACKAGES (CONT.)

DRAWBAR ARRANGEMENT (Cont.)

L	462-6536	**DRAWBAR,TOP ADJUST,HYDTIP,JOY**	0	NC

Top Adjust (M-Type, A-Frame) DCM. Top-adjust circle wear strips.
Setscrew moldboard wear strip adjustment. Adjustment allows for DCM assembly to keep tighter grades.
Ideal for customers who perform finish grading work and frequently maintain their drawbar, circle and moldboard for factory tightness.
ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or
467-7423 120-14A MOTOR GRADER or
467-7424 120-14A MOTOR GRADER or
467-7425 120-14A AWD MOTOR GRADER

POWERTRAIN

ENGINE

L	549-6535	**ENGINE, STAGE IV AM-N**	0	NC

DEDICATED TO HIGHER REGULATED COUNTRIES (HRC), including:
- Caterpillar C7.1 ACERT diesel engine turbo charged.
EPA Tier 4 Final / EU Stage IV certified engine with aftertreatment
ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or
467-7423 120-14A MOTOR GRADER
AVAILABLE FOR: AM-N

OIL CHANGE

L	422-6603	**DRAIN, GRAVITY, ENGINE OIL**	0	NC

Standard engine oil drain

L	505-7041	**DRAIN, HIGH SPEED, ENGINE OIL**	0	$286

High speed engine oil drain. Requires pump at service location
to be attached to coupling receiver for high speed flow.
high speed oil drain can also be used manual/gravity drain.

HYDRAULICS

NOTE: Hydraulic Definitions

COMMON FUNCTIONS:

JOYSTICK MACHINES
Base = 8 functions: right and left blade lift, circle turn, drawbar center shift, blade side shift, blade tip, front wheel lean, frame articulation. Float function standard for all hydraulic packages.

FL = Front Lift (moves front work tools up/down)
DA1 = Dozer Angle 1 (angles front blade left OR right)
DA2 = Dozer Angle 2 (angles front blade left AND right)
RIP = Rear Mounted Ripper (moves ripper up/down)
TIP = Blade Tip
MMS = Mid-Mounted Scarifier
WM = Wing Mast (Snow Wing)
WT = Wing Tilt (Snow Wing)

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

HYDRAULICS

L	462-6514	**HYDRAULICS BASE JOY**	0	NC
		Base hydraulic system will include right and left blade lift, circle turn, drawbar center shift, blade side shift, blade tip, front wheel lean, frame articulation.		
		ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or 467-7423 120-14A MOTOR GRADER or 467-7424 120-14A MOTOR GRADER or 467-7425 120-14A AWD MOTOR GRADER		
L	462-6515	**BASE + 1 (RIP) JOY**	0	$1,785
		Ripper function. Includes the Ripper Lines.		
		ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or 467-7423 120-14A MOTOR GRADER or 467-7424 120-14A MOTOR GRADER or 467-7425 120-14A AWD MOTOR GRADER		
L	462-6516	**BASE + 1 (MMS) JOY**	0	$1,410
		Mid-Mount Scarifier functions. Includes the Mid-Mount Scarifier lines		
		ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or 467-7423 120-14A MOTOR GRADER or 467-7424 120-14A MOTOR GRADER or 467-7425 120-14A AWD MOTOR GRADER		
L	462-6517	**BASE + 1 (FL) JOY**	0	$2,380
		Front lift functions. Includes the Front Lift lines.		
		ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or 467-7423 120-14A MOTOR GRADER or 467-7424 120-14A MOTOR GRADER or 467-7425 120-14A AWD MOTOR GRADER		
L	462-6518	**BASE + 2 (RIP,FL) JOY**	0	$4,165
		Ripper, and Front Lift functions. Includes the Ripper and Front Blade Lift lines.		
		ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or 467-7423 120-14A MOTOR GRADER or 467-7424 120-14A MOTOR GRADER or 467-7425 120-14A AWD MOTOR GRADER		
L	462-6519	**BASE + 2 (MMS, RIP) JOY**	0	$3,195
		Mid-Mount Scarifier, and Ripper. Includes the Mid-Mount Scarifier and Ripper lines.		
		ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or 467-7423 120-14A MOTOR GRADER or 467-7424 120-14A MOTOR GRADER or 467-7425 120-14A AWD MOTOR GRADER		
L	462-6533	**BASE + 3 (FL, DA1, RIP) JOY**	0	$7,440
		Front Blade Lift, Dozer Angle, and Ripper function. Includes the Front Blade Lift, Dozer Angle, and Ripper lines.		
		ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or 467-7423 120-14A MOTOR GRADER or 467-7424 120-14A MOTOR GRADER or 467-7425 120-14A AWD MOTOR GRADER		
L	462-6534	**BASE + 3 (FL, MMS, RIP) JOY**	0	$5,580
		Front Blade Lift, Mid-Mount Scarifier and Ripper function. Includes the Front Blade Lift, Mid-Mount Scarifier and Ripper lines.		
		ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or 467-7423 120-14A MOTOR GRADER or 467-7424 120-14A MOTOR GRADER or 467-7425 120-14A AWD MOTOR GRADER		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

HYDRAULICS (Cont.)

L	472-2244	**BASE+4 (FL,DA1,MMS,RIP) JOY**	0	$8,840

Front Blade Lift, Dozer Angle, Mid-Mount Scarifier, and Ripper function. Includes the Front Blade Lift, Dozer Angle, Mid-Mount Scarifier, and Ripper lines.
ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or
467-7423 120-14A MOTOR GRADER or
467-7424 120-14A MOTOR GRADER or
467-7425 120-14A AWD MOTOR GRADER

ELECTRICAL

BRAKE LIGHTS

L	467-9304	**LIGHTS, BRAKE&BACKUP,JOY, LED**	0	$102

Provides stationary rear brake lights along with the back-up lights. Does not include front headlights or turn signals
ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or
467-7423 120-14A MOTOR GRADER or
467-7424 120-14A MOTOR GRADER or
467-7425 120-14A AWD MOTOR GRADER
CANNOT BE USED WITH: FRONT HEADLIGHTS, LOW (HALOGEN/LED)

L	563-2423	**LIGHTS,BRAKE&BKP,TURN,LED**	0	$408

Provides stationary rear brake lights along with the back-up lights. Includes turn signals.
REQUIRES: FRONT HEADLIGHTS, LOW (HALOGEN/LED)
ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or
467-7423 120-14A MOTOR GRADER or
467-7424 120-14A MOTOR GRADER or
467-7425 120-14A AWD MOTOR GRADER

L	563-2430	**LIGHTS, ARM, FOLD DOWN**	0	$1,875

Provides stationary rear brake lights along with the back-up lights, dimmer switch for road lighting, drop-down stop, tail, and rear turn signals and back-up lights.
REQUIRES: FRONT HEADLIGHTS, LOW (HALOGEN/LED)
ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or
467-7423 120-14A MOTOR GRADER or

STARTER

L	462-6512	**STARTER, STANDARD DUTY**	0	NC

Recommended for year around use when typical ambient temperature range is 41F (5C) to 110F (43C) and operating at altitude below 4000ft (1220m).
ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or
467-7423 120-14A MOTOR GRADER
CANNOT BE USED WITH: WEATHER COLD
WEATHER COLD PLUS

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

ELECTRICAL (CONT.)

STARTER (Cont.)

L	517-0703	**STARTER, HEAVY DUTY**	0	$405
		Recommended for year around use when typical ambient temperature range is -40F (-40C) to 110F (43C) and operating at altitude above 4000ft (1220m).		
		ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or 467-7423 120-14A MOTOR GRADER		
		REQUIRED BY: WEATHER COLD or WEATHER COLD PLUS		

OPERATOR ENVIRONMENT

CAB

L	466-1365	**CAB, ROPS, BASE,JOY,AWD**	0	$26,520
		INCLUDES:		
		- Enclosed ROPS		
		- Wiper/washer, front and doors		
		- HVAC, Auto temperature and blower control		
		- Power ports, 12V (x2), 5V USB		
		ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or 467-7425 120-14A AWD MOTOR GRADER		
L	466-1361	**CAB, ROPS, BASE,JOY,TND**	0	$26,520
		INCLUDES:		
		- Enclosed ROPS		
		- Wiper/washer, front and doors		
		- HVAC, Auto temperature and blower control		
		- Power ports, 12V (x2), 5V USB		
		ONLY FOR USE WITH: 467-7423 120-14A MOTOR GRADER or 467-7424 120-14A MOTOR GRADER		
L	466-1367	**CAB, ROPS, PLUS, JOY, AWD**	0	$27,030
		INCLUDES:		
		- Cab Base features		
		- Windows, side venting		
		- HVAC, Auto temperature and blower control		
		ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or 467-7425 120-14A AWD MOTOR GRADER		
		CANNOT BE USED WITH: 466-1284 WIPER, SIDE, JOYSTICK		
L	466-1363	**CAB, ROPS, PLUS, JOY, TND**	0	$27,030
		INCLUDES:		
		- Cab Base features		
		- Windows, side venting		
		- HVAC, Auto temperature and blower control		
		ONLY FOR USE WITH: 467-7423 120-14A MOTOR GRADER or 467-7424 120-14A MOTOR GRADER		
		CANNOT BE USED WITH: 466-1284 WIPER, SIDE, JOYSTICK		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

OPERATOR ENVIRONMENT (CONT.)

SEAT CAB

L	506-2611	**SEAT, BASE, SUSPENSION, JOY**	0	$2,040
		INCLUDES: - Air suspension, Adjustable damper - Cloth Cushion, Adjustable angle and depth ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or 467-7423 120-14A MOTOR GRADER or 467-7424 120-14A MOTOR GRADER or 467-7425 120-14A AWD MOTOR GRADER		
L	511-5313	**SEAT, PREMIUM, SUSPENSION,JOY**	0	$3,570
		INCLUDES: - Air suspension, Adjustable damper - Leather Cushion, Adjustable angle and depth, Heated and cooled - Power adjustable cushion bolsters and lumbar support ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or 467-7423 120-14A MOTOR GRADER or 467-7424 120-14A MOTOR GRADER or 467-7425 120-14A AWD MOTOR GRADER		

SEAT BELT

L	513-0286	**SEAT BELT**	0	$-204
		Retractable, 3"(76.2mm) seat belt. ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or 467-7423 120-14A MOTOR GRADER or 467-7424 120-14A MOTOR GRADER or 467-7425 120-14A AWD MOTOR GRADER		
L	485-3445	**SEAT BELT, W/ INDICATION**	0	NC
		Retractable,3"(76.2mm) seat belt w/ alert indicator in main dashboard. ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or 467-7423 120-14A MOTOR GRADER or 467-7424 120-14A MOTOR GRADER or 467-7425 120-14A AWD MOTOR GRADER		

COMFORT PACKAGE CAB

L	466-1340	**COMFORT PACKAGE, BASE, JOY**	0	NC
		Not radio or communication ready, and no power ports. It will include plugs to cover up openings. ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or 467-7423 120-14A MOTOR GRADER or 467-7424 120-14A MOTOR GRADER or 467-7425 120-14A AWD MOTOR GRADER CANNOT BE USED WITH: CANOPY		
L	466-1360	**COMFORT PACKAGE, PREMIUM, JOY**	0	$2,855
		INCLUDES: Shades, rear Fan, defrost, x1 Radio, AM/FM/BT Mirrors, B-post, x2 ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or 467-7423 120-14A MOTOR GRADER or 467-7424 120-14A MOTOR GRADER or 467-7425 120-14A AWD MOTOR GRADER CANNOT BE USED WITH: CANOPY		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

OPERATOR ENVIRONMENT (CONT.)

GLOVE BOX / KIT PANEL

L	435-5797	**GLOVE BOX, CAB**	0	NC
		Provides a glove box in placement of a radio if a radio is not ordered		
L	466-1296	**KIT, BASE ARO**	0	$715
		Mounting bracket for display and correction radio. RECOMMENDED: for use with CAT GRADE ARO		

TECHNOLOGY PRODUCTS

PRODUCT LINK

Product Link enables the remote transmission of information about the location, operation, and condition of your equipment. Efficiently and effectively monitor performance of your assets to help keep your jobs on schedule, maintain equipment condition, and reduce the costs of owning and operating your fleet.

Availability varies by country, please contact your Cat marketing representative with questions or click on the link below:
HTTPS://DEALER.CAT.COM/en/bt/otd/machine-price-list.html
From there click on the 'PRODUCT LINK Hardware Certification" link.

L	471-5509	**PRODUCT LINK, CELLULAR PLE641**	0	NC
		Product Link Elite series PLE641 offers expanded coverage including 3G UMTS and CDMA2000 as well as 2G GSM and CDMA cellular networks to transmit location, utilization and condition information for viewing in Product Link-s remote monitoring web interface. Cellular technology provides capabilities for frequent transmission and larger volumes of data. REQUIRES: CAB ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or 467-7423 120-14A MOTOR GRADER or 467-7424 120-14A MOTOR GRADER or 467-7425 120-14A AWD MOTOR GRADER		
L	467-7405	**PROD LINK, DUAL PLE641+PLE631.**	0	$1,215
		The Product Link Elite series dual solution uses a combination of cellular and satellite networks to transmit location, utilization and condition information for viewing in Product Link-s remote monitoring web interface. For applications that require travel between areas of cellular and satellite signal. REQUIRES: CAB ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or 467-7423 120-14A MOTOR GRADER or 467-7424 120-14A MOTOR GRADER or 467-7425 120-14A AWD MOTOR GRADER		

BLADE TECHNOLOGY

L	543-0221	**NO GRADE CONTROL TECHNOLOGY**	0	NC
		ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or 467-7423 120-14A MOTOR GRADER or 467-7424 120-14A MOTOR GRADER or 467-7425 120-14A AWD MOTOR GRADER		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

TECHNOLOGY PRODUCTS (CONT.)

BLADE TECHNOLOGY (Cont.)

L **462-6505** **CAT GRADE ARO, JOY** 0 **$4,830**

Allows the Motor Grader to be equipped with either a Cross Slope, Sonic, Laser, GPS, or ATS electronics kit. Provides software, harnesses for sensors, mounting for sensors and blade mast bracket. Cat motor graders have an open architecture that allow aftermarket brands to install their grade control systems. To support integration of machine guidance systems other than Cat Grade or Trimble refer to AEXQ2281-00.

ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or
467-7423 120-14A MOTOR GRADER or
467-7424 120-14A MOTOR GRADER or
467-7425 120-14A AWD MOTOR GRADER

CANNOT BE USED WITH: 517-0699 NO ACCUM, NO ARO, JOYSTICK
468-1603 DRAWBAR, STANDARD, JSTK

L **561-7228** **CROSS SLOPE INDICATE, JOY** 0 **$10,780**

Provides real-time digital readout of the cross slope as a job aid to help an operator maintain an accurate and consistent cross slope. Cannot be used to automatically control one side of the blade like full Cross Slope.

CAN be upgraded to full Cross Slope or Cat GRADE.

ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or
467-7423 120-14A MOTOR GRADER or
467-7424 120-14A MOTOR GRADER or
467-7425 120-14A AWD MOTOR GRADER

CANNOT BE USED WITH: 517-0699 NO ACCUM, NO ARO, JOYSTICK
468-1603 DRAWBAR, STANDARD, JSTK

L **462-6506** **CROSS SLOPE JOY** 0 **$11,060**

Allows the operator to manually control one end of the blade to match the curb or crown while automatically maintaining the desired slope of the blade. This system is used to maintain the crown of a gravel road or the shoulder of a road. Provides cab switches, software, harnesses for sensors, mounting for sensors and blade mast bracket. Cat GRADE ARO is included in this option.

REQUIRES: 466-1316 JOYSTICK CONTROLS, ADVANCED

ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or
467-7423 120-14A MOTOR GRADER or
467-7424 120-14A MOTOR GRADER or
467-7425 120-14A AWD MOTOR GRADER

CANNOT BE USED WITH: 517-0699 NO ACCUM, NO ARO, JOYSTICK
468-1603 DRAWBAR, STANDARD, JSTK

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

TECHNOLOGY PRODUCTS (CONT.)

BLADE TECHNOLOGY (Cont.)

L **561-7617** **DIGITAL BLADE SLOPE METER,JOY** 0 **$2,855**

FOR USE IN LANE 3 ONLY
Provides an entry level real-time digital readout of the cross slope of the blade as a job aid to help an operator maintain an accurate and consistent cross slope. Can be used to measure/maintain true cross slope in a road when machine is NOT articulated and blade is perpendicular to machine. Does NOT automatically control elevation of one side of blade and is NOT upgradeable to Cat GRADE Cross Slope, Cross Slope Indicate, 2D (Cross Slope, Sonic, or Laser), or 3D (GPS or UTS) aftermarket options.
ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or
467-7423 120-14A MOTOR GRADER or
467-7424 120-14A MOTOR GRADER or
467-7425 120-14A AWD MOTOR GRADER and

MOTOR GRADER CONTROLS

L **466-1315** **JOYSTICK CONTROLS, BASIC** . . . . . 0 **NC**

Standard joystick controls.
ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or
467-7423 120-14A MOTOR GRADER or
467-7424 120-14A MOTOR GRADER or
467-7425 120-14A AWD MOTOR GRADER

L **466-1316** **JOYSTICK CONTROLS, ADVANCED** 0 **$2,030**

Provides enhanced functionality while using ATTACHMENT READY or GRADE CONTROL X SLOPE
INCLUDES:
- Advanced Joysticks
- Harness
- Films

ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or
467-7423 120-14A MOTOR GRADER or
467-7424 120-14A MOTOR GRADER or
467-7425 120-14A AWD MOTOR GRADER

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

TIRES, RIMS, AND WHEELS

Tires listed below include a set of six tires.

****To calculate tire loads with machine attachments, please reference the MG Tire Selection Pocket Guide (media #AEXQ0182), available on the Electronic Sales Library.
All tire selections should be made with consideration for planned machine attachments (OEM and aftermarket) and their additional weight. Each tire has a maximum load rating that is not to be exceeded. The tire selection should be based on the maximum of all tire position loads on the machine. Assistance for calculating the highest tire load can be found in the Tire Load Worksheet in the back of the Caterpillar Motor Graders Tire Selection Pocket Guide. Failure to abide by the load ratings of the tires without first consulting the local tire supplier representative could result in nullification of the tire warranty.**

Due to industry-wide tire availability limitations, tire brand and type cannot be guaranteed. Every effort will be made to satisfy your tire choice, but we reserve the right to change to alternate tires. If the tire brand cannot be supplied, we may contact the dealer. However, in some cases, we will change to an alternative premium brand tire without notice. If the tire type cannot be supplied, we will contact the dealer to propose alternatives. The dealer needs to choose between an alternative tire or a "rims only" option (where available) within 72 hours. If no response is provided by the deadline, the order will default to the alternative tire and will be changed at that point. As a consequence of a possible tire change, the total machine price will be decreased or increased depending on the price of the new tire.

The information provided can be used to make a tire selection based on the particular conditions at the site. When available, the tire manufacturer should be consulted regarding proper tire selection.

TIRES (TANDEM MACHINES)

FIRESTONE

L	254-7898	**TIRES, 13.0-24 FS SGG 12PR SP2**	66	**$–5,000**
		Firestone SGG RB 12PR bias (G2) on 9" x 24" single piece rim.		
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (6006 lbs) 2725 kg.**		
		ONLY FOR USE WITH: 467-7423 120-14A MOTOR GRADER		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

TIRES, RIMS, AND WHEELS (CONT.)

TIRES (TANDEM MACHINES) (Cont.)

L	252-0731	**TIRES, 17.5-25 FS SGG 12PR MP**	1,007	$2,730
		Firestone SGG LD 12PR bias (L2) on 14" multi-piece rim.		
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (6393lbs) 2900 kg.**		
		ONLY FOR USE WITH: 467-7423 120-14A MOTOR GRADER or 467-7424 120-14A MOTOR GRADER		
L	252-0753	**TIRES, 17.5-25 FS SRG 12PR MP**	1,061	$6,240
		Firestone SRG LD 12PR bias (L3) on 14" multi-piece rim.		
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (6393lbs) 2900 kg.**		
		ONLY FOR USE WITH: 467-7423 120-14A MOTOR GRADER		

GOODYEAR

L	340-2602	**TIRES,13.0-24 GY SGG 12 G2 SP**	102	$-3,940
		Goodyear SGG-2A 12PR bias (G2) on 9" single-piece rim.		
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (6007lbs) 2725 kg.**		
		ONLY FOR USE WITH: 467-7424 120-14A MOTOR GRADER or 467-7423 120-14A MOTOR GRADER		
L	305-6159	**TIRES, 14.0-24 GY SGG 16PR MP**	963	$1,010
		Goodyear SGG-2A 16PR bias (G2) on 14" multi-piece rim.		
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8046lbs) 3650 kg.**		
		ONLY FOR USE WITH: 467-7423 120-14A MOTOR GRADER or 467-7424 120-14A MOTOR GRADER		

MICHELIN

L	254-7904	**TIRES,14.0R24 MX XGLA2 * G2 SP**	709	$7,290
		Michelin XGLA 1* on 9" x 24" single piece rims.		
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (7824 lbs) 3550 kg.**		
		ONLY FOR USE WITH: 467-7423 120-14A MOTOR GRADER		
L	252-0701	**TIRES,14.0R24 MX XSNO+ * G2 MP**	1,282	$14,890
		Michelin XSNO 1* on 10" x 24" multi-piece rims.		
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (7824 lbs) 3550 kg.**		
		ONLY FOR USE WITH: 467-7423 120-14A MOTOR GRADER		
L	252-0767	**TIRES, 17.5R25 MX XHA * L3 MP**	1,662	$18,530
		Michelin XHA 1* on 14" x 25" multi-piece rims.		
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
		ONLY FOR USE WITH: 467-7423 120-14A MOTOR GRADER		
L	254-7970	**TIRES, 17.5R25 MX XHA * L3 SP**	1,270	$14,330
		FOR USE WITH LANE 3 ONLY		
		Michelin XHA 1* on 13" x 25" single piece rims.		
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
		ONLY FOR USE WITH: 467-7423 120-14A MOTOR GRADER		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

TIRES, RIMS, AND WHEELS (CONT.)

TIRES (TANDEM MACHINES) (Cont.)

L	252-0777	**TIRES,17.5R25 MX XSNO+ * G2 MP**	1,093	**$20,490**
		Michelin XSNO+ 1* on 14" x 25" multi-piece rims.		
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
		ONLY FOR USE WITH: 467-7423 120-14A MOTOR GRADER		
L	252-0771	**TIRES, 17.5R25 MX XTLA * L2 MP**	1,371	**$16,110**
		Michelin XTLA 1* on 14" x 25" multi-piece rims.		
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
		ONLY FOR USE WITH: 467-7423 120-14A MOTOR GRADER		
L	254-7971	**TIRES, 17.5R25 MX XTLA * L2 SP**	979	**$11,910**
		Michelin XTLA 1* on 13" x 25" single piece rims.		
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
		ONLY FOR USE WITH: 467-7423 120-14A MOTOR GRADER		
L	252-0679	**TIRES,14.0R24 MX XGLA2 * G2 MP**	1,069	**$10,860**
		Michelin XGLA2 1* on 10" x 24" multi-piece rims.		
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (7824 lbs) 3550 kg.**		
		ONLY FOR USE WITH: 467-7423 120-14A MOTOR GRADER or 467-7424 120-14A MOTOR GRADER		

BRIDGESTONE

L	252-0714	**TIRES, 14.0 R24 BS VKT * G2**	1,540	**$6,970**
		Bridgestone VKT 1* on 10" x 24" multi-piece rims.		
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
		ONLY FOR USE WITH: 467-7423 120-14A MOTOR GRADER		
L	252-0708	**TIRES, 14.0R24 BS VSW * G2 MP**	1,481	**$13,320**
		Bridgestone VSW 1* on 10" x 24" multi-piece rims.		
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
		ONLY FOR USE WITH: 467-7423 120-14A MOTOR GRADER		
L	252-0720	**TIRES, 14.0R24 BS VUT * L2 MP**	1,012	**$7,250**
		Bridgestone VUT 1* on 10" x 24" multi-piece rims.		
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
		ONLY FOR USE WITH: 467-7423 120-14A MOTOR GRADER or 467-7424 120-14A MOTOR GRADER		
L	252-0775	**TIRES, 17.5R25 BS VKT * D2A MP**	1,810	**$13,450**
		Bridgestone VKT 1* on 14" x 25" multi-piece rims.		
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
		ONLY FOR USE WITH: 467-7423 120-14A MOTOR GRADER or 467-7424 120-14A MOTOR GRADER		
L	310-7331	**TIRES, 17.5R25 BS VSW * G2 MP**	1,888	**$18,590**
		Bridgestone VSW 1* on 14" x 25" multi-piece rims.		
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
		ONLY FOR USE WITH: 467-7423 120-14A MOTOR GRADER		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

TIRES, RIMS, AND WHEELS (CONT.)

TIRES (AWD MACHINES)

GOODYEAR

L	452-2804	TIRES,14R24 GY 16PR SGG RB MP	0	$1,030
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8046lbs) 3650 kg.**		
		ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or 467-7425 120-14A AWD MOTOR GRADER		

MICHELIN

L	452-2798	TIRES, 17.5R25 MX XSNO + 1* MP	0	$20,900
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8046lbs) 3650 kg.**		
		ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or 467-7425 120-14A AWD MOTOR GRADER		
L	452-2802	TIRES, 14.0R24 MX XGLA2 1* MP	0	$11,080
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (7826lbs) 3550 kg.**		
		ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or 467-7425 120-14A AWD MOTOR GRADER		
L	452-2803	TIRES, 14.0R24 MX XSNO + 1* MP	0	$15,190
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (7826lbs) 3550 kg.**		
		ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or 467-7425 120-14A AWD MOTOR GRADER		
L	452-2810	TIRES, 17.5R25 MX XHA 1* MP L	0	$18,900
		ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or 467-7425 120-14A AWD MOTOR GRADER		
L	452-2811	TIRES, 17.5R25 MX XTLA 1*MP L2	0	$13,720
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8046lbs) 3650 kg.**		
		ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or 467-7425 120-14A AWD MOTOR GRADER		

BRIDGESTONE

L	452-2797	TIRES,14.00R24 BS VKT 1* G2 MP	1,368	$9,620
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8046lbs) 3650 kg.**		
		ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or 467-7425 120-14A AWD MOTOR GRADER		
L	452-2800	TIRES,14.0R24 BS VSW TL 1* MP	0	$13,590
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8046lbs) 3650 kg.**		
		ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or 467-7425 120-14A AWD MOTOR GRADER		
L	452-2801	TIRES,14.0R24 BS VUT G2A 1* MP	0	$5,930
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8046lbs) 3650 kg.**		
		ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or 467-7425 120-14A AWD MOTOR GRADER		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

TIRES, RIMS, AND WHEELS (CONT.)

TIRES (AWD MACHINES) (Cont.)

L	452-2805	**TIRES, 17.5-25 BS SGG 12PR MP**	0	$2,785
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (6393lbs) 2900 kg.** ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or 467-7425 120-14A AWD MOTOR GRADER		
L	452-2806	**TIRES,17.5R25* BS VKT L2 L3 MP**	0	$12,510
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8046lbs) 3650 kg.** ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or 467-7425 120-14A AWD MOTOR GRADER		
L	452-2808	**TIRES,17.5R25 BS VSW 1* G2 MP**	0	$18,960
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8046lbs) 3650 kg.** ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or 467-7425 120-14A AWD MOTOR GRADER		

OTHER ATTACHMENTS

REAR PANELS

L	518-1195	**REAR PANEL W/O ACCESS DOOR**	0	NC
		No access entry without removing cover to clean front cooling core.		
L	498-8871	**REAR PANEL W/ ACCESS DOOR**	0	$204
		Provides easy access to clean out front cooling core.		

FLUIDS

CAB ANTIFREEZE

	0P-1939	**ANTIFREEZE WINDSHIELD WASHER**	0	NC
		For use with machines with cab.		

FUEL ANTIFREEZE

	0P-3978	**FUEL ANTIFREEZE, -25C (-13F)**	0	NC
		Provides fuel (diesel) antifreeze protection down to -25C (-13F)		

DOCUMENTATION

LANGUAGE SELECTION

NOTE: This part number will provide the language for Messenger and Statement of Conformity.

P	462-6595	**LANGUAGE, ENGLISH**	0	NC

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

FEATURE PACKAGES

HEADLIGHTS PACKAGE

Cannot mix halogen and LED light packages.

L	564-5009	**LOW BAR, HALOGEN, JOY, TND**	0	$640
		Provides halogen low bar headlights with front turn signals, dimmer switch for road lighting.		
		ONLY FOR USE WITH: 467-7423 120-14A MOTOR GRADER or 467-7424 120-14A MOTOR GRADER		
P	564-5016	**LOW BAR, LED, JOY, TND**	0	$1,365
		Provides LED low bar headlights with front turn signals, dimmer switch for road lighting.		
		ONLY FOR USE WITH: 467-7423 120-14A MOTOR GRADER or 467-7424 120-14A MOTOR GRADER		
L	564-4990	**LOW BAR, HALOGEN, JOY, AWD**	0	$640
		Provides halogen low bar headlights with front turn signals, dimmer switch for road lighting.		
		ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or 467-7425 120-14A AWD MOTOR GRADER		
L	564-5015	**LOW BAR, LED, JOY, AWD**	0	$1,365
		Provides LED low bar headlights with front turn signals, dimmer switch for road lighting.		
		ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or 467-7425 120-14A AWD MOTOR GRADER		

WORK LIGHT PACKAGES (JOYSTICK MACHINES)

Cannot mix halogen and LED light packages.

L	468-7615	**LIGHTS,WORKING,BASIC HAL,JOY**	0	$770
		INCLUDES:		
		Lights, Halogen, Heel		
		Lights, Halogen, Midframe Toe		
		Switch, Work Lighting		
		ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or 467-7423 120-14A MOTOR GRADER or 467-7424 120-14A MOTOR GRADER or 467-7425 120-14A AWD MOTOR GRADER		
L	468-7617	**LIGHTS, WORKING, PLUS,HAL,JOY**	0	$1,035
		INCLUDES:		
		Lights, Ripper		
		Lights, Halogen, Heel		
		Lights, Halogen Midframe Toe		
		Switch, Work Lighting		
		ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or 467-7423 120-14A MOTOR GRADER or 467-7424 120-14A MOTOR GRADER or 467-7425 120-14A AWD MOTOR GRADER		
L	561-6397	**LIGHTS,WORKING,BASIC,LED,JOY**	0	$1,500
		INCLUDES:		
		Lights, LED, Heel		
		Lights, LED, Midframe Toe		
		Switch, Work Lighting		
		ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or 467-7423 120-14A MOTOR GRADER or 467-7424 120-14A MOTOR GRADER or 467-7425 120-14A AWD MOTOR GRADER		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

FEATURE PACKAGES (CONT.)

WORK LIGHT PACKAGES (JOYSTICK MACHINES) (Cont.)

L	561-6399	**LIGHTS, WORKING, PLUS,LED,JOY**	0	$2,590

INCLUDES:
Lights, LED, Ripper
Lights, LED, Heel
Lights, LED, Midframe Toe
Switch, Work Lighting
ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or
467-7423 120-14A MOTOR GRADER or
467-7424 120-14A MOTOR GRADER or
467-7425 120-14A AWD MOTOR GRADER

CAB LIGHTS

Cannot mix halogen and LED light packages.

L	466-1301	**LIGHTS, CAB HALOGEN, JOY**	0	$510

INCLUDES:
4 Front Facing Halogen Lights
2 Rear Facing Halogen Lights
ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or
467-7423 120-14A MOTOR GRADER or
467-7424 120-14A MOTOR GRADER or
467-7425 120-14A AWD MOTOR GRADER

L	466-1302	**LIGHTS, CAB LED, JOY**	0	$1,755

INCLUDES:
4 Front Facing LED Lights
2 Rear Facing LED Lights
ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or
467-7423 120-14A MOTOR GRADER or
467-7424 120-14A MOTOR GRADER or
467-7425 120-14A AWD MOTOR GRADER

OTHER OPTIONAL ATTACHMENTS

L	435-9816	**LIGHTS, SERVICE, INTERNAL**	0	NC

Provide one light, operated by single switch in rear enclosure that illuminate engine compartment.

L	214-2470	**TRANSMISSION, AUTOSHIFT, JOY**	5	$4,020

Improves ease of operation and maximizes productivity by automatically shifting the transmission at optimal shift points.
ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or
467-7423 120-14A MOTOR GRADER or
467-7424 120-14A MOTOR GRADER or
467-7425 120-14A AWD MOTOR GRADER

L	466-1307	**WARNING LIGHT, MOUNTING, JOY**	0	$725

Mounting bracket only. Need to provide own beacon light.
ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or
467-7423 120-14A MOTOR GRADER or
467-7424 120-14A MOTOR GRADER or
467-7425 120-14A AWD MOTOR GRADER
CANNOT BE USED WITH: LIGHT, LED WARNING STROBE

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

FEATURE PACKAGES (CONT.)

OTHER OPTIONAL ATTACHMENTS (Cont.)

L	466-1299	**LIGHT,LED WARNING STROBE,JOY**	0	$1,290
		INCLUDES: 2 x (front and rear) amber high-speed strobe beacon light, and mounting brackets. ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or 467-7423 120-14A MOTOR GRADER or 467-7424 120-14A MOTOR GRADER or 467-7425 120-14A AWD MOTOR GRADER		
L	565-9664	**KIT, CIRCLE SAVER**	0	$238
		Remote Circle Drive Greasing point (Zerk). Located top of drawbar for easy servicing of circle drive gear. Helps the pinion maintain its lubrication caused by lack of grease in this component.		

ELECTRICAL

JUMP START

L	506-4261	**JUMP START RECEPTACLE**	0	$71
		Need CAT style PLUG jump cables. REQUIRED BY: 460-7652 120-14A AWD MOTOR GRADER or 467-7423 120-14A MOTOR GRADER		
L	506-4262	**JUMP START STUDS**	0	NC
		Traditional jump start studs used with alligator clamp style jumper cables. REQUIRED BY: 460-7652 120-14A AWD MOTOR GRADER or 467-7423 120-14A MOTOR GRADER		

ALTERNATOR

L	438-5768	**ALTERNATOR, 145 AMP**	0	NC
		REQUIRED BY: 467-7424 120-14A MOTOR GRADER or 467-7425 120-14A AWD MOTOR GRADER or 460-7652 120-14A AWD MOTOR GRADER or 467-7423 120-14A MOTOR GRADER		
L	438-5769	**ALTERNATOR, 150 AMP**	0	$560
		Brushless. REQUIRED BY: 467-7424 120-14A MOTOR GRADER or 467-7425 120-14A AWD MOTOR GRADER or 460-7652 120-14A AWD MOTOR GRADER or 467-7423 120-14A MOTOR GRADER		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

OPERATOR ENVIRONMENT

CAMERA

L	467-7439	**CAMERA, REAR VISION, JOY**	0	$2,535
		Provides a 115 degree color camera mounted on the rear of the hood that is connected to a 7 inch (178mm) LCD color display mounted in the cab which shows the view behind the machine. ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or 467-7423 120-14A MOTOR GRADER or 467-7424 120-14A MOTOR GRADER or 467-7425 120-14A AWD MOTOR GRADER CANNOT BE USED WITH: CAMERA,REAR/FRONT VISION		
L	561-9489	**CAMERA,REAR/FRONT VISION,JOY**	0	$2,755
		Provides a 115 degree color camera mounted in the rear, and 2 front camera's elevated behind front bolster. Connected to 7 inch (178mm) LCD color display. Selectable rear display or front split screen. ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or 467-7423 120-14A MOTOR GRADER CANNOT BE USED WITH: CAMERA REAR VISION		

MIRRORS

L	466-1323	**MIRRORS, EXTERNAL, BASE, JOY**	0	$495
		Mirrors, Outside Mounted. ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or 467-7423 120-14A MOTOR GRADER or 467-7424 120-14A MOTOR GRADER or 467-7425 120-14A AWD MOTOR GRADER		
L	466-1324	**MIRRORS, EXTERNAL, HEATED,JOY**	0	$670
		FOR USE IN LANE 3 ONLY Provides mirrors with a 24V heating element to keep mirrors ice free in cold weather operations. NOTE: The mirrors are wrapped in bubble wrap and rotated toward the doors for protection during shipment. ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or 467-7423 120-14A MOTOR GRADER or 467-7424 120-14A MOTOR GRADER or 467-7425 120-14A AWD MOTOR GRADER		

WIPER SIDE AND REAR

L	466-1284	**WIPER, SIDE, JOY**	0	$510
		INCLUDES: 2 front lower wipers. 1 for each side ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or 467-7423 120-14A MOTOR GRADER or 467-7424 120-14A MOTOR GRADER or 467-7425 120-14A AWD MOTOR GRADER CANNOT BE USED WITH: CAB,BASE(SLIDER, WINDOW)		
L	501-7972	**WIPER, REAR, JOY**	0	$357
		INCLUDES: 2 rear side wipers. 1 for each side ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or 467-7423 120-14A MOTOR GRADER or 467-7424 120-14A MOTOR GRADER or 467-7425 120-14A AWD MOTOR GRADER		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

TECHNOLOGY PRODUCTS

L	458-2072	**STABLE BLADE**	3	$2,470
		Provides sensor and software to automatically reduce engine speed in various applications to reduce machine bounce and scalloping of surface.		

SECURITY SYSTEM

L	466-1326	**SECURITY SYSTEM, MACHINE,JOY**	0	$720
		Provides a programmable system to manage access to the machine using special Bluetooth Low Energy (BLE) key or display PIN. Deters theft, vandalism, and unauthorized use. Programmable features allow the following: - limits operators to selected machines - controls the days and hours equipment may be started - controls access by untrained operators or personnel - disarm system during regular working hours for standard key usage - allows expiration date on key The machine will be shipped with the system inactive. Required Caterpillar Service Tool, Electronic Technician (ET) to activate and modify programming of key. *Note it does not include programmed key.		
		ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or 467-7423 120-14A MOTOR GRADER or 467-7424 120-14A MOTOR GRADER or 467-7425 120-14A AWD MOTOR GRADER		

CONTROL AUTO ARTICULATION

L	435-8660	**CONTROL,AUTO ARTICULATION-FULL**	0	$1,810
		Auto Articulation configuration. This feature is enable and disable with a keypad button (keypad is standard).		

GUARDS

SOUND SUPPRESSION

L	425-1795	**SOUND SUPPRESSION**	0	$1,540
		Sound suppression rear panel enclosure. Provide additional sound protection to operators.		

GUARDS BOTTOM

L	453-4972	**GUARD, BOTTOM**	0	$3,400
		Provides a steel guard to protect the transmission from ground debris.		
L	448-5729	**GUARD, BOTTOM W/SOUND SUPPR**	0	$5,690
		Protects transmission mounts under rear frame with sound dentin material.		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

GUARDS (CONT.)

GUARDS COVER

L	462-9053	**GUARD, COVER CAB, JOY**	0	$459

Protects components under and bottom side of cab.
ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or
467-7423 120-14A MOTOR GRADER or
467-7424 120-14A MOTOR GRADER or
467-7425 120-14A AWD MOTOR GRADER

GUARDS DEBRIS

L	565-1088	**GUARD, DEBRIS**	0	$1,160

Recommend for environments with large debris. Guard position under rear frame.

GUARDS WINDOW

L	511-8934	**GUARD, WINDOW, JOY**	0	$92

Rear window guard- includes two rear window corner bar.
ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or
467-7423 120-14A MOTOR GRADER or
467-7424 120-14A MOTOR GRADER or
467-7425 120-14A AWD MOTOR GRADER

GUARDS CYLINDER

L	367-6905	**GUARD, AXLE HOSE**	15	$1,075

Provides additional protection to the front axle cylinders.
lines, and fittings.
ONLY FOR USE WITH: 467-7425 120-14A AWD MOTOR GRADER or
460-7652 120-14A AWD MOTOR GRADER

FENDERS

L	500-8540	**FENDERS, REAR**	0	$5,400

FOR USE IN LANE 3 ONLY
Provides non-metallic rear fenders to aid in reducing the build-up of mud, snow, or debris. Rear fenders are compatible with all MG tire sizes offered by the factory. NOT recommended for use with tire chains.
ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or
467-7423 120-14A MOTOR GRADER or
467-7424 120-14A MOTOR GRADER or
467-7425 120-14A AWD MOTOR GRADER

L	498-3458	**FENDERS, FRONT, JOY, TND**	0	$4,130

FOR USE IN LANE 3 ONLY
Non-metallic front fenders aid in reducing the build-up of mud, snow, or debris. Front fenders are compatible with all Non-AWD tire sizes offered by the factory. NOT recommended for use with tire chains
ONLY FOR USE WITH: 467-7423 120-14A MOTOR GRADER or
467-7424 120-14A MOTOR GRADER
CANNOT BE USED WITH: MID-MOUNT SCARIFIER

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

GUARDS (CONT.)

FENDERS (Cont.)

L	515-7420	**FENDERS, FRONT, AWD**	0	$3,795

FOR USE IN LANE 3 ONLY
Non-metallic front fenders aid in reducing the build-up of mud, snow, or debris. Front fenders are compatible with all Non-AWD tire sizes offered by the factory. NOT recommended for use with tire chains
ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or
467-7425 120-14A AWD MOTOR GRADER
CANNOT BE USED WITH: MID-MOUNT SCARIFIER

OTHER ATTACHMENTS

L	336-1559	**PUSH PLATE, COUNTERWEIGHT**	2,000	$4,010

Front mounted. Recommended when machine is equipped with rear ripper/scarifier and other rear mounted attachments.
NOTE: This cannot be used in conjunction with counterweight, any front lift work tools,or the 'installed' hydraulic front lift. It can be used with a not installed hydraulic front lift
CANNOT BE USED WITH: 468-2229 MMS-V TYPE W/O BOLTER BRACKET

L	518-4634	**FRONT BLADE PACKAGE**	0	$11,520

FOR USE IN LANE 3 ONLY
INCLUDES:
Front Blade, A-Frame drawbar 9'x 3' (2,750 x 900mm) Front blade with up and down hydraulic functions.
Hydraulic Line for Front Blade
Lines, Front Blade
ONLY FOR USE WITH: 460-7652 120-14A MOTOR GRADER AWD or
467-7423 120-14A MOTOR GRADER or
467-7424 120-14A MOTOR GRADER or
467-7425 120-14A MOTOR GRADER AWD or
HYDRAULICS BASE (FL)

DECAL PACKAGES

L	462-6655	**DECALS, ENGLISH (U.S)**	0	NC

Provides decals required by ANSI
ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or
467-7423 120-14A MOTOR GRADER

STARTING AIDS

L	422-6605	**STARTING AID**	0	NC

Starting, Ether.
ONLY FOR USE WITH: 460-7652 120-14A AWD MOTOR GRADER or
467-7423 120-14A MOTOR GRADER
REQUIRED BY: WEATHER COLD

ENGINE COOLANT HEATERS

L	255-1336	**HEATER, ENGINE COOLANT, 120V**	1	$230

Engine coolant heater for 120 volt external power source.

L	255-1337	**HEATER, ENGINE COOLANT, 240V**	3	$228

Engine coolant heater for 240 volt external power source.

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

OTHER ATTACHMENTS (CONT.)

STEP, REAR FRAME

L	516-6625	**STEP, ADDITONAL ON REAR FRAME**	0	$665
		INCLUDES: - 2 Step - 2 Grab handles. Assist in mounting and dismounting from the rear.		

CONVERTER

L	466-1298	**CONVERTER, 24V TO 12V**	0	$388
		Converts 24v to 12v to run 12v accessories inside the cab.		

MANUFACTURING PLATE

L	454-3222	**PLATE, LICENSE**	0	NC
		Provides license plate support if required.		

WORK TOOLS

REAR WORK TOOLS

L	481-8668	**NO HITCH**	0	NC
		Provides a plate that bolts to the bumper that allows for attachment points for ripper or auxiliary hoses. REQUIRED BY: 460-7652 120-14A AWD MOTOR GRADER or 467-7423 120-14A MOTOR GRADER or 467-7424 120-14A MOTOR GRADER or 467-7425 120-14A AWD MOTOR GRADER		
L	416-6892	**HITCH, TOWING**	0	$540
		Retrieval hitch. Does not include pin. REQUIRED BY: 460-7652 120-14A AWD MOTOR GRADER or 467-7423 120-14A MOTOR GRADER or 467-7424 120-14A MOTOR GRADER or 467-7425 120-14A AWD MOTOR GRADER		
L	456-5359	**RIPPER**	1,350	$12,640
		Hydraulic, rear mounted ripper with three straight ripper shanks. Can accommodate two additional ripper shanks which must be ordered separately. ONLY FOR USE WITH: HYDRAULICS BASE (RIP) REQUIRED BY: 460-7652 120-14A AWD MOTOR GRADER or 467-7423 120-14A MOTOR GRADER or 467-7424 120-14A MOTOR GRADER or 467-7425 120-14A AWD MOTOR GRADER		

BRACKET (MID-MOUNT SCARIFIER)

P	339-7734	**BRACKET**	0	NC
		FOR USE IN LANE 3 ONLY ONLY FOR USE WITH: HYDRAULICS BASE (MMS)		
P	468-2228	**MMS-V TYPE W/BOLSTER BRACKET**	0	$16,290
		FOR USE IN LANE 3 ONLY ONLY FOR USE WITH: HYDRAULICS BASE (MMS)		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

WORK TOOLS (CONT.)

BRACKET (MID-MOUNT SCARIFIER) (Cont.)

P	468-2229	**MMS-V TYPE W/O BOLTERS BRACKET**	0	$16,290
		FOR USE IN LANE 3 ONLY ONLY FOR USE WITH: HYDRAULICS BASE (MMS)		

GROUND ENGAGING TOOLS

P	8J-5313	**TOOTH, STRAIGHT**	26	$381
		Ripper tooth group for rear ripper. Includes one straight shank with ripper tooth. Recommended order quantity of 2		

FIELD INSTALLED ATTACHMENTS

Available Through Parts Distribution
Reference numbers below are kits used to upgrade existing motor graders with new features or technology

L	452-3133	**EXTENSION,BLADE,24"X24"X7/8"LH**
L	452-3132	**EXTENSION,BLADE,24"X27"X1"LH**
L	243-6685	**EXTENSION,BLADE,24"X24"X7/8"RH**
L	110-5326	**EXTENSION,BLADE,24"X 27"X1" RH**

PACKING

EXPORT PACKING

	0P-2265	**ROLL ON-ROLL OFF**	0	$304 NET
		(Cab or canopy remains mounted.)		
	0P-2962	**SHIPPING TIRE FREIGHT OPTION**	0	NC
		This 0P is required when the machine is ordered with the Shipping Tire This insures the correct trailer is used for shipment preventing This is informational only and there is no additional charge. REQUIRED BY: TIRES, 17.5 SHIPPING, MP		
	0P-6706	**BUNDLE EXPORT PACKING**	0	NC
		This OP should be ordered for all miscellaneous orders.		

SPECIAL INSTRUCTIONS

EXPOSITION MACHINE

	0P-2949	**EXPOSITION INSTRUCTION**	0	NC
		This special instruction must be selected whenever dealer is placing an order for a unit intended for use at expositions and/or trade fairs.		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

PACKING (CONT.)

PACKING STAIRS

0P-6588	**REMOVE PACK LEFT SIDE STAIRS**	0	**NC**
	REQUIRED BY: 515-7420 FENDERS, FRONT, AWD or 498-3458 FENDER, FRONT, JOY TND and 320-7431 MOLDBOARD, 14' BASIC		

120 MOTOR GRADER
PIRACICABA, BRAZIL

Ship Weight lbs | LIST PRICE AT DEALER

Standard Equipment:

POWERTRAIN

Air cleaner, dual stage dry type radial seal with service indicator through messenger and automatic dust ejector
Air-to-air after cooler (ATAAC)
Brakes, oil disc, four-wheel, hydraulic
Demand fan, hydraulic
Differential, lock/unlock, auto
Drain, engine oil, ecology
Engine:
-C7.1 diesel, with automatic engine derate, and idle control.
-Optimized VHP Plus
-Engine ECO mode
-Fuel-water separator
Parking brake, multi-disc, sealed and oil cooled
Priming pump, fuel
Transmission, 8 speed forward and 6 speed reverse, power shift, direct drive

ELECTRICAL

Alarm, back-up
Alternator,
Batteries, maintenance free
Electrical system, 24V

OPERATOR ENVIRONMENT

Display, digital speed and gear
Gauge, machine level
Gauges (analog) inside the cab (includes fuel, articulation, engine coolant temp, engine RPM, and hydraulic oil temp)
Ladders, cab, left and right side
Message operator information display, meter, hour, digital
ISO 6394 (70% fan speed)
Throttle control, electronic

SAFETY AND SECURITY

Clutch, circle drive slip
Doors, engine compartment,
Ground level engine shutdown
Seat belt, retractable 76.2 (3")

TIRES, RIMS, AND WHEELS

A partial allowance for tires on 254mm x 609mm (10"x24") multi-piece rims is included in the base machine weight and price

OTHER STANDARD EQUIPMENT

CD ROM parts book
Doors, service compartment, locking
SOS ports, engine, hydraulic, transmission, coolant, fuel
Tool box
Fuel tank, 225 liters (59 gallon)
Radiator, cleanout access

120 MOTOR GRADER
PIRACICABA, BRAZIL

		Ship Weight lbs	LIST PRICE AT DEALER
	Lane 2 is reserved for the Base Order Management Program. Please use Lane 2 when placing orders that are part of the Base Order Management Program.		
468-2237	**120 14A MOTOR GRADER**	0	**$263,780**
	LANE 2 - AVAILABLE FROM PIRACICABA FACTORY LANE 3 - AVAILABLE FROM PIRACICABA FACTORY		
	REQUIRES: LEVER IMPLEMENT CONTROLS AVAILABLE FOR: AM-N, EU		
460-7653	**120 14A AWD MOTOR GRADER**	0	**$308,500**
	LANE 2 - AVAILABLE FROM PIRACICABA FACTORY LANE 3 - AVAILABLE FROM PIRACICABA FACTORY		
	REQUIRES: LEVER IMPLEMENT CONTROLS AVAILABLE FOR: AM-N, EU		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

LANE SELECTION

	0P-9002	**LANE 2 ORDER**	0	NC
		Only for dealers enrolled in the Base Orders Management (BOM) program.		
	0P-9003	**LANE 3 ORDER**	0	NC

REGIONAL PACKAGES

L	561-9459	**GLOBAL ARRANGEMENT LVR**	0	NC
		ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or 468-2237 120-14A MOTOR GRADER		

PERFORMANCE PACKAGES

MOLDBOARDS

L	320-9924	**MOLDBOARD, 12′ BASIC**	0	NC
		INCLUDES: Moldboard 12'x 24"x7/8" (3658 x 610 x 22mm) with hydraulic side shift and 5/8" (15.89mm) end bits. Cutting edge 8"x 3/4" (203 x 19.mm) curved cutting edge. COMPATIBLE WITH ALL HYDRAULICS		
L	436-3473	**MOLDBOARD, 12′ PLUS**	485	$710
		INCLUDES: Moldboard 12'x 24"x7/8" (3658 x 610 x 22mm) with hydraulic side shift and 5/8" (15.89mm) end bits. g edge. Cutting edge 8"x 3/4" (203 x 19mm) curved cutting edge. Reversible end bits overlay with curved edges, can protect moldboard and cutting edges. Reversible pair for use with 8" x 3/4" (203 x 19mm) cutting edge		
L	320-7431	**MOLDBOARD, 14′ BASIC**	75	$2,265
		INCLUDES: Moldboard 14'x 27"x7/8" (4267 x 686 x 22mm) with hydraulic side shift and 5/8" (15.89mm) end bits. Cutting edge 8"x 3/4" (203 x 19mm) curved cutting edge. Reversible end bits overlay with curved edges, can protect moldboard and cutting edges. Reversible pair for use with 8" x 3/4" (203 x 19mm) cutting edge.		

WEATHER PACKAGES (TANDEM MACHINES)

L	467-7404	**WEATHER, STANDARD TND**	0	NC
		Recommended for year around use when typical ambient temperature range is 0 degrees C (32 degrees F) to 43 degrees C (110 degrees F) and operating at altitude below 1220 m (4000 feet). INCLUDES: Batteries, Heavy Duty - 1125 CCA Oil, Hydraulic, 10W ONLY FOR USE WITH: 468-2237 120-14A MOTOR GRADER		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

PERFORMANCE PACKAGES (CONT.)

WEATHER PACKAGES (TANDEM MACHINES) (Cont.)

L	467-7411	**WEATHER, COLD TND**	0	$745

Recommended for year around use when typical ambient temperature range is -18 degrees C (0 degrees F) to 43 degrees C (110 degrees F) and operating at altitude below 1220 m (4000 feet).
INCLUDES:
Batteries, Extreme Duty -1400 CCA
Oil, Hydraulic, 10W
Jump Start Stud
Cold Start; Transmission cooler bypass
REQUIRES: STARTER, HEAVY DUTY
ONLY FOR USE WITH: 468-2237 120-14A MOTOR GRADER

L	467-7418	**WEATHER, COLD PLUS TND**	0	$2,725

Recommended for year around use when typical ambient temperature range is -40 degrees C (-40 degrees F) to 40 degrees C (104 degrees) or operating at altitude above 1220 m (4000 feet).
INCLUDES:
Starting Aid, Ether
Cold Start; Transmission cooler and filter bypass
Batteries, Extreme Duty -1400 CCA
Oil, Hydraulic, Cold, 0W-20
Jump Start Stud
REQUIRES: STARTER, HEAVY DUTY
ONLY FOR USE WITH: 468-2237 120-14A MOTOR GRADER

WEATHER PACKAGES (AWD MACHINES)

L	467-7403	**WEATHER, STANDARD AWD**	0	NC

Recommended for year around use when typical ambient temperature range is 0 degrees C (32 degrees F) to 43 degrees C (110 degrees F) and operating at altitude below 1220 m (4000 feet).
INCLUDES:
Batteries, Heavy Duty - 1125 CCA
Oil, Hydraulic, 10W
ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER

L	467-7410	**WEATHER, COLD AWD**	0	$745

Recommended for year around use when typical ambient temperature range is -18 degrees C (0 degrees F) to 43 degrees C (110 degrees F) and operating at altitude below 1220 m (4000 feet).
INCLUDES:
Batteries, Extreme Duty -1400 CCA
Cold Start; Transmission cooler and filter bypass
Oil, Hydraulic, 10W
Jump Start Stud
REQUIRES: STARTER, HEAVY DUTY
ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

PERFORMANCE PACKAGES (CONT.)

WEATHER PACKAGES (AWD MACHINES) (Cont.)

L 467-7417 **WEATHER, COLD PLUS AWD** 0 **$2,670**

Recommended for year around use when typical ambient temperature range is -40 degrees C (-40 degrees F) to 40 degrees C (104 degrees) or operating at altitude above 1220 m (4000 feet).
INCLUDES:
Starting Aid, Ether
Cold Start; Transmission cooler and filter bypass
Batteries, Extreme Duty -1400 CCA
Oil, Hydraulic, Cold, 0W-20
Jump start stud
REQUIRES: STARTER, HEAVY DUTY
ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER

ACCUMULATORS

L 465-4422 **NO ACCUMULATORS, NO ARO, LVR** . . . . . 0 **NC**

For use on units NOT equipped with ARO.
Provides hydraulic lines for base functions.
ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or
468-2237 120-14A MOTOR GRADER or
468-2238 120-14A MOTOR GRADER or
468-2239 120-14A AWD MOTOR GRADER
CANNOT BE USED WITH: ARO HYDRAULICS BASE
CROSS SLOPE
CAT GRADE ARO

L 465-4423 **NO ACCUMULATORS, W/ARO, LVR** . . . . . 0 **NC**

For units equipped with ARO.
INCLUDES:
Lines GP Cylinder, Adapter and Hose, Pump
Non-Accumulator
ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or
468-2237 120-14A MOTOR GRADER or
468-2238 120-14A MOTOR GRADER or
468-2239 120-14A AWD MOTOR GRADER
CANNOT BE USED WITH: NO ARO HYDRAULICS BASE
CROSS SLOPE
DRAWBAR, STANDARD

L 468-2255 **ACCUMULATORS, WITH ARO, LVR** 0 **$4,605**

For units equipped with ARO.
Provides hydraulic lines for base functions and accumulators for the blade lift. Allows approximately 1-3" (25-76mm) of vertical blade travel to reduce impact loads. Nitrogen/oil accumulators activated by electric
switch.
ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or
468-2237 120-14A MOTOR GRADER or
468-2238 120-14A MOTOR GRADER or
468-2239 120-14A AWD MOTOR GRADER and
561-9459 GLOBAL ARRANGEMENT LEVER or
491-7082 EUROPEAN ARRANGEMENT LEVER AWD or
566-0884 EUROPEAN ARR LEVER TANDEM
CANNOT BE USED WITH: NO ARO HYDRAULICS BASE
DRAWBAR, STANDARD

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

PERFORMANCE PACKAGES (CONT.)

ACCUMULATORS (Cont.)

L 472-5078 **ACCUMULATORS, NO ARO, LVR** 0 $4,605
For use on units NOT equipped with ARO.
Provides hydraulic lines for base functions and accumulators for the blade lift. Allows approximately 1-3" (25-76mm) of vertical blade travel to reduce impact loads. Nitrogen/oil accumulators activated by electric
switch.
ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or
468-2237 120-14A MOTOR GRADER or
468-2238 120-14A MOTOR GRADER or
468-2239 120-14A AWD MOTOR GRADER and
561-9459 GLOBAL ARRANGEMENT LEVER or
491-7082 EUROPEAN ARRANGEMENT LEVER AWD or
566-0884 EUROPEAN ARR LEVER TANDEM
CANNOT BE USED WITH: ARO HYDRAULICS BASE
CROSS SLOPE
468-1607 DRAWBAR, TOP ADJUST, LEVER

DRAWBAR ARRANGEMENT

L 468-1602 **DRAWBAR, STANDARD, HYD TIP,LVR** . . . . . 0 $-1,550
Standard (H-Type, A-Frame) DCM. Standard shimmed circle wear strips.
Standard shimmed moldboard wear strips.
Intended for customers who perform rough grading or road maintenance and do not frequently maintain their drawbar, circle and moldboard.
ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or
468-2237 120-14A MOTOR GRADER
CANNOT BE USED WITH: ACCUMULATORS, WITH ARO
NO ACCUMULATORS, W/ARO

L 468-1607 **DRAWBAR,TOP ADJUST,HYD TIP,LVR** 0 $1
Top Adjust (M-Type, A-Frame) DCM. Top-adjust circle wear strips.
Setscrew moldboard wear strip adjustment. Adjustment allows for DCM assembly to keep tighter grades.
Ideal for customers who perform finish grading work and frequently maintain their drawbar, circle and moldboard for factory tightness.
ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or
468-2237 120-14A MOTOR GRADER

POWERTRAIN

ENGINE

L 549-6535 **ENGINE, STAGE IV AM-N** . . . . . 0 NC
DEDICATED TO HIGHER REGULATED COUNTRIES (HRC), including:
- Caterpillar C7.1 ACERT diesel engine turbo charged.
EPA Tier 4 Final / EU Stage IV certified engine with aftertreatment
ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or
468-2237 120-14A MOTOR GRADER
AVAILABLE FOR: AM-N

OIL CHANGE

L 422-6603 **DRAIN, GRAVITY, ENGINE OIL** . . . . . 0 NC
Standard engine oil drain

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

POWERTRAIN (CONT.)

OIL CHANGE (Cont.)

L	505-7041	**DRAIN, HIGH SPEED, ENGINE OIL**	0	$286
		High speed engine oil drain. Requires pump at service location to be attached to coupling receiver for high speed flow. high speed oil drain can also be used manual/gravity drain.		

HYDRAULICS

NOTE: Hydraulic Definitions

COMMON FUNCTIONS:

LEVER MACHINES
Base = 7 functions: right and left blade lift, circle turn, drawbar center shift, blade side shift, front wheel lean, frame articulation.
Float function standard for all hydraulic packages.

FL = Front Lift (moves front work tools up/down)
DA1 = Dozer Angle 1 (angles front blade left OR right)
DA2 = Dozer Angle 2 (angles front blade left AND right)
RIP = Rear Mounted Ripper (moves ripper up/down)
TIP = Blade Tip
MMS = Mid-Mounted Scarifier
WM = Wing Mast (Snow Wing)
WT = Wing Tilt (Snow Wing)

HYDRAULICS

L	468-2253	**BASE + 1 (TIP) LVR**	0	$1,420
		Tip function. Includes the tip Lines ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or 468-2237 120-14A MOTOR GRADER or 468-2238 120-14A MOTOR GRADER or 468-2239 120-14A AWD MOTOR GRADER		
L	467-7433	**BASE + 2 (TIP, RIP) LVR**	0	$3,205
		Blade Tip, and Ripper functions. Includes the Blade Tip and Ripper lines. ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or 468-2237 120-14A MOTOR GRADER or 468-2238 120-14A MOTOR GRADER or 468-2239 120-14A AWD MOTOR GRADER		
L	493-1093	**BASE+2(TIP,RIP), ARO, LVR**	0	$9,860
		Blade Tip, and Ripper function. Includes Blade Tip and Ripper lines. For use with CAT GRADE Attachment Ready Option (ARO) or Cross Slope. REQUIRES: ACCUMULATORS ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or 468-2237 120-14A MOTOR GRADER or 468-2238 120-14A MOTOR GRADER or 468-2239 120-14A AWD MOTOR GRADER		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

HYDRAULICS (Cont.)

L	468-2247	**BASE + 2 (TIP, MMS) LVR**	0	$2,825
		Blade Tip, and Mid-Mount Scarifier functions. Includes the Blade Tip and Mid-Mount Scarifier lines. ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or 468-2237 120-14A MOTOR GRADER or 468-2238 120-14A MOTOR GRADER or 468-2239 120-14A AWD MOTOR GRADER		
L	493-1094	**BASE+2(TIP,MMS), ARO, LVR**	0	$9,740
		Blade Tip, Mid-Mount Scarifier, . Includes the blade tip, and Mid-Mount Scarifier lines. For use with Cat GRADE Attachment Ready Option (ARO) or Cross Slope. REQUIRES: ACCUMULATORS ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or 468-2237 120-14A MOTOR GRADER or 468-2238 120-14A MOTOR GRADER or 468-2239 120-14A AWD MOTOR GRADER		
L	468-2248	**BASE + 3 (TIP, MMS,FL) LVR**	0	$5,210
		Blade Tip, and Mid-Mount Scarifier, Front Lift functions. Includes the Blade Tip, Mid-Mount Scarifier, and Front Lift lines. ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or 468-2237 120-14A MOTOR GRADER or 468-2238 120-14A MOTOR GRADER or 468-2239 120-14A AWD MOTOR GRADER		
L	468-2249	**BASE + 3 (TIP, RIP, FL), LVR**	0	$5,590
		Blade Tip, Ripper, and Front Lift functions. Includes the Blade Tip, Ripper, and Front Lift lines. ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or 468-2237 120-14A MOTOR GRADER or 468-2238 120-14A MOTOR GRADER or 468-2239 120-14A AWD MOTOR GRADER		
L	493-1095	**BASE + 4 (TIP,RIP, MMS,FL) LVR**	0	$7,000
		Blade Tip, Ripper, Mid-Mount Scarifier and Front Lift functions. Includes Blade Tip, Ripper, Mid-Mount Scarifier and Front Lift lines. ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or 468-2237 120-14A MOTOR GRADER or 468-2238 120-14A MOTOR GRADER or 468-2239 120-14A AWD MOTOR GRADER		
L	468-2251	**BASE+4(TIP,RIP,MMS,FL),ARO,LVR**	0	$13,660
		Blade Tip, Ripper, Mid-Mount Scarifier, and Front Lift functions. Includes the Blade Tip, Ripper, Mid-Mount Scarifier, and Front Lift lines. For use with Cat GRADE Attachment Ready Option (ARO) or Cross Slope. Blade Tip, Ripper, Mid-Mount Scarifier, and Front Lift functions. Includes the Blade Tip, Ripper, Mid-Mount Scarifier, and Front Lift lines. REQUIRES: ACCUMULATORS ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or 468-2237 120-14A MOTOR GRADER or 468-2238 120-14A MOTOR GRADER or 468-2239 120-14A AWD MOTOR GRADER		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

ELECTRICAL

BRAKE LIGHTS

L	561-7062	**LIGHTS, BRAKE&BACKUP, LVR, LED**	0	$102
		Provides stationary rear brake lights along with the back-up lights. Does not include front headlights or turn signals ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or 468-2237 120-14A MOTOR GRADER CANNOT BE USED WITH: FRONT HEADLIGHTS, LOW (HALOGEN/LED)		
L	563-2423	**LIGHTS,BRAKE&BKP,TURN,LED**	0	$408
		Provides stationary rear brake lights along with the back-up lights. Includes turn signals. REQUIRES: FRONT HEADLIGHTS, LOW (HALOGEN/LED) ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or 468-2237 120-14A MOTOR GRADER		
L	563-2430	**LIGHTS, ARM, FOLD DOWN**	0	$1,875
		Provides stationary rear brake lights along with the back-up lights, dimmer switch for road lighting, drop-down stop, tail, and rear turn signals and back-up lights. REQUIRES: FRONT HEADLIGHTS, LOW (HALOGEN/LED) ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or 468-2237 120-14A MOTOR GRADER		

STARTER

L	462-6512	**STARTER, STANDARD DUTY**	0	NC
		Recommended for year around use when typical ambient temperature range is 41F (5C) to 110F (43C) and operating at altitude below 4000ft (1220m). ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or 468-2237 120-14A MOTOR GRADER CANNOT BE USED WITH: WEATHER COLD WEATHER COLD PLUS		
L	517-0703	**STARTER, HEAVY DUTY**	0	$405
		Recommended for year around use when typical ambient temperature range is -40F (-40C) to 110F (43C) and operating at altitude above 4000ft (1220m). ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or 468-2237 120-14A MOTOR GRADER REQUIRED BY: WEATHER COLD or WEATHER COLD PLUS		

OPERATOR ENVIRONMENT

CAB

L	461-3561	**CAB, ROPS, BASE, LVR, TND**	0	$18,360
		Does not include HVAC (Air Conditioner) INCLUDES: - Enclosed cab - Wiper/washer, front ONLY FOR USE WITH: 468-2237 120-14A MOTOR GRADER CANNOT BE USED WITH: CANOPY ATTACHMENTS		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

OPERATOR ENVIRONMENT (CONT.)

CAB (Cont.)

L	461-3563	**CAB, ROPS, PLUS, LVR, TND**	0	$18,870
		Does not include HVAC (Air Conditioner) INCLUDES: - Cab Base features - Side vent windows (sliding) - Wiper/washer, front ONLY FOR USE WITH: 468-2237 120-14A MOTOR GRADER CANNOT BE USED WITH: CANOPY ATTACHMENTS		
L	461-3559	**CAB, ROPS, PREMIUM, LVR, TND**	0	$20,400
		Does not include HVAC (Air Conditioner) INCLUDES: - Cab Plus features - Wiper/washer, front/doors ONLY FOR USE WITH: 468-2237 120-14A MOTOR GRADER CANNOT BE USED WITH: CANOPY ATTACHMENTS		
L	461-3562	**CAB, ROPS, BASE, LVR, AWD**	0	$18,360
		Does not include HVAC (Air Conditioner) INCLUDES: - Enclosed cab - Wiper/washer, front ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER CANNOT BE USED WITH: CANOPY ATTACHMENTS		
L	461-3564	**CAB, ROPS, PLUS, LVR, AWD**	0	$18,870
		Does not include HVAC (Air Conditioner) INCLUDES: - Cab Base features - Side vent windows (sliding) - Wiper/washer, front ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER CANNOT BE USED WITH: CANOPY ATTACHMENTS		
L	461-3558	**CAB, ROPS, PREMIUM, LVR, AWD**	0	$20,400
		Does not include HVAC (Air Conditioner) INCLUDES: - Cab Plus features - Wiper/washer, front/doors ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER		

AIR CONDITIONER

L	510-8447	**HVAC, BASIC,W/O AIR COMPRESSOR**	0	$5,610
		For use with engine without air compressor INCLUDES: Air conditioner Heater ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or 468-2237 120-14A MOTOR GRADER		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

OPERATOR ENVIRONMENT (CONT.)

AIR CONDITIONER (Cont.)

L	510-8448	**HVAC W/O AIR COMPRESSOR, PREM**	0	$8,160

For use with engine without air compressor
INCLUDES:
Air Conditioning
Cab Heater
Second Cab heater mounted underneath seat.
Improves performance for defog, defrost and overall heater performance
Recommend for units operating in cold temperature
ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or
468-2237 120-14A MOTOR GRADER

SEAT CAB

L	461-3554	**SEAT COMFORT, SUSPENSION, LVR**	0	$2,040

INCLUDES:
- Air suspension, Adjustable damper
- Cloth Cushion, Adjustable angle and depth

ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or
468-2237 120-14A MOTOR GRADER

L	461-3555	**SEAT, PREMIUM, SUSPENSION, LVR**	0	$3,570

INCLUDES:
- Air suspension, Adjustable damper
- Leather Cushion, Adjustable angle and depth, Heated and cooled
- Power adjustable cushion bolsters and lumbar support

ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or
468-2237 120-14A MOTOR GRADER

SEAT BELT

L	513-0286	**SEAT BELT**	0	$-204

Retractable, 3"(76.2mm) seat belt.
ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or
468-2237 120-14A MOTOR GRADER

COMFORT PACKAGE CAB

Bluetooth radio technology enables the use of a hands free function
such as listening to music and making phone calls.
Authorization varies by country, please contact your Cat marketing
representative with questions or click on the link below:
https://dealer.cat.com/en/products/technology.html

L	461-3583	**COMFORT PACKAGE, BASE, LVR**	0	NC

Not radio or communication ready, and no power ports.
It will include plugs to cover up openings.
ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or
468-2237 120-14A MOTOR GRADER or
468-2238 120-14A MOTOR GRADER or
468-2239 120-14A AWD MOTOR GRADER
CANNOT BE USED WITH: CANOPY

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

OPERATOR ENVIRONMENT (CONT.)

COMFORT PACKAGE CAB (Cont.)

L	471-5351	**COMFORT PACKAGE, PLUS, LVR**	0	$1,880
		INCLUDES: Entertainment radio ready (speakers and antenna) Communications radio ready (mounting bracket and antenna cable) Power ports, 12V (x2) and 5V USB ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or 468-2237 120-14A MOTOR GRADER or 468-2238 120-14A MOTOR GRADER or 468-2239 120-14A AWD MOTOR GRADER CANNOT BE USED WITH: CANOPY		
L	471-5352	**COMFORT PACKAGE, PREMIUM, LVR**	0	$2,855
		INCLUDES: Plus Features Shades, rear Fan, defrost, x2 Radio, AM/FM/CD/SAT/BT Mirrors, B-post, x2 ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or 468-2237 120-14A MOTOR GRADER or 468-2238 120-14A MOTOR GRADER or 468-2239 120-14A AWD MOTOR GRADER CANNOT BE USED WITH: CANOPY		

TECHNOLOGY PRODUCTS

PRODUCT LINK

Product Link enables the remote transmission of information about the location, operation, and condition of your equipment. Efficiently and effectively monitor performance of your assets to help keep your jobs on schedule, maintain equipment condition, and reduce the costs of owning and operating your fleet.

Availability varies by country, please contact your Cat marketing representative with questions or click on the link below:
HTTPS://DEALER.CAT.COM/en/bt/otd/machine-price-list.html
From there click on the 'PRODUCT LINK Hardware Certification" link.

L	491-5100	**PRODUCT LINK, CELLULAR PLE641**	0	NC
		Product Link Elite series PLE641 offers expanded coverage including 3G UMTS and CDMA2000 as well as 2G GSM and CDMA cellular networks to transmit location, utilization and condition information for viewing in Product Link-s remote monitoring web interface. Cellular technology provides capabilities for frequent transmission and larger volumes of data. REQUIRES: CAB ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or 468-2237 120-14A MOTOR GRADER or 468-2238 120-14A MOTOR GRADER or 468-2239 120-14A AWD MOTOR GRADER		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

TECHNOLOGY PRODUCTS (CONT.)

PRODUCT LINK (Cont.)

L	491-5101	**PROD LINK,DUAL PLE641 + PLE631**	0	$1,215

The Product Link Elite series dual solution uses a combination of cellular and satellite networks to transmit location, utilization and condition information for viewing in Product Link-s remote monitoring web interface. For applications that require travel between areas of cellular and satellite signal.
REQUIRES: CAB
ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or
468-2237 120-14A MOTOR GRADER or
468-2238 120-14A MOTOR GRADER or
468-2239 120-14A AWD MOTOR GRADER

BLADE TECHNOLOGY

L	543-0221	**NO GRADE CONTROL TECHNOLOGY**	0	NC

ONLY FOR USE WITH: 468-2237 120-14A MOTOR GRADER or
460-7653 120-14A AWD MOTOR GRADER or
468-2238 120-14A MOTOR GRADER or
468-2239 120-14A AWD MOTOR GRADER
CANNOT BE USED WITH: 493-1093 BASE + 2 (TIP,RIP) ARO, LVR
493-1094 BASE+2(TIP,MMS)+ARO+BL FL LVR
468-2251 BASE+4 (TIP,RIP,MMS,FL) LVR

L	468-2246	**CAT GRADE ARO, LVR, TND**	0	$915

Allows the Motor Grader to be equipped with either a Cross Slope, Sonic, Laser, GPS, or ATS electronics kit. Provides software, harnesses for sensors, mounting for sensors and blade mast bracket. Cat motor graders have an open architecture that allow aftermarket brands to install their grade control systems. To support integration of machine guidance systems other than Cat Grade or Trimble refer to AEXQ2281-00.
ONLY FOR USE WITH: 468-2237 120-14A MOTOR GRADER or
468-2238 120-14A MOTOR GRADER and
493-1093 BASE + 2 (TIP,RIP) ARO, LVR or
493-1094 BASE+2(TIP,MMS)+ARO+BL FL LVR or
468-2251 BASE + 4 (TIP,RIP,MMS,FL)LVR
CANNOT BE USED WITH: ACCUMULATORS NO ARO
NO ACCUMULATORS NO ARO
DRAWBAR STANDARD

L	467-7432	**CAT GRADE ARO, LVR, AWD**	0	$4,830

Allows the Motor Grader to be equipped with either a Cross Slope, Sonic, Laser, GPS, or ATS electronics kit. Provides software, harnesses for sensors, mounting for sensors and blade mast bracket. Cat motor graders have an open architecture that allow aftermarket brands to install their grade control systems. To support integration of machine guidance systems other than Cat Grade or Trimble refer to AEXQ2281-00.
ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or
468-2239 120-14A AWD MOTOR GRADER and
493-1093 BASE + 2 (TIP,RIP) ARO, LVR or
493-1094 BASE+2(TIP,MMS)+ARO+BL FL LVR or
468-2251 BASE + 4 (TIP,RIP,MMS,FL)LVR
CANNOT BE USED WITH: ACCUMULATORS NO ARO
NO ACCUMULATORS NO ARO
DRAWBAR STANDARD

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

TECHNOLOGY PRODUCTS (CONT.)

BLADE TECHNOLOGY (Cont.)

L **561-7235** **CROSS SLOPE LVR TND** 0 **$11,060**

Allows the operator to manually control one end of the blade to match the curb or crown while automatically maintaining the desired slope of the blade. This system is used to maintain the crown of a gravel road or the shoulder of a road. Provides cab switches, software, harnesses for sensors, mounting for sensors and blade mast bracket. Cat GRADE ARO is included in this option.

ONLY FOR USE WITH: 468-2237 120-14A MOTOR GRADER or
468-2238 120-14A MOTOR GRADER and
493-1093 BASE + 2 (TIP,RIP) ARO, LVR or
493-1094 BASE+2(TIP,MMS)+ARO+BL FL LVR

CANNOT BE USED WITH: ACCUMULATORS NO ARO
NO ACCUMULATORS NO ARO
DRAWBAR STANDARD

L **561-7234** **CROSS SLOPE LVR AWD** 0 **$11,060**

Allows the operator to manually control one end of the blade to match the curb or crown while automatically maintaining the desired slope of the blade. This system is used to maintain the crown of a gravel road or the shoulder of a road. Provides cab switches, software, harnesses for sensors, mounting for sensors and blade mast bracket. Cat GRADE ARO is included in this option.

ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or
468-2239 120-14A AWD MOTOR GRADER and
493-1093 BASE + 2 (TIP,RIP) ARO, LVR or
493-1094 BASE+2(TIP,MMS)+ARO+BL FL LVR or
468-1607 DRAWBAR, TOP ADJUST, LVR or
506-3655 DRAWBAR, TOP ADJUST, LVR

CANNOT BE USED WITH: ACCUMULATORS NO ARO
NO ACCUMULATORS NO ARO
DRAWBAR STANDARD

L **561-7230** **CROSS SLOPE INDICATE LVR TND** 0 **$10,780**

Provides real-time digital readout of the cross slope as a job aid to help an operator maintain an accurate and consistent cross slope. Cannot be used to automatically control one side of the blade like full Cross Slope.
CAN be upgraded to full Cross Slope or Cat GRADE.

ONLY FOR USE WITH: 468-2237 120-14A MOTOR GRADER or
468-2238 120-14A MOTOR GRADER and
493-1093 BASE + 2 (TIP,RIP) ARO, LVR or
493-1094 BASE+2(TIP,MMS)+ARO+BL FL LVR

CANNOT BE USED WITH: ACCUMULATORS NO ARO
NO ACCUMULATORS NO ARO
DRAWBAR STANDARD

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

TECHNOLOGY PRODUCTS (CONT.)

BLADE TECHNOLOGY (Cont.)

L	561-7229	**CROSS SLOPE INDICATE LVR AWD**	0	$10,780
		Provides real-time digital readout of the cross slope as a job aid to help an operator maintain an accurate and consistent cross slope. Cannot be used to automatically control one side of the blade like full Cross Slope. CAN be upgraded to full Cross Slope or Cat GRADE. REQUIRES: CONTROL AR-HYD ARO ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or 468-2239 120-14A AWD MOTOR GRADER and 493-1093 BASE + 2 (TIP,RIP) ARO, LVR or 493-1094 BASE+2(TIP,MMS)+ARO+BL FL LVR CANNOT BE USED WITH: ACCUMULATORS NO ARO NO ACCUMULATORS NO ARO DRAWBAR STANDARD		
L	561-7616	**DIGITAL BLADE SLOPE METER LVR**	0	$2,855
		FOR USE IN LANE 3 ONLY Provides an entry level real-time digital readout of the cross slope of the blade as a job aid to help an operator maintain an accurate and consistent cross slope. Can be used to measure/maintain true cross slope in a road when machine is NOT articulated and blade is perpendicular to machine. Does NOT automatically control elevation of one side of blade and is NOT upgradeable to Cat GRADE Cross Slope, Cross Slope Indicate, 2D (Cross Slope, Sonic, or Laser), or 3D (GPS or UTS) aftermarket options. ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or 468-2237 120-14A MOTOR GRADER or 468-2238 120-14A MOTOR GRADER or 468-2239 120-14A AWD MOTOR GRADER and		

TIRES, RIMS, AND WHEELS

Tires listed below include a set of six tires.

****To calculate tire loads with machine attachments, please reference the MG Tire Selection Pocket Guide (media #AEXQ0182), available on the Electronic Sales Library.**
All tire selections should be made with consideration for planned machine attachments (OEM and aftermarket) and their additional weight. Each tire has a maximum load rating that is not to be exceeded. The tire selection should be based on the maximum of all tire position loads on the machine. Assistance for calculating the highest tire load can be found in the Tire Load Worksheet in the back of the Caterpillar Motor Graders Tire Selection Pocket Guide. Failure to abide by the load ratings of the tires without first consulting the local tire supplier representative could result in nullification of the tire warranty.

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

TIRES, RIMS, AND WHEELS (CONT.)

Due to industry-wide tire availability limitations, tire brand and type cannot be guaranteed. Every effort will be made to satisfy your tire choice, but we reserve the right to change to alternate tires. If the tire brand cannot be supplied, we may contact the dealer. However, in some cases, we will change to an alternative premium brand tire without notice. If the tire type cannot be supplied, we will contact the dealer to propose alternatives. The dealer needs to choose between an alternative tire or a "rims only" option (where available) within 72 hours. If no response is provided by the deadline, the order will default to the alternative tire and will be changed at that point. As a consequence of a possible tire change, the total machine price will be decreased or increased depending on the price of the new tire.

The information provided can be used to make a tire selection based on the particular conditions at the site. When available, the tire manufacturer should be consulted regarding proper tire selection.

TIRES (TANDEM MACHINES)

FIRESTONE

L	254-7898	**TIRES, 13.0-24 FS SGG 12PR SP2**	66	$-5,000
		Firestone SGG RB 12PR bias (G2) on 9" x 24" single piece rim. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (6006 lbs) 2725 kg.** ONLY FOR USE WITH: 468-2237 120-14A MOTOR GRADER		
L	252-0731	**TIRES, 17.5-25 FS SGG 12PR MP**	1,007	$2,730
		Firestone SGG LD 12PR bias (L2) on 14" multi-piece rim. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (6393lbs) 2900 kg.** ONLY FOR USE WITH: 468-2238 120-14A MOTOR GRADER or 468-2237 120-14A MOTOR GRADER		
L	252-0753	**TIRES, 17.5-25 FS SRG 12PR MP**	1,061	$6,240
		Firestone SRG LD 12PR bias (L3) on 14" multi-piece rim. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (6393lbs) 2900 kg.** ONLY FOR USE WITH: 468-2237 120-14A MOTOR GRADER		

GOODYEAR

L	340-2602	**TIRES,13.0-24 GY SGG 12 G2 SP**	102	$-3,940
		Goodyear SGG-2A 12PR bias (G2) on 9" single-piece rim. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (6007lbs) 2725 kg.** ONLY FOR USE WITH: 468-2238 120-14A MOTOR GRADER or 468-2237 120-14A MOTOR GRADER		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

TIRES, RIMS, AND WHEELS (CONT.)

TIRES (TANDEM MACHINES) (Cont.)

L	305-6159	**TIRES, 14.0-24 GY SGG 16PR MP**	963	$1,010
		Goodyear SGG-2A 16PR bias (G2) on 14" multi-piece rim.		
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8046lbs) 3650 kg.**		
		ONLY FOR USE WITH: 468-2237 120-14A MOTOR GRADER or 468-2238 120-14A MOTOR GRADER		

MICHELIN

L	254-7904	**TIRES,14.0R24 MX XGLA2 * G2 SP**	709	$7,290
		Michelin XGLA 1* on 9" x 24" single piece rims.		
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (7824 lbs) 3550 kg.**		
		ONLY FOR USE WITH: 468-2237 120-14A MOTOR GRADER		
L	252-0701	**TIRES,14.0R24 MX XSNO+ * G2 MP**	1,282	$14,890
		Michelin XSNO 1* on 10" x 24" multi-piece rims.		
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (7824 lbs) 3550 kg.**		
		ONLY FOR USE WITH: 468-2237 120-14A MOTOR GRADER		
L	252-0767	**TIRES, 17.5R25 MX XHA * L3 MP**	1,662	$18,530
		Michelin XHA 1* on 14" x 25" multi-piece rims.		
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
		ONLY FOR USE WITH: 468-2237 120-14A MOTOR GRADER or		
L	254-7970	**TIRES, 17.5R25 MX XHA * L3 SP**	1,270	$14,330
		FOR USE WITH LANE 3 ONLY		
		Michelin XHA 1* on 13" x 25" single piece rims.		
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
		ONLY FOR USE WITH: 468-2237 120-14A MOTOR GRADER		
L	252-0777	**TIRES,17.5R25 MX XSNO+ * G2 MP**	1,093	$20,490
		Michelin XSNO+ 1* on 14" x 25" multi-piece rims.		
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
		ONLY FOR USE WITH: 468-2237 120-14A MOTOR GRADER		
L	252-0771	**TIRES, 17.5R25 MX XTLA * L2 MP**	1,371	$16,110
		Michelin XTLA 1* on 14" x 25" multi-piece rims.		
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
		ONLY FOR USE WITH: 468-2237 120-14A MOTOR GRADER		
L	254-7971	**TIRES, 17.5R25 MX XTLA * L2 SP**	979	$11,910
		Michelin XTLA 1* on 13" x 25" single piece rims.		
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
		ONLY FOR USE WITH: 468-2237 120-14A MOTOR GRADER		
L	252-0679	**TIRES,14.0R24 MX XGLA2 * G2 MP**	1,069	$10,860
		Michelin XGLA2 1* on 10" x 24" multi-piece rims.		
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (7824 lbs) 3550 kg.**		
		ONLY FOR USE WITH: 468-2237 120-14A MOTOR GRADER or 468-2238 120-14A MOTOR GRADER		

BRIDGESTONE

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

TIRES, RIMS, AND WHEELS (CONT.)

TIRES (TANDEM MACHINES) (Cont.)

L	252-0714	**TIRES, 14.0 R24 BS VKT * G2**	1,540	$6,970
		Bridgestone VKT 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.** ONLY FOR USE WITH: 468-2237 120-14A MOTOR GRADER		
L	252-0708	**TIRES, 14.0R24 BS VSW * G2 MP**	1,481	$13,320
		Bridgestone VSW 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.** ONLY FOR USE WITH: 468-2237 120-14A MOTOR GRADER		
L	252-0720	**TIRES, 14.0R24 BS VUT * L2 MP**	1,012	$7,250
		Bridgestone VUT 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.** ONLY FOR USE WITH: 468-2237 120-14A MOTOR GRADER or 468-2238 120-14A MOTOR GRADER		
L	252-0775	**TIRES, 17.5R25 BS VKT * D2A MP**	1,810	$13,450
		Bridgestone VKT 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.** ONLY FOR USE WITH: 468-2237 120-14A MOTOR GRADER or 468-2238 120-14A MOTOR GRADER		
L	310-7331	**TIRES, 17.5R25 BS VSW * G2 MP**	1,888	$18,590
		Bridgestone VSW 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.** ONLY FOR USE WITH: 468-2237 120-14A MOTOR GRADER		

TIRES (AWD MACHINES)

GOODYEAR

L	452-2804	**TIRES,14R24 GY 16PR SGG RB MP**	0	$1,030
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8046lbs) 3650 kg.** ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or 468-2239 120-14A AWD MOTOR GRADER		

MICHELIN

L	452-2798	**TIRES, 17.5R25 MX XSNO + 1* MP**	0	$20,900
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8046lbs) 3650 kg.** ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or 468-2239 120-14A AWD MOTOR GRADER		
L	452-2802	**TIRES, 14.0R24 MX XGLA2 1* MP**	0	$11,080
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (7826lbs) 3550 kg.** ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or 468-2239 120-14A AWD MOTOR GRADER		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

TIRES, RIMS, AND WHEELS (CONT.)

TIRES (AWD MACHINES) (Cont.)

L	452-2803	**TIRES, 14.0R24 MX XSNO + 1* MP.**	0	**$15,190**
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (7826lbs) 3550 kg.**		
		ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or 468-2239 120-14A AWD MOTOR GRADER		
L	452-2810	**TIRES, 17.5R25 MX XHA 1* MP L**	0	**$18,900**
		ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or 468-2239 120-14A AWD MOTOR GRADER		
L	452-2811	**TIRES, 17.5R25 MX XTLA 1*MP L2**	0	**$13,720**
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8046lbs) 3650 kg.**		
		ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or 468-2239 120-14A AWD MOTOR GRADER		

BRIDGESTONE

L	452-2797	**TIRES,14.00R24 BS VKT 1* G2 MP**	1,368	**$9,620**
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8046lbs) 3650 kg.**		
		ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or 468-2239 120-14A AWD MOTOR GRADER		
L	452-2800	**TIRES,14.0R24 BS VSW TL 1* MP**	0	**$13,590**
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8046lbs) 3650 kg.**		
		ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or 468-2239 120-14A AWD MOTOR GRADER		
L	452-2801	**TIRES,14.0R24 BS VUT G2A 1* MP**	0	**$5,930**
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8046lbs) 3650 kg.**		
		ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or 468-2239 120-14A AWD MOTOR GRADER		
L	452-2805	**TIRES, 17.5-25 BS SGG 12PR MP**	0	**$2,785**
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (6393lbs) 2900 kg.**		
		ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or 468-2239 120-14A AWD MOTOR GRADER		
L	452-2806	**TIRES,17.5R25* BS VKT L2 L3 MP**	0	**$12,510**
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8046lbs) 3650 kg.**		
		ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or 468-2239 120-14A AWD MOTOR GRADER		
L	452-2808	**TIRES,17.5R25 BS VSW 1* G2 MP**	0	**$18,960**
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8046lbs) 3650 kg.**		
		ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or 468-2239 120-14A AWD MOTOR GRADER		

RIMS ONLY

L	252-0115	**RIMS ONLY, 14.0, MP**	-398	**$-1,755**
		ONLY FOR USE WITH: 468-2237 120-14A MOTOR GRADER		
L	252-0118	**RIMS ONLY, 17.5, MP**	-229	**$-1,065**
		ONLY FOR USE WITH: 468-2237 120-14A MOTOR GRADER or 468-2238 120-14A MOTOR GRADER		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

OTHER ATTACHMENTS

REAR PANELS

L	518-1195	REAR PANEL W/O ACCESS DOOR No access entry without removing cover to clean front cooling core.	0	NC
L	498-8871	REAR PANEL W/ ACCESS DOOR Provides easy access to clean out front cooling core.	0	$204

FLUIDS

CAB ANTIFREEZE

	0P-1939	ANTIFREEZE WINDSHIELD WASHER For use with machines with cab.	0	NC

FUEL ANTIFREEZE

	0P-3978	FUEL ANTIFREEZE, -25C (-13F) Provides fuel (diesel) antifreeze protection down to -25C (-13F)	0	NC

DOCUMENTATION

LANGUAGE SELECTION

NOTE: This part number will provide the language for Messenger and Statement of Conformity.

P	462-6595	LANGUAGE, ENGLISH	0	NC

USE	REF NO.	LANE 2 / 3 OPTIONAL	Ship Weight lbs	LIST PRICE AT DEALER

FEATURE PACKAGES

HEADLIGHTS PACKAGE

Cannot mix halogen and LED light packages.

L	565-5395	**LOW BAR, HALOGEN, LVR, TND**	0	$640
		Provides halogen low bar headlights with front turn signals, dimmer switch for road lighting.		
		ONLY FOR USE WITH: 468-2237 120-14A MOTOR GRADER or 468-2238 120-14A MOTOR GRADER		
L	565-5396	**LOW BAR, LED, LVR, TND**	0	$1,365
		Provides LED low bar headlights with front turn signals, dimmer switch for road lighting.		
		ONLY FOR USE WITH: 468-2237 120-14A MOTOR GRADER or 468-2238 120-14A MOTOR GRADER		
L	565-5394	**LOW BAR, HALOGEN, LVR, AWD**	0	$640
		Provides halogen low bar headlights with front turn signals, dimmer switch for road lighting.		
		ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or 468-2239 120-14A AWD MOTOR GRADER		
L	565-5391	**LOW BAR, LED, LVR, AWD**	0	$1,365
		Provides LED low bar headlights with front turn signals, dimmer switch for road lighting.		
		ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or 468-2239 120-14A AWD MOTOR GRADER		

WORK LIGHT PACKAGES

Cannot mix halogen and LED light packages.

L	468-7618	**LIGHTS, WORKING,BASIC HAL,LVR**	0	$770
		INCLUDES:		
		Lights, Halogen, Heel		
		Lights, Halogen, Midframe Toe		
		Switch, Work Lighting		
		ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or 468-2237 120-14A MOTOR GRADER or 468-2238 120-14A MOTOR GRADER or 468-2239 120-14A AWD MOTOR GRADER		
L	468-7619	**LIGHTS, WORKING, PLUS,HAL,LVR**	0	$1,035
		INCLUDES:		
		Lights, Halogen, Ripper		
		Lights, Halogen,, Heel		
		Lights, Halogen, Midframe Toe		
		Switch, Work Lighting		
		ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or 468-2237 120-14A MOTOR GRADER or 468-2238 120-14A MOTOR GRADER or 468-2239 120-14A AWD MOTOR GRADER		
L	561-6398	**LIGHTS, WORKING,BASIC,LED,LVR**	0	$1,500
		INCLUDES:		
		Lights, LED, Heel		
		Lights, LED, Midframe Toe		
		Switch, Work Lighting		
		ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or 468-2237 120-14A MOTOR GRADER or 468-2238 120-14A MOTOR GRADER or 468-2239 120-14A AWD MOTOR GRADER		

USE	REF NO.	LANE 2 / 3 OPTIONAL	Ship Weight lbs	LIST PRICE AT DEALER

FEATURE PACKAGES (CONT.)

WORK LIGHT PACKAGES (Cont.)

L	561-6400	**LIGHTS, WORKING, PLUS,LED,LVR**	0	$2,590

INCLUDES:
Lights, LED, Ripper
Lights, LED, Heel
Lights, LED, Midframe Toe
Switch, Work Lighting
ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or
468-2237 120-14A MOTOR GRADER or
468-2238 120-14A MOTOR GRADER or
468-2239 120-14A AWD MOTOR GRADER

CAB LIGHTS

Cannot mix halogen and LED light packages.

L	490-2608	**LIGHTS, CAB HALOGEN, LVR**	0	$510

INCLUDES:
4 Front Facing Halogen Lights
2 Rear Facing Halogen Lights
ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or
468-2237 120-14A MOTOR GRADER

L	558-6665	**LIGHTS, CAB LED, LVR**	0	$1,755

INCLUDES:
4 Front Facing LED Lights
2 Rear Facing LED Lights
ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or
468-2237 120-14A MOTOR GRADER

OTHER OPTIONAL ATTACHMENTS

L	435-9816	**LIGHTS, SERVICE, INTERNAL**	0	NC

Provide one light, operated by single switch in rear enclosure that illuminate engine compartment.

L	524-2074	**TRANSMISSION, AUTOSHIFT, LVR**	0	$4,020

Improves ease of operation and maximizes productivity by automatically shifting the transmission at optimal shift points.
ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or
468-2237 120-14A MOTOR GRADER or
468-2238 120-14A MOTOR GRADER or
468-2239 120-14A AWD MOTOR GRADER

L	471-5356	**WARNING LIGHT, MOUNTING, LVR**	0	$725

Mounting bracket only. Need to provide own beacon light.
ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or
468-2237 120-14A MOTOR GRADER
CANNOT BE USED WITH: LIGHT, LED WARNING STROBE

L	461-3548	**LIGHT, LED WARNING STROBE, LVR**	0	$1,290

INCLUDES:
2 x (front and rear) amber high-speed strobe beacon light, and mounting brackets.
ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or
468-2237 120-14A MOTOR GRADER

USE	REF NO.	LANE 2 / 3 OPTIONAL	Ship Weight lbs	LIST PRICE AT DEALER

FEATURE PACKAGES (CONT.)

OTHER OPTIONAL ATTACHMENTS (Cont.)

L	565-9664	**KIT, CIRCLE SAVER**	0	$238
		Remote Circle Drive Greasing point (Zerk). Located top of drawbar for easy servicing of circle drive gear. Helps the pinion maintain its lubrication caused by lack of grease in this component.		

ELECTRICAL

JUMP START

L	506-4261	**JUMP START RECEPTACLE**	0	$71
		Need CAT style PLUG jump cables. REQUIRED BY: 460-7653 120-14A AWD MOTOR GRADER or 468-2237 120-14A MOTOR GRADER		
L	506-4262	**JUMP START STUDS**	0	NC
		Traditional jump start studs used with alligator clamp style jumper cables. REQUIRED BY: 460-7653 120-14A AWD MOTOR GRADER or 468-2237 120-14A MOTOR GRADER		

ALTERNATOR

L	438-5768	**ALTERNATOR, 145 AMP**	0	NC
		REQUIRED BY: 460-7653 120-14A AWD MOTOR GRADER or 468-2237 120-14A MOTOR GRADER		
L	438-5769	**ALTERNATOR, 150 AMP**	0	$560
		Brushless. REQUIRED BY: 460-7653 120-14A AWD MOTOR GRADER or 468-2237 120-14A MOTOR GRADER		

OPERATOR ENVIRONMENT

COVER

L	461-3545	**NO LOCK OUT, CAB**	0	NC
		Include plate and screw-truss head for cab. Required for cab without mechanical lock. REQUIRED BY: 460-7653 120-14A AWD MOTOR GRADER or 468-2237 120-14A MOTOR GRADER or 468-2238 120-14A MOTOR GRADER or 468-2239 120-14A AWD MOTOR GRADER		

USE	REF NO.	LANE 2 / 3 OPTIONAL	Ship Weight lbs	LIST PRICE AT DEALER

OPERATOR ENVIRONMENT (CONT.)

COVER (Cont.)

L	461-3546	**LOCK OUT, MANUAL**	0	$1,335
		Mechanically locks all moldboard, machines, and attachment control levers during machine roading.		
		REQUIRED BY: 460-7653 120-14A AWD MOTOR GRADER or 468-2237 120-14A MOTOR GRADER or 468-2238 120-14A MOTOR GRADER or 468-2239 120-14A AWD MOTOR GRADER		

CAMERA

L	492-0617	**CAMERA, REAR VISION, LVR**	0	$2,535
		Provides a 115 degree color camera mounted on the rear of the hood that is connected to a 7 inch (178mm) LCD color display mounted in the cab which shows the view behind the machine.		
		ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or 468-2237 120-14A MOTOR GRADER		
		CANNOT BE USED WITH: CAMERA, REAR/FRONT VISION		
L	564-9820	**CAMERA, REAR/FRONT VISION, LVR**	0	$2,755
		Provides a 115 degree color camera mounted in the rear, and 2 front camera's elevated behind front bolster. Connected to 7 inch (178mm) LCD color display. Selectable rear display or front split screen.		
		ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or 468-2237 120-14A MOTOR GRADER		
		CANNOT BE USED WITH: CAMERA, REAR VISION		

MIRRORS

L	483-9353	**MIRRORS, EXTERNAL, BASE, LVR**	0	NC
		Mirrors, Outside Mounted.		
		ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or 468-2237 120-14A MOTOR GRADER or 468-2238 120-14A MOTOR GRADER or 468-2239 120-14A AWD MOTOR GRADER		
L	483-9354	**MIRRORS, EXTERNAL, HEATED, LVR**	0	$670
		FOR USE IN LANE 3 ONLY Provides mirrors with a 24V heating element to keep mirrors ice free in cold weather operations. NOTE: The mirrors are wrapped in bubble wrap and rotated toward the doors for protection during shipment.		
		ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or 468-2237 120-14A MOTOR GRADER or		
L	490-4960	**MIRRORS, OUTSIDE DUAL,ISO, LVR**	0	$495
		FOR USE IN LANE 3 ONLY Includes extra mirror with small curvature to broader views and reflect wider range, to meet ISO 5006. attaches to external mirrors.		
		ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or 468-2237 120-14A MOTOR GRADER or 468-2238 120-14A MOTOR GRADER or 468-2239 120-14A AWD MOTOR GRADER and 483-9353 MIRRORS, EXTERNAL, BASE, LEVER or 483-9354 MIRRORS, EXTERNAL, HEATED, LVR		

USE	REF NO.	LANE 2 / 3 OPTIONAL	Ship Weight lbs	LIST PRICE AT DEALER

OPERATOR ENVIRONMENT (CONT.)

WIPER FRONT

L	490-2591	**WIPER, FRONT, LOWER, LVR**	0	$255
		INCLUDES: 2 front lower wipers. 1 for each side		
		ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or 468-2237 120-14A MOTOR GRADER or 468-2238 120-14A MOTOR GRADER or 468-2239 120-14A AWD MOTOR GRADER		
		CANNOT BE USED WITH: CANOPY		
L	471-5346	**WIPER, REAR, LVR**	0	$459
		INCLUDES: 2 rear side wipers. 1 for each side		
		ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or 468-2237 120-14A MOTOR GRADER or 468-2238 120-14A MOTOR GRADER or 468-2239 120-14A AWD MOTOR GRADER		
		CANNOT BE USED WITH: CANOPY		

STEERING

L	549-2269	**STEERING, SECONDARY, W/ACCUM**	0	$4,325
		Automatically provides oil pressure and flow to the steering circuit in the case of engine or steering pump failure.		
		ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or 468-2237 120-14A MOTOR GRADER or 468-2238 120-14A MOTOR GRADER or 468-2239 120-14A AWD MOTOR GRADER		
L	565-5643	**STEERING, SECONDARY W/CE ACCUM**	0	$4,325
		Automatically provides oil pressure and flow to the steering circuit in the case of engine or steering pump failure. Contains CE certified accumulator.		
		ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or 468-2237 120-14A MOTOR GRADER or 468-2238 120-14A MOTOR GRADER or 468-2239 120-14A AWD MOTOR GRADER		

KIT PANEL

L	568-1671	**CAT GRADE, BASE KIT**	0	$715
		Mounting bracket for display and correction radio.		
		ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or 468-2237 120-14A MOTOR GRADER or 468-2238 120-14A MOTOR GRADER or 468-2239 120-14A AWD MOTOR GRADER		

TECHNOLOGY PRODUCTS

L	458-2072	**STABLE BLADE**	3	$2,470
		Provides sensor and software to automatically reduce engine speed in various applications to reduce machine bounce and scalloping of surface.		

USE	REF NO.	LANE 2 / 3 OPTIONAL	Ship Weight lbs	LIST PRICE AT DEALER

GUARDS

SOUND SUPPRESSION

L	425-1795	**SOUND SUPPRESSION**	0	$1,540
		Sound suppression rear panel enclosure. Provide additional sound protection to operators.		

GUARDS BOTTOM

L	453-4972	**GUARD, BOTTOM**	0	$3,400
		Provides a steel guard to protect the transmission from ground debris.		
L	448-5729	**GUARD, BOTTOM W/SOUND SUPPR**	0	$5,690
		Protects transmission mounts under rear frame with sound dentin material.		

GUARDS COVER

L	501-8393	**GUARD, COVER CAB, LVR**	0	$1,020
		Protects components under and bottom side of cab.		
		ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or 468-2237 120-14A MOTOR GRADER or 468-2238 120-14A MOTOR GRADER or 468-2239 120-14A AWD MOTOR GRADER		

GUARDS DEBRIS

L	565-1088	**GUARD, DEBRIS**	0	$1,160
		Recommend for environments with large debris. Guard position under rear frame.		

GUARDS WINDOW

L	522-5043	**GUARD, WINDOW, LVR**	0	$92
		Rear window guard- includes two rear window corner bar.		
		ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or 468-2237 120-14A MOTOR GRADER or 468-2238 120-14A MOTOR GRADER or 468-2239 120-14A AWD MOTOR GRADER		

FENDERS

L	500-8540	**FENDERS, REAR**	0	$5,400
		FOR USE IN LANE 3 ONLY Provides non-metallic rear fenders to aid in reducing the build-up of mud, snow, or debris. Rear fenders are compatible with all MG tire sizes offered by the factory. NOT recommended for use with tire chains.		
		ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or 468-2237 120-14A MOTOR GRADER		

USE	REF NO.	LANE 2 / 3 OPTIONAL	Ship Weight lbs	LIST PRICE AT DEALER

GUARDS (CONT.)

FENDERS (Cont.)

L	515-7420	**FENDERS, FRONT, AWD**	0	$3,795

FOR USE IN LANE 3 ONLY
Non-metallic front fenders aid in reducing the build-up of mud, snow, or debris. Front fenders are compatible with all Non-AWD tire sizes offered by the factory. NOT recommended for use with tire chains
ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or
468-2239 120-14A AWD MOTOR GRADER or
CANNOT BE USED WITH: MID-MOUNT SCARIFIER

OTHER ATTACHMENTS

L	336-1559	**PUSH PLATE, COUNTERWEIGHT**	2,000	$4,010

Front mounted. Recommended when machine is equipped with rear ripper/scarifier and other rear mounted attachments.
NOTE: This cannot be used in conjunction with counterweight, any front lift work tools,or the 'installed' hydraulic front lift. It can be used with a not installed hydraulic front lift
CANNOT BE USED WITH: 468-2229 MMS-V TYPE W/O BOLTER BRACKET

L	518-4634	**FRONT BLADE PACKAGE**	0	$11,520

FOR USE IN LANE 3 ONLY
INCLUDES:
Front Blade, A-Frame drawbar 9'x 3' (2,750 x 900mm) Front blade with up and down hydraulic functions.
Hydraulic Line for Front Blade
Lines, Front Blade
ONLY FOR USE WITH: 460-7653 120-14A MOTOR GRADER AWD or
468-2237 120-14A MOTOR GRADER and
HYDRAULICS BASE (FL)

DECAL PACKAGES

L	472-5087	**DECALS, ENGLISH (U.S)**	0	NC

Provides decals required by ANSI
ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or
468-2237 120-14A MOTOR GRADER

STARTING AIDS

L	422-6605	**STARTING AID**	0	NC

Starting, Ether.
ONLY FOR USE WITH: 460-7653 120-14A AWD MOTOR GRADER or
468-2237 120-14A MOTOR GRADER or
REQUIRED BY: WEATHER COLD

ENGINE COOLANT HEATERS

L	255-1336	**HEATER, ENGINE COOLANT, 120V**	1	$230

Engine coolant heater for 120 volt external power source.

L	255-1337	**HEATER, ENGINE COOLANT, 240V**	3	$228

Engine coolant heater for 240 volt external power source.

USE	REF NO.	LANE 2 / 3 OPTIONAL	Ship Weight lbs	LIST PRICE AT DEALER

OTHER ATTACHMENTS (CONT.)

STEP, REAR FRAME

L	516-6625	**STEP, ADDITONAL ON REAR FRAME**	0	$665
		INCLUDES: - 2 Step - 2 Grab handles. Assist in mounting and dismounting from the rear.		

INDICATOR LEVEL

L	566-5048	**INDICATOR LEVEL**	0	NC
		Provides analog level to indicate slope degree from side to side of unit. Bonds to front window. ONLY FOR USE WITH: 468-2237 120-14A MOTOR GRADER or 460-7653 120-14A AWD MOTOR GRADER or 468-2238 120-14A MOTOR GRADER or 468-2239 120-14A AWD MOTOR GRADER		

MANUFACTURING PLATE

L	454-3222	**PLATE, LICENSE**	0	NC
		Provides license plate support if required.		

WORK TOOLS

REAR WORK TOOLS

L	481-8668	**NO HITCH**	0	NC
		Provides a plate that bolts to the bumper that allows for attachment points for ripper or auxiliary hoses. REQUIRED BY: 460-7653 120-14A AWD MOTOR GRADER or 468-2237 120-14A AWD MOTOR GRADER		
L	416-6892	**HITCH, TOWING**	0	$540
		Retrieval hitch. Does not include pin. REQUIRED BY: 460-7653 120-14A AWD MOTOR GRADER or 468-2237 120-14A AWD MOTOR GRADER		
L	456-5359	**RIPPER**	1,350	$12,640
		Hydraulic, rear mounted ripper with three straight ripper shanks. Can accommodate two additional ripper shanks which must be ordered separately. ONLY FOR USE WITH: HYDRAULICS BASE (RIP) REQUIRED BY: 460-7653 120-14A AWD MOTOR GRADER or 468-2237 120-14A AWD MOTOR GRADER		

BRACKET (MID-MOUNT SCARIFIER)

P	339-7734	**BRACKET**	0	NC
		FOR USE IN LANE 3 ONLY ONLY FOR USE WITH: HYDRAULICS BASE (MMS)		
P	468-2228	**MMS-V TYPE W/BOLSTER BRACKET**	0	$16,290
		FOR USE IN LANE 3 ONLY ONLY FOR USE WITH: HYDRAULICS BASE (MMS)		

USE	REF NO.	LANE 2 / 3 OPTIONAL	Ship Weight lbs	LIST PRICE AT DEALER

WORK TOOLS (CONT.)

BRACKET (MID-MOUNT SCARIFIER) (Cont.)

P	468-2229	**MMS-V TYPE W/O BOLTERS BRACKET**	0	$16,290
		FOR USE IN LANE 3 ONLY ONLY FOR USE WITH: HYDRAULICS BASE (MMS)		

GROUND ENGAGING TOOLS

P	8J-5313	**TOOTH, STRAIGHT**	26	$381
		Ripper tooth group for rear ripper. Includes one straight shank with ripper tooth. Recommended order quantity of 2		

FIELD INSTALLED ATTACHMENTS

Available Through Parts Distribution
Reference numbers below are kits used to upgrade existing motor graders with new features or technology

L	452-3133	**EXTENSION,BLADE,24"X24"X7/8"LH**
L	452-3132	**EXTENSION,BLADE,24"X27"X1"LH**
L	243-6685	**EXTENSION,BLADE,24"X24"X7/8"RH**
L	110-5326	**EXTENSION,BLADE,24"X 27"X1" RH**

PACKING

EXPORT PACKING

	0P-2265	**ROLL ON-ROLL OFF**	0	$304 NET
		(Cab or canopy remains mounted.)		
	0P-2962	**SHIPPING TIRE FREIGHT OPTION**	0	NC
		This 0P is required when the machine is ordered with the Shipping Tire This insures the correct trailer is used for shipment preventing This is informational only and there is no additional charge. REQUIRED BY: TIRES, 17.5 SHIPPING, MP		
	0P-6706	**BUNDLE EXPORT PACKING**	0	NC
		This OP should be ordered for all miscellaneous orders.		

SPECIAL INSTRUCTIONS

EXPOSITION MACHINE

	0P-2949	**EXPOSITION INSTRUCTION**	0	NC
		This special instruction must be selected whenever dealer is placing an order for a unit intended for use at expositions and/or trade fairs.		

USE	REF NO.	LANE 2 / 3 OPTIONAL	Ship Weight lbs	LIST PRICE AT DEALER

PACKING (CONT.)

PACKING STAIRS

0P-6588	**REMOVE PACK LEFT SIDE STAIRS**	0	**NC**
	REQUIRED BY: 515-7420 FENDERS, FRONT, AWD and 320-7431 MOLDBOARD, 14' BASIC		

120M2 MOTOR GRADER
PIRACICABA, BRAZIL

	Ship Weight lbs	LIST PRICE AT DEALER

Standard Equipment:

POWERTRAIN

Air cleaner,dual stage dry type radial seal with service indicator through messenger and automatic dust ejector
Air-to-air after cooler (ATAAC)
Brakes, oil disc, four-wheel, hydraulic
Demand fan, hydraulic
Differential, lock/unlock, AUTO
Drain, engine oil, ecology
Engine:
-C7.1 with ACERT technology, diesel, with automatic engine derate and idle control
-Meets U.S. EPA Tier 4 and
-EU Stage IIIb emission standards
-Fuel-water separator
Parking brake, multi-disc, sealed and Oil cooled
Priming pump, fuel
Transmission, 8 speed forward and 6 speed reverse, power shift, direct drive
VHP (Variable Horsepower Plus)
EIS (Engine Idle Shutdown)

ELECTRICAL

Alarm, back-up
Alternator, 150 ampere, sealed
Batteries, maintenance free, heavy duty, 1125 CCA
Electrical system, 24V
Grade control ready:
-Cab harness
-Software
-Bosses
-Brackets
-Electrical hydrualic valves
Lights, reversing
Lights, roading, roof-mounted
Lights, stop and tail, LED
Product link ready
Starter, electric

OPERATOR ENVIRONMENT

Air conditioning with heater
Display, digital speed and gear
Gauge, machine level
Gauges (analog) inside the cab:
-Fuel
-Articulation
-Engine coolant temp
-Engine RPM
-Hydraulic oil temp
-Regeneration
Joystick, adjustable armrests
Joystick gear selection
Joystick hydraulic controls:
-Right/left blade lift w/float position
-Front wheel lean and articulation
-Blade sideshift and tip -circle drive
-Centershift
-Steering
Joystick hydraulic power steering
Ladders, cab, left and right side
Messenger operator information System
Meter, hour, digital
Mirror, inside rearview, wide angle
ROPS cab, sound suppressed 70dB(A)
ISO 6394
Seat,cloth-covered, comfort Suspension
Seat belt, retractable 76.2 (3")
Storage area for cooler/lunchbox
Throttle control, electronic
Windows laminated glass:
-Fixed front with intermittent wiper
-Side and rear (3)
Cab storage

TIRES, RIMS, AND WHEELS

A partial allowance for tires on 254mm x 609.6mm (10" x 24") multi-piece rims is included in the base machine price and weight.

FLUIDS

Antifreeze
Extended life coolant to -35C/-30F

OTHER STANDARD EQUIPMENT

Accumulators, brake, dual certified
CD ROM parts book
Clutch, circle drive slip
Cutting edges, 152mm x 16mm (6" x 5/8") curved DH-2 steel, 19mm mounting bolts (3/4")
Doors, 4, engine compartment, (two left hand, two right hand,) locking
Drawbar, 4 shoe with replaceable wear strips
Endbits, 16mm (5/8") DH-2 steel, 19mm (3/4") mounting bolts
Fuel tank, 378 liters (100 gallon)
Ground level engine shutdown
Hammer (emergency exit)
Moldboard, 3658mm x 610mm x 22mm (12'x 24" x 7/8")

120M2 MOTOR GRADER
PIRACICABA, BRAZIL

	Ship Weight lbs	LIST PRICE AT DEALER

OTHER STANDARD EQUIPMENT (CONT.)

Pump, hydr, high capacity (98cc/6cu in)
Radiator, cleanout access (both sides with swing doors)
Secondary steering
SOS ports, engine, hydraulic transmission, coolant, fuel

120M2 MOTOR GRADER
PIRACICABA, BRAZIL

		Ship Weight lbs	LIST PRICE AT DEALER

Lane 2 is reserved for the Base Order Management Program.
Please use Lane 2 when placing orders that are part of the Base Order Management Program.

353-2916	**120M2 MOTOR GRADER**	35,038	**$316,620**
	LANE 2 - AVAILABLE FROM PIRACICABA FACTORY		
	LANE 3 - AVAILABLE FROM PIRACICABA FACTORY		
0P-3309	**120M2 MISC MATL**	0	**NC**
	AVAILABLE FROM PIRACICABA FACTORY		

Only reference numbers that have the text
"ALSO AVAILABLE ON A MISCELLANEOUS ORDER" can be used on a MISC order.

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

LANE SELECTION

	0P-9002	**LANE 2 ORDER**	0	NC
		Only for dealers enrolled in the Base Orders Management (BOM) program.		
	0P-9003	**LANE 3 ORDER**	0	NC

REGIONAL PACKAGES

L	353-2886	**GLOBAL ARRANGEMENT**	0	NC
		Provides standard brake accumulators. For use in temperatures above -18C.		
		CANNOT BE USED WITH: WEATHER, COLD PLUS		
L	379-0129	**GLOBAL ARRANGEMENT,LOW AMBIENT**	5	NC
		Provides brake accumulators for low ambient temperatures below -18C		
		CANNOT BE USED WITH: WEATHER, COLD PLUS		

PERFORMANCE PACKAGES

L	349-3046	**MOLDBOARD, 12'**	0	NC
		INCLUDES:		
		- Moldboard 12' x 24" x 7/8" (3658mm x 610mm x 22mm)		
		- Curved Cutting Edge, 6" X 5/8" (152mm x 16mm)		
		- End Bits, Standard, Without Overlay		
L	349-3047	**MOLDBOARD, 14' BASIC**	347	$1,140
		INCLUDES:		
		- Moldboard 14' x 24" x 7/8" (4267mm x 610mm x 22mm)		
		- Curved Cutting Edge, 8" x 3/4" (203mm x 19mm)		
		- End Bits, Standard, Without Overlay		
L	349-3048	**MOLDBOARD, 14' PLUS**	650	$2,710
		INCLUDES:		
		- Moldboard 14' x 27" x 1" (4267mm x 686mm x 25mm)		
		- Curved Cutting Edge, 8" x 3/4" (203mm x 19mm)		
		- End Bits, Standard, With Overlay		

WORK TOOLS

L	393-4882	**NO HITCH**	0	NC
L	337-7510	**HITCH, TOWING**	0	$540
L	332-2305	**RIPPER/SCARIFIER**	1,350	$19,660
			0	$19,660 NI
		ALSO AVAILABLE ON A MISCELLANEOUS ORDER		
		Hydraulic, rear mounted ripper with three straight ripper shanks and teeth. Can accommodate two additional ripper shanks or nine scarifier teeth which must be ordered separately.		
		REQUIRES: A hydraulics control part number that has a ripper function.		
		INCLUDES: Ripper Mounting		
		CANNOT BE USED WITH: COUNTERWEIGHT		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

PERFORMANCE PACKAGES (CONT.)

DRAWBAR

L	253-4626	**DRAWBAR, 4 SHOE CIRCLE GUIDES**	0	NC
		Provides four Shoe Circle Guides and wear surface area for the Drawbar/Circle system.		
L	265-6730	**DRAWBAR, 6 SHOE CIRCLE GUIDES**	180	$1,630
		Provides six Shoe Circle Guides and wear surface area for the Drawbar/Circle system.		

WEATHER PACKAGES

L	353-2891	**WEATHER, STANDARD**	0	NC
		Recommended for year around use when typical ambient temperature range is 5C (41F) to 43C (110F) and operating at altitude below 1220 m (4000 feet). INCLUDES: - Batteries, Heavy Duty - 1125 CCA - Oil, Hydraulic, 10W ONLY FOR USE WITH: 353-2886 GLOBAL ARRANGEMENT or 353-2888 TUV ROADING ARRANGEMENT		
L	353-2892	**WEATHER, COLD**	14	$745
		Recommended for year around use when typical ambient temperature range is -15C (5F) to 43C (110F) and operating at altitude below 1220 m (4000 feet). INCLUDES: - Batteries, Extreme Duty -1400 CCA - Oil, Hydraulic, 10W ONLY FOR USE WITH: 379-0129 GLOBAL ARRANGEMENT, LOW AMBIENT or 353-2888 TUV ROADING ARRANGEMENT or 353-2886 GLOBAL ARRANGEMENT or 395-3674 REGIONAL PACKAGE CANADA or 526-2562 EUROPEAN ARRANGEMENT		
L	353-2893	**WEATHER, COLD PLUS**	25	$2,670
		Recommended for year around use when typical ambient temperature range is -40C (-40F) to 40C (104F) and operating at altitude below 1220 m (4000 feet). INCLUDES: - Cold Start - Batteries, Extreme Duty -1400 CCA - Oil, Hydraulic, Cold, 0W REQUIRES: 255-1336 HEATER, ENGINE COOLANT, 120V 255-1337 HEATER, ENGINE COOLANT, 240V ONLY FOR USE WITH: 353-2886 GLOBAL ARRANGEMENT,LOW or 395-3674 REGIONAL PACKAGE CANADA or 379-0129 GLOBAL ARRANGEMENT, LOW AMBIENT or 526-2562 EUROPEAN ARRANGEMENT REQUIRED BY: 393-1562 SNOW ARRANGEMENT		

ACCUMULATORS

L	309-0760	**LINES,STANDARD W/O ACCUMULATOR**	5	NC
		Provides hydraulic lines for base functions.		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

PERFORMANCE PACKAGES (CONT.)

ACCUMULATORS (Cont.)

L	365-2203	**ACCUMULATORS, BLADE LIFT**	170	$4,605
		Provides hydraulic lines for base functions and accumulators for the blade lift. Allows approximately 1-3" of vertical blade travel to reduce impact loads. Nitrogen/oil accumulators activated by electric switch.		

PRECLEANER

L	356-1436	**PRECLEANER**	0	NC
		Includes dust ejector for medium to heavy dust environments.		
L	356-1437	**PRECLEANER, SY-KLONE**	5	$750
		Recommended for environments with large debris (leaves, chips, large grass, etc.)		

SPECIAL ARRANGEMENTS

INSTALLATION ARRANGEMENT

L	365-2196	**INSTALLATION ARRANGEMENT**	0	NC

POWERTRAIN

ENGINE

L	477-3438	**TIER 4 FINAL AB&T CREDIT USING**	0	NC
		C7.1 Engine with ACERT Technology EPA/ARB Tier 4 Final AB&T Certified Engine TIER 4 INTERIM EPA/STG		

OIL CHANGE

L	324-5330	**DRAIN, GRAVITY, ENGINE OIL**	0	NC
		Standard engine oil drain		
L	501-1160	**DRAIN, HIGH SPEED, ENGINE OIL**	0	$286
		High speed engine oil drain. Requires pump at service location to be attached to coupling receiver for high speed flow. HSO drain can also manual/gravity drain.		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS

NOTE: Optional Control Locations

Caterpillar offers many attachment hydraulic controls to operate work tools. Depending on which hydraulic part number is selected, the operating electro-hydraulic switches may include the auxiliary pod, mini-joystick located on the auxiliary pod, and/or the ripper control pod.

NOTE: Auxiliary controls that can have float

Auxiliary Pod Controls

```
INDEX =  Index Finger (front lift)(float capability)
MID   =  Middle Finger(dozer angle 1)
RING  =  Ring Finger (dozer angle 2)
LITTLE=  Little Finger (float capability)
```

NOTE: Mini-Joystick

```
                 Fore/Aft
                     .
                    / \
                     |
                <--------->  Left/Right (float capability)
                     |
                    \ /
                     .
```

NOTE: Ripper Control Pod

```
RH1   =  Front Lift (float capability)
RH2   =  Ripper-Scarifier Control
RHD   =  Ripper Handle Dual Switch (RH1 & RH2)
```

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

NOTE: Common Functions

COMMON FUNCTIONS:

Base = 8 functions: right and left blade lift, circle turn, drawbar center shift, blade side shift, blade tip, front wheel lean, frame articulation.

FL = Front Lift (moves front work tools up/down)
DA1 = Dozer Angle 1 (angles front blade left OR right)
DA2 = Dozer Angle 2 (angles front blade left AND right)
RIP = Rear Mounted Ripper (moves ripper up/down)
MMS = Mid-Mounted Scarifier
WM = Wing Mast
WT = Wing Tilt
Float = Built-in feature of valve section that opens both the work ports to tank. The external forces (weight of the implement) allows free movement of the implement.
Flow Rate=Provides maximum rate of fluid flow from the specific work port. B/A represents the maximum flow rate in Port B/Port A* in LPM (liters per minute).

*NOTE: Each valve section has two work ports (Port A and Port B).
Port A: Used to either raise implement or move implement to the right or for clockwise rotation of the implement.
Port B: Used to either lower implement or move implement to the left or for counter-clockwise rotation of the implement.

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

Valve Locations

This illustration shows the factory installed switch location for each function by hydraulic part number.

Part Number	MINI-JOYSTICK Front Aft	MINI-JOYSTICK Left/ Right Float	AUXILIARY POD Index with Float	AUXILIARY POD Mid	AUXILIARY POD Ring	AUXILIARY POD Little	RIPPER POD RHD RH1	RIPPER POD RHD RH2
242-5056								
309-9846								RIPPER
Float:								N
Flow rate:								50/50
309-9849								MID-MOUNT SCARIFIER
Float:								N
Flow Rate:								30/35
309-9847						FR.LIFT		
Float:						Y		
Flow Rate:						47/55		
309-9850						FR.LIFT	RIPPER	
Float:						Y	N	
Flow rate:						47/55	50/50	
370-6673						RIPPER	MID-MOUNT SCARIFIER	
Float:						N	N	
Flow rate:						30/35	50/50	
309-9858	MAST	TILT	FR.LIFT					
Float:	N	N	Y					
Flow rate:	80/80	36/24	47/55					
309-9856			FR.LIFT	DA1			RIPPER	
Float:			Y	N			N	
Flow rate:			47/55	80/80			50/50	
320-6753			FR.LIFT			RIPPER	MID-MOUNT SCARIFIER	
Float:			Y			N	N	
Flow rate:			47/55			30/35	50/50	
325-3006	MAST	TILT	FR.LIFT				RIPPER	
Float:	N	Y	Y				N	
Flow rate:	80/80	77/77	47/55				50/50	
309-9868	MAST	TILT	FR.LIFT				RIPPER	
Float:	N	N	Y				N	
Flow rate:	80/80	36/24	47/55				50/50	

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

HYDRAULIC VALVE LOCATIONS

Part Number	MINI-JOYSTICK Front Aft	MINI-JOYSTICK Left/ Right Float	AUXILIARY POD Index with Float	AUXILIARY POD Mid	AUXILIARY POD Ring	AUXILIARY POD Little	RIPPER POD RH1	RIPPER POD RH2
309-9870	MAST	TILT	FR.LIFT	DA1				RIPPER
Float:	N	N	Y	N				N
Flow rate:	80/80	36/24	47/55	80/80				50/50
309-9872	MAST	TILT	FR.LIFT	DA1				MID-MOUNT SCARIFIER
Float:	N	N	Y	N				N
Flow rate:	80/80	36/24	47/55	80/80				30/35

HYDRAULIC PART NUMBERS

L **242-5056** **HYDRAULICS, BASE** . . . . . 0 **NC**
Base hydraulic system includes machine articulation, wheel lean, left and right blade lift with independent float, drawbar centershift, circle drive, blade sideshift and tip.
CANNOT BE USED WITH: RIPPER-SCARIFIER, REAR
MID MOUNT SCARIFIER PACKAGE
LIFT GROUP, MANUAL, FRONT
FRONT BLADE PACKAGE

L **309-9846** **BASE + 1 (RIP)**. 21 **$2,140**
Ripper function. Includes the Ripper Lines.
REQUIRED BY: RIPPER-SCARIFIER, REAR

L **309-9849** **BASE + 1 (MMS)** 21 **$2,295**
Mid-Mount Scarifier function. Includes the Mid-Mount Scarifier Lines.
REQUIRED BY: MID MOUNT SCARIFIER PACKAGE

L **309-9847** **BASE + 1 (FL)**. 16 **$1,890**
FOR USE IN LANE 3 ONLY
Front Lift function. Includes the Front Lift Lines.
REQUIRED BY:
LIFT GROUP, MANUAL, FRONT
FRONT BLADE PACKAGE

L **309-9850** **BASE + 2 (FL, RIP)** 42 **$4,245**
Ripper and Front Lift functions. Includes the Front Lift Lines and Ripper Lines.
REQUIRED BY:
RIPPER-SCARIFIER, REAR
LIFT GROUP, MANUAL, FRONT
FRONT BLADE PACKAGE

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

HYDRAULIC PART NUMBERS (Cont.)

L	370-6673	**BASE + 2 (MMS, RIP)**	42	$4,085
		FOR USE IN LANE 3 ONLY Ripper and Mid-Mount Scarifier functions. Includes the Mid-Mount Scarifier Lines and Ripper Lines. REQUIRED BY: MID MOUNT SCARIFIER PACKAGE RIPPER-SCARIFIER, REAR		
L	309-9858	**BASE + 3 (FL&WM&WT)**	48	$6,340
		FOR USE IN LANE 3 ONLY Front Lift, Snow Wing Mast, and Snow Wing Tilt (38/26 - No Float) functions. Includes the Front Lift Lines. REQUIRED BY: MOUNT, SNOW WING, FRAME READY LIFT GROUP, MANUAL, FRONT FRONT BLADE PACKAGE		
L	309-9856	**BASE + 3 (R&FL&DA)**	53	$7,400
		FOR USE IN LANE 3 ONLY Ripper, Front Lift and Angle functions. Includes the Front Lift Lines Dozer Angle 1 Lines, and Ripper Lines. REQUIRED BY: RIPPER-SCARIFIER, REAR LIFT GROUP, MANUAL, FRONT FRONT BLADE PACKAGE		
L	320-6753	**BASE + 3 (FL, RIP, MMS)**	90	$7,150
		FOR USE IN LANE 3 ONLY Front Lift, Ripper and Mid-Mount Scarifier functions. Includes the Front Lift Lines, Ripper Lines and Mid-Mount Scarifier Lines. REQUIRED BY: LIFT GROUP, MANUAL, FRONT MID MOUNT SCARIFIER PACKAGE RIPPER-SCARIFIER, REAR FRONT BLADE PACKAGE		
L	325-3006	**BASE + 4 (WM,WT,FL,RIP)**	85	$8,860
		FOR USE IN LANE 3 ONLY Ripper, Front Lift, Snow Wing Mast and Snow Wing Tilt (77/77 with Float) functions. Includes the Front Lift Lines and Ripper Lines. REQUIRED BY: MOUNT, SNOW WING, FRAME READY LIFT GROUP, MANUAL, FRONT RIPPER-SCARIFIER, REAR FRONT BLADE PACKAGE		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

HYDRAULIC PART NUMBERS (Cont.)

L	309-9868	**BASE + 4 (WM,WT,FL,RIP) NOFLT**	85	$8,860
		FOR USE IN LANE 3 ONLY Ripper, Front Lift, Snow Wing Mast and Snow Wing Tilt (36/24 - No float) functions. Includes the Front Lift Lines and Ripper Lines. REQUIRED BY: MOUNT, SNOW WING, FRAME READY LIFT GROUP, MANUAL, FRONT RIPPER-SCARIFIER, REAR FRONT BLADE PACKAGE		
L	309-9870	**BASE + 5 (WM,WT,DA1,FL,RIP)**	64	$9,680
		FOR USE IN LANE 3 ONLY Ripper, Dozer Angle 1, Front Lift, Snow Wing Mast and Snow Wing Tilt (36/24 - No Float) functions. Includes the Front Lift Lines, Angle 1 Lines, and Ripper Lines. REQUIRED BY: MOUNT, SNOW WING, FRAME READY LIFT GROUP, MANUAL, FRONT RIPPER-SCARIFIER, REAR FRONT BLADE PACKAGE		

HYDRAULICS LANE 3 ONLY

L	309-9872	**BASE + 5 (WM,WT,DA1,FL,MMS)**	100	$10,660
		FOR USE WITH: Lane 3 only. Mid-Mount Scarifier, Dozer Angle 1, Front Lift, Snow Wing Mast and Snow Wing Tilt (36/24 - No Float) functions. Includes the Front Lift Lines, Dozer Angle 1 Lines and Mid-Mount Scarifier Lines. REQUIRED BY: MOUNT, SNOW WING, FRAME READY LIFT GROUP, MANUAL, FRONT FRONT BLADE PACKAGE MID MOUNT SCARIFIER PACKAGE		

ELECTRICAL

BRAKE LIGHTS

L	331-6793	**LIGHTS, BRAKE AND BACK-UP**	0	NC
		FOR USE IN LANE 3 ONLY Provides stationary rear brake lights along with the back-up lights. Does not include front headlights or turn signals CANNOT BE USED WITH: 393-1562 SNOW ARRANGEMENT 353-2888 TUV ROADING ARRANGEMENT 526-2562 EUROPEAN ARRANGEMENT ANY HEADLIGHTS OPTION		
L	560-9017	**LIGHTS, ARM, FOLD DOWN**	0	$1,880
		Provides stationary rear brake lights along with the back-up lights, dimmer switch for road lighting, drop-down stop, tail, and rear turn signals and back-up lights. REQUIRES: FRONT HEADLIGHTS (High/Low)/(Halogen/LED) INCLUDED IN: 393-1562 SNOW ARRANGEMENT		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

ELECTRICAL (CONT.)

HEADLIGHTS

L	553-2588	**HEADLIGHTS, FRONT, LOW, LED**	0	$1,365
		FOR USE IN LANE 3 ONLY Provides low bar LED headlights with front turn signals. CANNOT BE USED WITH: SNOW ARRANGEMENT ANY HALOGEN LIGHTING OPTION REQUIRED BY: LIGHTS,ARM, FOLD DOWN		
L	553-2589	**HEADLIGHTS, FRONT, HIGH, LED**	0	$1,365
		FOR USE IN LANE 3 ONLY Provides high bar LED headlights with front turn signals. CANNOT BE USED WITH: ANY HALOGEN LIGHTING OPTION REQUIRED BY: LIGHTS,ARM, FOLD DOWN SNOW ARRANGEMENT		
L	308-9370	**HEADLIGHTS,FRONT, LOW, HALOGEN**	0	$640
		Provides low bar HALOGEN headlights with front turn signals. CANNOT BE USED WITH: SNOW ARRANGEMENT ANY LED LIGHTING OPTION REQUIRED BY: LIGHTS,ARM, FOLD DOWN		
L	308-9371	**HEADLIGHTS,FRONT, HIGH,HALOGEN**	0	$640
		Provides HIGH bar headlights with front turn signals. CANNOT BE USED WITH: ANY LED LIGHTING OPTION REQUIRED BY: LIGHTS, ARM, FOLD DOWN SNOW ARRANGEMENT		

ROADING LIGHTS

L	421-7810	**LIGHTS, ROADING, HALOGEN**	0	NC
		Provides six halogen cab roof mounted roading lights.		
L	550-6608	**LIGHTS, ROADING, LED**	0	$1,245
		FOR USE IN LANE 3 ONLY Provides six LED cab roof mounted roading lights.		

STARTER ARRANGEMENT

L	419-3254	**STARTING, (BOSCH)**	0	NC
		Utilizes gear reduction technology providing improved reliability Provides a 710 Amp. Starter		
L	325-6335	**STARTING, (50 MT)**	21	$405
		Provides a 1000 Amp. starter Recommended for Cold weather applications REQUIRED BY: EUROPEAN ARRANGEMENT		
L	419-3255	**STARTING, (BOSCH)(TUV)**	0	NC
		FOR USE IN LANE 3 ONLY Recommended for Cold weather applications Provides a 1000 Amp. starter REQUIRED BY: TUV ROADING ARRANGEMENT		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

OPERATOR ENVIRONMENT

L	390-6788	**CAB, BASE**	0	**NC**
		INCLUDES: - Seat, mechanical suspension, cloth - 150 amp alternator - Standard Glass		
L	390-6789	**CAB, PLUS**	20	**$2,460**
		INCLUDES: - Seat, air suspension, cloth - 150 amp alternator - Wiper/washer, rear - Fan, defroster, rear window - Standard Glass		
L	390-6796	**CAB, PLUS, ANTI-ICING GLASS**	50	**$7,770**
		FOR USE IN LANE 3 ONLY INCLUDES: - Seat, air suspension, cloth - 280 amp alternator - Wiper/washer, rear - Fan, defroster, rear window - Front and RH doors are heated glass.		

TECHNOLOGY PRODUCTS

PRODUCT LINK

Product Link enables the remote transmission of information about the location, operation, and condition of your equipment. Efficiently and effectively monitor performance of your assets to help keep your jobs on schedule, maintain equipment condition, and reduce the costs of owning and operating your fleet.

Availability varies by country, please contact your Cat marketing representative with questions or click on the link below:
HTTPS://DEALER.CAT.COM/en/bt/otd/machine-price-list.html
From there click on the 'PRODUCT LINK Hardware Certification" link.

L	464-6805	**PRODUCT LINK, SATELLITE PLE631**	29	**$432**
		Satellite Product Link uses a satellite network for transmission of asset information including location, utilization and condition. For use in areas with poor or no cellular coverage.		
L	464-6443	**PRODUCT LINK, CELLULAR PLE641**	29	**NC**
		Product Link Elite series PLE641 offers expanded coverage including 3G UMTS and CDMA2000 as well as 2G GSM and CDMA cellular networks to transmit location, utilization and condition information for viewing in Product Link-s remote monitoring web interface. Cellular technology provides capabilities for frequent transmission and larger volumes of data.		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

TECHNOLOGY PRODUCTS (CONT.)

ACCUGRADE

L	362-5222	**NO ACCUGRADE**	0	NC
		REQUIRES: JOYSTICK CONTROLS, BASIC		
L	462-6388	**INSTALLATION, ACCUGRADE READY**	32	$4,830
		Allows the Motor Grader to be equipped with either a Cross Slope, Sonic, Laser, GPS, or ATS electronics kit. Provides software, harnesses for sensors, mounting for sensors and blade mast bracket.		
L	462-6389	**GRADE CONTROL X SLOPE**	165	$11,060
		Available for new orders only. Allows the operator to manually control one end of the blade to match the curb or crown while automatically maintaining the desired slope of the blade. This system is used to maintain the crown of a gravel road or the shoulder of a road. Provides cab switches, software, harnesses for sensors, mounting for sensors and blade mast bracket. Accugrade Ready is included in this option		
		REQUIRES: JOYSTICK CONTROLS, ADVANCED		

MOTOR GRADER CONTROLS

L	357-9151	**JOYSTICK CONTROLS, BASIC**	6	NC
		Standard joystick controls.		
		REQUIRED BY: NO ACCUGRADE		
L	458-8701	**JOYSTICK CONTROLS, ADVANCED**	8	$2,030
		Provides enhanced functionality while using ACCUGRADE READY or GRADE CONTROL X SLOPE		
		INCLUDES:		
		- Advanced Joysticks		
		- Harness		
		- Films		
		REQUIRED BY: GRADE CONTROL X SLOPE.		
		RECOMMENDED FOR USE WITH: ACCUGRADE READY		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

TIRES, RIMS, AND WHEELS

Tires listed below include a set of six tires.

****To calculate tire loads with machine attachments, please reference the MG Tire Selection Pocket Guide (media #AEXQ0182), available on the Electronic Sales Library.
All tire selections should be made with consideration for planned machine attachments (OEM and aftermarket) and their additional weight. Each tire has a maximum load rating that is not to be exceeded. The tire selection should be based on the maximum of all tire position loads on the machine. Assistance for calculating the highest tire load can be found in the Tire Load Worksheet in the back of the Caterpillar Motor Graders Tire Selection Pocket Guide. Failure to abide by the load ratings of the tires without first consulting the local tire supplier representative could result in nullification of the tire warranty.**

Due to industry-wide tire availability limitations, tire brand and type cannot be guaranteed. Every effort will be made to satisfy your tire choice, but we reserve the right to change to alternate tires. If the tire brand cannot be supplied, we may contact the dealer. However, in some cases, we will change to an alternative premium brand tire without notice. If the tire type cannot be supplied, we will contact the dealer to propose alternatives. The dealer needs to choose between an alternative tire or a "rims only" option (where available) within 72 hours. If no response is provided by the deadline, the order will default to the alternative tire and will be changed at that point. As a consequence of a possible tire change, the total machine price will be decreased or increased depending on the price of the new tire.

The information provided can be used to make a tire selection based on the particular conditions at the site. When available, the tire manufacturer should be consulted regarding proper tire selection.

Goodyear

L	310-7325	**TIRE, 17.5R25 GY RL2+6S 1*SP**	100	**$20,590**
		Goodyear RL2+ 6S on 13" x 25" multi-piece rims THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	310-7326	**TIRE, 17.5R25 GY RL2+6S 1*MP**	1,200	**$20,290**
		Goodyear RL2+ 6S on 14" x 25" multi-piece rims THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

TIRES, RIMS, AND WHEELS (CONT.)

Michelin

L	252-0771	**TIRES, 17.5R25 MX XTLA * L2 MP**	1,371	**$16,110**
		FOR USE IN LANE 2 ONLY Michelin XTLA 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	252-0679	**TIRES,14.0R24 MX XGLA2 * G2 MP**	1,069	**$10,860**
		Michelin XGLA2 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (7824 lbs) 3550 kg.**		
L	254-7904	**TIRES,14.0R24 MX XGLA2 * G2 SP**	709	**$7,290**
		FOR USE WITH LANE 3 ONLY Michelin XGLA 1* on 9" x 24" single piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (7824 lbs) 3550 kg.**		
L	254-7971	**TIRES, 17.5R25 MX XTLA * L2 SP**	979	**$11,910**
		FOR USE IN LANE 2 ONLY Michelin XTLA 1* on 13" x 25" single piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		

Bridgestone

L	252-0714	**TIRES, 14.0 R24 BS VKT * G2**	1,540	**$6,970**
		FOR USE IN LANE 3 ONLY Bridgestone VKT 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	252-0775	**TIRES, 17.5R25 BS VKT * D2A MP**	1,810	**$13,450**
		Bridgestone VKT 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	252-0720	**TIRES, 14.0R24 BS VUT * L2 MP**	1,012	**$7,250**
		Bridgestone VUT 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		

SHIPPING TIRES

L	440-3433	**TIRES, 17.5 SHIPPING, MP**	274	**$2,250**
		FOR USE WITH LANE 3 ONLY Shipping tire for use during shipment of machine only. Solid rubber band mounted on 14" x 25" multi-piece rims. Must be replaced with pneumatic tire before delivering to customer		
L	448-5577	**TIRES, 14.0 SHIPPING, MP**	90	**$2,000**
		FOR USE IN LANE 3 ONLY Shipping tire for use during shipment of machine only. Solid rubber band mounted on 10" x 24" multi-piece rims. Must be replaced with pneumatic tire before delivering to customer.		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

OTHER ATTACHMENTS

L	351-5178	**FRONT BLADE PACKAGE**	2,612	$11,510
		INCLUDES: - Front Blade (Lift & Lower only) - Lines for Front Blade REQUIRES: A hydraulics control part number that has a Front Lift function. CANNOT BE USED WITH: MID MOUNT SCARIFIER PACKAGE		
L	367-6880	**COUNTERWEIGHT**	885	$3,200
		Front mounted.Mandatory when machine is not equipped with front or rear mounted work tool attachments NOTE:This cannot be used in conjunction with push plate, front lift work tools,or the 'installed' hydraulic front lift. It can be used with a not installed hydraulic front lift (312-2204) CANNOT BE USED WITH: RIPPER-SCARIFIER, REAR		
L	367-6842	**PUSH PLATE, COUNTERWEIGHT**	2,822	$5,640
		Front mounted. Required when machine is equipped with rear ripper/scarifier and other rear mounted attachments. NOTE: This cannot be used in conjunction with counterweight, any front lift work tools,or the 'installed' hydraulic front lift. It can be used with a not installed hydraulic front lift. FOR USE WITH: RIPPER-SCARIFIER, REAR		
L	312-2204	**LIFT GROUP, MANUAL, FRONT**	1,500 1,500	$11,030 $11,030 NI
		FOR USE IN LANE 3 ONLY Front hydraulic lift without any work tool attached. REQUIRES: MOUNTING, FRONT LIFT - Hydraulics control part number that has front lift function NOTE: A Not-Installed Manual Lift Group can be ordered with an INSTALLED Push Plate/Counterweight. The not-installed lift group will be skidded, banded and shipped with the unit. CANNOT BE USED WITH: The Installed Manual Lift Group cannot be used with the MID MOUNT SCARIFIER PACKAGE (The Installed Manual Lift attached to the machine at the sametime as the mounting for the mid-mount scarifier, but not the actual scarifier itself).		

FLUIDS

COOLANT ANTIFREEZE

447-0898	**COOLANT, 50/50, -35C (-31F)**	0	NC
	Standard engine coolant		
447-0899	**COOLANT, 60/40, -51C (-60F)**	0	$245 NET
	Engine coolant recommended for extreme low temperatures		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

FLUIDS (CONT.)

CAB ANTIFREEZE

	0P-1939	**ANTIFREEZE WINDSHIELD WASHER**	0	NC
		For use with machines with cab.		
	0P-1940	**WINDSHIELD WASHER EMPTY**	0	NC
		For use with machines with cab.		

FUEL ANTIFREEZE

	0P-3978	**FUEL ANTIFREEZE, -25C (-13F)**	0	NC
		Provides fuel (diesel) antifreeze protection down to -25C (-13F)		

INSTRUCTIONS

SERVICE INSTRUCTIONS

LANGUAGES FOR DECAL PACKAGES, MESSENGER, AND PUBLICATIONS

NOTE: This part number will provide the language for Messenger, Operation and Maintenance Manual and films in the language of your selection. The word "WARNING" is on picto decals for ANSI. Symbols only are on picto decals for ISO.

L	310-0685	**LANGUAGE, ENGLISH**	0	NC
		Provides CAT Messenger and OMM in English and decals as required by ANSI		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

FEATURE PACKAGES

REGIONAL OPTIONAL PACKAGES

L	393-1562	**SNOW ARRANGEMENT**	364	$6,440

FOR USE IN LANE 3 ONLY
INCLUDES:
- LIGHTS, ARM, FOLD DOWN
- MOUNTING, WARNING LIGHT
- TRANSMISSION, AUTOSHIFT

REQUIRES: MOUNT,SNOW WING,FRAME RDY HAL or LED
LIGHTS, WORKING, PLUS, HALOGEN or LED
HEADLIGHTS, FRONT, HIGH, HAL OR LED
HEATER, ENGINE COOLANT, 120V or 240V
STARTER, ELEC, EXTREME DUTY or EXTRM DUTY(TUV)
WEATHER, COLD PLUS
CAB, PLUS (STANDARD GLASS) or (ANTI-ICING GLASS)

WORK TOOL PACKAGE

L	393-1563	**MOUNT,SNOW WING,FRAME RDY HAL**	251	$1,930

INCLUDES:
Snow Wing Mount
Light, Halogen, Snow Wing, Right Hand
REQUIRED BY: SNOW ARRANGEMENT

L	551-6545	**MOUNT,SNOW WING,FRAME RDY LED**	0	$2,340

FOR USE IN LANE 3 ONLY
INCLUDES:
- Snow Wing Mount
- Light, LED Snow Wing, Right Hand

REQUIRED BY: SNOW ARRANGEMENT

L	365-1336	**MID MOUNT SCARIFIER PACKAGE**	2,071	$16,290

INCLUDES:
- Mid-mount scarifier, V Type with 11 Teeth
- Mid-mount scarifier bracket

INCLUDES: MOUNT, MID-MOUNT SCARIFIER
CANNOT BE USED WITH: LIFT GROUP, MANUAL, FRONT (Installed)
CANNOT BE USED WITH: FENDERS, FRONT, NON-AWD
CANNOT BE USED WITH: FRONT BLADE PACKAGE

COMFORT PACKAGE

**Bluetooth radio technology enables the use of a hands free function such as listening to music and making phone calls.
Authorization varies by country, please contact your Cat marketing representative with questions or click on the link below:
https://dealer.cat.com/en/products/technology.html**

L	391-8968	**COMFORT PACKAGE**	19	$1,960

INCLUDES:
- Radio,12V, AM/FM, Weatherband
- Sun Shade, Rear
- Converter, Communication (CB)

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

FEATURE PACKAGES (CONT.)

COMFORT PACKAGE (Cont.)

L	397-5305	**COMFORT PACKAGE 2**	21	$2,495
		INCLUDES: -Radio, 12V, AM/FM CD/MP3 BLUETOOTH, Weatherband -Sun Shade, Rear -Converter, Communication (CB)		

LIGHTING PACKAGES

L	353-2894	**LIGHTS, WORKING, BASIC,HALOGEN**	19	$770
		INCLUDES: - Lights, work, heel 3X3 - Lights, work, midframe toe 3X3 - Switch, work lighting		
L	353-2895	**LIGHTS, WORKING, PLUS, HALOGEN**	19	$1,035
		INCLUDES: - Lights, halogen, ripper 3X3 - Lights, halogen, work, heel 3X3 - Lights, halogen, work, midframe toe 3X3 - Switch, work lighting CANNOT BE USED WITH: LIGHTS, ROADING, LED MOUNT,SNOW WING,FRAME RDY LED REQUIRED BY: SNOW ARRANGEMENT		
L	551-4433	**LIGHTS, WORKING, PLUS, LED**	0	$2,590
		FOR USE IN LANE 3 ONLY INCLUDES: - Lights, LED, ripper 3X3 - Lights, LED, work, heel 3X3 - Lights, LED, work, midframe toe 3X3 - Switch, work lighting CANNOT BE USED WITH: LIGHTS, ROADING, HALOGEN MOUNT,SNOW WING,FRAME RDY HAL REQUIRED BY: Snow Arrangement		

OTHER OPTIONAL ATTACHMENTS

L	338-1132	**LIGHT, LED WARNING STROBE**	5	$565
		Amber high-speed strobe beacon. REQUIRES: MOUNTING, WARNING LIGHT		
L	361-3137	**MOUNTING, WARNING LIGHT**	10	$725
		Provides the bracket for warning beacon light FOR USE WITH: LIGHT, LED WARNING STROBE INCLUDED IN: SNOW ARRANGEMENT		
L	248-6925	**TRANSMISSION, AUTOSHIFT**	5	$3,205
		Improves ease of operation and maximizes productivity by automatically shifting the transmission at optimal shift points. REQUIRED BY: 353-2888 TUV ROADING ARRANGEMENT or 526-2562 EUROPEAN ARRANGEMENT		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

OPERATOR ENVIRONMENT

MIRRORS

L	233-3295	**MIRRORS, OUTSIDE MOUNTED**	32	$495
		Provides two convex mirrors for outside mounting on the left and right cab grab irons. NOTE: the mirrors are wrapped in bubble wrap and rotated toward the doors for protection during shipment. REQUIRED BY: 353-2888 TUV ROADING ARRANGEMENT or 526-2562 EUROPEAN ARRANGEMENT		
L	344-0984	**MIRRORS, OUTSIDE HEATED 24V**	33	$670
		Provides mirrors with a 24V heating element to keep mirrors ice free in cold weather operations. NOTE: the mirrors are wrapped in bubble wrap and rotated toward the doors for protection during shipment. REQUIRED BY: 353-2888 TUV ROADING ARRANGEMENT or 526-2562 EUROPEAN ARRANGEMENT		

CAMERA

L	391-2914	**CAMERA,REAR VISION**	15	$2,535
		Provides a 115 degree color camera mounted on the rear of the hood that is connected to a 7 inch (178mm) LCD color display mounted in the cab which shows the view behind the machine. CAN NOT BE USED WITH: EUROPEAN AR. W/ ROADING (TUV) NOTE* EUROPEAN AR. W/ ROADING (TUV) includes front and rear facing cameras CANNOT BE USED WITH: 526-2562 EUROPEAN ARRANGEMENT 353-2888 TUV ROADING ARRANGEMENT		
L	536-6330	**CAMERA, REAR VISION W/MIRRORS**	0	$3,060
		FOR USE IN LANE 3 ONLY Provides increased visibility surrounding the machine. Proides a rear vision camera and round convex mirrors that are mounted on outside mirror brackets. Camera and mirrors - ISO 5006:2006 Compliant ONLY FOR USE WITH: 233-3295 MIRRORS, OUTSIDE MOUNTED OR 344-0984 MIRRORS, OUTSIDE HEATED 24V CANNOT BE USED WITH: 526-2562 EUROPEAN ARRANGEMENT 353-2888 TUV ROADING ARRANGEMENT NOTE: The mirrors are wrapped in bubble wrap and rotated toward the door for protection during shipment.		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER
		TECHNOLOGY PRODUCTS		
L	238-8827	**SECURITY SYSTEM, MACHINE**	10	$720
		Provides a programmable system to manage access to the machine using special MSS keys. Deters theft, vandalism, and unauthorized use. Programmable features allow the following: * limits operators to selected machines * controls the days and hours equipment may be started * controls access by untrained operators or personnel ONLY FOR USE WITH: LANE 3		
L	458-2072	**STABLE BLADE**	3	$2,470
		Provides sensor and software to automatically reduce engine speed in various applications to reduce machine bounce and scalloping of surface.		
		GUARDS		
		GUARDS		
L	367-6905	**GUARD, AXLE HOSE**	15	$1,075
		FOR USE IN LANE 3 ONLY Provides additional protection to the front axle cylinders, lines, and fittings. *NOTE* NOT recommended for use with tire chains		
L	366-2462	**GUARD, TRANSMISSION**	293	$3,400
		Provides a steel guard to protect the transmission from ground debris. REQUIRED BY: GUARD, TRANSMISSION SIDES/SOUND CANNOT BE USED WITH: EUROPEAN ARRANGEMENT AND TUV ROADING ARRANGEMENT		
L	366-6006	**GUARD,TRANSMISSION SIDES/SOUND**	167	$2,290
		FOR USE IN LANE 3 ONLY Provides two metallic side panels on either side of transmission guard, enclosing the rear of the machine. This option prevents debris from accumulating on top of the transmission guard and also suppresses sound to meet EU sound regulations. REQUIRES: GUARD, TRANSMISSION REQUIRES: GUARD GP, HITCH CANNOT BE USED WITH: EUROPEAN ARRANGEMENT AND TUV ROADING ARRANGEMENT		
L	307-1477	**SOUND SUPPRESSION, ENGINE ENCL**	32	$1,540
		FOR USE IN LANE 3 ONLY Supression panels in engine enclosure doors. INCLUDED IN: EUROPEAN ARRANGEMENT AND TUV ROADING ARRANGEMENT		
L	246-6027	**FENDERS, REAR**	360	$5,400
		FOR USE IN LANE 3 ONLY Provides non-metallic rear fenders to aid in reducing the build-up of mud, snow, or debris. Rear fenders are compatible with all MG tire sizes offered by the factory. ** NOT RECOMMENDED FOR USE WITH TIRE CHAINS.		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

GUARDS (CONT.)

GUARDS (Cont.)

L	308-7368	**FENDERS, FRONT, NON-AWD**	124	$4,130
		FOR USE IN LANE 3 ONLY Non-metallic front fenders aid in reducing the build-up of mud, snow, or debris. Front fenders are compatible with all Non-AWD tire sizes offered by the factory. ** NOT RECOMMENDED FOR USE WITH TIRE CHAINS. CANNOT BE USED WITH: MID MOUNT SCARIFIER PACKAGE CANNOT BE USED WITH: AXLE HOSE GUARD		
L	324-5396	**GUARD, DEBRIS**	20	$1,160
		FOR USE IN LANE 3 ONLY Provides a additional cooling with debris guard on underside of rear engine enclosure. REQUIRED BY: STARTING, ETHER CANNOT BE USED WITH: STARTING AID - ETHER		

OTHER ATTACHMENTS

STARTING AIDS

L	324-5338	**STARTING, ETHER**	1	$495
		FOR USE IN LANE 3 ONLY REQUIRES: GUARD, DEBRIS REQUIRED BY: WEATHER, COLD AND WEATHER, COLD PLUS		
L	373-8181	**STARTING AID - ETHER**	1	$495
		FOR USE WITH: WEATHER, COLD OR WEATHER, COLD PLUS CANNOT BE USED WITH: GUARD, DEBRIS		

ENGINE COOLANT HEATERS

L	255-1336	**HEATER, ENGINE COOLANT, 120V**	1	$230
		Engine coolant heater for 120 volt external power source. REQUIRED BY: SNOW ARRANGEMENT AND WEATHER COLD PLUS		

WORK TOOLS

WORK TOOLS

L	359-3925	**LIFT GROUP, FRONT MOUNTING**	10	$442
		Two mounting plates welded to both sides of the front frame for factory or future installation of Front Lift. REQUIRED BY: LIFT GROUP, MANUAL, FRONT		
L	359-3914	**MOUNT, MID-MOUNT SCARIFIER**	131	$1,410
		Brackets welded to front frame for future installation of midmount scarifier. NOTE: this is the mounting only and does not include the scarifier. There is a contact point with the mid-mount scarifier and the A Frame in extreme positions. REQUIRES: Hydraulics with a mid-scarifier function NOTE: If you intend to purchase the mid-mounted scarifier, please note that the actual scarifier cannot be attached to the machine at same time as the Lift Group, Hydraulic, Front INCLUDED IN: MID MOUNT SCARIFIER PACKAGE		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

GROUND ENGAGING TOOLS

P	8J-1434	**TOOTH, STRAIGHT**	67 67	**$805** **$805 NI**
		ALSO AVAILABLE ON A MISCELLANEOUS ORDER Ripper tooth group for rear ripper. Includes one straight shank with ripper tooth. Recommended order quantity of 2 FOR USE WITH: RIPPER/SCARIFIER		
P	4K-3330	**SHANKS/TEETH, RIPPER/SCARIFIER**	152	**$1,404**
		Nine shanks for ripper and scarifier combination. Utilizes the scarifier shank positions on a ripper and scarifier combination. Will work with a midmount scarifier ONLY FOR USE WITH: RIPPER/SCARIFIER		

GROUND ENGAGING TOOLS LANE 3 ONLY

NOTE: Blade extensions are not compatible with AccuGrade systems that require mast installation on the moldboard. This is due to interference between the mast mounting bracket and the blade extension mounting hardware. The mast mounting bracket must be removed prior to blade extension installation.

PACKING

EXPORT PACKING

0P-2265	**ROLL ON-ROLL OFF**	0	**$304 NET**
	(Cab or canopy remains mounted.)		
0P-2962	**SHIPPING TIRE FREIGHT OPTION**	0	**NC**
	This 0P is required when the machine is ordered with the Shipping Tire This insures the correct trailer is used for shipment preventing This is informational only and there is no additional charge. REQUIRED BY: TIRES, 17.5 SHIPPING, MP		
0P-6706	**BUNDLE EXPORT PACKING**	0	**NC**
	This OP should be ordered for all miscellaneous orders.		

SPECIAL INSTRUCTIONS

EXPOSITION MACHINE

0P-2949	**EXPOSITION INSTRUCTION**	0	**NC**
	This special instruction must be selected whenever dealer is placing an order for a unit intended for use at expositions and/or trade fairs.		

120M2 MOTOR GRADER
LITTLE ROCK, AR, USA (SAP)

	Ship Weight lbs	LIST PRICE AT DEALER

Standard Equipment:

POWERTRAIN

Air cleaner, dual stage dry type radial seal with service indicator and automatic dust ejector
Air-to-air after cooler (ATAAC)
Brakes, oil disc, four-wheel, hydraulic
Demand fan, hydraulic
Differential, lock/unlock, Automatic
Drain, engine oil, ecology
Engine:
-C7.1 with ACERT technology, diesel, with automatic engine derate and idle control
-Meets EPA/ARB Flexibility Engine and EU Stage IIIB Flexibility/Certified Engine requirement
Fuel-water separator
Parking brake, multi-disc, sealed, and oil cooled
Priming pump, fuel
Transmission, 8 speed forward and 6 speed reverse, power shift, and direct drive
VHP Plus(Variable Horsepower Plus)
EIS (Engine Idle Shutdown)

ELECTRICAL

Alarm, back-up
Alternator, 150 ampere, sealed
Batteries, maintenance free, heavy duty, 1125 CCA
Electrical system, 24V
Grade control ready:
-Cab harness
-Bosses
-Software
-Brackets
-Electrical hydrualic valves
Lights, reversing
Lights, roading, roof-mounted
Lights, stop and tail, LED
Product link ready
Starter, electric

OPERATOR ENVIRONMENT

Air conditioning with heater
Display, digital speed and gear
Gauge, machine level
Gauges (analog) inside the cab:
-Fuel
-Articulation
-Engine RPM
-Engine coolant temp
-Hydraulic oil temp
-Regeneration
Joystick, adjustable armrests
Joystick gear selection
Joystick hydraulic controls:
-Right/left blade lift w/float position
-Front wheel lean and articulation
-Blade sideshift and tip
- Circle drive
-Centershift
- Steering
Joystick hydraulic power steering
Ladders, cab, left and right side
Messenger operator information system
Meter, hour, digital
Mirror, inside rearview, wide angle
ROPS cab, sound suppressed
70dB(A)
ISO 6394
Seat,cloth-covered, comfort
Suspension
Seat belt, retractable 76.2mm (3")
Throttle control, electronic
Windows laminated glass:
-Fixed front with intermittent wiper
-Side and rear (3)
Cab storage

TIRES, RIMS, AND WHEELS

A partial allowance for tires on 254mm x 609.6mm (10"x 24") is included in the base machine price and weight.

FLUIDS

Antifreeze
Extended life coolant to -35C/-30F

OTHER STANDARD EQUIPMENT

Accumulators, brake, dual certified
CD ROM parts book
Clutch, circle drive slip
Cutting edges, 152mm x 16mm (6" x 5/8") curved DH-2 steel, 19mm mounting bolts (3/4")
Doors, 4, engine compartment, (two left hand, two right hand,) locking
Drawbar, 4 shoe with replaceable wear strips
Endbits, 16mm (5/8") DH-2 steel, 19mm (3/4") mounting bolts
Fuel tank, 378 liters (100 gallon)
Ground level engine shutdown
Hammer (emergency exit)
Moldboard, 3658mm x 610mm x 22mm (12'x 24" x 7/8")
Pump, hydr, high capacity (98cc/6cu in)

120M2 MOTOR GRADER
LITTLE ROCK, AR, USA (SAP)

	Ship Weight lbs	LIST PRICE AT DEALER

OTHER STANDARD EQUIPMENT (CONT.)

Radiator, cleanout access (both sides with swing doors)
Secondary steering
SOS ports, engine, hydraulic transmission, coolant, fuel

120M2 MOTOR GRADER LITTLE ROCK, AR, USA (SAP)	Ship Weight lbs	LIST PRICE AT DEALER

Lane 2 is reserved for the Base Order Management program.
Please use Lane 2 when placing orders that are part of the Base Order Management program.

120M2 MOTOR GRADER LITTLE ROCK, AR, USA (SAP)		Ship Weight lbs	LIST PRICE AT DEALER
353-2916	**120M2 MOTOR GRADER**	35,038	**$316,620**
	LANE 2 - AVAILABLE FROM NORTH LITTLE ROCK FACTORY LANE 3 - AVAILABLE FROM NORTH LITTLE ROCK FACTORY		
0P-1918	**120M2 MISC MATL NLR**	0	**NC**
	AVAILABLE FROM NORTH LITTLE ROCK FACTORY		

Only reference numbers that have the text
"ALSO AVAILABLE ON A MISCELLANOUS ORDER" can be used on a MISC order.

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

LANE SELECTION

	0P-9002	**LANE 2 ORDER**	0	NC
		Only for dealers enrolled in the Base Orders Management (BOM) program.		
	0P-9003	**LANE 3 ORDER**	0	NC

REGIONAL PACKAGES

L	353-2886	**GLOBAL ARRANGEMENT**	0	NC
		Provides standard brake accumulators. For temperature above -18C		
		CANNOT BE USED WITH: Canadian Dealers		
		WEATHER, COLD PLUS		
L	379-0129	**GLOBAL ARRANGEMENT,LOW AMBIENT**	5	NC
		Provides standard accumulators for low ambient temperatures below -18C		
		CANNOT BE USED WITH: Canadian Dealers		
		WEATHER, STANDARD		

PERFORMANCE PACKAGES

L	349-3046	**MOLDBOARD, 12′**	0	NC
		INCLUDES:		
		- Moldboard 12’ x 24" x 7/8" (3658mm x 610mm x 22mm)		
		- Curved Cutting Edge, 6" X 5/8" (152mm x 16mm)		
		- End Bits, Standard, Without Overlay		
L	349-3047	**MOLDBOARD, 14′ BASIC**	347	$1,140
		INCLUDES:		
		- Moldboard 14’ x 24" x 7/8" (4267mm x 610mm x 22mm)		
		- Curved Cutting Edge, 8" x 3/4" (203mm x 19mm)		
		- End Bits, Standard, Without Overlay		
L	349-3048	**MOLDBOARD, 14′ PLUS**	650	$2,710
		INCLUDES:		
		- Moldboard 14’ x 27" x 1" (4267mm x 686mm x 25mm)		
		- Curved Cutting Edge, 8" x 3/4" (203mm x 19mm)		
		- End Bits, Standard, With Overlay		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

PERFORMANCE PACKAGES (CONT.)

WORK TOOLS

L	393-4882	NO HITCH	0	NC
L	337-7510	HITCH, TOWING	0	$540
L	332-2305	RIPPER/SCARIFIER Hydraulic, rear mounted ripper with three straight ripper shanks. Can accommodate two additional ripper shanks or nine scarifier teeth which must be ordered separately. REQUIRES: A hydraulics control part number that has a ripper function. INCLUDES: Ripper Mounting NOT FOR USE WITH: COUNTERWEIGHT	1,350	$19,660

DRAWBAR

L	253-4626	DRAWBAR, 4 SHOE CIRCLE GUIDES Provides four Shoe Circle Guides and wear surface area for the Drawbar/Circle system.	0	NC
L	265-6730	DRAWBAR, 6 SHOE CIRCLE GUIDES Provides six Shoe Circle Guides and wear surface area for the Drawbar/Circle system.	180	$1,630

WEATHER PACKAGES

L	353-2891	WEATHER, STANDARD Recommended for year around use when typical ambient temperature range is 5C (41F) to 43C (110F) and operating at altitude below 1220 m (4000 feet). INCLUDES: - Batteries, Heavy Duty - 1125 CCA - Oil, Hydraulic, 10W FOR USE WITH: GLOBAL ARRANGEMENT	0	NC
L	353-2892	WEATHER, COLD Recommended for year around use when typical ambient temperature range is -15C (5F) to 43C (110F) and operating at altitude below 1220 m (4000 feet). INCLUDES: - Batteries, Extreme Duty -1400 CCA - Oil, Hydraulic, 10W FOR USE WITH: GLOBAL ARRANGEMENT, CANADIAN ARRANGEMENT, or GLOBAL ARRANGEMENT,LOW	14	$745
L	353-2893	WEATHER, COLD PLUS Recommended for year around use when typical ambient temperature range is -40C (-40F) to 40C (104F) and operating at altitude below 1220 m (4000 feet). INCLUDES: - Cold Start - Batteries, Extreme Duty -1400 CCA - Oil, Hydraulic, Cold, 0W REQUIRES: HEATER, ENGINE COOLANT, 120V or HEATER, ENGINE COOLANT, 240V REQUIRES: STARTER, ELECTRIC, HEAVY DUTY FOR USE WITH: GLOBAL ARRANGEMENT,LOW or CANADIAN ARRANGEMENT REQUIRED BY: SNOW ARRANGEMENT	25	$2,670

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

PERFORMANCE PACKAGES (CONT.)

ACCUMULATORS

L	309-0760	**LINES,STANDARD W/O ACCUMULATOR**	5	NC
		Provides hydraulic lines for base functions.		
L	365-2203	**ACCUMULATORS, BLADE LIFT**	170	$4,605
		Provides hydraulic lines for base functions and accumulators for the blade lift. Allows approximately 1-3" of vertical blade travel to reduce impact loads. Nitrogen/oil accumulators activated by electric switch.		

PRECLEANER

L	356-1436	**PRECLEANER.**	0	NC
		Includes dust ejector for medium to heavy dust environments.		
L	356-1437	**PRECLEANER, SY-KLONE**	5	$750
		Recommended for environments with large degris (leaves, chips, large grass, etc.)		

SPECIAL ARRANGEMENTS

INSTALLATION ARRANGEMENT

L	365-2196	**INSTALLATION ARRANGEMENT**	0	NC
		Installation Arrangement for Box Frame		

POWERTRAIN

ENGINE SELECTION

L	477-3438	**TIER 4 FINAL AB&T CREDIT USING**	0	NC
		C7.1 Engine with ACERT Technology EPA/ARB Tier 4 Final AB&T Certified Engine TIER 4 INTERIM EPA/STG		

OIL CHANGE

L	324-5330	**DRAIN, GRAVITY, ENGINE OIL**	0	NC
		Standard engine oil drain		
L	501-1160	**DRAIN, HIGH SPEED, ENGINE OIL**	0	$286
		High speed engine oil drain. Requires pump at service location to be attached to coupling receiver for high speed flow. HSO drain can also manual/gravity drain.		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS

NOTE: Optional Control Locations

Caterpillar offers many attachment hydraulic controls to operate work tools. Depending on which hydraulic part number is selected, the operating electro-hydraulic switches may include the auxiliary pod, mini-joystick located on the auxiliary pod, and/or the ripper control pod.

NOTE: Auxiliary controls that can have float

Auxiliary Pod Controls

```
INDEX =  Index Finger (front lift)(float capability)
MID   =  Middle Finger(dozer angle 1)
RING  =  Ring Finger (dozer angle 2)
LITTLE=  Little Finger (float capability)
```

NOTE: Mini-Joystick

```
                 Fore/Aft
                     .
                    / \
                     |
                <--------->  Left/Right (float capability)
                     |
                    \ /
                     .
```

NOTE: Ripper Control Pod

```
RH1   =  Front Lift (float capability)
RH2   =  Ripper-Scarifier Control
RHD   =  Ripper Handle Dual Switch (RH1 & RH2)
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USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

NOTE: Common Functions

COMMON FUNCTIONS:

Base = 8 functions: right and left blade lift, circle turn, drawbar center shift, blade side shift, blade tip, front wheel lean, frame articulation.

FL = Front Lift (moves front work tools up/down)
DA1 = Dozer Angle 1 (Angles front blade left OR right)
DA2 = Dozer Angle 2 (Angles front blade left AND right)
RIP = Rear Mounted Ripper (moves ripper up/down)
MMS = Mid-Mounted Scarifier
WM = Wing Mast
WT = Wing Tilt
Float = Built-in feature of valve section that opens both the work ports to tank. The external forces (weight of the implement) allows free movement of the implement.
Flow Rate=Provides maximum rate of fluid flow from the specific work port. B/A represents the maximum flow rate in Port B/Port A* in LPM (liters per minute).

*NOTE: Each valve section has two work ports (Port A and Port B).
Port A: Used to either raise implement or move implement to the right or for clockwise rotation of the implement.
Port B: Used to either lower implement or move implement to the left or for counter-clockwise rotation of the implement.

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

Hydraulic Valve Locations

This illustration shows the factory installed switch location for each function by hydraulic part number.

Part Number	MINI-JOYSTICK Front Aft	MINI-JOYSTICK Left/ Right Float	AUXILIARY POD Index with Float	AUXILIARY POD Mid	AUXILIARY POD Ring	AUXILIARY POD Little	RIPPER POD RHD RH1	RIPPER POD RHD RH2
242-5056								
309-9846								RIPPER
Float:								N
Flow rate:								50/50
309-9849								MID-MOUNT SCARIFIER
Float:								N
Flow Rate:								30/35
309-9847							FR.LIFT	
Float:							Y	
Flow Rate:							47/55	
309-9850							FR.LIFT	RIPPER
Float:							Y	N
Flow rate:							47/55	50/50
370-6673							MID-MOUNT SCARFIER	RIPPER
Float:							N	N
Flow rate:							30/35	50/50
309-9858	MAST	TILT	FR.LIFT					
Float:	N	N	Y					
Flow rate:	80/80	36/24	47/55					
309-9856			FR.LIFT	DA1				RIPPER
Float:			Y	N				N
Flow rate:			47/55	80/80				50/50
320-6753			FR.LIFT				RIPPER	MID-MOUNT SCARIFIER
Float:			Y				N	N
Flow rate:			47/55				30/35	50/50
325-3006	MAST	TILT	FR.LIFT					RIPPER
Float:	Y	Y	Y					Y
Flow rate:	80/80	77/77	47/55					50/50
309-9868	MAST	TILT	FR.LIFT					RIPPER
Float:	N	N	Y					N
Flow rate:	80/80	36/24	47/55					50/50

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

HYDRAULIC VALVE LOCATIONS

Part Number	MINI-JOYSTICK Front Aft	MINI-JOYSTICK Left/ Right Float	AUXILIARY POD Index with Float	AUXILIARY POD Mid	AUXILIARY POD Ring	AUXILIARY POD Little	RIPPER POD RH1	RIPPER POD RH2
309-9870	MAST	TILT	FR.LIFT	DA1				RIPPER
Float:	N	N	Y	N				N
Flow rate:	80/80	36/24	47/55	80/80				50/50
309-9872	MAST	TILT	FR.LIFT	DA1			MID-MOUNT SCARIFIER	
Float:	N	N	Y	N			N	
Flow rate:	80/80	36/24	47/55	80/80			30/35	

HYDRAULIC VALVE PART NUMBERS

L	242-5056	**HYDRAULICS, BASE** . . . . . 0 Base hydraulic system includes machine articulation, wheel lean, left and right blade lift with independent float, drawbar centershift, circle drive, blade sideshift and tip.		NC
L	309-9846	**BASE + 1 (RIP)**. . . . . 21 Ripper function. Includes the Ripper Lines. FOR USE WITH: RIPPER-SCARIFIER, REAR		$2,140
L	309-9849	**BASE + 1 (MMS)** . . . . . 21 Mid-Mount Scarifier function. Includes the Mid-Mount Scarifier Lines. FOR USE WITH: MID MOUNT SCARIFIER PACKAGE		$2,295
L	309-9847	**BASE + 1 (FL)**. . . . . 16 FOR USE IN LANE 3 ONLY Front Lift function. Includes the Front Lift Lines. FOR USE WITH: LIFT GROUP, MANUAL, FRONT		$1,890
L	309-9850	**BASE + 2 (FL, RIP)** . . . . . 42 Ripper and Front Lift functions. Includes the Front Lift Lines and Ripper Lines. FOR USE WITH: LIFT GROUP, MANUAL, FRONT Tools FOR USE WITH: RIPPER-SCARIFIER, REAR		$4,245
L	309-9858	**BASE + 3 (FL&WM&WT)** . . . . . 48 FOR USE IN LANE 3 ONLY Front Lift, Snow Wing Mast, and Snow Wing Tilt (38/26 - No Float) functions. Includes the Front Lift Lines. FOR USE WITH: SNOW ARRANGEMENT FOR USE WITH: LIFT GROUP, MANUAL, FRONT		$6,340
L	309-9856	**BASE + 3 (R&FL&DA)** . . . . . 53 FOR USE IN LANE 3 ONLY Ripper, Front Lift and Angle functions. Includes the Front Lift Lines Dozer Angle 1 Lines, and Ripper Lines. FOR USE WITH: LIFT GROUP, MANUAL, FRONT FOR USE WITH: RIPPER-SCARIFIER, REAR		$7,400

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

HYDRAULIC VALVE PART NUMBERS (Cont.)

L	320-6753	**BASE + 3 (FL, RIP, MMS)**	90	$7,150
		FOR USE IN LANE 3 ONLY Front Lift, Ripper and Mid-Mount Scarifier functions. Includes the Front Lift Lines, Ripper Lines and Mid-Mount Scarifier Lines. FOR USE WITH: LIFT GROUP, MANUAL, FRONT FOR USE WITH: RIPPER-SCARIFIER, REAR FOR USE WITH: MID MOUNT SCARIFIER PACKAGE		
L	325-3006	**BASE + 4 (WM,WT,FL,RIP)**	85	$8,860
		FOR USE IN LANE 3 ONLY Ripper, Front Lift, Snow Wing Mast and Snow Wing Tilt (77/77 with with Float) functions. Includes the Front Lift Lines and Ripper Lines. FOR USE WITH: SNOW ARRANGEMENT FOR USE WITH: LIFT GROUP, MANUAL, FRONT FOR USE WITH: RIPPER-SCARIFIER, REAR		
L	309-9868	**BASE + 4 (WM,WT,FL,RIP) NOFLT**	85	$8,860
		FOR USE IN LANE 3 ONLY Ripper, Front Lift, Snow Wing Mast and Snow Wing Tilt (36/24 - no float) functions. Includes the Front Lift Lines and Ripper Lines. FOR USE WITH: SNOW ARRANGEMENT FOR USE WITH: LIFT GROUP, MANUAL, FRONT FOR USE WITH: RIPPER-SCARIFIER, REAR		
L	309-9870	**BASE + 5 (WM,WT,DA1,FL,RIP)**	64	$9,680
		FOR USE IN LANE 3 ONLY Ripper, Dozer Angle 1, Front Lift, Snow Wing Mast and Snow Wing Tilt (36/24 - No Float) functions. Includes the Front Lift Lines, Angle 1 Lines, and Ripper Lines. FOR USE WITH: SNOW ARRANGEMENT FOR USE WITH: LIFT GROUP, MANUAL, FRONT FOR USE WITH: RIPPER-SCARIFIER, REAR		

HYDRAULICS LANE 3 ONLY

L	309-9872	**BASE + 5 (WM,WT,DA1,FL,MMS)**	100	$10,660
		FOR USE WITH: Lane 3 only. Mid-Mount Scarifier, Dozer Angle 1, Front Lift, Snow Wing Mast and Snow Wing Tilt (36/24 - No Float) functions. Includes the Front Lift Lines, Dozer Angle 1 Lines and Mid-Mount Scarifier Lines. FOR USE WITH: SNOW ARRANGEMENT FOR USE WITH: MOUNT, SNOW WING, FRAME READY FOR USE WITH: LIFT GROUP, MANUAL, FRONT FOR USE WITH: MID MOUNT SCARIFIER PACKAGE		

ELECTRICAL

REAR BRAKE LIGHTS

L	560-9017	**LIGHTS, ARM, FOLD DOWN**	0	$1,880
		Provides stationary rear brake lights along with the back-up lights, dimmer switch for road lighting, drop-down stop, tail, and rear turn signals and back-up lights. REQUIRES: FRONT HEADLIGHTS (High/Low)/(Halogen/LED) INCLUDED IN: 393-1562 SNOW ARRANGEMENT		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

ELECTRICAL (CONT.)

REAR BRAKE LIGHTS (Cont.)

L	331-6793	**LIGHTS, BRAKE AND BACK-UP**	0	NC
		FOR USE IN LANE 3 ONLY Provides stationary rear brake lights along with the back-up lights. Does not include front headlights or turn signals CANNOT BE USED WITH: SNOW ARRANGEMENT FRONT HEADLIGHTS (High/Low)/(Halogen/LED)		

ROADING LIGHTS

L	421-7810	**LIGHTS, ROADING, HALOGEN**	0	NC
		Provides six halogen cab roof mounted roading lights. CANNOT BE USED WITH: HEADLIGHTS, FRONT, LOW, LED HEADLIGHTS, FRONT, HIGH, LED		
L	550-6608	**LIGHTS, ROADING, LED**	0	$1,245
		Provides six LED cab roof mounted roading lights. CANNOT BE USED WITH: HEADLIGHTS,FRONT, LOW, HALOGEN HEADLIGHTS,FRONT, HIGH,HALOGEN		

STARTER ARRANGEMENT

L	419-3254	**STARTING, (BOSCH)**	0	NC
		Utilizes gear reduction technology providing improved reliability Provides a 710 Amp. starter		
L	325-6335	**STARTING, (50 MT)**	21	$405
		Recommended for Cold weather applications Provides a 1000 Amp. starter		

OPERATOR ENVIRONMENT

L	390-6788	**CAB, BASE**	0	NC
		INCLUDES: - Seat, mechanical suspension, cloth - 150 amp alternator - Standard Glass CANNOT BE USED WITH: SNOW ARRANGEMENT		
L	390-6789	**CAB, PLUS**	20	$2,460
		INCLUDES: - Seat, air suspension, cloth - 150 amp alternator - Wiper/washer, rear - Fan, defroster, rear window - Standard Glass		
L	390-6796	**CAB, PLUS, ANTI-ICING GLASS**	50	$7,770
		FOR USE IN LANE 3 ONLY INCLUDES: - Seat, air suspension, cloth - 280 amp alternator - Wiper/washer, rear - Fan, defroster, rear window - Anti-Icing Glass		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

TECHNOLOGY PRODUCTS

PRODUCT LINK

Product Link enables the remote transmission of information about the location, operation, and condition of your equipment. Efficiently and effectively monitor the performance of your assets to help keep your jobs on schedule, maintain equipment condition, and reduce the costs of owning and operating your fleet. Availability varies by country - please reference https://Dealer.cat.com/PL/Certification for certified countries. Please contact your Caterpillar marketing representative with questions.

L	464-6805	**PRODUCT LINK, SATELLITE PLE631**	29	**$432**
		Product Link Elite series PLE631 uses a satellite network to transmit location, utilization and condition information for viewing in Product Link's remote monitoring web interface. For use in areas with poor or no cellular coverage.		
L	464-6443	**PRODUCT LINK, CELLULAR PLE641**	29	**NC**
		Product Link Elite series PLE641 offers expanded coverage including 3G UMTS and CDMA2000 as well as 2G GSM and CDMA cellular networks to transmit location, utilization and condition information for viewing in Product Link-s remote monitoring web interface. Cellulartechnology provides capabilities for frequent transmission and larger volumes of data.		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

TECHNOLOGY PRODUCTS (CONT.)

ACCUGRADE

L	362-5222	**NO ACCUGRADE**	0	NC
		REQUIRES: JOYSTICK CONTROLS, BASIC		
L	462-6388	**INSTALLATION, ACCUGRADE READY**	32	$4,830
		Allows the Motor Grader to be equipped with either a Cross Slope, Sonic, Laser, GPS, or ATS electronics kit. Provides software, harnesses for sensors, and mounting for sensors and blade mast bracket.		

NOTE: Highly recommended to select Advanced Joystick Controls. This will Allow for complete configuration and control when using 3 party grade control systems

L	462-6389	**GRADE CONTROL X SLOPE**	165	$11,060
		Available for new orders only. Allows the operator to manually control one end of the blade to match the curb or crown while automatically maintaining the desired slope of the blade. This system is used to maintain the crown of a gravel road or the shoulder of a road. Provides cab switches, software, harnesses for sensors, mounting for sensors and blade mast bracket. Accugrade Ready is included in this option. REQUIRES: JOYSTICK CONTROLS, ADVANCED		

MOTOR GRADER CONTROLS

L	357-9151	**JOYSTICK CONTROLS, BASIC**	6	NC
		Standard joystick controls. REQUIRED BY: NO ACCUGRADE		
L	458-8701	**JOYSTICK CONTROLS, ADVANCED**	8	$2,030
		Provides enhanced functionality while using ACCUGRADE READY or GRADE CONTROL X SLOPE INCLUDES: - Advanced Joysticks - Harness - Films REQUIRED BY: GRADE CONTROL X SLOPE. RECOMMENDED FOR USE WITH: ACCUGRADE READY		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

TIRES, RIMS, AND WHEELS

Tires listed below include a set of six tires.

****To calculate tire loads with machine attachments, please reference the MG Tire Selection Pocket Guide (media #AEXQ0182), available on the Electronic Sales Library.
All tire selections should be made with consideration for planned machine attachments (OEM and aftermarket) and their additional weight. Each tire has a maximum load rating that is not to be exceeded. The tire selection should be based on the maximum of all tire position loads on the machine. Assistance for calculating the highest tire load can be found in the Tire Load Worksheet in the back of the Caterpillar Motor Graders Tire Selection Pocket Guide. Failure to abide by the load ratings of the tires without first consulting the local tire supplier representative could result in nullification of the tire warranty.**

Due to industry-wide tire availability limitations, tire brand and type cannot be guaranteed. Every effort will be made to satisfy your tire choice, but we reserve the right to change to alternate tires. If the tire brand cannot be supplied, the dealer will be contacted to propose alternative tire options. The dealer will need to respond with an alternative tire selection within 72 hours. If no response is provided by the supplier, the order will default to a comparable tire. As a consequence of a tire change, the total machine price will be decreased or increased relative to the price of the new tire selection.

The information provided can be used to make a tire selection based on the particular conditions at the site. When available, the tire manufacturer should be consulted regarding proper tire selection.

Bridgestone

L	252-0720	**TIRES, 14.0R24 BS VUT * L2 MP**	1,012	**$7,250**
		Bridgestone VUT 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	252-0714	**TIRES, 14.0 R24 BS VKT * G2**	1,540	**$6,970**
		FOR USE IN LANE 3 ONLY Bridgestone VKT 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	252-0775	**TIRES, 17.5R25 BS VKT * D2A MP**	1,810	**$13,450**
		FOR USE WITH LANE 3 ONLY Bridgestone VKT 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

TIRES, RIMS, AND WHEELS (CONT.)

Michelin

L	254-7904	**TIRES,14.0R24 MX XGLA2 * G2 SP**	709	$7,290
		FOR USE WITH LANE 3 ONLY Michelin XGLA 1* on 9" x 24" single piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (7824 lbs) 3550 kg.**		
L	252-0679	**TIRES,14.0R24 MX XGLA2 * G2 MP**	1,069	$10,860
		Michelin XGLA2 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (7824 lbs) 3550 kg.**		
L	254-7971	**TIRES, 17.5R25 MX XTLA * L2 SP**	979	$11,910
		FOR USE WITH LANE 3 ONLY Michelin XTLA 1* on 13" x 25" single piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	252-0701	**TIRES,14.0R24 MX XSNO+ * G2 MP**	1,282	$14,890
		FOR USE IN LANE 3 ONLY Michelin XSNO 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (7824 lbs) 3550 kg.**		
L	252-0771	**TIRES, 17.5R25 MX XTLA * L2 MP**	1,371	$16,110
		FOR USE IN LANE 3 ONLY Michelin XTLA 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		

SHIPPING TIRES

L	440-3433	**TIRES, 17.5 SHIPPING, MP**	274	$2,250
		FOR USE WITH LANE 3 ONLY Shipping tire for use during shipment of machine only. Solid ruber band mounted on 14" x 25" multi-piece rims. Must be replaced with pneumatic tire before delivering to customer.		
L	448-5577	**TIRES, 14.0 SHIPPING, MP**	90	$2,000
		FOR USE WITH LANE 3 ONLY Shipping tire for use during shipment of machine only. Solid ruber band mounted on 10" x 24" multi-piece rims. Must be replaced with pneumatic tire before delivering to customer.		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

OTHER ATTACHMENTS

OTHER ATTACHMENTS

L	367-6880	**COUNTERWEIGHT**	885	$3,200
			0	$3,200 NI

NOTE
NOT INSTALLED option is only for use with Miscellaneous order using 0P-1918 120M2 MISC MATERIAL NLR

Front mounted. Mandatory when machine is not equipped with rear or front mounted work tool attachments.
NOTE:This cannot be used in conjunction with push plate, front lift work tools,or the 'installed' hydraulic front lift. It can be used with a not installed hydraulic front lift
CANNOT BE USED WITH: RIPPER-SCARIFIER, REAR

L	367-6842	**PUSH PLATE, COUNTERWEIGHT**	2,822	$5,640
			2,822	$5,640 NI

NOTE
NOT INSTALLED option is only for use with Miscellaneous order using 0P-1918 120M2 MISC MATERIAL NLR

Front mounted.Required when machine is equipped with rear ripper/scarifier and other rear mounted attachments.
NOTE: This cannot be used in conjunction with counterweight, any front lift work tools,or the 'installed' hydraulic front lift. It can be used with a not installed hydraulic front lift.
FOR USE WITH: RIPPER-SCARIFIER, REAR

L	312-2204	**LIFT GROUP, MANUAL, FRONT**	1,500	$11,030
			1,500	$11,030 NI

FOR USE IN LANE 3 ONLY
Front hydraulic lift without any work tool attached.
REQUIRES Hydraulics control part number that has front lift function
REQUIRES: MOUNTING, FRONT LIFT
REQUIRED BY: Front Scarifiers

NOTE: A Not-Installed Manual Lift Group can be ordered with an INSTALLED Push Plate/Counterweight. The not-installed lift group will be skidded, banded and shipped with the unit.

CANNOT BE USED WITH:
- The Installed Manual Lift Group cannot be used with the MID MOUNT SCARIFIER PACKAGE

(The Installed Manual Lift can be attached to the machine at the same time as the mounting for the Mid-Mount Scarifier, but not the actual scarifier itself).

FLUIDS

ANTIFREEZE

	447-0898	**COOLANT, 50/50, -35C (-31F)**	0	NC

Standard engine coolant

	447-0899	**COOLANT, 60/40, -51C (-60F)**	0	$245 NET

Engine coolant recommended for extreme low temperatures

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

INSTRUCTIONS

SERVICE INSTRUCTIONS

LANGUAGES FOR DECAL PACKAGES, MESSENGER, AND PUBLICATIONS

NOTE: This part number will provide the language for Messenger, Operation and Maintenance Manual and films in the language of your selection. The word "WARNING" is on picto decals for ANSI. Symbols only are on picto decals for ISO.

L	310-0685	**LANGUAGE, ENGLISH** . . . . . Provides CAT Messenger and OMM in English and decals as required by ANSI.	0	NC

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

FEATURE PACKAGES

REGIONAL OPTIONAL PACKAGES

L	393-1562	**SNOW ARRANGEMENT**	364	$6,440

FOR USE IN LANE 3 ONLY
INCLUDES:
- LIGHTS, ARM, FOLD DOWN
- MOUNTING, WARNING LIGHT
- TRANSMISSION, AUTOSHIFT

REQUIRES: MOUNT,SNOW WING,FRAME RDY HAL or LED
LIGHTS, WORKING, PLUS, HALOGEN or LED
HEATER, ENGINE COOLANT, 120V or 240V
STARTER, ELEC, EXTREME DUTY or EXTRM DUTY(TUV)
WEATHER, COLD PLUS
CAB, PLUS (STANDARD GLASS) or (ANTI-ICING GLASS)
FRONT HEADLIGHTS, HIGH (Halogen or LED)

WORK TOOL PACKAGE

L	365-1336	**MID MOUNT SCARIFIER PACKAGE**	2,071	$16,290

INCLUDES:
- Mid-mount scarifier, V Type with 11 Teeth
- Mid-mount scarifier bracket

INCLUDES: MOUNT, MID-MOUNT SCARIFIER
NOT FOR USE WITH: LIFT GROUP, MANUAL, FRONT (Installed)
NOT FOR USE WITH: FENDERS, FRONT, NON-AWD
NOT FOR USE WITH: FRONT BLADE PACKAGE

WORK TOOL PACKAGE-SNOW WING MOUNT

L	393-1563	**MOUNT,SNOW WING,FRAME RDY HAL**	251	$1,930

FOR USE IN LANE 3 ONLY
INCLUDES:
Snow Wing Mount
Light, Halogen, Snow Wing, Right Hand
CANNOT BE USED WITH: ANY LED LIGHTING OPTION
REQUIRED BY: SNOW ARRANGEMENT

L	551-6545	**MOUNT,SNOW WING,FRAME RDY LED**	0	$2,340

FOR USE IN LANE 3 ONLY
INCLUDES:
- Snow Wing Mount
- Light, LED Snow Wing, Right Hand

CANNOT BE USED WITH: ANY HALOGEN LIGHTING OPTION
REQUIRED BY: SNOW ARRANGEMENT

COMFORT PACKAGE

L	391-8968	**COMFORT PACKAGE**	19	$1,960

INCLUDES:
- Radio,12V, AM/FM, Weatherband
- Sun Shade, Rear
- Converter, Communication (CB)

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

FEATURE PACKAGES (CONT.)

COMFORT PACKAGE (Cont.)

L	**397-5305**	**COMFORT PACKAGE 2**	21	**$2,495**
		INCLUDES: - Radio, 12V, AM/FM CD/MP3 BLUETOOTH, Weatherband - Sun Shade, Rear - Converter, Communication (CB)		

USE	REF NO.	INFORMATION	Ship Weight lbs	LIST PRICE AT DEALER

FEATURE PACKAGES (CONT.)

WORKING LIGHTS PACKAGES

CANNOT MIX HALOGEN AND LED LIGHT PACKAGES

L	353-2894	**LIGHTS, WORKING, BASIC,HALOGEN**	19	$770
		INCLUDES: - Lights, work, heel 3X3 - Lights, work, midframe toe 3X3 - Switch, work lighting CANNOT BE USED WITH: SNOW ARRANGEMENT		
L	353-2895	**LIGHTS, WORKING, PLUS, HALOGEN**	19	$1,035
		INCLUDES: - Lights, halogen, ripper 3X3 - Lights, halogen, work, heel 3X3 - Lights, halogen, work, midframe toe 3X3 - Switch, work lighting CANNOT BE USED WITH: ANY LED LIGHTING OPTION REQUIRED BY: Snow Arrangement		
L	551-4433	**LIGHTS, WORKING, PLUS, LED**	0	$2,590
		INCLUDES: - Lights, LED, ripper 3X3 - Lights, LED, work, heel 3X3 - Lights, LED, work, midframe toe 3X3 - Switch, work lighting CANNOT BE USED WITH: ANY LED LIGHTING OPTION REQUIRED BY: Snow Arrangement		

OTHER OPTIONAL ATTACHMENTS

L	338-1132	**LIGHT, LED WARNING STROBE**	5	$605 NI
		Amber high-speed strobe beacon. REQUIRES: MOUNTING, WARNING LIGHT		
L	361-3137	**MOUNTING, WARNING LIGHT**	10	$725
		Provides the bracket for warning beacon light INCLUDED IN: SNOW ARRANGEMENT		
L	248-6925	**TRANSMISSION, AUTOSHIFT**	5	$3,205
		Improves ease of operation and maximizes productivity by automatically shifting the transmission at optimal shift points. INCLUDED IN: SNOW ARRANGEMENT		

ELECTRICAL

FRONT HEADLIGHTS

L	308-9370	**HEADLIGHTS,FRONT, LOW, HALOGEN**	0	$640
		Provides low bar HALOGEN headlights with front turn signals. CANNOT BE USED WITH: SNOW ARRANGEMENT ANY LED LIGHTING OPTION REQUIRED BY: ARM, FOLD DOWN		

USE	REF NO.	INFORMATION	Ship Weight lbs	LIST PRICE AT DEALER

ELECTRICAL (CONT.)

FRONT HEADLIGHTS (Cont.)

L	553-2588	**HEADLIGHTS, FRONT, LOW, LED**	0	$1,365
		Provides low bar LED headlights with front turn signals. CANNOT BE USED WITH: SNOW ARRANGEMENT ANY HALOGEN LIGHTING OPTION REQUIRED BY: LIGHTS,ARM, FOLD DOWN		
L	308-9371	**HEADLIGHTS,FRONT, HIGH,HALOGEN**	0	$640
		Provides HIGH bar headlights with front turn signals. CANNOT BE USED WITH: ANY LED LIGHTING OPTION REQUIRED BY: LIGHTS, ARM, FOLD DOWN SNOW ARRANGEMENT		
L	553-2589	**HEADLIGHTS, FRONT, HIGH, LED**	0	$1,365
		Provides high bar LED headlights with front turn signals. CANNOT BE USED WITH: ANY HALOGEN LIGHTING OPTION REQUIRED BY: LIGHTS,ARM, FOLD DOWN SNOW ARRANGEMENT		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

OPERATOR ENVIRONMENT

CAMERA

L	391-2914	**CAMERA,REAR VISION**	15	$2,535
		Provides a 115 degree color camera mounted on the rear of the hood that is connected to a 7 inch (178mm) LCD color display mounted in the cab which shows the view behind the machine.		
L	536-6330	**CAMERA, REAR VISION W/MIRRORS**	0	$3,060
		Provides increased visibility surrounding the machine. Proides a rear vision camera and round convex mirrors that are mounted on outside mirror brackets. Camera and mirrors - ISO 5006:2006 Compliant REQUIRES: One of the options listed below: 233-3295 MIRRORS, OUTSIDE MOUNTED 344-0984 MIRRORS, OUTSIDE HEATED 24V CANNOT BE USED WITH: 391-2914 CAMERA, REAR VISION NOTE: The mirrors are wrapped in bubble wrap and rotated toward the door for protection during shipment.		

MIRRORS

L	233-3295	**MIRRORS, OUTSIDE MOUNTED**	32	$495
		Provides two convex mirrors for outside mounting on the left and right cab grab irons. NOTE: The mirrors are wrapped in bubble wrap and rotated toward the doors for protection during shipment.		
L	344-0984	**MIRRORS, OUTSIDE HEATED 24V**	33	$670
		Provides mirrors with a 24V heating element to keep mirrors ice free in cold weather operations. NOTE: The mirrors are wrapped in bubble wrap and rotated toward the doors for protection during shipment.		

TECHNOLOGY PRODUCTS

L	238-8827	**SECURITY SYSTEM, MACHINE**	10	$720
		FOR USE IN LANE 3 ONLY Provides a programmable system to manage access to the machine using special MSS keys. Deters theft, vandalism, and unauthorized use. Programmable features allow the following: * limits operators to selected machines * controls the days and hours equipment may be started * controls access by untrained operators or personnel		
L	458-2072	**STABLE BLADE**	3	$2,470
		Provides sensor and software to automatically reduce engine speed in various applications to reduce machine bounce and scalloping of surface.		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER
		GUARDS		
		GUARDS		
L	367-6905	**GUARD, AXLE HOSE**	15	$1,075
		FOR USE IN LANE 3 ONLY Provides additional protection to the front axle cylinders, lines, and fittings. NOTE: NOT recommended for use with tire chains		
L	366-2462	**GUARD, TRANSMISSION**	293	$3,400
		Provides a steel guard to protect the transmission from ground debris. REQUIRED BY: GUARD, TRANSMISSION SIDES/SOUND		
L	366-6006	**GUARD,TRANSMISSION SIDES/SOUND**	167	$2,290
		FOR USE IN LANE 3 ONLY Provides two metallic side panels on either side of transmission guard, enclosing the rear of the machine. This option prevents debris from accumulating on top of the transmission guard and also suppresses sound to meet EU sound regulations. REQUIRES: GUARD, TRANSMISSION		
L	307-1477	**SOUND SUPPRESSION, ENGINE ENCL**	32	$1,540
		FOR USE IN LANE 3 ONLY Supression panels in engine enclosure doors.		
L	246-6027	**FENDERS, REAR**	360	$5,400
		FOR USE IN LANE 3 ONLY Provides non-metallic rear fenders to aid in reducing the build-up of mud, snow, or debris. Rear fenders are compatible with all MG tire sizes offered by the factory. ** NOT RECOMMENDED FOR USE WITH TIRE CHAINS.		
L	308-7368	**FENDERS, FRONT, NON-AWD**	124	$4,130
		FOR USE IN LANE 3 ONLY Non-metallic front fenders aid in reducing the build-up of mud, snow, or debris. Front fenders are compatible with all Non-AWD tire sizes offered by the factory. ** NOT RECOMMENDED FOR USE WITH TIRE CHAINS. CANNOT BE USED WITH: MID MOUNT SCARIFIER PACKAGE CANNOT BE USED WITH: AXLE HOSE GUARD		
L	324-5396	**GUARD, DEBRIS**	20	$1,160
		FOR USE IN LANE 3 ONLY Provides a additional cooling with debris guard on underside of rear engine enclosure. REQUIRED BY: Ether Starting Aid		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

OTHER ATTACHMENTS

ENGINE COOLANT HEATERS

L	255-1336	**HEATER, ENGINE COOLANT, 120V**	1	$230
		Engine coolant heater for 120 volt external power source. REQUIRED BY: SNOW ARRANGEMENT		

STARTING AIDS

L	324-5338	**STARTING, ETHER**	1	$495
		FOR USE IN LANE 3 ONLY REQUIRES: GUARD, DEBRIS REQUIRED BY: WEATHER, COLD REQUIRED BY: WEATHER, COLD PLUS		
L	373-8181	**STARTING AID - ETHER**	1	$495
		NOT FOR USE WITH: GUARD, DEBRIS REQUIRED BY: WEATHER, COLD REQUIRED BY: WEATHER, COLD PLUS		

WORK TOOLS

MOUNTS

L	359-3914	**MOUNT, MID-MOUNT SCARIFIER**	131	$1,410
		Brackets welded to front frame for future installation of midmount scarifier. NOTE: this is the mounting only and does not include the scarifier. There is a contact point with the mid-mount scarifier and the A Frame in extreme positions. REQUIRES: Hydraulics with a mid-scarifier function NOTE: If you intend to purchase the mid-mounted scarifier, please note that the actual scarifier cannot be attached to the machine at same time as the LIFT GROUP, MANUAL, FRONT CANNOT BE USED WITH: MID MOUNT SCARIFIER PACKAGE		
L	359-3925	**LIFT GROUP, FRONT MOUNTING**	10	$442
		Two mounting plates welded to both sides of the front frame for factory or future installation of Front Lift. REQUIRED BY: Lift Group, Manual, Front		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER
		GROUND ENGAGING TOOLS		
		GROUND ENGAGING TOOLS		
P	8J-1434	**TOOTH, STRAIGHT**	67	$805
		Ripper tooth group for rear ripper. Includes one straight shank with ripper tooth. Recommended order quantity of 2 ONLY FOR USE WITH: RIPPER/SCARIFIER		
P	4K-3330	**SHANKS/TEETH, RIPPER/SCARIFIER**	152	$1,404
		Nine shanks for ripper and scarifier combination. Utilizes the scarifier shank positions on a ripper and scarifier combination. Will work with a midmount scarifier ONLY FOR USE WITH: RIPPER/SCARIFIER		
		PACKING		
		MACHINE PACKING (Must Select One)		
	0P-0251	**DOMESTIC TRUCK**	0	NC
		ATTACHMENT PACKING		
	0P-0097	**BUNDLED,RIPPER,PARTIAL INSTALL**	0	$358 NET
		Ripper hydraulic lines and rear mounting plate are installed, but the not-installed ripper is bundled for shipment overseas. FOR USE WITH: Installed Ripper NOT FOR USE BY: NACD Dealers CANNOT BE USED WITH: EU Arrangement		
	0P-8011	**BUNDLED FENDERS**	0	$458 NET
		Required when ordering fenders with rims only.		
	0P-0210	**PACK, DOMESTIC TRUCK**	0	NC
		Use for miscellaneous material orders.		
	0P-1935	**BUNDLED FRONT LIFT GROUP**	0	$1,175
		Required when ordering the NI Lift Group,Manual,Front		

120M2 AWD MOTOR GRADER
PIRACICABA, BRAZIL

	Ship Weight lbs	LIST PRICE AT DEALER

Standard Equipment:

POWERTRAIN

Air cleaner,dual stage dry type radial seal with service indicator through messenger and automatic dust ejector
Air-to-air after cooler (ATAAC)
Brakes, oil disc, four-wheel, hydraulic
Demand fan, hydraulic
Differential, lock/unlock, AUTO
Drain, engine oil, ecology
Engine:
-C7.1 with ACERT technology, diesel, with automatic engine derate and idle control
-Meets U.S. EPA Tier 4 and
-EU Stage IIIb emission standards
-Fuel-water separator
Parking brake, multi-disc, sealed and Oil cooled
Priming pump, fuel
Transmission, 8 speed forward and 6 speed reverse, power shift, direct drive
VHP+ (Variable Horsepower Plus)
EIS (Engine Idle Shutdown)

ELECTRICAL

Alarm, back-up
Alternator, 150 ampere, sealed
Batteries, maintenance free, heavy duty, 1125 CCA
Electrical system, 24V
Grade control ready:
-Cab harness
-Software
-Bosses
-Brackets
-Electrical hydrualic valves
Lights, reversing
Lights, roading, roof-mounted
Lights, stop and tail, LED
Product Link ready
Starter, electric

OPERATOR ENVIRONMENT

Air conditioning with heater
Display, digital speed and gear
Gauge, machine level
Gauges (analog) inside the cab:
-Fuel
-Articulation
-Engine coolant temp
-Engine RPM
-Hydraulic oil temp
-Regeneration
Joystick, adjustable armrests
Joystick gear selection
Joystick hydraulic controls:
-Right/left blade lift w/float position
-Front wheel lean and articulation
-Blade sideshift and tip -circle drive
-Centershift
-Steering
Joystick hydraulic power steering
Ladders, cab, left and right side
Messenger operator information system
Meter, hour, digital
Mirror, inside rearview, wide angle
ROPS cab, sound suppressed 70dB(A)
ISO 6394
Seat,cloth-covered, comfort Suspension
Seat belt, retractable 76.2 (3")
Storage area for cooler/lunchbox
Throttle control, electronic
Windows laminated glass:
-Fixed front with intermittent wiper
-Side and rear (3)
Cab storage

TIRES, RIMS, AND WHEELS

A partial allowance for tires on 254mm x 609.6mm (10" x 24") multi-piece rims is included in the base machine price and weight.

FLUIDS

Antifreeze
Extended life coolant to -35C/-30F

OTHER STANDARD EQUIPMENT

Accumulators, brake, dual certified
CD ROM parts book
Clutch, circle drive slip
Cutting edges, 152mm x 16mm (6" x 5/8") curved DH-2 steel, 19mm mounting bolts (3/4")
Doors, 4, engine compartment, (two left hand, two right hand,) locking
Drawbar, 4 shoe with replaceable wear strips
Endbits, 16mm (5/8") DH-2 steel, 19mm (3/4") mounting bolts
Fuel tank, 100 gallon (378 L)
Ground level engine shutdown
Hammer (emergency exit)
Moldboard, 3658mm x 610mm x 22mm (12'x 24" x 7/8")

120M2 AWD MOTOR GRADER
PIRACICABA, BRAZIL

	Ship Weight lbs	LIST PRICE AT DEALER

OTHER STANDARD EQUIPMENT (CONT.)

Pump, hydr, high capacity (98cc/6cu in)
Radiator, cleanout access (both sides with swing doors)
Secondary steering
SOS ports, engine, hydraulic transmission, coolant, fuel

120M2 AWD MOTOR GRADER PIRACICABA, BRAZIL	Ship Weight lbs	LIST PRICE AT DEALER

Lane 2 is reserved for the Base Order Management program.
Please use Lane 2 when placing orders that are part of the Base Order Management program.

120M2 AWD MOTOR GRADER PIRACICABA, BRAZIL		Ship Weight lbs	LIST PRICE AT DEALER
353-2917	**120M2 AWD MOTOR GRADER** . . . . . . LANE 2 - AVAILABLE FROM PIRACICABA FACTORY LANE 3 - AVAILABLE FROM PIRACICABA FACTORY	37,622	**$366,250**
0P-6438	**120M2 AWD MISC MATL** . . . . . . AVAILABLE FROM PIRACICABA FACTORY	0	**NC**

Only reference numbers that have the text
"ALSO AVAILABLE ON A MISCELLANEOUS ORDER" can be used on a MISC order.

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

LANE SELECTION

	0P-9002	**LANE 2 ORDER**	0	NC
		Only for dealers enrolled in the Base Orders Management (BOM) program.		
	0P-9003	**LANE 3 ORDER**	0	NC

REGIONAL PACKAGES

L	353-2886	**GLOBAL ARRANGEMENT**	0	NC
		Provides standard brake accumulators. For use in temperatures above -18C.		
		CANNOT BE USED WITH: Canadian Dealers WEATHER, COLD PLUS		
L	379-0129	**GLOBAL ARRANGEMENT,LOW AMBIENT**	5	NC
		Provides brake accumulators for low ambient temperatures below -18C		
		CANNOT BE USED WITH: Canadian Dealers or EU Dealers WEATHER, STANDARD		

PERFORMANCE PACKAGES

L	349-3046	**MOLDBOARD, 12′**	0	NC
		INCLUDES: - Moldboard 12’ x 24" x 7/8" (3658mm x 610mm x 22mm) - Curved Cutting Edge, 6" X 5/8" (152mm x 16mm) - End Bits, Standard, Without Overlay		
L	349-3047	**MOLDBOARD, 14′ BASIC**	347	$1,140
		INCLUDES: - Moldboard 14’ x 24" x 7/8" (4267mm x 610mm x 22mm) - Curved Cutting Edge, 8" x 3/4" (203mm x 19mm) - End Bits, Standard, Without Overlay		
L	349-3048	**MOLDBOARD, 14′ PLUS**	650	$2,710
		INCLUDES: - Moldboard 14’ x 27" x 1" (4267mm x 686mm x 25mm) - Curved Cutting Edge, 8" x 3/4" (203mm x 19mm) - End Bits, Standard, With Overlay		

WORK TOOLS

L	393-4882	**NO HITCH**	0	NC
L	337-7510	**HITCH, TOWING**	0	$540

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

PERFORMANCE PACKAGES (CONT.)

WORK TOOLS (Cont.)

L	332-2305	**RIPPER/SCARIFIER**	1,350 0	**$19,660** **$19,660 NI**

ALSO AVAILABLE IN A MISCELLANEOUS ORDER
Hydraulic, rear mounted ripper with three straight ripper shanks and teeth. Can accommodate two additional ripper shanks or nine scarifier teeth which must be ordered separately.
REQUIRES: A hydraulics control part number that has a ripper function.
INCLUDES: Ripper Mounting
CANNOT BE USED WITH: COUNTERWEIGHT

DRAWBAR

L	253-4626	**DRAWBAR, 4 SHOE CIRCLE GUIDES**	0	**NC**

Provides four Shoe Circle Guides and wear surface area for the Drawbar/Circle system.

L	265-6730	**DRAWBAR, 6 SHOE CIRCLE GUIDES**	180	**$1,630**

Provides six Shoe Circle Guides and wear surface area for the Drawbar/Circle system.

WEATHER PACKAGES

L	353-3307	**STANDARD WEATHER AWD**	0	**NC**

Recommended for year around use when typical ambient temperature range is 5C (41F) to 43C (110F)
and operating at altitude below 1220 m (4000 feet).
INCLUDES:
- Batteries, Heavy Duty - 1125 CCA
- Oil, Hydraulic, 10W

REQUIRES: STARTING, (BOSCH)
ONLY FOR USE WITH: 353-2886 GLOBAL ARRANGEMENT or
353-2888 TUV ROADING ARRANGEMENT

L	353-3308	**OPTION, COLD WEATHER AWD**	66	**$3,115**

Recommended for year around use when typical ambient temperature range is -10C (14F) to 43C (110F)
and operating at altitude below 1220 m (4000 feet).
INCLUDES:
- Cold Start
- Batteries, Extreme Duty -1400 CCA
- Oil, Hydraulic, 10W

REQUIRES: STARTING, (BOSCH) AND
STARTING, ETHER
ONLY FOR USE WITH: 379-0129 GLOBAL ARRANGEMENT, LOW AMBIENT or
353-2886 GLOBAL ARRANGEMENT or
395-3674 REGIONAL PACKAGE CANADA or
353-2888 TUV ROADING ARRANGEMENT or
526-2562 EUROPEAN ARRANGEMENT

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

PERFORMANCE PACKAGES (CONT.)

WEATHER PACKAGES (Cont.)

L	353-3309	**WEATHER, COLD PLUS**	75	$3,585
		Recommended for year around use when typical ambient temperature range is -40C (-40F) to 40C (104F) and operating at altitude below 1220 m (4000 feet). INCLUDES: - Cold Start - Batteries, Extreme Duty -1400 CCA - Oil, Hydraulic, Cold, 0W REQUIRES: STARTING, ETHER, or STARTING AID, ETHER REQUIRES: HEATER, ENGINE COOLANT, 120V, or HEATER, ENGINE COOLANT, 240V REQUIRES: STARTER, ELECTRIC, HEAVY DUTY REQUIRED BY: SNOW ARRANGEMENT CANNOT BE USED WITH: 353-2886 GLOBAL ARRANGEMENT		

ACCUMULATORS

L	309-0760	**LINES,STANDARD W/O ACCUMULATOR**	5	NC
		Provides hydraulic lines for base functions.		
L	365-2203	**ACCUMULATORS, BLADE LIFT**	170	$4,605
		Provides hydraulic lines for base functions and accumulators for the blade lift. Allows approximately 1-3" of vertical blade travel to reduce impact loads. Nitrogen/oil accumulators activated by electric switch.		

PRECLEANER

L	356-1436	**PRECLEANER.**	0	NC
		Includes dust ejector for medium to heavy dust environments.		
L	356-1437	**PRECLEANER, SY-KLONE**	5	$750
		Recommended for environments with large debris (leaves, chips, large grass, etc.)		

SPECIAL ARRANGEMENTS

INSTALLATION ARRANGEMENT

L	365-2199	**INSTALLATION ARRANGEMENT**	0	NC

POWERTRAIN

ENGINE

L	477-3439	**TIER 4 FINAL AB&T CREDIT USING**	0	NC
		C7.1 Engine with ACERT Technology EPA/ARB Tier 4 Final AB&T Certified Engine Tier 4 Interim credit-using engine		

OIL CHANGE

L	324-5330	**DRAIN, GRAVITY, ENGINE OIL**	0	NC
		Standard engine oil drain		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

POWERTRAIN (CONT.)

OIL CHANGE (Cont.)

L	**501-1160**	**DRAIN, HIGH SPEED, ENGINE OIL** . . . . . High speed engine oil drain. Requires pump at service location to be attached to coupling receiver for high speed flow. HSO drain can also manual/gravity drain.	0	**$286**

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS

NOTE: Optional Control Locations

Caterpillar offers many attachment hydraulic controls to operate work tools. Depending on which hydraulic part number is selected, the operating electro-hydraulic switches may include the auxiliary pod, mini-joystick located on the auxiliary pod, and/or the ripper control pod.

NOTE: Auxiliary controls that can have float

Auxiliary Pod Controls

```
INDEX =  Index Finger (front lift)(float capability)
MID   =  Middle Finger(dozer angle 1)
RING  =  Ring Finger (dozer angle 2)
LITTLE=  Little Finger (float capability)
```

NOTE: Mini-Joystick

```
                Fore/Aft
                    .
                   / \
                    |
               <--------->  Left/Right (float capability)
                    |
                   \ /
                    .
```

NOTE: Ripper Control Pod

```
RH1   =  Front Lift (float capability)
RH2   =  Ripper-Scarifier Control
RHD   =  Ripper Handle Dual Switch (RH1 & RH2)
```

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

NOTE: Common Functions

COMMON FUNCTIONS:

Base = 8 functions: right and left blade lift, circle turn, drawbar center shift, blade side shift, blade tip, front wheel lean, frame articulation.

```
     FL      = Front Lift (moves front work tools up/down)
     DA1     = Dozer Angle 1 (angles front blade left OR right)
     DA2     = Dozer Angle 2 (angles front blade left AND right)
     RIP     = Rear Mounted Ripper (moves ripper up/down)
     MMS     = Mid-Mounted Scarifier
     WM      = Wing Mast
     WT      = Wing Tilt
     Float   = Built-in feature of valve section that opens both the
               work ports to tank.  The external forces (weight of the
                implement) allows free movement of the implement.
      Flow Rate=Provides maximum rate of fluid flow from the specific
                work port.  B/A represents the maximum flow rate in
                Port B/Port A* in LPM (liters per minute).
 *NOTE: Each valve section has two work ports (Port A and Port B).
     Port A:  Used to either raise implement or move implement to the
     right or for clockwise rotation of the implement.
     Port B:  Used to either lower implement or move implement to the
     left or for counter-clockwise rotation of the implement.
```

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

Valve Locations

This illustration shows the factory installed switch location for each function by hydraulic part number.

Part Number	MINI-JOYSTICK Front Aft	MINI-JOYSTICK Left/ Right Float	AUXILIARY POD Index with Float	AUXILIARY POD Mid	AUXILIARY POD Ring	AUXILIARY POD Little	RIPPER POD RHD RH1	RIPPER POD RHD RH2
242-5056								
309-9846								RIPPER
Float:								N
Flow rate:								50/50
309-9849								MID-MOUNT SCARIFIER
Float:								N
Flow Rate:								30/35
309-9847							FR.LIFT	
Float:							Y	
Flow Rate:							47/55	
309-9850							FR.LIFT	RIPPER
Float:							Y	N
Flow rate:							47/55	50/50
370-6673							RIPPER	MID-MOUNT SCARIFIER
Float:							N	N
Flow rate:							30/35	50/50
309-9858	MAST	TILT	FR.LIFT					
Float:	N	N	Y					
Flow rate:	80/80	36/24	47/55					
309-9856			FR.LIFT	DA1				RIPPER
Float:			Y	N				N
Flow rate:			47/55	80/80				50/50
320-6753			FR.LIFT				RIPPER	MID-MOUNT SCARIFIER
Float:			Y				N	N
Flow rate:			47/55				30/35	50/50
325-3006	MAST	TILT	FR.LIFT					RIPPER
Float:	N	Y	Y					N
Flow rate:	80/80	77/77	47/55					50/50
309-9868	MAST	TILT	FR.LIFT					RIPPER
Float:	N	N	Y					N
Flow rate:	80/80	36/24	47/55					50/50

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

HYDRAULIC VALVE LOCATIONS

Part Number	MINI-JOYSTICK Front Aft	MINI-JOYSTICK Left/ Right Float	AUXILIARY POD Index with Float	AUXILIARY POD Mid	AUXILIARY POD Ring	AUXILIARY POD Little	RIPPER POD RH1	RIPPER POD RH2
349-9870	MAST	TILT	FR.LIFT	DA1				RIPPER
Float:	N	N	Y	N				N
Flow rate:	80/80	36/24	47/55	80/80				50/50
309-9872	MAST	TILT	FR.LIFT	DA1				MID-MOUNT SCARIFIER
Float:	N	N	Y	N				N
Flow rate:	80/80	36/24	47/55	80/80				30/35

HYDRAULIC PART NUMBERS

L **242-5056** **HYDRAULICS, BASE** . . . . . 0 **NC**
Base hydraulic system includes machine articulation, wheel lean, left and right blade lift with independent float, drawbar centershift, circle drive, blade sideshift and tip.
CANNOT BE USED WITH: RIPPER-SCARIFIER, REAR
MID MOUNT SCARIFIER PACKAGE
LIFT GROUP, MANUAL, FRONT
FRONT BLADE PACKAGE

L **309-9846** **BASE + 1 (RIP)**. 21 **$2,140**
Ripper function. Includes the Ripper Lines.
REQUIRED BY: RIPPER-SCARIFIER, REAR

L **309-9849** **BASE + 1 (MMS)**. 21 **$2,295**
Mid-Mount Scarifier function. Includes the Mid-Mount Scarifier Lines.
REQUIRED BY: MID MOUNT SCARIFIER PACKAGE

L **309-9847** **BASE + 1 (FL)**. 16 **$1,890**
Front Lift function. Includes the Front Lift Lines.
REQUIRED BY: LIFT GROUP, MANUAL, FRONT
FRONT BLADE PACKAGE

L **309-9850** **BASE + 2 (FL, RIP)** 42 **$4,245**
Ripper and Front Lift functions. Includes the Front Lift Lines and Ripper Lines.
REQUIRED BY:
RIPPER-SCARIFIER, REAR
LIFT GROUP, MANUAL, FRONT
FRONT BLADE PACKAGE

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

HYDRAULIC PART NUMBERS (Cont.)

L	370-6673	**BASE + 2 (MMS, RIP)**	42	$4,085
		FOR USE IN LANE 3 ONLY Ripper and Mid-Mount Scarifier functions. Includes the Mid-Mount Scarifier Lines and Ripper Lines. REQUIRED BY: MID MOUNT SCARIFIER PACKAGE RIPPER-SCARIFIER, REAR		
L	309-9858	**BASE + 3 (FL&WM&WT)**	48	$6,340
		FOR USE IN LANE 3 ONLY Front Lift, Snow Wing Mast, and Snow Wing Tilt (38/26 - No Float) functions. Includes the Front Lift Lines. REQUIRED BY: MOUNT, SNOW WING, FRAME READY LIFT GROUP, MANUAL, FRONT FRONT BLADE PACKAGE		
L	309-9856	**BASE + 3 (R&FL&DA)**	53	$7,400
		FOR USE IN LANE 3 ONLY Ripper, Front Lift and Angle functions. Includes the Front Lift Lines Dozer Angle 1 Lines, and Ripper Lines. REQUIRED BY: RIPPER-SCARIFIER, REAR LIFT GROUP, MANUAL, FRONT FRONT BLADE PACKAGE		
L	320-6753	**BASE + 3 (FL, RIP, MMS)**	90	$7,150
		FOR USE IN LANE 3 ONLY Front Lift, Ripper and Mid-Mount Scarifier functions. Includes the Front Lift Lines, Ripper Lines and Mid-Mount Scarifier Lines. REQUIRED BY: LIFT GROUP, MANUAL, FRONT MID MOUNT SCARIFIER PACKAGE RIPPER-SCARIFIER, REAR FRONT BLADE PACKAGE		
L	325-3006	**BASE + 4 (WM,WT,FL,RIP)**	85	$8,860
		Ripper, Front Lift, Snow Wing Mast and Snow Wing Tilt (77/77 with Float) functions. Includes the Front Lift Lines and Ripper Lines. REQUIRED BY: MOUNT, SNOW WING, FRAME READY LIFT GROUP, MANUAL, FRONT RIPPER-SCARIFIER, REAR FRONT BLADE PACKAGE		
L	309-9868	**BASE + 4 (WM,WT,FL,RIP) NOFLT**	85	$8,860
		FOR USE IN LANE 3 ONLY Ripper, Front Lift, Snow Wing Mast and Snow Wing Tilt (36/24 - No float) functions. Includes the Front Lift Lines and Ripper Lines. REQUIRED BY: MOUNT, SNOW WING, FRAME READY LIFT GROUP, MANUAL, FRONT RIPPER-SCARIFIER, REAR FRONT BLADE PACKAGE		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

HYDRAULIC PART NUMBERS (Cont.)

L	309-9870	**BASE + 5 (WM,WT,DA1,FL,RIP)**	64	$9,680
		Ripper, Dozer Angle 1, Front Lift, Snow Wing Mast and Snow Wing Tilt (36/24 - No Float) functions. Includes the Front Lift Lines, Angle 1 Lines, and Ripper Lines. REQUIRED BY: MOUNT, SNOW WING, FRAME READY LIFT GROUP, MANUAL, FRONT RIPPER-SCARIFIER, REAR FRONT BLADE PACKAGE		

HYDRAULICS LANE 3 ONLY

L	309-9872	**BASE + 5 (WM,WT,DA1,FL,MMS)**	100	$10,660
		FOR USE WITH: Lane 3 only. Mid-Mount Scarifier, Dozer Angle 1, Front Lift, Snow Wing Mast and Snow Wing Tilt (36/24 - No Float) functions. Includes the Front Lift Lines, Dozer Angle 1 Lines and Mid-Mount Scarifier Lines. REQUIRED BY: MOUNT, SNOW WING, FRAME READY LIFT GROUP, MANUAL, FRONT FRONT BLADE PACKAGE MID MOUNT SCARIFIER PACKAGE		

ELECTRICAL

BRAKE LIGHTS

L	331-6793	**LIGHTS, BRAKE AND BACK-UP**	0	NC
		FOR USE IN LANE 3 ONLY Provides stationary rear brake lights along with the back-up lights. Does not include front headlights or turn signals CANNOT BE USED WITH: 393-1562 SNOW ARRANGEMENT 353-2888 TUV ROADING ARRANGEMENT 526-2562 EUROPEAN ARRANGEMENT ANY HEADLIGHTS OPTION		
L	560-9017	**LIGHTS, ARM, FOLD DOWN**	0	$1,880
		Provides stationary rear brake lights along with the back-up lights, dimmer switch for road lighting, drop-down stop, tail, and rear turn signals and back-up lights. REQUIRES: FRONT HEADLIGHTS (High/Low)/(Halogen/LED) INCLUDED IN: 393-1562 SNOW ARRANGEMENT		

HEADLIGHTS

L	553-2588	**HEADLIGHTS, FRONT, LOW, LED**	0	$1,365
		FOR USE IN LANE 3 ONLY Provides low bar LED headlights with front turn signals. CANNOT BE USED WITH: SNOW ARRANGEMENT ANY HALOGEN LIGHTING OPTION REQUIRED BY: LIGHTS,ARM, FOLD DOWN		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

ELECTRICAL (CONT.)

HEADLIGHTS (Cont.)

L	553-2589	**HEADLIGHTS, FRONT, HIGH, LED**	0	$1,365
		FOR USE IN LANE 3 ONLY Provides high bar LED headlights with front turn signals. CANNOT BE USED WITH: ANY HALOGEN LIGHTING OPTION REQUIRED BY: LIGHTS,ARM, FOLD DOWN SNOW ARRANGEMENT		
L	308-9370	**HEADLIGHTS,FRONT, LOW, HALOGEN**	0	$640
		Provides low bar headlights with front turn signals. REQUIRES: LIGHTS,ARM, FOLD DOWN CANNOT BE USED WITH: ANY LED LIGHTING OPTION		
L	308-9371	**HEADLIGHTS,FRONT, HIGH,HALOGEN**	0	$640
		Provides HIGH bar headlights with front turn signals. CANNOT BE USED WITH: ANY LED LIGHTING OPTION REQUIRED BY: LIGHTS, ARM, FOLD DOWN SNOW ARRANGEMENT		

ROADING LIGHTS

L	421-7810	**LIGHTS, ROADING, HALOGEN**	0	NC
		Provides six halogen cab roof mounted roading lights.		
L	550-6608	**LIGHTS, ROADING, LED**	0	$1,245
		FOR USE IN LANE 3 ONLY Provides six LED cab roof mounted roading lights.		

STARTER ARRANGEMENT

L	419-3254	**STARTING, (BOSCH)**	0	NC
		Utilizes gear reduction technology providing improved reliability Provides a 710 Amp. Starter		
L	325-6335	**STARTING, (50 MT)**	21	$405
		Provides 1000 AMP starter Recommended for Cold weather applications REQUIRED BY: EUROPEAN ARRANGEMENT		

OPERATOR ENVIRONMENT

L	390-6788	**CAB, BASE**	0	NC
		INCLUDES: - Seat, mechanical suspension, cloth - 150 amp alternator - Standard Glass CANNOT BE USED WITH: SNOW ARRANGEMENT		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

OPERATOR ENVIRONMENT (CONT.)

L	390-6789	**CAB, PLUS**	20	$2,460
		INCLUDES: - Seat, air suspension, cloth - 150 amp alternator - Wiper/washer, rear - Fan, defroster, rear window - Standard Glass REQUIRED BY : EU ARRANGEMENT & EU ARRANGEMENT W/ ROADING AND SNOW ARRANGEMENT		
L	390-6796	**CAB, PLUS, ANTI-ICING GLASS**	50	$7,770
		FOR USE IN LANE 3 ONLY INCLUDES: - Seat, air suspension, cloth - 280 amp alternator - Wiper/washer, rear - Fan, defroster, rear window - Front and RH doors are heated glass. REQUIRED BY : EU ARRANGEMENT & EU ARRANGEMENT W/ ROADING AND SNOW ARRANGEMENT		

TECHNOLOGY PRODUCTS

PRODUCT LINK

Product Link enables the remote transmission of information about the location, operation, and condition of your equipment. Efficiently and effectively monitor performance of your assets to help keep your jobs on schedule, maintain equipment condition, and reduce the costs of owning and operating your fleet.

Availability varies by country, please contact your Cat marketing representative with questions or click on the link below:
HTTPS://DEALER.CAT.COM/en/bt/otd/machine-price-list.html
From there click on the 'PRODUCT LINK Hardware Certification" link.

L	464-6805	**PRODUCT LINK, SATELLITE PLE631**	29	$432
		Satellite Product Link uses a satellite network for transmission of asset information including location, utilization and condition. For use in areas with poor or no cellular coverage.		
L	464-6443	**PRODUCT LINK, CELLULAR PLE641**	29	NC
		Product Link Elite series PLE641 offers expanded coverage including 3G UMTS and CDMA2000 as well as 2G GSM and CDMA cellularnetworks to transmit location, utilization and condition information for viewing in Product Link-s remote monitoring web interface. Cellular technology provides capabilities for frequent transmission and larger volumes of data.		

ACCUGRADE

L	362-5222	**NO ACCUGRADE**.	0	NC
		REQUIRES: JOYSTICK CONTROLS, BASIC		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

TECHNOLOGY PRODUCTS (CONT.)

ACCUGRADE (Cont.)

L	462-6390	**INSTALLATION, ACCUGRADE READY**	32	$4,830
		Allows the Motor Grader to be equipped with either a Cross Slope, Sonic, Laser, GPS, or ATS electronics kit. Provides software, harnesses for sensors, mounting for sensors and blade mast bracket.		
L	462-6391	**GRADE CONTROL X SLOPE**	165	$11,060
		Available for new orders only. Allows the operator to manually control one end of the blade to match the curb or crown while automatically maintaining the desired slope of the blade. This system is used to maintain the crown of a gravel road or the shoulder of a road. Provides cab switches, software, harnesses for sensors, mounting for sensors and blade mast bracket. Accugrade Ready is included in this option REQUIRES: JOYSTICK CONTROLS, ADVANCED		

MOTOR GRADER CONTROLS

L	357-9151	**JOYSTICK CONTROLS, BASIC**	6	NC
		Standard joystick controls. REQUIRED BY: NO ACCUGRADE		
L	458-8701	**JOYSTICK CONTROLS, ADVANCED**	8	$2,030
		Provides enhanced functionality while using ACCUGRADE READY or GRADE CONTROL X SLOPE INCLUDES: - Advanced Joysticks - Harness - Films REQUIRED BY: GRADE CONTROL X SLOPE. RECOMMENDED FOR USE WITH: ACCUGRADE READY		

TIRES, RIMS, AND WHEELS

Tires listed below include a set of six tires.

****To calculate tire loads with machine attachments, please reference the MG Tire Selection Pocket Guide (media #AEXQ0182), available on the Electronic Sales Library.
All tire selections should be made with consideration for planned machine attachments (OEM and aftermarket) and their additional weight. Each tire has a maximum load rating that is not to be exceeded. The tire selection should be based on the maximum of all tire position loads on the machine. Assistance for calculating the highest tire load can be found in the Tire Load Worksheet in the back of the Caterpillar Motor Graders Tire Selection Pocket Guide. Failure to abide by the load ratings of the tires without first consulting the local tire supplier representative could result in nullification of the tire warranty.**

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

TIRES, RIMS, AND WHEELS (CONT.)

Due to industry-wide tire availability limitations, tire brand and type cannot be guaranteed. Every effort will be made to satisfy your tire choice, but we reserve the right to change to alternate tires. If the tire brand cannot be supplied, we may contact the dealer. However, in some cases, we will change to an alternative premium brand tire without notice. If the tire type cannot be supplied, we will contact the dealer to propose alternatives. The dealer needs to choose between an alternative tire or a "rims only" option (where available) within 72 hours. If no response is provided by the deadline, the order will default to the alternative tire and will be changed at that point. As a consequence of a possible tire change, the total machine price will be decreased or increased depending on the price of the new tire.

The information provided can be used to make a tire selection based on the particular conditions at the site. When available, the tire manufacturer should be consulted regarding proper tire selection.

Goodyear

L	310-7327	**TIRES, GY17.5R25* COMBO MP**	1,200	**$20,290**
		Goodyear RL2+ 6S on 14" x 25" multi-piece rims THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		

Michelin

L	252-0779	**TIRES,17.5R25 MX XSNO+ * G2 MP.**	903	**$20,490**
		Michelin XSNO+ 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	252-0681	**TIRES,14.0R24 MX XGLA2 * G2 MP**	1,048	**$10,860**
		FOR USE IN LANE 3 ONLY Michelin XGLA2 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (7824 lbs) 3550 kg.**		
L	252-0773	**TIRES, 17.5R25 MX XTLA * L2 MP**	268	**$16,110**
		FOR USE IN LANE 2 ONLY Michelin XTLA 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		

Firestone

L	252-0733	**TIRES, 17.5-25 FS SGG 12PR MP**	816	**$16,110**
		FOR USE IN LANE 3 ONLY Firestone SGG 12PR Bias (L-2) on 14" x 25" multi piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (6392 lbs) 2900 kg.**		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

TIRES, RIMS, AND WHEELS (CONT.)

Bridgestone

L	252-0722	**TIRES, 14.0R24 BS VUT * L2 MP**	991	$7,250
		Bridgestone VUT 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	249-7841	**TIRES, 17.5R25 BS VKT * D2A MP**	1,620	$13,440
		Bridgestone VKT 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	310-7332	**TIRES, 17.5R25 BS VSW * G2 MP**	1,698	$18,590
		FOR USE WITH LANE 3 ONLY Bridgestone VSW 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	252-0716	**TIRES, 14.0R24 BS VKT * G2 MP**	1,519	$6,970
		FOR USE WITH LANE 3 ONLY Bridgestone VKT 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		

SHIPPING TIRES

L	440-3434	**TIRES, 17.5 SHIPPING, AWD, MP**	83	$2,250
		FOR USE WITH LANE 3 ONLY Shipping tire for use during shipment of machine only. Solid rubber band mounted on 14" x 25" multi-piece rims. Must be replaced with pneumatic tire before delivering to customer		
L	448-5584	**TIRES, 14.0 SHIPPING, AWD, MP**	69	$2,000
		FOR USE WITH LANE 3 ONLY Shipping tire for use during shipment of machine only. Solid rubber band mounted on 10" x 24" multi-piece rims. Must be replaced with pneumatic tire before delivering to customer.		

OTHER ATTACHMENTS

L	351-5178	**FRONT BLADE PACKAGE**	2,612	$11,510
		INCLUDES: - Front Blade (Lift & Lower only) - Lines for Front Blade REQUIRES: A hydraulics control part number that has a Front Lift function. CANNOT BE USED WITH: MID MOUNT SCARIFIER PACKAGE		
L	367-6880	**COUNTERWEIGHT**	885	$3,200
		Front mounted.Mandatory when machine is not equipped with front or rear mounted work tool attachments NOTE:This cannot be used in conjunction with push plate, front lift work tools,or the 'installed' hydraulic front lift. It can be used with a not installed hydraulic front lift CANNOT BE USED WITH: RIPPER-SCARIFIER, REAR		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

OTHER ATTACHMENTS (CONT.)

L	367-6842	**PUSH PLATE, COUNTERWEIGHT**	2,822	**$5,640**
		Front mounted. Required when machine is equipped with rear ripper/scarifier and other rear mounted attachments. NOTE: This cannot be used in conjunction with counterweight, any front lift work tools,or the 'installed' hydraulic front lift. It can be used with a not installed hydraulic front lift (312-2204) FOR USE WITH: RIPPER-SCARIFIER, REAR		
L	312-2204	**LIFT GROUP, MANUAL, FRONT**	1,500 1,500	**$11,030** **$11,030 NI**
		Front hydraulic lift without any work tool attached. REQUIRES: MOUNTING, FRONT LIFT - Hydraulics control part number that has front lift function REQUIRED BY: Front Scarifiers NOTE: A Not-Installed Manual Lift Group can be ordered with an INSTALLED Push Plate/Counterweight. The not-installed lift group will be skidded, banded and shipped with the unit.		
		CANNOT BE USED WITH: The Installed Manual Lift Group cannot be used with the MID MOUNT SCARIFIER PACKAGE		
		(The Installed Manual Lift attached to the machine at the sametime as as the mounting for the mid-mount scarifier, but not the actual scarifier itself).		

FLUIDS

COOLANT ANTIFREEZE

447-0898	**COOLANT, 50/50, -35C (-31F)**	0	**NC**
	Standard engine coolant		
447-0899	**COOLANT, 60/40, -51C (-60F)**	0	**$245 NET**
	Engine coolant recommended for extreme low temperatures		

CAB ANTIFREEZE

0P-1939	**ANTIFREEZE WINDSHIELD WASHER**	0	**NC**
	For use with machines with cab.		

FUEL ANTIFREEZE

0P-3978	**FUEL ANTIFREEZE, -25C (-13F)**	0	**NC**
	Provides fuel (diesel) antifreeze protection down to -25C (-13F)		

INSTRUCTIONS

SERVICE INSTRUCTIONS

LANGUAGES FOR DECAL PACKAGES, MESSENGER, AND PUBLICATIONS

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

INSTRUCTIONS (CONT.)

SERVICE INSTRUCTIONS (Cont.)

NOTE: This part number will provide the language for Messenger, Operation and Maintenance Manual and films in the language of your selection. The word "WARNING" is on picto decals for ANSI. Symbols only are on picto decals for ISO.

L	**310-0685**	**LANGUAGE, ENGLISH** . . . . . Provides CAT Messenger and OMM in English and decals as required by ANSI.	0	**NC**

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

FEATURE PACKAGES

REGIONAL OPTIONAL PACKAGES

L	393-1562	**SNOW ARRANGEMENT**	364	$6,440

FOR USE IN LANE 3 ONLY
INCLUDES:
- LIGHTS, ARM, FOLD DOWN
- MOUNTING, WARNING LIGHT
- TRANSMISSION, AUTOSHIFT

REQUIRES: MOUNT,SNOW WING,FRAME RDY HAL or LED
LIGHTS, WORKING, PLUS, HALOGEN or LED
HEADLIGHTS, FRONT, HIGH, HAL OR LED
HEATER, ENGINE COOLANT, 120V or 240V
STARTER, ELEC, EXTREME DUTY or EXTRM DUTY(TUV)
WEATHER, COLD PLUS
CAB, PLUS (STANDARD GLASS) or (ANTI-ICING GLASS)

WORK TOOL PACKAGE

L	393-1563	**MOUNT,SNOW WING,FRAME RDY HAL**	251	$1,930

INCLUDES:
Snow Wing Mount
Light, Halogen, Snow Wing, Right Hand
REQUIRED BY: SNOW ARRANGEMENT

L	551-6545	**MOUNT,SNOW WING,FRAME RDY LED**	0	$2,340

FOR USE IN LANE 3 ONLY
INCLUDES:
- Snow Wing Mount
- Light, LED Snow Wing, Right Hand

REQUIRED BY: SNOW ARRANGEMENT

L	365-1336	**MID MOUNT SCARIFIER PACKAGE**	2,071	$16,290

INCLUDES:
- Mid-mount scarifier, V Type with 11 Teeth
- Mid-mount scarifier bracket

INCLUDES: MOUNT, MID-MOUNT SCARIFIER
CANNOT BE USED WITH: LIFT GROUP, MANUAL, FRONT (Installed)
CANNOT BE USED WITH: FENDERS, FRONT, NON-AWD
CANNOT BE USED WITH: FRONT BLADE PACKAGE

COMFORT PACKAGE

**Bluetooth radio technology enables the use of a hands free function such as listening to music and making phone calls.
Authorization varies by country, please contact your Cat marketing representative with questions or click on the link below:
https://dealer.cat.com/en/products/technology.html**

L	391-8968	**COMFORT PACKAGE**	19	$1,960

INCLUDES:
- Radio,12V, AM/FM, Weatherband
- Sun Shade, Rear
- Converter, Communication (CB)

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

FEATURE PACKAGES (CONT.)

COMFORT PACKAGE (Cont.)

L	397-5305	**COMFORT PACKAGE 2**	21	$2,495
		INCLUDES: - Radio, 12V, AM/FM CD/MP3 BLUETOOTH, Weatherband - Sun Shade, Rear - Converter, Communication (CB)		

LIGHTING PACKAGES

L	353-2894	**LIGHTS, WORKING, BASIC,HALOGEN**	19	$770
		INCLUDES: - Lights, halogen, heel 3X3 - Lights, halogen, midframe toe 3X3 - Switch, Work lighting		
L	353-2895	**LIGHTS, WORKING, PLUS, HALOGEN**	19	$1,035
		INCLUDES: - Lights, halogen, ripper 3X3 - Lights, halogen, work, heel 3X3 - Lights, halogen, work, midframe toe 3X3 - Switch, work lighting CANNOT BE USED WITH: LIGHTS, ROADING, LED MOUNT,SNOW WING,FRAME RDY LED REQUIRED BY: Snow Arrangement		
L	551-4433	**LIGHTS, WORKING, PLUS, LED**	0	$2,590
		FOR USE IN LANE 3 ONLY INCLUDES: - Lights, LED, ripper 3X3 - Lights, LED, work, heel 3X3 - Lights, LED, work, midframe toe 3X3 - Switch, work lighting CANNOT BE USED WITH: LIGHTS, ROADING, HALOGEN MOUNT,SNOW WING,FRAME RDY HAL REQUIRED BY: Snow Arrangement		

OTHER OPTIONAL ATTACHMENTS

L	338-1132	**LIGHT, LED WARNING STROBE**	5	$565
		Amber high-speed strobe beacon. REQUIRES: MOUNTING, WARNING LIGHT		
L	361-3137	**MOUNTING, WARNING LIGHT**	10	$725
		Provides the bracket for warning beacon light. FOR USE WITH: LIGHT, LED WARNING STROBE INCLUDED IN: SNOW ARRANGEMENT		
L	248-6925	**TRANSMISSION, AUTOSHIFT**	5	$3,205
		Improves ease of operation and maximizes productivity by automatically shifting the transmission at optimal shift points. INCLUDED IN: 393-1562 SNOW ARRANGEMENT REQUIRED BY: 353-2888 TUV ROADING ARRANGEMENT or 526-2562 EUROPEAN ARRANGEMENT		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

OPERATOR ENVIRONMENT

MIRRORS

L	233-3295	**MIRRORS, OUTSIDE MOUNTED** . . . . . Provides two convex mirrors for outside mounting on the left and right cab grab irons. NOTE: the mirrors are wrapped in bubble wrap and rotated toward the doors for protection during shipment. REQUIRED BY: 353-2888 TUV ROADING ARRANGEMENT or 526-2562 EUROPEAN ARRANGEMENT	32	$495
L	344-0984	**MIRRORS, OUTSIDE HEATED 24V** . . . . . Provides mirrors with a 24V heating element to keep mirrors ice free in cold weather operations. NOTE: the mirrors are wrapped in bubble wrap and rotated toward the doors for protection during shipment. REQUIRED BY: 353-2888 TUV ROADING ARRANGEMENT or 526-2562 EUROPEAN ARRANGEMENT	33	$670

CAMERA

L	391-2914	**CAMERA,REAR VISION** . . . . . Provides a 115 degree color camera mounted on the rear of the hood that is connected to a 7 inch (178mm) LCD color display mounted in the cab which shows the view behind the machine. CAN NOT BE USED WITH: EUROPEAN AR. W/ ROADING (TUV) NOTE* EUROPEAN AR. W/ ROADING (TUV) includes front and rear facing cameras REQUIRED BY: 353-2887 EUROPEAN ARRANGEMENT	15	$2,535
L	536-6330	**CAMERA, REAR VISION W/MIRRORS** . . . . . FOR USE IN LANE 3 ONLY Provides increased visibility surrounding the machine. Proides a rear vision camera and round convex mirrors that are mounted on outside mirror brackets. Camera and mirrors - ISO 5006:2006 Compliant ONLY FOR USE WITH: 233-3295 MIRRORS, OUTSIDE MOUNTED OR 344-0984 MIRRORS, OUTSIDE HEATED 24V CANNOT BE USED WITH: 526-2562 EUROPEAN ARRANGEMENT 353-2888 TUV ROADING ARRANGEMENT NOTE: The mirrors are wrapped in bubble wrap and rotated toward the door for protection during shipment.	0	$3,060

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

TECHNOLOGY PRODUCTS

L	238-8827	**SECURITY SYSTEM, MACHINE** . . . . . Provides a programmable system to manage access to the machine using special MSS keys. Deters theft, vandalism, and unauthorized use. Programmable features allow the following: * limits operators to selected machines * controls the days and hours equipment may be started * controls access by untrained operators or personnel * disarms system during regular working hours for standard key usage * allows expiration date on key Includes two preprogrammed keys. The machine will be shipped with the system inactive. Requires Caterpillar Service Tool, Electronic Technician (ET) to activate and modify programming of keys. Additional 206-5162 keys are available through Parts Distribution.	10	$720
L	458-2072	**STABLE BLADE** . . . . . Provides sensor and software to automatically reduce engine speed in various applications to reduce machine bounce and scalloping of surface.	3	$2,470

GUARDS

L	367-6905	**GUARD, AXLE HOSE** . . . . . FOR USE IN LANE 3 ONLY Protects hose along front axle lines and fittings. *NOTE* NOT recommended for use with tire chains	15	$1,075
L	366-2462	**GUARD, TRANSMISSION** . . . . . Provides a steel guard to protect the transmission from ground debris. REQUIRED BY: GUARD, TRANSMISSION SIDES/SOUND INCLUDED IN: EUROPEAN ARRANGEMENT AND TUV ROADING ARRANGEMENT	293	$3,400
L	366-6006	**GUARD,TRANSMISSION SIDES/SOUND** . . . . . Provides two metallic side panels on either side of transmission guard, enclosing the rear of the machine. This option prevents debris from accumulating on top of the transmission guard and also suppresses sound to meet EU sound regulations. REQUIRES: GUARD, TRANSMISSION REQUIRES: GUARD GP, HITCH INCLUDED IN: EUROPEAN ARRANGEMENT AND TUV ROADING ARRANGEMENT	167	$2,290
L	307-1477	**SOUND SUPPRESSION, ENGINE ENCL** . . . . . FOR USE IN LANE 3 ONLY Supression panels in engine enclosure doors. INLCUDED IN: EUROPEAN ARRANGEMENT AND TUV ROADING ARRANGEMENT	32	$1,540
L	246-6027	**FENDERS, REAR** . . . . . FOR USE WITH LANE 3 ONLY Provides non-metallic rear fenders to aid in reducing the build-up of mud, snow, or debris. Rear fenders are compatible with all MG tire sizes offered by the factory. ** NOT RECOMMENDED FOR USE WITH TIRE CHAINS. INCLUDED IN: TUV ROADING ARRANGEMENT	360	$5,400

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER
GUARDS (CONT.)				
L	262-0412	**FENDERS, FRONT, AWD**	124	$3,795
		Non-metallic front fenders aid in reducing the build-up of mud, snow, or debris. Front fenders are compatible with all AWD tire sizes offered by the factory.		
		** NOT RECOMMENDED FOR USE WITH TIRE CHAINS.		
		CANNOT BE USED WITH: MID MOUNT SCARIFIER PACKAGE		
L	324-5396	**GUARD, DEBRIS**	20	$1,160
		FOR USE IN LANE 3 ONLY		
		Provides a additional cooling with debris guard on underside of rear engine enclosure.		
		REQUIRED BY: STARTING, ETHER		
		CANNOT BE USED WITH: STARTING AID - ETHER		
OTHER ATTACHMENTS				
ENGINE COOLANT HEATERS				
L	255-1336	**HEATER, ENGINE COOLANT, 120V**	1	$230
		Engine coolant heater for 120 volt external power source.		
		REQUIRED BY: SNOW ARRANGEMENT		
		REQUIRED BY: WEATHER, COLD PLUS		
STARTING AIDS				
L	324-5338	**STARTING, ETHER**	1	$495
		FOR USE IN LANE 3 ONLY		
		REQUIRED BY: WEATHER, COLD AND WEATHER, COLD PLUS		
		REQUIRES: GUARD, DEBRIS		
L	373-8181	**STARTING AID - ETHER**	1	$495
		REQUIRED BY: WEATHER, COLD		
		REQUIRED BY: WEATHER, COLD PLUS		
		NOT FOR USE WITH: GUARD, DEBRIS		
WORK TOOLS				
WORK TOOLS				
L	359-3914	**MOUNT, MID-MOUNT SCARIFIER**	131	$1,410
		FOR USE IN LANE 3 ONLY		
		Brackets welded to front frame for future installation of midmount scarifier. NOTE: this is the mounting only and does not include the scarifier. There is a contact point with the mid-mount scarifier and the A Frame in extreme positions.		
		REQUIRES: Hydraulics with a mid-scarifier function		
		NOTE: If you intend to purchase the mid-mounted scarifier, please note that the actual scarifier cannot be attached to the machine at same time as the Lift Group, Hydraulic, Front		
		CANNOT BE USED WITH: MID MOUNT SCARIFIER PACKAGE		
L	359-3925	**LIFT GROUP, FRONT MOUNTING**	10	$442
		Two mounting plates welded to both sides of the front frame for factory or future installation of Front Lift.		
		REQUIRED BY: LIFT GROUP, MANUAL, FRONT		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

GROUND ENGAGING TOOLS

P	8J-1434	**TOOTH, STRAIGHT**	67	$805
		Ripper tooth group for rear ripper. Includes one straight shank with ripper tooth.		
		Recommended order quantity of 2		
		FOR USE WITH: RIPPER/SCARIFIER		
P	4K-3330	**SHANKS/TEETH, RIPPER/SCARIFIER**	152	$1,404
		Nine shanks for ripper and scarifier combination. Utilizes the scarifier shank positions on a ripper and scarifier combination.		
		Will work with a midmount scarifier		
		FOR USE WITH: RIPPER/SCARIFIER		

GROUND ENGAGING TOOLS LANE 3 ONLY

NOTE: Blade extensions are not compatible with AccuGrade systems that require mast installation on the moldboard. This is due to interference between the mast mounting bracket and the blade extension mounting hardware. The mast mounting bracket must be removed prior to blade extension installation.

PACKING

EXPORT PACKING

0P-2265	**ROLL ON-ROLL OFF**	0	$304 NET
	(Cab or canopy remains mounted.)		
0P-2962	**SHIPPING TIRE FREIGHT OPTION**	0	NC
	This 0P is required when the machine is ordered with the Shipping Tire		
	This insures the correct trailer is used for shipment preventing		
	This is informational only and there is no additional charge.		
	REQUIRED BY: TIRES, 17.5 SHIPPING, AWD, MP		
0P-6706	**BUNDLE EXPORT PACKING**	0	NC
	This OP should be ordered for miscellaneous orders		

120M2 AWD MOTOR GRADER
LITTLE ROCK, AR, USA (SAP)

Ship Weight lbs | LIST PRICE AT DEALER

Standard Equipment:

POWERTRAIN

Air cleaner,dual stage dry type radial seal with service indicator through messenger and automatic dust ejector
Air-to-air after cooler (ATAAC)
Brakes, oil disc, four-wheel, hydraulic
Demand fan, hydraulic
Differential, lock/unlock,automatic
Drain, engine oil, ecology
Engine:
- C7.1 with ACERT technology, diesel, with automatic engine derate and idle control
-Meets EPA/ARB Flexibility Engine and EU Stage IIIB Flexibility/Certified Engine requirement
Fuel-water separator
Parking brake, multi-disc, sealed and oil cooled
Priming pump, fuel
Transmission, 8 speed forward and 6 speed reverse, power shift, direct drive VHP Plus(Variable Horsepower Plus)

ELECTRICAL

Alarm, back-up
Alternator, 150 ampere, sealed
Batteries, maintenance free, heavy duty, 1125 CCA
Electrical system, 24V
Grade control ready:
-Cab harness
-Bosses
-Software
-Brackets
-Electrical hydrualic valves
Lights, reversing
Lights, roading, roof-mounted
Lights, stop and tail, LED
Product link ready
Starter, electric

OPERATOR ENVIRONMENT

Air conditioning with heater
Display, digital speed and gear
Gauge, machine level
Gauges (analog) inside the cab:
-Fuel
-Articulation
-Engine RPM
-Engine coolant temp
-Hydraulic oil temp
-Regeneration
Joystick, adjustable armrests
Joystick gear selection
Joystick hydraulic controls:
-Right/left blade lift w/float position
-Front wheel lean and articulation
-Blade sideshift and tip -circle drive
-Centershift
-Steering
Joystick hydraulic power steering
Ladders, cab, left and right side
Messenger operator information system
Meter, hour, digital
Mirror, inside rearview, wide angle
ROPS cab, sound suppressed 70dB(A) ISO 6394
Seat,cloth-covered, comfort Suspension
Seat belt, retractable 76.2mm (3")
Throttle control, electronic
Windows laminated glass:
-Fixed front with intermittent wiper
-Side and rear (3)
Cab storage

TIRES, RIMS, AND WHEELS

A partial allowance for tires on 254mm x 609.6mm (10"x24") is included in the base machine price and weight.

FLUIDS

Antifreeze
Extended life coolant to -35C/-30F

OTHER STANDARD EQUIPMENT

Accumulators, brake, dual certified
CD ROM parts book
Clutch, circle drive slip
Cutting edges, 6" x 5/8" (152mm x 16mm) curved DH-2 steel, 19mm mounting bolts (3/4")
Doors, 4, engine compartment, (two left hand, two right hand,) locking
Drawbar, 4 shoe with replaceable wear strips
Endbits, 16mm (5/8") DH-2 steel, 19mm (3/4") mounting bolts
Fuel tank, 378 liters (100 gallon)
Ground level engine shutdown
Hammer (emergency exit)
Moldboard, 3658mm x 610mm x 22mm (12'x 24" x 7/8")
Pump, hydr, high capacity (98cc/6cu in)
Radiator, cleanout access (both sides

120M2 AWD MOTOR GRADER
LITTLE ROCK, AR, USA (SAP)

	Ship Weight lbs	LIST PRICE AT DEALER

OTHER STANDARD EQUIPMENT (CONT.)

with swing doors)
Secondary steering
SOS ports, engine, hydraulic
transmission, coolant, fuel
Tow hitch

120M2 AWD MOTOR GRADER
LITTLE ROCK, AR, USA (SAP)

		Ship Weight lbs	LIST PRICE AT DEALER

Lane 2 is reserved for the Base Order Management Program.
Please use Lane 2 when placing orders that are part of the Base Order Management Program.

353-2917	**120M2 AWD MOTOR GRADER**	37,622	**$366,250**
	LANE 2 - AVAILABLE FROM NORTH LITTLE ROCK FACTORY		
	LANE 3 - AVAILABLE FROM NORTH LITTLE ROCK FACTORY		
0P-1918	**120M2 MISC MATL NLR**	0	**NC**
	AVAILABLE FROM NORTH LITTLE ROCK FACTORY		

Only reference numbers that have the text
"ALSO AVAILABLE ON A MISCELLANOUS ORDER" can be used on a MISC order.

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

LANE SELECTION

	0P-9002	**LANE 2 ORDER**	0	NC
		Only for dealers enrolled in the Base Orders Management (BOM) program.		
	0P-9003	**LANE 3 ORDER**	0	NC

REGIONAL PACKAGES

L	353-2886	**GLOBAL ARRANGEMENT**	0	NC
		Provides standard brake accumulators.For use in temperatures above -18C		
		CANNOT BE USED WITH: WEATHER, COLD PLUS		
L	379-0129	**GLOBAL ARRANGEMENT,LOW AMBIENT**	5	NC
		Provides brake accumulators for low ambient temperatures below -18C		
		CANNOT BE USED WITH: Canadian Dealers or EU Dealers		
		CANNOT BE USED WITH: WEATHER, STANDARD		

PERFORMANCE PACKAGES

L	349-3046	**MOLDBOARD, 12′**	0	NC
		INCLUDES:		
		- Moldboard 12’ x 24" x 7/8" (3658mm x 610mm x 22mm)		
		- Curved Cutting Edge, 6" X 5/8" (152mm x 16mm)		
		- End Bits, Standard, Without Overlay		
L	349-3047	**MOLDBOARD, 14′ BASIC**	347	$1,140
		INCLUDES:		
		- Moldboard 14’ x 24" x 7/8" (4267mm x 610mm x 22mm)		
		- Curved Cutting Edge, 8" x 3/4" (203mm x 19mm)		
		- End Bits, Standard, Without Overlay		
L	349-3048	**MOLDBOARD, 14′ PLUS**	650	$2,710
		INCLUDES:		
		- Moldboard 14’ x 27" x 1" (4267mm x 686mm x 25mm)		
		- Curved Cutting Edge, 8" x 3/4" (203mm x 19mm)		
		- End Bits, Standard, With Overlay		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

PERFORMANCE PACKAGES (CONT.)

WORK TOOLS

L	393-4882	NO HITCH	0	NC
L	337-7510	HITCH, TOWING	0	$540
L	332-2305	RIPPER/SCARIFIER Hydraulic, rear mounted ripper with three straight ripper shanks. Can accommodate two additional ripper shanks or nine scarifier teeth which must be ordered separately. REQUIRES: A hydraulics control part number that has a ripper function. INCLUDES: Ripper Mounting CANNOT BE USED WITH: NO HITCH	1,350	$19,660

DRAWBAR

L	253-4626	DRAWBAR, 4 SHOE CIRCLE GUIDES Provides four Shoe Circle Guides and wear surface area for the Drawbar/Circle system.	0	NC
L	265-6730	DRAWBAR, 6 SHOE CIRCLE GUIDES Provides six Shoe Circle Guides and wear surface area for the Drawbar/Circle system.	180	$1,630

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

PERFORMANCE PACKAGES (CONT.)

WEATHER PACKAGES

L	353-3307	**STANDARD WEATHER AWD**	0	NC
		Recommended for year around use when typical ambient temperature range is 5C (41F) to 43C (110F) and operating at altitude below 1220 m (4000 feet). INCLUDES: - Batteries, Heavy Duty - 1125 CCA - Oil, Hydraulic, 10W FOR USE WITH: GLOBAL ARRANGEMENT		
L	353-3308	**OPTION, COLD WEATHER AWD**	66	$3,115
		Recommended for year around use when typical ambient temperature range is -15C (5F) to 43C (110F) and operating at altitude below 1220 m (4000 feet). INCLUDES: - Cold Start - Batteries, Extreme Duty -1400 CCA - Oil, Hydraulic, 10W FOR USE WITH: GLOBAL ARRANGEMENT, CANADIAN ARRANGEMENT, or GLOBAL ARRANGEMENT,LOW		
L	353-3309	**WEATHER, COLD PLUS**	75	$3,585
		Recommended for year around use when typical ambient temperature range is -15C (5F) to 43C (110F) and operating at altitude below 1220 m (4000 feet). INCLUDES: - Cold Start - Batteries, Extreme Duty -1400 CCA - Artic Oil, Hydraulic, 10W REQUIRES: STARTING, ETHER, or STARTING AID, ETHER REQUIRES: HEATER, ENGINE COOLANT, 120V, or HEATER, ENGINE COOLANT, 240V REQUIRES: STARTER, ELECTRIC, HEAVY DUTY FOR USE WITH: GLOBAL ARRANGEMENT,LOW or CANADIAN ARRANGEMENT REQUIRED BY: SNOW ARRANGEMENT		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

PERFORMANCE PACKAGES (CONT.)

ACCUMULATORS

L	309-0760	**LINES,STANDARD W/O ACCUMULATOR**	5	NC
		Provides hydraulic lines for base functions.		
L	365-2203	**ACCUMULATORS, BLADE LIFT**	170	$4,605
		Provides hydraulic lines for base functions and accumulators for the blade lift. Allows approximately 1-3" of vertical blade travel to reduce impact loads. Nitrogen/oil accumulators activated by electric switch.		

PRECLEANER

L	356-1436	**PRECLEANER.**	0	NC
		Includes dust ejector for medium to heavy dust environments.		
L	356-1437	**PRECLEANER, SY-KLONE**	5	$750
		Recommended for environments with large degris (leaves, chips, large grass, etc.)		

SPECIAL ARRANGEMENTS

INSTALLATION ARRANGEMENT

L	365-2199	**INSTALLATION ARRANGEMENT**	0	NC
		Installation Arrangement for Box Frame		

POWERTRAIN

ENGINE SELECTION

L	477-3439	**TIER 4 FINAL AB&T CREDIT USING**	0	NC
		C7.1 Engine with ACERT Technology EPA/ARB Tier 4 Final AB&T Certified Engine Tier 4 Interim credit-using engine		

OIL CHANGE

L	324-5330	**DRAIN, GRAVITY, ENGINE OIL**	0	NC
		Standard engine oil drain		
L	501-1160	**DRAIN, HIGH SPEED, ENGINE OIL**	0	$286
		High speed engine oil drain. Requires pump at service location to be attached to coupling receiver for high speed flow. HSO drain can also manual/gravity drain.		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS

NOTE: Optional Control Locations

Caterpillar offers many attachment hydraulic controls to operate work tools. Depending on which hydraulic part number is selected, the operating electro-hydraulic switches may include the auxiliary pod, mini-joystick located on the auxiliary pod, and/or the ripper control pod.

NOTE: Auxiliary controls that can have float

Auxiliary Pod Controls

```
INDEX =  Index Finger (front lift)(float capability)
MID   =  Middle Finger(dozer angle 1)
RING  =  Ring Finger (dozer angle 2)
LITTLE=  Little Finger (float capability)
```

NOTE: Mini-Joystick

```
Fore/Aft
    .
   / \
    |
<--------->  Left/Right (float capability)
    |
   \ /
    .
```

NOTE: Ripper Control Pod

```
RH1   =  Front Lift (float capability)
RH2   =  Ripper-Scarifier Control
RHD   =  Ripper Handle Dual Switch (RH1 & RH2)
```

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

NOTE: Common Functions

COMMON FUNCTIONS:

Base = 8 functions: right and left blade lift, circle turn, drawbar center shift, blade side shift, blade tip, front wheel lean, frame articulation.

FL = Front Lift (moves front work tools up/down)
DA1 = Dozer Angle 1 (angles front blade left OR right)
DA2 = Dozer Angle 2 (angles front blade left AND right)
RIP = Rear Mounted Ripper (moves ripper up/down)
MMS = Mid-Mounted Scarifier
WM = Wing Mast
WT = Wing Tilt
Float = Built-in feature of valve section that opens both the work ports to tank. The external forces (weight of the implement) allows free movement of the implement.
Flow Rate=Provides maximum rate of fluid flow from the specific work port. B/A represents the maximum flow rate in Port B/Port A* in LPM (liters per minute).

*NOTE: Each valve section has two work ports (Port A and Port B).
Port A: Used to either raise implement or move implement to the right or for clockwise rotation of the implement.
Port B: Used to either lower implement or move implement to the left or for counter-clockwise rotation of the implement.

HYDRAULICS (CONT.)

Valve Locations

This illustration shows the factory installed switch location for each function by hydraulic part number.

Part Number	MINI-JOYSTICK Front Aft	MINI-JOYSTICK Left/ Right Float	AUXILIARY POD Index with Float	AUXILIARY POD Mid	AUXILIARY POD Ring	AUXILIARY POD Little	RIPPER POD RHD RH1	RIPPER POD RHD RH2
242-5056								
309-9846								RIPPER
Float:								N
Flow rate:								50/50
309-9849								MID-MOUNT SCARIFIER
Float:								N
Flow Rate:								30/35
309-9847						FR.LIFT		
Float:						Y		
Flow Rate:						47/55		
309-9850						FR.LIFT	RIPPER	
Float:						Y	N	
Flow rate:						47/55	50/50	
370-6673						MID-MOUNT SCARFIER	RIPPER	
Float:						N	N	
Flow rate:						30/35	50/50	
309-9858	MAST	TILT	FR.LIFT					
Float:	N	N	Y					
Flow rate:	80/80	36/24	47/55					
309-9856			FR.LIFT	DA1			RIPPER	
Float:			Y	N			N	
Flow rate:			47/55	80/80			50/50	
320-6753			FR.LIFT			RIPPER	MID-MOUNT SCARIFIER	
Float:			Y			N	N	
Flow rate:			47/55			30/35	50/50	
325-3006	MAST	TILT	FR.LIFT				RIPPER	
Float:	N	Y	Y				N	
Flow rate:	80/80	77/77	47/55				50/50	
309-9868	MAST	TILT	FR.LIFT				RIPPER	
Float:	N	N	Y				N	
Flow rate:	80/80	36/24	47/55				50/50	

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

HYDRAULIC VALVE LOCATIONS

Part Number	MINI-JOYSTICK Front Aft	MINI-JOYSTICK Left/ Right Float	AUXILIARY POD Index with Float	AUXILIARY POD Mid	AUXILIARY POD Ring	AUXILIARY POD Little	RIPPER POD RH1	RIPPER POD RH2
349-9870	MAST	TILT	FR.LIFT	DA1				RIPPER
Float:	N	N	Y	N				N
Flow rate:	80/80	36/24	47/55	80/80				50/50
309-9872	MAST	TILT	FR.LIFT	DA1				MID-MOUNT SCARIFIER
Float:	N	N	Y	N				N
Flow rate:	80/80	36/24	47/55	80/80				30/35

HYDRAULIC PART NUMBERS

L	242-5056	**HYDRAULICS, BASE** . . . . . 0 Base hydraulic system includes machine articulation, wheel lean, left and right blade lift with independent float, drawbar centershift, circle drive, blade sideshift and tip.		NC
L	309-9846	**BASE + 1 (RIP)**. . . . . 21 Ripper function. Includes the Ripper Lines. FOR USE WITH: RIPPER-SCARIFIER, REAR		$2,140
L	309-9849	**BASE + 1 (MMS)**. . . . . 21 Mid-Mount Scarifier function. Includes the Mid-Mount Scarifier Lines. FOR USE WITH: MID MOUNT SCARIFIER PACKAGE		$2,295
L	309-9847	**BASE + 1 (FL)**. . . . . 16 Front Lift function. Includes the Front Lift Lines. FOR USE WITH: LIFT GROUP, MANUAL, FRONT		$1,890
L	309-9850	**BASE + 2 (FL, RIP)** . . . . . 42 Ripper and Front Lift functions. Includes the Front Lift Lines and Ripper Lines. FOR USE WITH: LIFT GROUP, MANUAL, FRONT FOR USE WITH: RIPPER-SCARIFIER, REAR		$4,245
L	370-6673	**BASE + 2 (MMS, RIP)** . . . . . 42 FOR USE IN LANE 3 ONLY Ripper and Mid-Mount Scarifier functions. Includes the Mid-Mount Scarifier Lines and Ripper Lines. FOR USE WITH: MID MOUNT SCARIFIER PACKAGE FOR USE WITH: RIPPER-SCARIFIER, REAR		$4,085
L	309-9858	**BASE + 3 (FL&WM&WT)** . . . . . 48 FOR USE IN LANE 3 ONLY Front Lift, Snow Wing Mast, and Snow Wing Tilt (38/26 - No Float) functions. Includes the Front Lift Lines. FOR USE WITH: SNOW ARRANGEMENT FOR USE WITH: LIFT GROUP, MANUAL, FRONT		$6,340

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

HYDRAULIC PART NUMBERS (Cont.)

L	309-9856	**BASE + 3 (R&FL&DA)**	53	$7,400
		FOR USE IN LANE 3 ONLY Ripper, Front Lift and Angle functions. Includes the Front Lift Lines Dozer Angle 1 Lines, and Ripper Lines. FOR USE WITH: LIFT GROUP, MANUAL, FRONT FOR USE WITH: RIPPER-SCARIFIER, REAR		
L	320-6753	**BASE + 3 (FL, RIP, MMS)**	90	$7,150
		FOR USE IN LANE 3 ONLY Front Lift, Ripper and Mid-Mount Scarifier functions. Includes the Front Lift Lines, Ripper Lines and Mid-Mount Scarifier Lines. FOR USE WITH: LIFT GROUP, MANUAL, FRONT FOR USE WITH: RIPPER-SCARIFIER, REAR FOR USE WITH: MID MOUNT SCARIFIER PACKAGE		
L	325-3006	**BASE + 4 (WM,WT,FL,RIP)**	85	$8,860
		Ripper, Front Lift, Snow Wing Mast and Snow Wing Tilt (77/77 with float) functions. Includes the Front Lift Lines and Ripper Lines. FOR USE WITH: SNOW ARRANGEMENT FOR USE WITH: LIFT GROUP, MANUAL, FRONT FOR USE WITH: RIPPER-SCARIFIER, REAR		
L	309-9868	**BASE + 4 (WM,WT,FL,RIP) NOFLT**	85	$8,860
		FOR USE IN LANE 3 ONLY Ripper, Front Lift, Snow Wing Mast and Snow Wing Tilt (36/24 - No Float) functions. Includes the Front Lift Lines and Ripper Lines. FOR USE WITH: SNOW ARRANGEMENT FOR USE WITH: LIFT GROUP, MANUAL, FRONT FOR USE WITH: RIPPER-SCARIFIER, REAR		
L	309-9870	**BASE + 5 (WM,WT,DA1,FL,RIP)**	64	$9,680
		Ripper, Dozer Angle 1, Front Lift, Snow Wing Mast and Snow Wing Tilt (36/24 - No Float) functions. Includes the Front Lift Lines, Angle 1 Lines, and Ripper Lines. FOR USE WITH: SNOW ARRANGEMENT FOR USE WITH: LIFT GROUP, MANUAL, FRONT FOR USE WITH: RIPPER-SCARIFIER, REAR		

HYDRAULICS LANE 3 ONLY

L	309-9872	**BASE + 5 (WM,WT,DA1,FL,MMS)**	100	$10,660
		FOR USE WITH: Lane 3 only. Mid-Mount Scarifier, Dozer Angle 1, Front Lift, Snow Wing Mast and Snow Wing Tilt (36/24 - No Float) functions. Includes the Front Lift Lines, Dozer Angle 1 Lines and Mid-Mount Scarifier Lines. FOR USE WITH: SNOW ARRANGEMENT FOR USE WITH: MOUNT, SNOW WING, FRAME READY FOR USE WITH: LIFT GROUP, MANUAL, FRONT FOR USE WITH: MID MOUNT SCARIFIER PACKAGE		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

ELECTRICAL

REAR BRAKE LIGHTS

L	560-9017	**LIGHTS, ARM, FOLD DOWN**	0	$1,880
		Provides stationary rear brake lights along with the back-up lights, dimmer switch for road lighting, drop-down stop, tail, and rear turn signals and back-up lights. REQUIRES: FRONT HEADLIGHTS (High/Low)/(Halogen/LED) INCLUDED IN: SNOW ARRANGEMENT		
L	331-6793	**LIGHTS, BRAKE AND BACK-UP**	0	NC
		FOR USE IN LANE 3 ONLY Provides stationary rear brake lights along with the back-up lights. Does not include front headlights or turn signals CANNOT BE USED WITH: SNOW ARRANGEMENT FRONT HEADLIGHTS (High/Low)/(Halogen/LED)		

ROADING LIGHTS

L	421-7810	**LIGHTS, ROADING, HALOGEN**	0	NC
		Provides six halogen cab roof mounted roading lights. CANNOT BE USED WITH: HEADLIGHTS, FRONT, LOW, LED HEADLIGHTS, FRONT, HIGH, LED		
L	550-6608	**LIGHTS, ROADING, LED**	0	$1,245
		Provides six LED cab roof mounted roading lights. CANNOT BE USED WITH: HEADLIGHTS,FRONT, LOW, HALOGEN HEADLIGHTS,FRONT, HIGH,HALOGEN		

STARTER ARRANGEMENT

L	419-3254	**STARTING, (BOSCH)**	0	NC
		Utilizes gear reduction technology providing improved reliability Provides a 710 Amp. starter		
L	325-6335	**STARTING, (50 MT)**	21	$405
		Recommended for Cold weather applications Provides a 1000 Amp. starter		

OPERATOR ENVIRONMENT

L	390-6788	**CAB, BASE**	0	NC
		INCLUDES: - Seat, mechanical suspension, cloth - 150 amp alternator - Standard Glass CANNOT BE USED WITH: SNOW ARRANGEMENT		
L	390-6789	**CAB, PLUS**	20	$2,460
		INCLUDES: - Seat, air suspension, cloth - 150 amp alternator - Wiper/washer, rear - Fan, defroster, rear window - Standard Glass REQUIRED BY: SNOW ARRANGEMENT		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

OPERATOR ENVIRONMENT (CONT.)

L	**390-6796**	**CAB, PLUS, ANTI-ICING GLASS**	50	**$7,770**

FOR USE IN LANE 3 ONLY
INCLUDES:
- Seat, air suspension, cloth
- 280 amp alternator
- Wiper/washer, rear
- Fan, defroster, rear window
- Anti-Icing Glass

REQUIRED BY: SNOW ARRANGEMENT

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

TECHNOLOGY PRODUCTS

PRODUCT LINK

Product Link enables the remote transmission of information about the location, operation, and condition of your equipment. Efficiently and effectively monitor the performance of your assets to help keep your jobs on schedule, maintain equipment condition, and reduce the costs of owning and operating your fleet. Availability varies by country - please reference https://Dealer.cat.com/PL/Certification for certified countries. Please contact your Caterpillar marketing representative with questions.

L	464-6805	**PRODUCT LINK, SATELLITE PLE631**	29	**$432**
		Product Link Elite series PLE631 uses a satellite network to transmit location, utilization and condition information for viewing in Product Link's remote monitoring web interface. For use in areas with poor or no cellular coverage.		
L	464-6443	**PRODUCT LINK, CELLULAR PLE641**	29	**NC**
		Product Link Elite series PLE641 offers expanded coverage including 3G UMTS and CDMA2000 as well as 2G GSM and CDMA cellular networks to transmit location, utilization and condition information for viewing in Product Link-s remote monitoring web interface. Cellulartechnology provides capabilities for frequent transmission and larger volumes of data.		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

TECHNOLOGY PRODUCTS (CONT.)

ACCUGRADE

L	362-5222	**NO ACCUGRADE**	0	NC
		REQUIRES: JOYSTICK CONTROLS, BASIC		
L	462-6390	**INSTALLATION, ACCUGRADE READY**	32	$4,830
		Allows the Motor Grader to be equipped with either aCross Slope, Sonic, Laser, GPS, or ATS electronics kit. Provides software, harnesses for sensors, and mounting for sensors and blade mast bracket.		

NOTE: Highly recommended to select Advanced Joystick Controls. This will Allow for complete configuration and control when using 3 party grade control systems

L	462-6391	**GRADE CONTROL X SLOPE**	165	$11,060
		Available for new orders only. Allows the operator to manually control one end of the blade to match the curb or crown while automatically maintaining the desired slope of the blade. This system is used to maintain the crown of a gravel road or the shoulder of a road. Provides cab switches, software, harnesses for sensors, mounting for sensors and blade mast bracket. Accugrade Ready is included in this option. REQUIRES: JOYSTICK CONTROLS, ADVANCED		

MOTOR GRADER CONTROLS

L	357-9151	**JOYSTICK CONTROLS, BASIC**	6	NC
		Standard joystick controls. REQUIRED BY: NO ACCUGRADE		
L	458-8701	**JOYSTICK CONTROLS, ADVANCED**	8	$2,030
		Provides enhanced functionality while using ACCUGRADE READY or GRADE CONTROL X SLOPE INCLUDES: - Advanced Joysticks - Harness - Films REQUIRED BY: GRADE CONTROL X SLOPE. RECOMMENDED FOR USE WITH: ACCUGRADE READY		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

TIRES, RIMS, AND WHEELS

Tires listed below include a set of six tires.

****To calculate tire loads with machine attachments, please reference the MG Tire Selection Pocket Guide (media #AEXQ0182), available on the Electronic Sales Library.
All tire selections should be made with consideration for planned machine attachments (OEM and aftermarket) and their additional weight. Each tire has a maximum load rating that is not to be exceeded. The tire selection should be based on the maximum of all tire position loads on the machine. Assistance for calculating the highest tire load can be found in the Tire Load Worksheet in the back of the Caterpillar Motor Graders Tire Selection Pocket Guide. Failure to abide by the load ratings of the tires without first consulting the local tire supplier representative could result in nullification of the tire warranty.**

Due to industry-wide tire availability limitations, tire brand and type cannot be guaranteed. Every effort will be made to satisfy your tire choice, but we reserve the right to change to alternate tires. If the tire brand cannot be supplied, the dealer will be contacted to propose alternative tire options. The dealer will need to respond with an alternative tire selection within 72 hours. If no response is provided by the supplier, the order will default to a comparable tire. As a consequence of a tire change, the total machine price will be decreased or increased relative to the price of the new tire selection.

The information provided can be used to make a tire selection based on the particular conditions at the site. When available, the tire manufacturer should be consulted regarding proper tire selection.

Bridgestone

L	252-0722	**TIRES, 14.0R24 BS VUT * L2 MP**	991	**$7,250**
		Bridgestone VUT 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	252-0716	**TIRES, 14.0R24 BS VKT * G2 MP**	1,519	**$6,970**
		FOR USE WITH LANE 3 ONLY Bridgestone VKT 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	252-0710	**TIRES, 14.0R24 BS VSW * G2 MP**	1,459	**$13,320**
		FOR USE WITH LANE 3 ONLY Bridgestone VSW 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

TIRES, RIMS, AND WHEELS (CONT.)

Bridgestone (Cont.)

L	249-7841	**TIRES, 17.5R25 BS VKT * D2A MP**	1,620	**$13,440**
		Bridgestone VKT 1* on 14" x 25" multi-piece rims.		
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	310-7332	**TIRES, 17.5R25 BS VSW * G2 MP**	1,698	**$18,590**
		Bridgestone VSW 1* on 14" x 25" multi-piece rims.		
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		

Michelin

L	252-0681	**TIRES,14.0R24 MX XGLA2 * G2 MP**	1,048	**$10,860**
		FOR USE IN LANE 3 ONLY		
		Michelin XGLA 1* on 10" x 24" multi-piece rims.		
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (7824 lbs) 3550 kg.**		
L	249-7845	**TIRES,14.0R24 MX XSNO+ * G2 MP.**	1,261	**$14,890**
		FOR USE IN LANE 3 ONLY		
		Michelin XSNO 1* on 10" x 24" multi-piece rims.		
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (7824 lbs) 3550 kg.**		
L	252-0773	**TIRES, 17.5R25 MX XTLA * L2 MP**	268	**$16,110**
		FOR USE WITH LANE 3 ONLY		
		Michelin XTLA 1* on 14" x 25" multi-piece rims.		
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	252-0779	**TIRES,17.5R25 MX XSNO+ * G2 MP.**	903	**$20,490**
		Michelin XSNO+ 1* on 14" x 25" multi-piece rims.		
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		

GOODYEAR

L	310-7327	**TIRES, GY17.5R25* COMBO MP**	1,200	**$20,290**
		Goodyear RL2+ 6S on 14" x 25" multi-piece rims		
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		

SHIPPING TIRES

L	440-3434	**TIRES, 17.5 SHIPPING, AWD, MP**	83	**$2,250**
		FOR USE WITH LANE 3 ONLY		
		Shipping tire for use during shipment of machine only.		
		Solid ruber band mounted on 14" x 25" multi-piece rims.		
		Must be replaced with pneumatic tire before delivering to customer.		
L	448-5584	**TIRES, 14.0 SHIPPING, AWD, MP**	69	**$2,000**
		FOR USE WITH LANE 3 ONLY		
		Shipping tire for use during shipment of machine only.		
		Solid ruber band mounted on 10" x 24" multi-piece rims.		
		Must be replaced with pneumatic tire before delivering to customer.		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

OTHER ATTACHMENTS

OTHER ATTACHMENTS

L	367-6880	**COUNTERWEIGHT**	885	$3,200
		NOTE NOT INSTALLED option is only for use with Miscellaneous order using 0P-1918 120M2 MISC MATERIAL NLR Front mounted. Mandatory when machine is not equipped with rear or front mounted work tool attachments. NOTE:This cannot be used in conjunction with push plate, front lift work tools,or the 'installed' hydraulic front lift. It can be used with a not installed hydraulic front lift. CANNOT BE USED WITH: RIPPER-SCARIFIER, REAR		
L	367-6842	**PUSH PLATE, COUNTERWEIGHT**	2,822	$5,640
		NOTE NOT INSTALLED option is only for use with Miscellaneous order using 0P-1918 120M2 MISC MATERIAL NLR Front mounted.Required when machine is equipped with rear ripper/scarifier and other rear mounted attachments. NOTE: This cannot be used in conjunction with counterweight, any front lift work tools,or the 'installed' hydraulic front lift. It can be used with a not installed hydraulic front lift. FOR USE WITH: RIPPER-SCARIFIER, REAR		
L	312-2204	**LIFT GROUP, MANUAL, FRONT**	1,500 1,500	$11,030 $11,030 NI
		Front hydraulic lift without any work tool attached. REQUIRES Hydraulics control part number that has front lift function REQUIRES: MOUNTING, FRONT LIFT REQUIRED BY: Front Scarifiers NOTE: A Not-Installed Manual Lift Group can be ordered with an INSTALLED Push Plate/Counterweight. The not-installed lift group will be skidded, banded and shipped with the unit. CANNOT BE USED WITH: - The Installed Manual Lift Group cannot be used with the MID MOUNT SCARIFIER PACKAGE alled Manual Lift (The Installed Manual Lift can be attached to the machine at the same time as the mounting for the Mid-Mount Scarifier, but not the actual scarifier itself).		

FLUIDS

ANTIFREEZE

447-0898	**COOLANT, 50/50, -35C (-31F)**	0	NC
	Standard engine coolant		
447-0899	**COOLANT, 60/40, -51C (-60F)**	0	$245 NET
	Engine coolant recommended for extreme low temperatures		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

INSTRUCTIONS

SERVICE INSTRUCTIONS

LANGUAGES FOR DECAL PACKAGES, MESSENGER, AND PUBLICATIONS

NOTE: This part number will provide the language for Messenger, Operation and Maintenance Manual and films in the language of your selection. The word "WARNING" is on picto decals for ANSI. Symbols only are on picto decals for ISO.

L	**310-0685**	**LANGUAGE, ENGLISH** . . . . . Provides CAT Messenger and OMM in English and decals as required by ANSI.	0	**NC**

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

FEATURE PACKAGES

REGIONAL OPTIONAL PACKAGES

L	393-1562	**SNOW ARRANGEMENT**	364	$6,440

FOR USE IN LANE 3 ONLY
INCLUDES:
- LIGHTS, ARM, FOLD DOWN
- MOUNTING, WARNING LIGHT
- TRANSMISSION, AUTOSHIFT

RECOMMENDED: MIRRORS, OUTSIDE HEATED
REQUIRES: MOUNT,SNOW WING,FRAME RDY HAL or LED
LIGHTS, WORKING, PLUS, HALOGEN or LED
HEATER, ENGINE COOLANT, 120V or 240v
STARTER, ELEC, EXTREME DUTY or EXTRM DUTY(TUV)
WEATHER, COLD PLUS
CAB, PLUS (STANDARD GLASS) or (ANTI-ICING GLASS)
FRONT HEADLIGHTS, HIGH (Halogen or LED)

WORK TOOL PACKAGE

L	365-1336	**MID MOUNT SCARIFIER PACKAGE**	2,071	$16,290

INCLUDES:
- Mid-mount scarifier, V Type with 11 Teeth
- Mid-mount scarifier bracket

INCLUDES: MOUNT, MID-MOUNT SCARIFIER
NOT FOR USE WITH: LIFT GROUP, MANUAL, FRONT (Installed)
NOT FOR USE WITH: FENDERS, FRONT, AWD
NOT FOR USE WITH: FRONT BLADE PACKAGE

WORK TOOK PACKAGE-SNOW WING MOUNT

L	393-1563	**MOUNT,SNOW WING,FRAME RDY HAL**	251	$1,930

FOR USE IN LANE 3 ONLY
INCLUDES:
- Snow Wing Mount
- Light, Halogen, Snow Wing, Right Hand

CANNOT BE USED WITH: ANY LED LIGHTING OPTION
REQUIRED BY: SNOW ARRANGEMENT

L	551-6545	**MOUNT,SNOW WING,FRAME RDY LED**	0	$2,340

FOR USE IN LANE 3 ONLY
INCLUDES:
- Snow Wing Mount
- Light, LED Snow Wing, Right Hand

CANNOT BE USED WITH: ANY HALOGEN LIGHTING OPTION
REQUIRED BY: SNOW ARRANGEMENT

COMFORT PACKAGE

L	391-8968	**COMFORT PACKAGE**	19	$1,960

INCLUDES:
- Radio,12V, AM/FM, Weatherband
- Sun Shade, Rear
- Converter, Communication (CB)

CANNOT BE USED WITH: Comfort Package 2

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

FEATURE PACKAGES (CONT.)

COMFORT PACKAGE (Cont.)

L	397-5305	**COMFORT PACKAGE 2**	21	$2,495
		INCLUDES: - Radio, 12V, AM/FM CD/MP3 BLUETOOTH, Weatherband - Sun Shade, Rear - Converter, Communication (CB) CANNOT BE USED WITH: COMFORT PACKAGE		

WORKING LIGHTS PACKAGES

L	353-2894	**LIGHTS, WORKING, BASIC,HALOGEN**	19	$770
		INCLUDES: - Lights, work, heel 3X3 - Lights, work, midframe toe 3X3 - Switch, work lighting CANNOT BE USED WITH: SNOW ARRANGEMENT		
L	353-2895	**LIGHTS, WORKING, PLUS, HALOGEN**	19	$1,035
		INCLUDES: - Lights, halogen, ripper 3X3 - Lights, halogen, work, heel 3X3 - Lights, halogen, work, midframe toe 3X3 - Switch, work lighting CANNOT BE USED WITH: ANY LED LIGHTING OPTION REQUIRED BY: Snow Arrangement		
L	551-4433	**LIGHTS, WORKING, PLUS, LED**	0	$2,590
		INCLUDES: - Lights, LED, ripper 3X3 - Lights, LED, work, heel 3X3 - Lights, LED, work, midframe toe 3X3 - Switch, work lighting CANNOT BE USED WITH: ANY HALOGEN LIGHTING OPTION REQUIRED BY: Snow Arrangement		

OTHER OPTIONAL ATTACHMENTS

L	338-1132	**LIGHT, LED WARNING STROBE**	5	$605 NI
		Amber high-speed strobe beacon. REQUIRES: MOUNTING, WARNING LIGHT		
L	361-3137	**MOUNTING, WARNING LIGHT**	10	$725
		Provides the bracket for warning beacon light, 284-3757. INCLUDED IN: SNOW ARRANGEMENT		
L	248-6925	**TRANSMISSION, AUTOSHIFT**	5	$3,205
		Improves ease of operation and maximizes productivity by automatically shifting the transmission at optimal shift points. INCLUDED IN: SNOW ARRANGEMENT		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

ELECTRICAL

FRONT HEADLIGHTS

L	308-9370	**HEADLIGHTS,FRONT, LOW, HALOGEN**	0	$640
		Provides low bar HALOGEN headlights with front turn signals. CANNOT BE USED WITH: SNOW ARRANGEMENT ANY LED LIGHTING OPTION REQUIRED BY: ARM, FOLD DOWN		
L	553-2588	**HEADLIGHTS, FRONT, LOW, LED**	0	$1,365
		Provides low bar LED headlights with front turn signals. CANNOT BE USED WITH: SNOW ARRANGEMENT ANY HALOGEN LIGHTING OPTION REQUIRED BY: LIGHTS,ARM, FOLD DOWN		
L	308-9371	**HEADLIGHTS,FRONT, HIGH,HALOGEN**	0	$640
		Provides HIGH bar headlights with front turn signals. CANNOT BE USED WITH: ANY LED LIGHTING OPTION REQUIRED BY: LIGHTS, ARM, FOLD DOWN SNOW ARRANGEMENT		
L	553-2589	**HEADLIGHTS, FRONT, HIGH, LED**	0	$1,365
		Provides high bar LED headlights with front turn signals. CANNOT BE USED WITH: ANY HALOGEN LIGHTING OPTION REQUIRED BY: LIGHTS,ARM, FOLD DOWN SNOW ARRANGEMENT		

OPERATOR ENVIRONMENT

CAMERA

L	391-2914	**CAMERA,REAR VISION**	15	$2,535
		Provides a 115 degree color camera mounted on the rear of the hood that is connected to a 7 inch (178mm) LCD color display mounted in the cab which shows the view behind the machine.		
L	536-6330	**CAMERA, REAR VISION W/MIRRORS**	0	$3,060
		Provides increased visibility surrounding the machine. Proides a rear vision camera and round convex mirrors that are mounted on outside mirror brackets. REQUIRES: One of the options listed below: 233-3295 MIRRORS, OUTSIDE MOUNTED 344-0984 MIRRORS, OUTSIDE HEATED 24V CANNOT BE USED WITH: 396-3921 CAMERA, REAR VISION NOTE: The mirrors are wrapped in bubble wrap and rotated toward the door for protection during shipment.		

MIRRORS

L	233-3295	**MIRRORS, OUTSIDE MOUNTED**	32	$495
		Provides two convex mirrors for outside mounting on the left and right cab grab irons. NOTE: The mirrors are wrapped in bubble wrap and rotated toward the doors for protection during shipment.		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

OPERATOR ENVIRONMENT (CONT.)

MIRRORS (Cont.)

L	344-0984	**MIRRORS, OUTSIDE HEATED 24V** . . . . . Provides mirrors with a 24V heating element to keep mirrors ice free in cold weather operations. NOTE: The mirrors are wrapped in bubble wrap and rotated toward the doors for protection during shipment.	33	$670

TECHNOLOGY PRODUCTS

L	238-8827	**SECURITY SYSTEM, MACHINE** . . . . . FOR USE IN LANE 3 ONLY Provides a programmable system to manage access to the machine using special MSS keys. Deters theft, vandalism, and unauthorized use. Programmable features allow the following: * limits operators to selected machines * controls the days and hours equipment may be started * controls access by untrained operators or personnel	10	$720
L	458-2072	**STABLE BLADE** . . . . . Provides sensor and software to automatically reduce engine speed in various applications to reduce machine bounce and scalloping of surface.	3	$2,470

GUARDS

L	367-6905	**GUARD, AXLE HOSE** . . . . . FOR USE IN LANE 3 ONLY Provides additional protection to the front axle cylinders, lines and fittings. *NOTE* NOT recommended for use with tire chains	15	$1,075
L	366-2462	**GUARD, TRANSMISSION** . . . . . Provides a steel guard to protect the transmission from ground debris. REQUIRED BY: GUARD, TRANSMISSION SIDES/SOUND	293	$3,400
L	366-6006	**GUARD,TRANSMISSION SIDES/SOUND** . . . . . Provides two metallic side panels on either side of transmission guard, enclosing the rear of the machine. This option prevents debris from accumulating on top of the transmission guard and also suppresses sound to meet EU sound regulations. REQUIRES: GUARD, TRANSMISSION	167	$2,290
L	307-1477	**SOUND SUPPRESSION, ENGINE ENCL** . . . . . FOR USE IN LANE 3 ONLY Suppression panels in engine enclosure doors.	32	$1,540
L	246-6027	**FENDERS, REAR** . . . . . FOR USE WITH LANE 3 ONLY Provides non-metallic rear fenders to aid in reducing the build-up of mud, snow, or debris. Rear fenders are compatible with all MG tire sizes offered by the factory. ** NOT RECOMMENDED FOR USE WITH TIRE CHAINS.	360	$5,400

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER
		GUARDS (CONT.)		
L	262-0412	**FENDERS, FRONT, AWD**	124	$3,795
		Non-metallic front fenders aid in reducing the build-up of mud, snow, or debris. Front fenders are compatible with all AWD tire sizes offered by the factory.		
		** NOT RECOMMENDED FOR USE WITH TIRE CHAINS.		
		CANNOT BE USED WITH: MID MOUNT SCARIFIER PACKAGE		
L	324-5396	**GUARD, DEBRIS**	20	$1,160
		FOR USE IN LANE 3 ONLY		
		Provides a additional cooling with debris guard on underside of rear engine enclosure.		
		REQUIRED BY: STARTING, ETHER		
		OTHER ATTACHMENTS		
		ENGINE COOLANT HEATERS		
L	255-1336	**HEATER, ENGINE COOLANT, 120V**	1	$230
		Engine coolant heater for 120 volt external power source.		
		REQUIRED BY: SNOW ARRANGEMENT		
		CANNOT BE USED WITH: HEATER, ENGINE COOLANT, 240V		
		STARTING AIDS		
L	373-8181	**STARTING AID - ETHER**	1	$495
		REQUIRED BY: WEATHER, COLD		
		REQUIRED BY: WEATHER, COLD PLUS		
		CANNOT BE USED WITH: GUARD, DEBRIS		
L	324-5338	**STARTING, ETHER**	1	$495
		FOR USE IN LANE 3 ONLY		
		REQUIRED BY: WEATHER, COLD		
		REQUIRED BY: WEATHER, COLD PLUS		
		REQUIRES: GUARD, DEBRIS		
		WORK TOOLS		
L	359-3914	**MOUNT, MID-MOUNT SCARIFIER**	131	$1,410
		FOR USE IN LANE 3 ONLY		
		Brackets welded to front frame for future installation of midmount scarifier. NOTE: this is the mounting only and does not include the scarifier. There is a contact point with the mid-mount scarifier and the A Frame in extreme positions.		
		REQUIRES: Hydraulics with a mid-scarifier function		
		NOTE: If you intend to purchase the mid-mounted scarifier, please note that the actual scarifier cannot be attached to the machine at same time as the LIFT GROUP, MANUAL, FRONT		
		CANNOT BE USED WITH: MID MOUNT SCARIFIER PACKAGE		
L	359-3925	**LIFT GROUP, FRONT MOUNTING**	10	$442
		Two mounting plates welded to both sides of the front frame for factory or future installation of Front Lift.		
		REQUIRED BY: LIFT GROUP, MANUAL, FRONT		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

GROUND ENGAGING TOOLS

GROUND ENGAGING TOOLS

P	8J-1434	**TOOTH, STRAIGHT**	67	$805
		Ripper tooth group for rear ripper. Includes one straight shank with ripper tooth. Recommended order quantity of 2 ONLY FOR USE WITH: RIPPER/SCARIFIER		
P	4K-3330	**SHANKS/TEETH, RIPPER/SCARIFIER**	152	$1,404
		Nine shanks for ripper and scarifier combination. Utilizes the scarifier shank positions on a ripper and scarifier combination. Will work with a midmount scarifier ONLY FOR USE WITH: RIPPER/SCARIFIER		

PACKING

MACHINE PACKING (Must Select One)

0P-0251	**DOMESTIC TRUCK**	0	NC

ATTACHMENT PACKING

0P-0097	**BUNDLED,RIPPER,PARTIAL INSTALL**	0	$358 NET
	Ripper hydraulic lines and rear mounting plate are installed, but the not-installed ripper is bundled for shipment overseas. FOR USE WITH: Installed Ripper NOT FOR USE BY: NACD Dealers CANNOT BE USED WITH: EU Arrangement		
0P-8011	**BUNDLED FENDERS**	0	$458 NET
	Required when ordering fenders with rims only.		
0P-0210	**PACK, DOMESTIC TRUCK**	0	NC
	Use for miscellaneous material orders.		
0P-1935	**BUNDLED FRONT LIFT GROUP**	0	$1,175
	Required when ordering the Not Installed Lift Group,Manual,Front		

140 MOTOR GRADER
PIRACICABA, BRAZIL

	Ship Weight lbs	LIST PRICE AT DEALER

Standard Equipment:

POWERTRAIN

Air cleaner, dual stage dry type radial seal with service indicator and automatic dust ejector
Air-to-air after cooler (ATAAC)
Belt, serpentine, automatic tensioner
Brakes, oil disc, four-wheel, hydraulic
Demand fan, hydraulic
Electronic over-speed protection
Engine, C9 with ACERT technology, diesel with automatic engine derate and idle control. EPA/ARB tier 4 final & EU stage IV certified engine & aftertreatment
Parking brake, multi-disc, sealed and oil cooled
Sediment drain, fuel tank
Tandem drive
Transmission, 8 speed forward and 6 speed reverse, power shift, direct drive
VHP Plus (Variable Horse Power Plus)

ELECTRICAL

Alarm, back-up
Alternator, 150 ampere, sealed
Batteries, maintenance free, heavy duty, 1125 CCA
Breaker panel
Electrical system, 24 volt
Lights, reversing
Starter, electric

OPERATOR ENVIRONMENT

Air Conditioning with heater
Articulation
Centershift pin indicator
Display, digital speed and gear
Load sensing hydraulic controls:
-Right/left blade lift
-Circle drive
-Center shift
-Side shift
-Blade tip
-Front wheel lean
Doors, left and right side
Gauge, machine level
Gauges (analog) inside the cab (includes fuel, articulation, engine coolant temp, engine RPM and hydraulic oil temp, DEF/AdBlue)
Lights, night time cab
Messenger Display
-Meter
-Hour digital
Mirror
Inside rearview, wide angle
Power port, 12V
Radio ready, entertainment
ROPS cab, 77dB(A) ISO 6394
Storage area for cooler/lunchbox
Throttle control, electronic
Windows: laminated glass
Fixed front with intermittent wiper
windows: tempered
Left and right side wipers
Rear with intermittent wiper
Cab Storage

SAFETY AND SECURITY

Clutch, circle drive slip
Doors, 2 engine compartment, (two left hand, two right hand) locking
Doors, 2 service, left and right locking
Ground level engine shutdown
Hammer (emergency exit)
Horn, electric
Seat belt, retractable 3"
Secondary steering
Tandem walkway/guards

FLUIDS

Antifreeze
Extended life coolant -35C/-30F

OTHER STANDARD EQUIPMENT

Accumulators -brake -dual certified
Drawbar,6 shoe w/replaceable wear strips
Fluid check, ground level
Fuel tank, 100 gallon (378 L)
Ground level fueling
DEF/AdBlue Tank, 3.3 gallon (12.5 L)
Hydraulic lines for base functions
Pump, hydraulic, high capacity (100cc / 6 cu in)
Radiator, cleanout access (both sides with swing doors)
SOS ports - engine -hydraulic -transmission -coolant -fuel
Tool box
Debris guard

140 MOTOR GRADER
PIRACICABA, BRAZIL

		Ship Weight lbs	LIST PRICE AT DEALER

Lane 2 is reserved for the Base Order Management Program.
Please use Lane 2 when placing orders that are part of the Base Order Management Program.

515-2449	**140 13A MOTOR GRADER**	0	**$345,400**
	LANE 2 - AVAILABLE FROM PIRACICABA FACTORY		
	LANE 3 - AVAILABLE FROM PIRACICABA FACTORY		
515-8361	**140 13A AWD MOTOR GRADER**	0	**$396,580**
	LANE 2 - AVAILABLE FROM PIRACICABA FACTORY		
	LANE 3 - AVAILABLE FROM PIRACICABA FACTORY		
0P-4773	**140 MISC MATL**	0	**NC**
	AVAILABLE FROM PIRACICABA FACTORY		

Only reference numbers that have the text
"ALSO AVAILABLE ON A MISCELLANEOUS ORDER" can be used on a MISC order.

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

LANE SELECTION

	0P-9002	**LANE 2 ORDER**	0	NC
		Only for dealers enrolled in the Base Orders Management (BOM) program.		
	0P-9003	**LANE 3 ORDER**	0	NC

PERFORMANCE PACKAGES

MOLDBOARDS

L	320-9924	**MOLDBOARD, 12' BASIC**	0	NC
		INCLUDES: - Moldboard 12' x 24" x 7/8" (3658mm x 610mm x 22mm) - Curved Cutting Edge, 6" X 5/8" (152mm x 16mm) - End Bits, Standard, Without Overlay		
L	526-7045	**MOLDBOARD, 14' BASIC**	0	$575
		INCLUDES: - Moldboard 14' x 24" x 7/8" (4267mm x 610mm x 22mm) - Curved Cutting Edge, 8" x 3/4" (203mm x 19mm) - End Bits, Standard, Without Overlay		
L	439-9110	**MOLDBOARD, 14' PLUS**	0	$1,370
		INCLUDES: - Moldboard 14' x 27" x 1" (4267mm x 686mm x 25mm) - Curved Cutting Edge, 8" x 3/4" (203mm x 19mm) - End Bits, Standard, With Overlay		

REAR WORK TOOLS

P	523-8156	**NO HITCH**	0	NC
		Provides a plate that bolts to the bumper that allows for attachment points for ripper or auxiliary hoses.		
P	507-7694	**HITCH, TOWING**	0	$540
		Retrieval hitch. Does not include pin.		
P	515-4649	**RIPPER-SCARIFIER, REAR**	0	$20,380
		Hydraulic, rear mounted ripper with three straight ripper shanks. Can accommodate two additional ripper shanks and nine scarifier teeth which must be ordered separately. RECOMMENDED FOR USE WITH: 336-1559 PUSH PLATE, COUNTERWEIGHT		

WEATHER PACKAGES

L	522-6386	**WEATHER, STANDARD, TANDEM**	0	NC
		Recommended for year around use when typical ambient temperature range is 0 degrees C (32 degrees F) to 43 degrees C (110 degrees F) and operating at altitude below 1220 m (4000 feet). INCLUDES: - Batteries, Heavy Duty - 1125 CCA - Oil, Hydraulic, 10W ONLY FOR USE WITH: 515-2449 140-13A MOTOR GRADER		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

PERFORMANCE PACKAGES (CONT.)

WEATHER PACKAGES (Cont.)

L	522-6393	**COLD WEATHER, TANDEM**	0	$760
		Recommended for year around use when typical ambient temperature range is -18 degrees C (0 degrees F) to 43 degrees C (110 degrees F) and operating at altitude below 1220 m (4000 feet). INCLUDES: - Starting Aid, Ether - Batteries, Extreme Duty -1400 CCA - Oil, Hydraulic, 10W ONLY FOR USE WITH: 515-2449 140-13A MOTOR GRADER		
L	522-6394	**COLD WEATHER PLUS, TANDEM**	0	$2,960
		Recommended for year around use when typical ambient temperature range is -40 degrees C (-40 degrees F) to 40 degrees C (104 degrees) or operating at altitude above 1220 m (4000 feet). INCLUDES: - Starting Aid, Ether - Cold Start; Transmission oil and fan brake bypass - Batteries, Extreme Duty -1400 CCA - Oil, Hydraulic, Cold, 0W REQUIRES: 515-2232 STARTER EXTREME DUTY ONLY FOR USE WITH: 515-2449 140-13A MOTOR GRADER		
L	522-6397	**WEATHER, STANDARD, AWD**	0	NC
		Recommended for year around use when typical ambient temperature range is 0 degrees C (32 degrees F) to 43 degrees C (110 degrees F) and operating at altitude below 1220 m (4000 feet). INCLUDES: - Batteries, Heavy Duty - 1125 CCA - Oil, Hydraulic, 10W ONLY FOR USE WITH: 515-8361 140-13AAWD MOTOR GRADER		
P	522-6395	**COLD WEATHER, AWD**	0	$760
		Recommended for year around use when typical ambient temperature range is -18 degrees C (0 degrees F) to 43 degrees C (110 degrees F) and operating at altitude below 1220 m (4000 feet). INCLUDES: - Starting Aid, Ether - Batteries, Extreme Duty -1400 CCA - Oil, Hydraulic, 10W ONLY FOR USE WITH: 515-8361 140-13AAWD MOTOR GRADER		
P	522-6396	**COLD WEATHER PLUS PKG, AWD**	0	$3,765
		Recommended for year around use when typical ambient temperature range is -40 degrees C (-40 degrees F) to 40 degrees C (104 degrees) or operating at altitude above 1220 m (4000 feet). INCLUDES: - Starting Aid, Ether - Cold Start; Transmission oil and fan brake bypass - Batteries, Extreme Duty -1400 CCA - Oil, Hydraulic, Cold, 0W REQUIRES: 515-2232 STARTER EXTREME DUTY ONLY FOR USE WITH: 515-8361 140-13AAWD MOTOR GRADER		

PRECLEANER

L	380-6774	**PRECLEANER, NON SY-KLONE**	0	NC
		Includes dust ejector for medium to heavy dust environments.		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

PERFORMANCE PACKAGES (CONT.)

PRECLEANER (Cont.)

L	380-6775	**PRECLEANER, SY-KLONE**	5	$750
		For use in snow applications, especially when fine snow dust is common, NOT recommended for medium to heavy dust environments.		

LINK BAR SYSTEM

L	559-2201	**LINK BAR, HYDRAULIC**	0	NC
		Link Bar with Hydraulic Locking Pin, Adjustment Controlled from Cab.		
L	559-2202	**LINK BAR, MANUAL**	0	$-855
		Link Bar with Manual Locking Pin, Adjustment Requires Hand Tools.		

DRAWBAR ARRANGEMENT

P	522-6751	**DRAWBAR, STANDARD**	0	$-2,735
		Standard (H-Type) DCM. Standard shimmed circle wear strips. Standard shimmed moldboard wear strips.		
		Intended for customers who perform rough grading or road maintenance and do not frequently maintain their drawbar, circle and moldboard		
P	522-6756	**DRAWBAR, TOP ADJUST**	0	NC
		Top Adjust (M-Type) DCM. Top-adjust circle wear strips. Setscrew moldboard wear strip adjustment. Adjustment allows for DCM assembly to keep tighter grades.		
		Ideal for customers who perform finish grading work and frequently maintain their drawbar, circle and moldboard for factory tightness.		

BLADE TECHNOLOGY

P	566-5529	**NO GRADE CONTROL TECHNOLOGY**	0	NC
P	563-5453	**DIGITAL BLADE SLOPE METER**	0	$2,960
		FOR USE IN LANE 3 ONLY Provides an entry level real-time digital readout of the cross slope of the blade as a job aid to help an operator maintain an accurate and consistent cross slope. Can be used to measure/maintain true cross slope in a road when machine is NOT articulated and blade is perpendicular to machine. Does NOT automatically control elevation of one side of blade and is NOT upgradeable to Cat GRADE Cross Slope, Cross Slope Indicate, 2D (Cross Slope, Sonic, or Laser), or 3D (GPS or UTS) aftermarket options.		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

PERFORMANCE PACKAGES (CONT.)

BLADE TECHNOLOGY (Cont.)

P	522-6757	**CAT GRADE ARO**	0	$6,660
		Allows the Motor Grader to be equipped with either a Cross Slope, Sonic, Laser, GPS, or ATS electronics kit. Provides software, harnesses for sensors, mounting for sensors and blade mast bracket. Cat motor graders have an open architecture that allow aftermarket brands to install their grade control systems. To support integration of machine guidance systems other than Cat Grade or Trimble refer to AEXQ2281-00. REQUIRES: 522-6756 DRAWBAR, TOP ADJUST and 524-8990 BASE+1 (RIP) ARO or 524-8993 BASE+ 3 (RIP,MMS,FL) ARO or 524-8995 BASE+4 (RIP,FL,WM,WT) ARO		
P	563-5226	**CROSS SLOPE INDICATE**	0	$10,780
		Provides real-time digital readout of the cross slope as a job aid to help an operator maintain an accurate and consistent cross slope. Cannot be used to automatically control one side of the blade like full Cross Slope. CAN be upgraded to full Cross Slope or Cat GRADE. REQUIRES: 522-6756 DRAWBAR, TOP ADJUST		
P	522-6760	**CROSS SLOPE**	0	$12,890
		Allows the operator to manually control one end of the blade to match the curb or crown while automatically maintaining the desired slope of the blade. This system is used to maintain the crown of a gravel road or the shoulder of a road. Provides cab switches, software, harnesses for sensors, mounting for sensors and blade mast bracket. Cat GRADE ARO is included in this option. REQUIRES: 522-6756 DRAWBAR, TOP ADJUST and 524-8990 BASE+1 (RIP) ARO or 524-8993 BASE+ 3 (RIP,MMS,FL) ARO or 524-8995 BASE+4 (RIP,FL,WM,WT) ARO		

HYDRAULIC LOCK OUT

L	437-0690	**NO LOCK OUT, CAB**	0	NC
		Includes plate and screw-truss head for Cab, it is required for Cab without mechanical lock.		
L	453-2908	**LOCK OUT, MANUAL**	5	$1,335
		Mechanically locks all moldboard, machine and attachment control levers during machine roading.		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS

Note: Hydraulic Definitons
Base = 8 functions: right and left blade lift, circle turn, drawbar center shift, blade side shift, blade tip, front wheel lean, frame articulation. Float function standard for all hydraulic packages (Blade Lift & Front Lift).

RIP = Ripper
MMS = Mid Mount Scarifier
FL = Front Blade Lift
WM = Snow Wing Mast
WT = Snow Wing Tilt
DA1 = Dozer Angle 1 (angles front blade left OR right)
ARO = Attachment Ready Option for Cat GRADE

P	524-8998	**HYDRAULIC BASE**	0	NC
		Base hydraulic system includes right and left blade lift, circle turn, drawbar center shift, blade side shift, blade tip, front wheel articulation		
P	524-8989	**BASE + 1 (RIP)**	0	$1,800
		Ripper function. Includes the Ripper Lines.		
P	524-8990	**BASE + 1 (RIP) ARO**	0	$8,420
		This is for non-ARO options. Ripper function. Includes the Ripper Lines. For use with AccuGrade Ready Option (ARO) or Cross Slope.		
P	524-8991	**BASE + 2 (RIP,FL)**	0	$2,800
		Ripper and Front Lift functions. Includes the Front Lift Lines and Ripper Lines.		
P	524-8992	**BASE + 3 (RIP, MMS, FL)**	0	$4,210
		Ripper, Mid-Mount Scarifier, and Front Blade Lift functions. Includes the Ripper Lines, Mid-Mount Scarifier Lines and Front Lift Lines.		
P	524-8993	**BASE + 3 (RIP,MMS,FL) ARO**	0	$9,470
		This is for non-ARO options. Ripper, Mid-Mount Scarifier, and Front Blade Lift functions. Includes the Ripper Lines, Mid-Mount Scarifier Lines and Front Lift Lines. For use with Cat GRADE Attachment Ready Option (ARO) or Cross Slope.		
P	524-8994	**BASE + 4 (RIP,FL,WM,WT)**	0	$7,450
		Ripper, Front Lift, Snow Wing Lift and Snow Wing Tilt functions. Includes the Front Blade Lift Lines and Ripper Lines. Snow Wing levers are mounted left of the steering wheel. ONLY FOR USE WITH: SNOW WING (from WT-MG Price Pages)		
P	524-8995	**BASE + 4 (RIP,FL,WM,WT) ARO**	0	$14,070
		Ripper, Front Blade Lift, Snow Wing Lift and Snow Wing Tilt functions. Includes the Front Blade Lift Lines and Ripper Lines. For use with Cat GRADE Attachment Option (ARO) or Cross Slope. Snow Wing levers are mounted left of the steering wheel. ONLY FOR USE WITH: SNOW WING (from WT-MG Price Pages)		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

P	524-8997	**BASE+5 (RIP,FL,WM,WT,DA1)**	0	$9,380
		FOR USE IN LANE 3 ONLY Ripper, Front Blade Lift, Snow Wing Lift, Snow Wing Tilt, and Front Angle functions. Includes the Front Blade Lift Lines, Front Blade Angle Lines, and Ripper Lines. Snow Wing levers are mounted left of the steering wheel ONLY FOR USE WITH: SNOW WING (from WT-MG Price Pages) and ANGLE BLADES (from WT-MG Price Pages)		

LINE GROUPS

ACCUMULATORS

P	515-2586	**NO ACCUMULATORS, NO ARO**	0	NC
		Provides hydraulic lines for base functions		
P	515-2585	**NO ACCUMULATORS, WITH ARO**	0	NC
		-Includes Lines GP Cynlinder, Adaptor and Hose, Pump -Non-Accumulator REQUIRES: 524-8990 BASE+1 (RIP) ARO or 524-8993 BASE+ 3 (RIP,MMS,FL) ARO or 524-8995 BASE+ 4 (RIP,FL,WM,WT) ARO		
P	526-9853	**ACCUMULATORS, NO ARO**	0	$4,665
		Provides hydraulic lines for base functions and accumulators for the blade lift. Allows approximately 1-3" of vertical blade travel to reduce impact loads. Nitrogen/oil accumulators activated by electric switch.		
P	524-1763	**ACCUMULATORS, WITH ARO**	0	$4,665
		Provides hydraulic lines for base functions and accumulators for the blade lift. Allows approximately 1-3" of vertical blade travel to reduce impact loads. Nitrogen/oil accumulators activated by electric switch. REQUIRES: 524-8990 BASE+1 (RIP) + ACCUGRADE or 524-8993 BASE+3 (RIP, MMS, FL)+ ACCUGRADE or 524-8995 BASE+4(RIP,FL,WM,WT)ACCUGRADE		

STARTERS, BATTERIES, & ALTERNATORS

STARTER ARRANGEMENT

P	515-2231	**STARTER, HEAVY DUTY**	0	NC
		Provides a 710 Amp. starter Recommended for year around use when typical ambient temperature range is -18 degrees C (0 degrees F) to 43 degrees C (110 degrees F) and and operating at altitude below 1220 m (4000 ft).		
P	515-2232	**STARTER, EXTREME DUTY**	0	$408
		Provides a 825 Amp. starter Recommended for year around use when typical ambient temperature range is -40 degrees C (-40 degrees F) to 40 degrees C (104 degrees F) and operating at altitude above 1220 m (4000 ft).		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

ELECTRICAL

BRAKE LIGHTS

P	522-1597	**LIGHTS, BRAKE AND BACKUP**	0	NC
		Provides stationary rear brake lights along with the back-up lights. Does not include front headlights or turn signals CANNOT BE USED WITH: 519-3700 LOW BAR, HALOGEN, TANDEM 558-5819 LOW BAR, LED, TANDEM 519-3702 HIGH BAR, HALOGEN, TANDEM 558-5820 HIGH BAR, LED, TANDEM 519-3705 LOW BAR, HALOGEN, AWD 558-5822 LOW BAR, LED, AWD 519-3706 HIGH BAR, HALOGEN, AWD 558-5823 HIGH BAR, LED, AWD		
P	562-3742	**ROADING LIGHTS W/FOLD DOWN ARM**	0	$1,875
		Provides stationary rear brake lights along with the back-up lights, dimmer switch for road lighting, drop-down stop, tail, and rear turn signals and back-up lights. REQUIRES: 519-3700 LOW BAR, HALOGEN, TANDEM or 558-5819 LOW BAR, LED, TANDEM or 519-3702 HIGH BAR, HALOGEN, TANDEM or 558-5820 HIGH BAR, LED, TANDEM or 519-3705 LOW BAR, HALOGEN, AWD or 558-5822 LOW BAR, LED, AWD or 519-3706 HIGH BAR, HALOGEN, AWD or 558-5823 HIGH BAR, LED, AWD		

OPERATOR ENVIRONMENT

CAB

P	522-6687	**CAB, BASIC**	0	NC
		INCLUDES: - Enclosed ROPS - Heater + A/C - 150 amp alternator - Wiper/washer, front - Standard Glass - Hammer (emergency exit)		
P	522-6688	**CAB, PLUS**	0	$1,835
		INCLUDES: - Cab, BASIC Features - Rear Wiper - CB Radio Mounting - Rear Window Screen - Defrost Fans (x2)		

SEAT

P	437-0684	**SEAT, MECHANICAL SUSPENSION**	25	$1,505
		PVC / vinyl seat, mechanical suspension		
P	518-3382	**SEAT, CLOTH AIR SUSPENSION**	0	$2,555
		Cloth seat, air suspension		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

OPERATOR ENVIRONMENT (CONT.)

MIRROR

P	565-2320	**MIRRORS, EXTERNAL**	0	NC
		Outside Mounted Mirrors		
P	524-3111	**MIRRORS, HEATED EXTERNAL**	0	$176
		Provides mirrors with a 24V heating element to keep mirrors ice free in cold weather operations.		

TECHNOLOGY PRODUCTS

PRODUCT LINK

Product Link enables the remote transmission of information about the location, operation, and condition of your equipment. Efficiently and effectively monitor performance of your assets to help keep your jobs on schedule, maintain equipment condition, and reduce the costs of owning and operating your fleet.

Availability varies by country, please contact your Cat marketing representative with questions or click on the link below:
HTTPS://DEALER.CAT.COM/en/bt/otd/machine-price-list.html
From there click on the 'PRODUCT LINK Hardware Certification" link

P	519-3712	**PRODUCT LINK, CELLULAR PLE641**	0	NC
		Product Link Pro series PL641 offers expanded coverage including 3G UMTS and CDMA2000 as well as 2G GSM and CDMA cellular networks to transmit location, utilization and condition information forviewing in Product Link-s remote monitoring web interface. technology provides capabilities for frequent transmission and larger volumes of data.		
P	519-3710	**PROD LINK, DUAL PLE641 + PL631**	0	$1,215
		The Product Link Elite series dual solution uses a combination of GSM and CDMA 3G cellular and satellite networks to transmit location, utilization and condition information for viewing in Product Link-s remote monitoring web interface. For applications that require travel between areas of both cellular and satellite coverage.		

COOLING

COOLING FAN

P	558-3846	**FAN, STANDARD TANDEM**	0	NC
		Provides a hydraulically driven demand fan ONLY FOR USE WITH: 515-2449 140-13A MOTOR GRADER		
P	550-9200	**FAN, REVERSING TANDEM**	0	$3,105
		Provides a hydraulically driven demand fan that can reverse direction to prevent debris build up on the cooling package and engine enclosure. Includes automatic and manual controls for airflow reversal. Recommended for applications with a high content of airborne debris. ONLY FOR USE WITH: 515-2449 140-13A MOTOR GRADER		
P	558-3845	**FAN, STANDARD AWD**	0	NC
		Provides a hydraulically driven demand fan ONLY FOR USE WITH: 515-8361 140-13A AWD MOTOR GRADER		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

COOLING (CONT.)

COOLING FAN (Cont.)

P	550-9201	FAN, REVERSING AWD	0	$3,105

Provides a hydraulically driven demand fan that can reverse direction to prevent debris build up on the cooling package and engine enclosure. Includes automatic and manual controls for airflow reversal.
Recommended for applications with a high content of airborne debris.
ONLY FOR USE WITH: 515-8361 140-13A AWD MOTOR GRADER

TIRES, RIMS, AND WHEELS

**Tires listed below include a set of six tires.
**To calculate tire loads with machine attachments, please reference the MG Tire Selection Pocket Guide (media #AEXQ0182), available on the Electronic Sales Library.
All tire selections should be made with consideration for planned machine attachments (OEM and aftermarket) and their additional weight. Each tire has a maximum load rating that is not to be exceeded. The tire selection should be based on the maximum of all tire position loads on the machine. Assistance for calculating the highest tire load can be found in the Tire Load Worksheet in the back of the Caterpillar Motor Graders Tire Selection Pocket Guide. Failure to abide by the load ratings of the tires without first consulting the local tire supplier representative could result in nullification of the tire warranty.**

Due to industry-wide tire availability limitations, tire brand and type cannot be guaranteed. Every effort will be made to satisfy your tire choice, but we reserve the right to change to alternate tires. If the tire brand cannot be supplied, the dealer will be contacted to propose alternative tire options. The dealer will need to respond with an alternative tire selection within 72 hours. If no response is provided by the supplier, the order will default to a comparable tire. As a consequence of a tire change the total machine price will be decreased or increased relative to the price of the new tire selection.

The information provided can be used to make a tire selection based on the particular conditions at the site. When available, the tire manufacturer should be consulted regarding proper tire selection.

APPLICATION SPECIFIC

L	515-5399	TIRES,14.0R24 SOIL TRACTION MP	0	$5,970

Tire group received will be one of the tire groups listed below:
- Bridgestone VKT 1* on 10" x 24" multi-piece rims.
- Michelin XGLA2 1* on 10" x 24" multi-piece rims.
THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**
ONLY FOR USE WITH: 515-2449 140-13A MOTOR GRADER

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

TIRES, RIMS, AND WHEELS (CONT.)

APPLICATION SPECIFIC (Cont.)

L	515-5400	**TIRES,17.5R25 SOIL TRACTION MP**	0	$12,450
		Tire group received will be one of the tire groups listed below: - Bridgestone VKT 1* on 14" x 25" multi-piece rims. - Michelin XTLA 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.** ONLY FOR USE WITH: 515-2449 140-13A MOTOR GRADER		
L	515-5404	**TIRES,14.0R24 SOIL TRACTION MP**	0	$5,970
		Tire group received will be one of the tire groups listed below: - Bridgestone VKT 1* on 10" x 24" multi-piece rims. - Michelin XGLA2 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.** ONLY FOR USE WITH: 515-8361 140-13AAWD MOTOR GRADER		
L	515-5405	**TIRES,17.5R25 SOIL TRACTION MP**	0	$12,440
		Tire group received will be one of the tire groups listed below: - Bridgestone VKT 1* on 14" x 25" multi-piece rims. - Michelin XTLA 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.** ONLY FOR USE WITH: 515-8361 140-13AAWD MOTOR GRADER		

SHIPPING TIRES

L	448-5577	**TIRES, 14.0 SHIPPING, MP**	90	$2,000
		FOR USE IN LANE 3 ONLY Shipping tire for use during shipment of machine only. Solid rubber band mounted on 10" x 24" multi-piece rims. Must be replaced with pneumatic tire before delivering to customer. ONLY FOR USE WITH: 515-2449 140-13A MOTOR GRADER		
L	440-3433	**TIRES, 17.5 SHIPPING, MP**	274	$2,250
		FOR USE WITH LANE 3 ONLY Shipping tire for use during shipment of machine only. Solid rubber band mounted on 14" x 25" multi-piece rims. Must be replaced with pneumatic tire before delivering to customer ONLY FOR USE WITH: 515-2449 140-13A MOTOR GRADER		
L	448-5584	**TIRES, 14.0 SHIPPING, AWD, MP**	69	$2,000
		FOR USE WITH LANE 3 ONLY Shipping tire for use during shipment of machine only. Solid rubber band mounted on 10" x 24" multi-piece rims. Must be replaced with pneumatic tire before delivering to customer. ONLY FOR USE WITH: 515-8361 140-13AAWD MOTOR GRADER		
L	440-3434	**TIRES, 17.5 SHIPPING, AWD, MP**	83	$2,250
		FOR USE WITH LANE 3 ONLY Shipping tire for use during shipment of machine only. Solid rubber band mounted on 14" x 25" multi-piece rims. Must be replaced with pneumatic tire before delivering to customer ONLY FOR USE WITH: 515-8361 140-13AAWD MOTOR GRADER		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

TIRES, RIMS, AND WHEELS (CONT.)

MICHELIN

L	252-0679	**TIRES,14.0R24 MX XGLA2 * G2 MP**	1,069	**$10,860**
		Michelin XGLA2 1* on 10" x 24" multi-piece rims.		
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (7824 lbs) 3550 kg.**		
		ONLY FOR USE WITH: 515-2449 140-13A MOTOR GRADER		
L	252-0771	**TIRES, 17.5R25 MX XTLA * L2 MP**	1,371	**$16,110**
		FOR USE IN LANE 2 ONLY		
		Michelin XTLA 1* on 14" x 25" multi-piece rims.		
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
		ONLY FOR USE WITH: 515-2449 140-13A MOTOR GRADER		
L	252-0777	**TIRES,17.5R25 MX XSNO+ * G2 MP.**	1,093	**$20,490**
		Michelin XSNO+ 1* on 14" x 25" multi-piece rims.		
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
		ONLY FOR USE WITH: 515-2449 140-13A MOTOR GRADER		
L	252-0681	**TIRES,14.0R24 MX XGLA2 * G2 MP**	1,048	**$10,860**
		Michelin XGLA2 1* on 10" x 24" multi-piece rims.		
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (7824 lbs) 3550 kg.**		
		ONLY FOR USE WITH: 515-8361 140-13AAWD MOTOR GRADER		
L	252-0773	**TIRES, 17.5R25 MX XTLA * L2 MP**	268	**$16,110**
		FOR USE IN LANE 2 ONLY		
		Michelin XTLA 1* on 14" x 25" multi-piece rims.		
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
		ONLY FOR USE WITH: 515-8361 140-13AAWD MOTOR GRADER		
L	252-0779	**TIRES,17.5R25 MX XSNO+ * G2 MP.**	903	**$20,490**
		Michelin XSNO+ 1* on 14" x 25" multi-piece rims.		
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
		ONLY FOR USE WITH: 515-8361 140-13AAWD MOTOR GRADER		

BRIDGESTONE

L	252-0714	**TIRES, 14.0 R24 BS VKT * G2**	1,540	**$6,970**
		Bridgestone VKT 1* on 10" x 24" multi-piece rims.		
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
		ONLY FOR USE WITH: 515-2449 140-13A MOTOR GRADER		
L	252-0775	**TIRES, 17.5R25 BS VKT * D2A MP**	1,810	**$13,450**
		Bridgestone VKT 1* on 14" x 25" multi-piece rims.		
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
		ONLY FOR USE WITH: 515-2449 140-13A MOTOR GRADER		
L	249-7841	**TIRES, 17.5R25 BS VKT * D2A MP**	1,620	**$13,440**
		Bridgestone VKT 1* on 14" x 25" multi-piece rims.		
		THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
		ONLY FOR USE WITH: 515-8361 140-13AAWD MOTOR GRADER		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

TIRES, RIMS, AND WHEELS (CONT.)

BRIDGESTONE (Cont.)

L	252-0716	**TIRES, 14.0R24 BS VKT * G2 MP**	1,519	**$6,970**
		Bridgestone VKT 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.** ONLY FOR USE WITH: 515-8361 140-13AAWD MOTOR GRADER		

GOODYEAR

L	310-7326	**TIRE, 17.5R25 GY RL2+6S 1*MP**	1,200	**$20,290**
		Goodyear RL2+ 6S on 14" x 25" multi-piece rims THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.** ONLY FOR USE WITH: 515-2449 140-13A MOTOR GRADER		
L	310-7327	**TIRES, GY17.5R25* COMBO MP**	1,200	**$20,290**
		Goodyear RL2+ 6S on 14" x 25" multi-piece rims THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.** ONLY FOR USE WITH: 515-8361 140-13AAWD MOTOR GRADER		

FLUIDS

COOLANT ANTIFREEZE

P	522-6654	**COOLANT (-40C)**	0	**NC**
		Standard engine coolant		
P	522-6655	**COOLANT (-50C)**	0	**$241 NET**
		Engine coolant recommended for extreme low temperatures		

CAB ANTIFREEZE

	0P-1939	**ANTIFREEZE WINDSHIELD WASHER**	0	**NC**

FUEL ANTIFREEZE

	0P-3978	**FUEL ANTIFREEZE, -25C (-13F)**	0	**NC**
		Provides fuel (diesel) antifreeze protection down to -25C (-13F)		

DOCUMENTATION

LANGUAGE SELECTION

NOTE: This part number will provide the language for Messenger and Statement of Conformity.

L	386-1254	**LANGUAGE, ENGLISH**	0	**NC**
L	386-5928	**LANGUAGE, SPANISH**	0	**NC**

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

DOCUMENTATION (CONT.)

DECAL PACKAGES

NOTE:This part number will provide the films in ANSI or ISO Pictograms
The word "WARNING" is on picto decals for ANSI.
Symbols only are on picto decals for ISO.

P	**516-2552**	**DECALS, ENGLISH (US)**	0	**NC**
		Provides decals as required by ANSI.		

USE	REF NO.	LANE 2 / 3 OPTIONAL	Ship Weight lbs	LIST PRICE AT DEALER

FEATURE PACKAGES

HEADLIGHT PACKAGES

Cannot mix halogen and LED light packages.

L	519-3700	**LOW BAR, HALOGEN, TANDEM**	0	$640
		Provides halogen low bar headlights with front turn signals, dimmer Switch for road lighting REQUIRES: 562-3742 ROADING LIGHTS W/FOLD DOWN ARM ONLY FOR USE WITH: 515-2449 140-13A MOTOR GRADER		
P	558-5819	**LOW BAR, LED, TANDEM**	0	$1,365
		FOR USE IN LANE 3 ONLY Provides LED low bar headlights with front turn signals, dimmer Switch for road lighting REQUIRES: 562-3742 ROADING LIGHTS W/FOLD DOWN ARM ONLY FOR USE WITH: 515-2449 140-13A MOTOR GRADER		
P	519-3702	**HIGH BAR, HALOGEN, TANDEM**	0	$640
		Provides halogen high bar headlights with front turn signals, dimmer switch for road lighting REQUIRES: 562-3742 ROADING LIGHTS W/FOLD DOWN ARM ONLY FOR USE WITH: 515-2449 140-13A MOTOR GRADER		
P	558-5820	**HIGH BAR, LED, TANDEM**	0	$1,365
		FOR USE IN LANE 3 ONLY Provides LED high bar headlights with front turn signals, dimmer switch for road lighting REQUIRES: 562-3742 ROADING LIGHTS W/FOLD DOWN ARM ONLY FOR USE WITH: 515-2449 140-13A MOTOR GRADER		
P	519-3705	**LOW BAR, HALOGEN, AWD**	0	$640
		Provides halogen low bar headlights with front turn signals, dimmer switch for road lighting REQUIRES: 562-3742 ROADING LIGHTS W/FOLD DOWN ARM ONLY FOR USE WITH: 515-8361 140-13A AWD MOTOR GRADER		
P	558-5822	**LOW BAR, LED, AWD**	0	$1,365
		FOR USE IN LANE 3 ONLY Provides LED low bar headlights with front turn signals, dimmer switch for road lighting REQUIRES: 562-3742 ROADING LIGHTS W/FOLD DOWN ARM ONLY FOR USE WITH: 515-8361 140-13A AWD MOTOR GRADER		
P	519-3706	**HIGH BAR, HALOGEN, AWD**	0	$640
		Provides halogen high bar headlights with front turn signals, dimmer switch for road lighting REQUIRES: 562-3742 ROADING LIGHTS W/FOLD DOWN ARM ONLY FOR USE WITH: 515-8361 140-13A AWD MOTOR GRADER		
P	558-5823	**HIGH BAR, LED, AWD**	0	$1,365
		FOR USE IN LANE 3 ONLY Provides LED high bar headlights with front turn signals, dimmer switch for road lighting REQUIRES: 562-3742 ROADING LIGHTS W/FOLD DOWN ARM ONLY FOR USE WITH: 515-8361 140-13A AWD MOTOR GRADER		

WORK LIGHT PACKAGES

Cannot mix halogen and LED light packages.

P	522-6533	**LIGHTS, WORK BASIC, HALOGEN**	0	$770
		INCLUDES: - Lights, Halogen, Heel - Lights, Halogen, Midframe Toe - Switch, Work Lighting		

USE	REF NO.	LANE 2 / 3 OPTIONAL	Ship Weight lbs	LIST PRICE AT DEALER

FEATURE PACKAGES (CONT.)

WORK LIGHT PACKAGES (Cont.)

P	522-6557	**LIGHTS, WORK PLUS, HALOGEN**	0	$1,035
		INCLUDES: - Lights, Ripper - Lights, Work, Heel - Lights, Work, Midframe Toe - Switch, Work Lighting		
P	563-2272	**LIGHTS, WORK PLUS, LED**	0	$2,590
		INCLUDES: - Lights, LED, Ripper, - Lights, LED, Heel - Lights, LED, Midframe Toe - Switch, Work Lighting		
P	501-4740	**LIGHTS, SNOW, HALOGEN**	0	$306
		INCLUDES: - Light, Halogen, Right Hand, Top of Cab		
P	553-2591	**LIGHTS, SNOW, LED**	0	$720
		INCLUDES: - Light, LED, Right Hand, Top of Cab		

CAB LIGHT PACKAGES

Cannot mix halogen and LED light packages.

P	501-4739	**LIGHTS, CAB ROOF, HALOGEN**	0	NC
		INCLUDES: - 4 Front Facing Lights - 2 Rear Facing Lights		
P	558-6474	**LIGHTS, CAB ROOF, LED**	0	$1,245
		INCLUDES: - 4 Front Facing Lights - 2 Rear Facing Lights		

OTHER OPTIONAL ATTACHMENTS

Bluetooth radio technology enables the use of a hands free function such as listening to music and making phone calls.
Authorization varies by country, please contact your Cat marketing representative with questions or click on the link below:
https://dealer.cat.com/en/products/technology.html

P	518-3017	**WARNING STROBE**	0	$565
		Amber high-speed strobe beacon.		
P	524-1765	**TRANSMISSION, AUTOSHIFT**	0	$3,205
		Improves ease of operation and maximizes productivity by automatically shifting the transmission at optimal shift points.		
P	521-3250	**KIT, CIRCLE SAVER**	0	$238
		Circle Drive Injector Grease that helps the pinion to maintain its lubrication caused by lack of grease in this component.		
P	524-1768	**CAMERA, REAR VISION**	0	$2,535
		Provides a 115 degree color camera mounted on the rear of the hood that is connected to a 7 inch (178mm) LCD color display mounted in the cab which shows the view behind the machine.		
P	518-3026	**RADIO, AM/FM, USB/BLUETOOTH**	0	$580
		Radio with AM/FM, Bluetooth, and USB		

USE	REF NO.	LANE 2 / 3 OPTIONAL	Ship Weight lbs	LIST PRICE AT DEALER

FEATURE PACKAGES (CONT.)

OTHER OPTIONAL ATTACHMENTS (Cont.)

P	524-3110	**MIRROR, EXTERNAL, ISO** . . . . . FOR USE IN LANE 3 ONLY Includes extra mirror with small curvature to broader views and reflect wider range, to meet ISO 5006.	0	$495

TECHNOLOGY PRODUCTS

P	524-1769	**STABLE BLADE** . . . . . Provides sensor and software to automatically reduce engine speed in various applications to reduce machine bounce and scalloping of surface.	0	$2,470
P	548-9540	**CAT GRADE, BASE KIT** . . . . . INCLUDES: - Radio Cable - Converter - Bracket - Display Mount	0	$3,010

GUARDS

P	522-2419	**GUARD, TRANSMISSION** . . . . . Provides a steel guard to protect the transmission from ground debris.	0	$3,400
P	527-5569	**GUARD, AXLE HOSE, AWD** . . . . . Provides additional protection to the front axle cylinders, lines, and fittings. NOT recommended for use with tire chains ONLY FOR USE WITH: 515-8361 140-13AAWD MOTOR GRADER	0	$1,075
P	506-4000	**FENDERS, REAR** . . . . . Provides non-metallic rear fenders to aid in reducing the build-up of mud, snow, or debris. Rear fenders are compatible with all MG tire sizes offered by the factory. NOT recommended for use with tire chains.	0	$5,030
P	449-7700	**FENDERS, FRONT** . . . . . Non-metallic front fenders aid in reducing the build-up of mud, snow, or debris. Front fenders are compatible with all Non-AWD tire sizes offered by the factory. NOT recommended for use with tire chains CANNOT BE USED WITH: MID MOUNT SCARIFIER PACKAGE CANNOT BE USED WITH: GUARD, AXLE HOSE ONLY FOR USE WITH: 515-8361 140-13AAWD MOTOR GRADER	0	$3,795
P	522-2402	**COVERS, UNDER CAB** . . . . . Under cab protection for Electronic Control Module	0	$715

OTHER ATTACHMENTS

STARTING AIDS

L	249-5516	**HEATER, ENGINE COOLANT, 120V** . . . . . Engine coolant heater for 120 volt external power source.	3	$245

USE	REF NO.	LANE 2 / 3 OPTIONAL	Ship Weight lbs	LIST PRICE AT DEALER

WORK TOOLS

P	336-1559	**PUSH PLATE, COUNTERWEIGHT**	2,000	$4,010
		Front mounted. Recommended when machine is equipped with rear ripper/scarifier and other rear mounted attachments. NOTE: This cannot be used in conjunction with counterweight, any front lift work tools,or the 'installed' hydraulic front lift. It can be used with a not installed hydraulic front lift CANNOT BE USED WITH: 367-6880 COUNTERWEIGHT 312-2204 LIFT GROUP, MANUAL FRONT		
L	367-6880	**COUNTERWEIGHT**	885	$3,200
		Front mounted.Recommended when machine is not equipped with front or rear mounted work tool attachments to provide additional blade performance capability. NOTE:This cannot be used in conjunction with push plate, mid mount scarifier,front lift work tools,or the 'installed' hydraulic front lift. It can be used with a not installed hydraulic front lift NOT RECOMMENDED FOR USE WITH: RIPPER-SCARIFIER, REAR CANNOT BE USED WITH: 336-1559 PUSHPLATE, COUNTERWEIGHT 533-0077 LIFT GROUP, MANUAL FRONT		
P	533-0077	**LIFT GROUP, MANUAL**	0	$11,030
		Front hydraulic lift without any work tool attached. NOTE: This Front Lift Group has manual locking pins. (The Installed Manual Lift Group can be attached to the machine at the sametime as the mounting for the mid-mount scarifier, but not the actual scarifier itself). NOTE: A Not-Installed Manual Lift Group can be ordered with an INSTALLED Push Plate or Counterweight. The not-installed lift group will be skidded, banded and shipped with the unit. REQUIRES: 359-3925 MOUNTING, FRONT LIFT and 524-8991 BASE+2 (RIP,FL) or 524-8992 BASE+ 3 (RIP, MMS, FL) or 524-8993 BASE+ 3 (RIP,MMS,FL) ARO or 563-2341 BASE+4 (RIP,FL,WM,WT) or 524-8995 BASE+4 (RIP,FL,WM,WT) ARO or 524-8997 BASE+5 (RIP,FL,WM,WT,DA1) CANNOT BE USED WITH: 336-1559 PUSH PLATE, COUNTERWEIGHT 367-6880 COUNTERWEIGHT 339-7733 MID MOUNT SCARIFIER, BRACKET		
L	359-3925	**LIFT GROUP, FRONT MOUNTING**	10	$442
		Two mounting plates welded to both sides of the front frame for factory or future installation of Front Lift. REQUIRED BY: 533-0077 LIFT GROUP, MANUAL, FRONT		
P	516-3994	**LINES, RIPPER, ADDITIONAL**	0	$426
		For use with rear mounted auxiliary functions. Provides two hydraulic hoses with one end bundled at the rear of the machine and the other end bundled at the rear valve bank in front of the cab. CANNOT BE USED WITH: 524-8998 HYDRAULICS BASE		
P	180-1679	**MOUNT, SNOW WING, FRAME READY**	200	$1,975
		INCLUDES: - Snow Wing Mounting Plate - Attachment Point for Lower Mast Brace - Attachment Point for Upper Mast Brace		

USE	REF NO.	LANE 2 / 3 OPTIONAL	Ship Weight lbs	LIST PRICE AT DEALER

WORK TOOLS (CONT.)

P	339-7733	**MID MOUNT SCARIFIER, BRACKET**	70	$545
		Brackets welded to front frame for future installation of midmount scarifier. NOTE: This is the mounting only and does not include the scarifier.		
P	523-4579	**MID MOUNT SCARIFIER PACKAGE**	0	$16,290
		INCLUDES: - Mid-mount Scarifier, V-Type with 11 Teeth - MOUNT, MID-MOUNT SCARIFIER ONLY FOR USE WITH: 524-8992 BASE + 3 (RIP, MMS, FBL) or 524-8993 BASE+3(RIP,MMS,FL)ACCUGRD+FLT CANNOT BE USED WITH: ANY FRONT LIFT GROUP		

GROUND ENGAGING TOOLS

P	8J-1434	**TOOTH, STRAIGHT**	67	$805
		NOT INSTALLED option is only for use with Miscellaneous orders Ripper tooth group for rear ripper. Includes one straight shank with ripper tooth. Recommended order quantity of 2 ONLY FOR USE WITH: 515-4649 RIPPER/SCARIFIER		
P	4K-3330	**SHANKS/TEETH, RIPPER/SCARIFIER**	152	$1,404
		Nine shanks for ripper and scarifier combination. Utilizes the scarifier shank positions on a ripper and scarifier combination. Will work with a midmount scarifier ONLY FOR USE WITH: 515-4649 RIPPER/SCARIFIER		

FIELD INSTALLED ATTACHMENTS

Available Through Parts Distribution

Reference numbers below are kits used to upgrade existing motor graders with new features or technology

	442-8145	**KIT, ACCUMULATOR, BLADE LIFT**	
		Provides hydraulic lines for base functions and accumulators for the blade lift. Allows approximately 1-3" of vertical blade travel to reduce impact loads. Nitrogen/oil accumulators activated by electric switch. Estimated install Hours: 8 Special Instructions: REHS4230	
	466-5233	**KIT, EXTENSIONS, MIRROR HEATED**	
		9" extension from Current Mirror, adds 2 additional mirrors 1 for front visibility and 1 rear visibility. Heated to keep free of ice and snow in cold weather Estimated install Hours: 2	
	466-5255	**KIT, EXTENSIONS, MIRROR STD**	
		9" extension from Current Mirror, adds 2 additional mirrors, 1 for front visibility and 1 rear visibility Estimated install Hours: 2	
	250-0615	**EXTENSION,BLADE,24" LH**	
		24" x 24" x 7/8" - Left Hand Blade Extension Kit for use with 12 ft. and 14 ft. Basic Moldboards. Estimated install Hours: 1.5	

USE	REF NO.	LANE 2 / 3 OPTIONAL	Ship Weight lbs	LIST PRICE AT DEALER

FIELD INSTALLED ATTACHMENTS (CONT.)

110-5327 **EXTENSION,BLADE,24" LH**
24" x 27" x 1" - Left Hand Blade Extension Kit for use with 14 ft. Plus Moldboard.
Estimated install Hours: 1.5

524-8605 **EXTENSION, BLADE, 24" RH**
24" x 24" x 7/8" - Right Hand Blade Extension Kit for use with 12 ft. and 14 ft. Basic Moldboards.
Estimated install Hours: 1.5

524-8606 **EXTENSION, BLADE, 24" RH**
24" x 27" x 1" - Right Hand Blade Extension Kit for use with 14 ft. Plus Moldboard.
Estimated install Hours: 1.5

524-8607 **KIT, SPARE RIM**
14" x 25" MP Spare Rim
Estimated install Hours: 0.5

524-8609 **KIT, SPARE RIM**
10" x 24" MP Spare Rim
Estimated install Hours: 0.5

488-2192 **KIT, CIRCLE SAVER**
Circle Saver
Estimated install Hours: 0.5
Special Instructions: REHS4230

434-1086 **KIT, FENDERS, FRONT**
AWD Front Fender Kit

515-2225 **DRAIN, ENGINE OIL, HIGH SPEED**

533-1551 **KIT, FINISH GRADE RDY, STD DCM**
Provides all critical drawbar, circle, and moldboard wear parts to restore -factory tightness- to aid in maintaining a quality finish with less passes.

543-0052 **KIT,GRADE RDY,TOP ADJUST DCM**
Provides all critical drawbar, circle, and moldboard wear parts required to restore -factory tightness- to aid in maintaining a quality surface finish with less passes.

ALTERNATE SOURCED ATTACHMENTS

Pricing and compatibility available through the Caterpillar Work Tools Price List (WT-MG) for Motor Grader Work Tools.

Please also reference Snow Products for Cat Motor Graders and Cat Medium Wheel Loaders (GEJQ0361).

ANGLE SNOW BLADES

W **567-2725** **BLADE, ANGLE SNOW, MANUAL**
40" x 132"
1.5" Pin

W **524-6855** **BLADE, ANGLE SNOW, MANUAL**
40" x 132"
1.5" Pin

USE	REF NO.	LANE 2 / 3 OPTIONAL	Ship Weight lbs	LIST PRICE AT DEALER

ALTERNATE SOURCED ATTACHMENTS (CONT.)

ANGLE SNOW BLADES (Cont.)

W 567-2727 BLADE, ANGLE SNOW, TRIP EDGE
1.5" Pin

STRAIGHT BLADES

W 524-6868 BLD 112 STRAIGHT 1.5HPL
40" x 112"
1.5" Pin

LIFT GROUPS

W 568-6277 LIFT GROUP, HYDRAULIC
Hydraulic locking pins (includes diverter valve to actuate hydraulic locking pins)
1.5" Pin

W 533-0077 LIFT GROUP, MANUAL
1.5" Pin

FRONT SCARIFIERS

W 212-6232 SCARIFIER, FRONT V-TYPE 1.5HPL
INCLUDES: 5 teeth

W 212-6231 SCARIFIER, FRONT V-TYPE 1.5HPL
INCLUDES: 11 teeth

ONE-WAY PLOWS

W 230-7097 PLOW, 144 ONE-WAY SNOW
HEIGHT: 67"(1702mm)
1.5" Pin

V PLOWS

W 524-6838 BLD 104 V-PLOW
HEIGHT: 69" (1748MM)
1.5" Pin

W 230-7098 BLD 117 V-PLOW 1.5HPL
HEIGHT: 82"(2083mm)
1.5" Pin

W 524-6740 BLD 2.7M V-PLOW
HEIGHT: 71" (1803MM)
1.5" Pin

U/V ANGLE BLADES

W 567-2728 BLD 120- U/V ANGLE
HEIGHT: 40" (1016mm)
1.5" Pin

W 567-2729 BLD 144- U/V ANGLE
HEIGHT: 40" (1016mm)
1.5" Pin

W 567-6830 BLD 156- U/V ANGLE
HEIGHT: 40" (1016mm)
1.5" Pin

USE	REF NO.	LANE 2 / 3 OPTIONAL	Ship Weight lbs	LIST PRICE AT DEALER

ALTERNATE SOURCED ATTACHMENTS (CONT.)

MASTED SNOW WINGS

W	567-2737	**REAR BRACE, HYDRAULIC,ADJ WING** 144" Moldboard	
W	567-2738	**REAR BRACE, HYDRAULIC,ADJ WING** 168" Moldboard	
W	567-2739	**REAR BRACE, MANUAL, ADJ WING** 144" Moldboard	
W	567-2740	**REAR BRACE, MANUAL, ADJ WING** 168" Moldboard	
W	258-7961	**RIPPER HEIGHT ADJUSTMENT WING** 144" Moldboard	
W	258-7962	**RIPPER HEIGHT ADJUSTMENT WING** 168" Moldboard	

MASTLESS SNOW WINGS

W	567-2733	**MASTLESS,MANUAL PUSH POLE WING** Ripper Mounted	
W	567-2735	**MASTLESS,MANUAL PUSH POLE WING** Bumper Mounted	
W	567-2731	**MASTLESS,HYD PUSH POLE WING** Ripper Mounted	
W	567-2732	**MASTLESS,HYD PUSH POLE WING** Bumper Mounted	

INSTRUCTIONS

EXPOSITION INSTRUCTION

0P-2949	**EXPOSITION INSTRUCTION**	0	**NC**
	This special instruction must be selected whenever dealer is placing an order for a unit intended for use at expositions and/or trade fairs.		

PACKING

EXPORT PACKING

0P-2265	**ROLL ON-ROLL OFF**	0	**$304 NET**
	Machine is driveable with nothing removed.		
0P-2962	**SHIPPING TIRE FREIGHT OPTION**	0	**NC**
	This 0P is required when the machine is ordered with the Shipping Tire This insures the correct trailer is used for shipment preventing This is informational only and there is no additional charge. REQUIRED BY: TIRES, 17.5 SHIPPING, MP TIRES, 14.0 SHIPPING, MP		

ATTACHMENT PACKING

0P-6706	**BUNDLE EXPORT PACKING**	0	**NC**
	This OP should be ordered for miscellaneous orders		

USE	REF NO.	LANE 2 / 3 OPTIONAL	Ship Weight lbs	LIST PRICE AT DEALER

PACKING (CONT.)

PACKING STAIRS

0P-6588	**REMOVE PACK LEFT SIDE STAIRS**	0	**NC**
	REQUIRED BY: 449-7700 FENDERS FRONT and 526-7045 MOLDBOARD, 14' BASIC or 439-9110 MOLDBOARD, 14' PLUS		

140M3 MOTOR GRADER
PIRACICABA, BRAZIL

	Ship Weight lbs	LIST PRICE AT DEALER

Standard Equipment:

POWERTRAIN

Air cleaner, dual stage dry type radial seal with service indicator and automatic dust ejector
Air-to-air after cooler (ATAAC)
Belt, serpentine, automatic tensioner
Brakes, oil disc, four-wheel, hydraulic
Demand fan, hydraulic
Differential, lock/unlock, Automatic
Drain, engine oil, ecology
Electronic over-speed protection
Engine:
-C9 with ACERT technology, diesel with automatic engine derate and idle control. EPA/ARB Tier 4 Final & EU stage
-IV certified Engine & Aftertreatment
Parking brake, multi-disc, sealed and oil cooled.
Sediment drain, fuel tank.
Tandem drive
Transmission, 8 speed forward and 6 speed reverse, power shift, direct drive
VHP Plus (Variable Horse Power Plus)

ELECTRICAL

Alarm, back-up
Alternator, 150 ampere, sealed
Batteries, maintenance free, heavy duty, 1125 CCA
Breaker panel, ground accessible
Electrical hydraulic valves
Electrical system, 24V
Grade control ready (Cab harness, software, electrical hydraulic valves, bosses and brackets)
Lights, reversing
Lights, roading, roof-mounted, stop and tail, LED
Starter, electric

OPERATOR ENVIRONMENT

Air Conditioning with heater
Articulation, automatic return to center
Centershift pin indicator
Display, digital speed and gear
Doors, left and right side with wiper
Gauge, machine level
Gauges (analog) inside the cab (includes fuel, articulation, engine coolant temp, engine RPM, and hydraulic oil temp, DEF/AdBlue)
Joystick, adjustable armrests
Joystick gear selection, hydraulic power steering hydraulic controls (right/left, blade lift w/ float position, blade sideshift and tip, circle drive, centershift, front wheel lean and articulation and steering)
Lights, night time cab
Messenger operator information system
Meter, hour, digital
Mirror, inside rearview, wide angle
Power Port, 12V
Radio Ready, Entertainment
ROPS cab, sound suppressed 69dB(A) - ISO 6394
Seat,cloth-covered, comfort suspension
Storage area for cooler/lunchbox
Throttle control, electronic
Windows laminated glass:
-Fixed front with intermittent wiper
-Door with intermittent wipers (3)
Windows tempered:
-Left and right side wipers
-Rear with intermittent wiper
Cab storage

SAFETY AND SECURITY

Clutch, circle drive slip
Doors, 2 engine compartment, (two left hand, two right hand) locking
Doors, 2 service, left and right locking
Ground level engine shutdown
Hammer (emergency exit)
Horn, electric
Lockout, hydraulic implement (for roading and servicing)
Seat belt, retractable 76.2 (3")
Secondary steering
Tandem walkway/guards

TIRES, RIMS, AND WHEELS

A partial allowance for tires on 254mm x 609.6mm (10" x 24") multi-piece rims is included in the base machine price and weight.

FLUIDS

Antifreeze
Extended life coolant -35C/-30F

OTHER STANDARD EQUIPMENT

Accumulators -brake -dual certified
Drawbar,6 shoe w/replaceable wear strips
Fluid check, ground level
Fuel tank, 398 liters (105 gallon)
Ground level fueling
DEF/AdBlue Tank, 21 liters (5.5 gallon)

140M3 MOTOR GRADER
PIRACICABA, BRAZIL

	Ship Weight lbs	LIST PRICE AT DEALER

OTHER STANDARD EQUIPMENT (CONT.)

Hydraulic lines for base functions
Pump, hydrailic, high capacity
(98cc / 15 cu in)
Radiator, cleanout access
(both sides with swing doors)
SOS ports - engine -hydraulic
-transmission -coolant -fuel
Tandem walkway/guards
Tool box
Debris guard

140M3 MOTOR GRADER
PIRACICABA, BRAZIL

	Ship Weight lbs	LIST PRICE AT DEALER

Lane 2 is reserved for the Base Order Management Program.
Please use Lane 2 when placing orders that are part of the Base Order Management Program.

140M3 MOTOR GRADER PIRACICABA, BRAZIL		Ship Weight lbs	LIST PRICE AT DEALER
539-2725	**140M3 MOTOR GRADER FTO1**	0	**$413,220**
	LANE 1 - AVAILABLE FROM PIRACICABA FTO CENTER		
	INCLUDES: 384-8605 140M3 MOTOR GRADER 385-9554 CAB, PLUS (STANDARD GLASS) 385-8095 BASE + 2 (FL,RIP) 397-7457 CAB, PLUS (INTERIOR) 462-7928 INSTALLATION, ACCUGRADE READY 359-3925 MOUNTING, FRONT LIFT 396-3921 CAMERA, REAR VISION 323-6970 GUARD GP, HITCH 324-5328 DRAIN, GRAVITY, ENGINE OIL 536-9969 LIGHTS, ARM, FOLD DOWN 395-1967 LIGHTS, WORKING, PLUS 458-8701 JOYSTICK CONTROLS, ADVANCED 380-6774 PRECLEANER, NON SY-KLONE 394-3874 CANADIAN ARRANGEMENT 394-1492 SEAT BELT 394-3945 STARTER, ELECTRIC, HEAVY DUTY 362-9442 ACCUMULATORS, BLADE LIFT CN 394-4521 COLD WEATHER PACKAGE 349-3048 MOLDBOARD, 14' PLUS 540-2373 TANK, FUEL, STANDARD		
	NOTE: Please refer to the Lane 1 section to complete your order		
384-8605	**140M3 MOTOR GRADER**	37,911	**$383,840**
	LANE 2 - AVAILABLE FROM PIRACICABA FACTORY LANE 3 - AVAILABLE FROM PIRACICABA FACTORY		
0P-2979	**140M3 MISC MATL**	0	**NC**
	AVAILABLE FROM PIRACICABA FACTORY		
	Only reference numbers that have the text "ALSO AVAILABLE ON A MISCELLANEOUS ORDER" can be used on a MISC order.		

USE	REF NO.	LANE 1 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

LANE 1 AM-NORTH MANDATORY ATTACHMENTS

LANE SELECTION

	0P-9001	LANE 1 ORDER	0	NC

PERFORMANCE PACKAGES

WORK TOOLS

L	393-4882	NO HITCH	0	NC
L	324-0889	RIPPER/SCARIFIER Hydraulic, rear mounted ripper with three straight ripper shanks and teeth. Can accommodate two additional ripper shanks or nine scarifier teeth which must be ordered separately. REQUIRES: A hydraulics control part number that has a ripper function. INCLUDES: Ripper Mounting	2,120	$20,380

ELECTRICAL

ROADING LIGHTS

L	421-7810	LIGHTS, ROADING, HALOGEN Provides six halogen cab roof mounted roading lights.	0	NC

TECHNOLOGY PRODUCTS

PRODUCT LINK

Product Link enables the remote transmission of information about the location, operation, and condition of your equipment. Efficiently and effectively monitor performance of your assets to help keep your jobs on schedule, maintain equipment condition, and reduce the costs of owning and operating your fleet.
Availability varies by country, please contact your Cat marketing representative with questions or click on the link below:
HTTPS://DEALER.CAT.COM/en/bt/otd/machine-price-list.html
From there click on the 'PRODUCT LINK Hardware Certification" link

L	464-6804	PRODUCT LINK, SATELLITE PLE631 Product Link Elite series PLE631 uses a satellite network to transmit location, utilization and condition information for viewing in Product Link's remote monitoring web interface. For use in areas with poor or no cellular coverage.	29	$432
L	464-6442	PRODUCT LINK, CELLULAR PLE641 Product Link Elite series PLE641 offers expanded coverage including 3G UMTS and CDMA2000 as well as 2G GSM and CDMA cellular networks to transmit location, utilization and condition information f viewing in Product Link-s remote monitoring web interface. Cellular technology provides capabilities for frequent transmission and larger volumes of data.	29	NC

USE	REF NO.	LANE 1 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

LANE 1 AM-NORTH MANDATORY ATTACHMENTS (CONT.)

COOLING

COOLING FAN

L	542-4660	FAN, STANDARD Provides a hydraulically driven demand fan	0	NC

TIRES, RIMS, AND WHEELS

Tires listed below include a set of six tires.
****To calculate tire loads with machine attachments, please reference the MG Tire Selection Pocket Guide (media #AEXQ0182), available on the Electronic Sales Library.**
All tire selections should be made with consideration for planned machine attachments (OEM and aftermarket) and their additional weight. Each tire has a maximum load rating that is not to be exceeded. The tire selection should be based on the maximum of all tire position loads on the machine. Assistance for calculating the highest tire load can be found in the Tire Load Worksheet in the back of the Caterpillar Motor Graders Tire Selection Pocket Guide. Failure to abide by the load ratings of the tires without first consulting the local tire supplier representative could result in nullification of the tire warranty.

Due to industry-wide tire availability limitations, tire brand and type cannot be guaranteed. Every effort will be made to satisfy your tire choice, but we reserve the right to change to alternate tires. If the tire brand cannot be supplied, the dealer will be contacted to propose alternative tire options. The dealer will need to respond with an alternative tire selection within 72 hours. If no response is provided by the supplier, the order will default to a comparable tire. As a consequence of a tire change the total machine price will be decreased or increased relative

Bridgestone

L	252-0775	TIRES, 17.5R25 BS VKT * D2A MP Bridgestone VKT 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**	1,810	$13,450

FLUIDS

COOLANT ANTIFREEZE

L	469-8157	COOLANT, 50/50, -35C (-31F) Standard engine coolant	0	NC
L	469-8160	COOLANT, 60/40, -51C (-60F) Engine coolant recommended for extreme low temperatures	0	$245 NET

USE	REF NO.	LANE 1 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

LANE 1 AM-NORTH MANDATORY ATTACHMENTS (CONT.)

FLUIDS (Cont.)

CAB ANTIFREEZE

	0P-1939	ANTIFREEZE WINDSHIELD WASHER	0	NC
		For use with machines with cab.		

FUEL ANTIFREEZE

	0P-3978	FUEL ANTIFREEZE, -25C (-13F)	0	NC
		Provides fuel (diesel) antifreeze protection down to -45C (-50F)		

DOCUMENTATION

LANGUAGE SELECTION
NOTE: This part number will provide the language for Messenger and Statement of Conformity

L	386-1254	LANGUAGE, ENGLISH	0	NC
L	386-5929	LANGUAGE, FRENCH	0	NC
L	386-5945	LANGUAGE, ENGLISH W/SYMBOLS	0	NC

DECAL PACKAGES
NOTE: This part number will provide the films in ANSI or ISO
The word "WARNING" is on picto decals for ANSI.
Symbols only are on picto decals for ISO.

L	442-9940	DECALS, ENGLISH (U.S.)	0	NC
		Provides decals as required by ANSI.		
L	442-9942	DECALS, PICTOGRAPH (ISO)	0	NC
		Provides decals as required by ISO.		

USE	REF NO.	LANE 1 OPTIONAL	Ship Weight lbs	LIST PRICE AT DEALER

LANE 1 AM-NORTH OPTIONAL ATTACHMENTS

FEATURE PACKAGES

OTHER OPTIONAL ATTACHMENTS

L	380-3070	**LIGHTS, SERVICE, INTERNAL**	5	$193
		Provides two lights operated by a single manual switch located in the rear enclosure. One light illuminates the engine compartment and the second light illuminates the hydraulic level sight gauge.		

ELECTRICAL

FRONT HEADLIGHTS

L	308-9370	**HEADLIGHTS,FRONT, LOW, HALOGEN**	0	$640
		Provides low bar headlights with front turn signals. CANNOT BE USED WITH: 396-1966 SNOW ARRANGEMENT REQUIRED BY: 526-2563 EUROPEAN ARRANGEMENT or 394-3871 EUROPEAN AR. W/ROADING (TUV) or 536-9969 LIGHTS, ARM, FOLD DOWN or 539-2725 140M3 MOTOR GRADER FTO1		
L	308-9371	**HEADLIGHTS,FRONT, HIGH,HALOGEN**	0	$640
		Provides HIGH bar headlights with front turn signals. INCLUDED IN: 396-1966 SNOW ARRANGEMENT REQUIRED BY: 526-2563 EUROPEAN ARRANGEMENT or 394-3871 EUROPEAN AR. W/ROADING (TUV) or 536-9969 LIGHTS, ARM, FOLD DOWN or 539-2725 140M3 MOTOR GRADER FTO1		

OPERATOR ENVIRONMENT

MIRRORS

L	233-3295	**MIRRORS, OUTSIDE MOUNTED**	32	$495
		Provides two convex mirrors for outside mounting on the left and right cab grab irons. NOTE: The mirrors are wrapped in bubble wrap and rotated toward the doors for protection during shipment. CANNOT BE USED WITH: 386-1313 EUROPEAN ARRANGEMENT INCLUDED IN: 375-3407 PLATFORM, ENHANCED ACCESS		
L	344-0984	**MIRRORS, OUTSIDE HEATED 24V**	33	$670
		Provides mirrors with a 24V heating element to keep mirrors ice free in cold weather operations. NOTE: The mirrors are wrapped in bubble wrap and rotated toward the doors for protection during shipment.		

TECHNOLOGY PRODUCTS

L	458-2072	**STABLE BLADE**	3	$2,470
		Provides sensor and software to automatically reduce engine speed in various applications to reduce machine bounce and scalloping of surface.		

USE	REF NO.	LANE 1 OPTIONAL	Ship Weight lbs	LIST PRICE AT DEALER

LANE 1 AM-NORTH OPTIONAL ATTACHMENTS (CONT.)

TECHNOLOGY PRODUCTS (Cont.)

ACCUGRADE

P	540-1375	**SENSORS, CROSS SLOPE**	0	$6,230
		Allows the operator to manually control one end of the blade to match the curb or crown while automatically maintaining the desired slope of the blade. This system is used to maintain the crown of a gravel road or the shoulder of a road. Provides cab switches, software, harnesses for sensors, mounting for sensors and blade mast bracket. REQUIRES: 458-8701 JOYSTICK CONTROLS, ADVANCED		

CONTROL AUTO ARTICULATION

L	483-2354	**CONTROL,AUTO ARTICULATION-DEMO**	0	NC
		500 machine hour demo. Improves ease of operation, increases maneuverability and maximizes productivity by automatically matching articulation angle to steering angle. Includes 3 position rocker switch enabling 3 modes; off / forward / both forward and reverse.		
L	435-2072	**CONTROL,AUTO ARTICULATION-FULL**	0	$1,810
		Improves ease of operation, increases maneuverability and maximizes productivity by automatically matching articulation angle to steering angle. Includes 3 position rocker switch enabling 3 modes; off / forward / both forward and reverse.		

GUARDS

L	366-2459	**GUARD, TRANSMISSION**	310	$3,400
		Provides a steel guard to protect the transmission from ground debris. INCLUDED IN: EUROPEAN ARRANGEMENT EUROPEAN AR. W/ ROADING (TUV) REQUIRED BY: SOUND SUPRESSION (BOTTOM)		

OTHER ATTACHMENTS

STARTING AIDS

L	249-5516	**HEATER, ENGINE COOLANT, 120V**	3	$245
		Engine coolant heater for 120 volt external power source. REQUIRED BY: WEATHER, COLD PLUS		

USE	REF NO.	LANE 1 OPTIONAL	Ship Weight lbs	LIST PRICE AT DEALER

LANE 1 AM-NORTH OPTIONAL ATTACHMENTS (CONT.)

WORK TOOLS

L	367-6842	**PUSH PLATE, COUNTERWEIGHT**	2,822	$5,640
		Front mounted. Recommended when machine is equipped with rear ripper/scarifier and other rear mounted attachments. NOTE: This cannot be used in conjunction with counterweight, any front lift work tools,or the 'installed' hydraulic front lift. It can be used with a not installed hydraulic front lift CANNOT BE USED WITH: COUNTERWEIGHT CANNOT BE USED WITH: LIFT GROUP, MANUAL, FRONT (Installed) CANNOT BE USED WITH: FRONT BLADE PACKAGE		

GROUND ENGAGING TOOLS

P	8J-1434	**TOOTH, STRAIGHT**	67	$805
		Ripper tooth group for rear ripper. Includes one straight shank with ripper tooth. Recommended order quantity of 2 ONLY FOR USE WITH: RIPPER/SCARIFIER		
P	4K-3330	**SHANKS/TEETH, RIPPER/SCARIFIER**	152	$1,404
		Nine shanks for ripper and scarifier combination. Utilizes the scarifier shank positions on a ripper and scarifier combination. Will work with a midmount scarifier ONLY FOR USE WITH: RIPPER/SCARIFIER		

PACKING

	0P-2265	**ROLL ON-ROLL OFF**	0	$304 NET
		Machine is driveable with nothing removed. For sound testing purposes, European units with European arrangements must be ordered in Ro-Ro Configuration. (Cab or canopy remains mounted.)		

SPECIAL INSTRUCTIONS

	0P-2949	**EXPOSITION INSTRUCTION**	0	NC
		This special instruction must be selected whenever dealer is placing an order for a unit intended for use at expositions and/or trade fairs		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

LANE SELECTION

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	0P-9002	**LANE 2 ORDER**	0	NC
		Only for dealers enrolled in the Base Orders Management (BOM) program.		
	0P-9003	**LANE 3 ORDER**	0	NC

REGIONAL PACKAGES

REGIONAL PACKAGES

L	385-9294	**GLOBAL ARRANGEMENT**	0	NC
		Provides standard brake accumulators. For use in temperatures above -18C		
		CANNOT BE USED WITH: WEATHER, COLD PLUS		
L	385-9297	**GLOBAL ARRANGEMENT,LOW AMBIENT**	0	NC
		Provides brake accumulators for low ambient temperatures below -18C		
		CANNOT BE USED WITH: EU dealers		
		WEATHER, STANDARD		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

PERFORMANCE PACKAGES

MOLDBOARDS

L	349-3046	**MOLDBOARD, 12'**	0	NC
		FOR USE IN LANE 3 ONLY INCLUDES: - Moldboard 12' x 24" x 7/8" (3658mm x 610mm x 22mm) - Curved Cutting Edge, 6" X 5/8" (152mm x 16mm) - End Bits, Standard, Without Overlay		
L	349-3047	**MOLDBOARD, 14' BASIC**	347	$1,140
		INCLUDES: - Moldboard 14' x 24" x 7/8" (4267mm x 610mm x 22mm) - Curved Cutting Edge, 8" x 3/4" (203mm x 19mm) - End Bits, Standard, Without Overlay		
L	349-3048	**MOLDBOARD, 14' PLUS**	650	$2,710
		INCLUDES: - Moldboard 14' x 27" x 1" (4267mm x 686mm x 25mm) - Curved Cutting Edge, 8" x 3/4" (203mm x 19mm) - End Bits, Standard, With Overlay		

WORK TOOLS

L	393-4882	**NO HITCH**	0	NC
L	337-7510	**HITCH, TOWING**	0	$540
L	324-0889	**RIPPER/SCARIFIER**	2,120	$20,380
		Hydraulic, rear mounted ripper with three straight ripper shanks. Can accommodate two additional ripper shanks and nine scarifier teeth which must be ordered separately. REQUIRES: A hydraulics control part number that has a ripper function. INCLUDES: Ripper Mounting		
L	539-6894	**RIPPER, SNOW WING READY**	0	$23,830
		FOR USE IN LANE 3 ONLY Hydraulic, rear mounted ripper with three straight ripper shanks. Includes the mount for the Caterpillar Mastless Snow Wing on the right side of the ripper backplate. Can accommodate two additional ripper shanks, nine scarifier teeth, and the Caterpillar Mastless Snow wing which must be ordered separately. CANNOT BE USED WITH: Legacy Snow Wings		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

PERFORMANCE PACKAGES (CONT.)

WEATHER PACKAGES

L	353-3316	**WEATHER, STANDARD**	0	NC
		Recommended for year around use when typical ambient temperature range is 0C (32F) to 43C (110F) and operating at altitude below 1220 m (4000 feet). INCLUDES: - Batteries, Heavy Duty - 1125 CCA - Oil, Hydraulic, 10W FOR USE WITH: GLOBAL ARRANGEMENT FOR USE WITH: EUROPEAN ARRANGEMENT FOR USE WITH: EUROPEAN AR. W/ ROADING (TUV) CANNOT BE USED WITH: GLOBAL ARRANGEMENT,LOW AMBIENT		
L	394-4521	**COLD WEATHER PACKAGE**	0	$760
		Recommended for year around use when typical ambient temperature range is -18C (0F) to 43C (110F) and operating at altitude below 1220 m (4000 feet). INCLUDES: - Starting Aid, Ether - Batteries, Extreme Duty -1400 CCA - Oil, Hydraulic, 10W ONLY FOR USE WITH: GLOBAL ARRANGEMENT GLOBAL ARRANGEMENT,LOW AMBIENT EUROPEAN ARRANGEMENT EUROPEAN AR. W/ ROADING (TUV) CANADIAN ARRANGEMENT		
L	394-4522	**COLD WEATHER PLUS PACKAGE**	38	$3,005
		Recommended for year around use when typical ambient temperature range is -40C (-40F) to 40C (104F) or operating at altitude above 1220 m (4000 feet). INCLUDES: - Starting Aid, Ether - Cold Start; Transmission oil and fan brake bypass - Batteries, Extreme Duty -1400 CCA - Oil, Hydraulic, Cold, 0W REQUIRES: HEATER, ENGINE COOLANT, 120V or HEATER, ENGINE COOLANT, 240V REQUIRED BY: SNOW ARRANGEMENT FOR USE WITH: GLOBAL ARRANGEMENT,LOW AMBIENT FOR USE WITH: CANADIAN ARRANGEMENT FOR USE WITH: EUROPEAN ARRANGEMENT FOR USE WITH: EUROPEAN AR. W/ ROADING (TUV) CANNOT BE USED WITH: GLOBAL ARRANGEMENT		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER
		PERFORMANCE PACKAGES (CONT.)		
		ACCUMULATORS		
L	305-2927	**LINES,STANDARD W/O ACCUMULATOR**	0	NC
		Provides hydraulic lines for base functions		
L	358-9338	**ACCUMULATORS, BLADE LIFT**	170	$4,665
		Provides hydraulic lines for base functions and accumulators for the blade lift. Allows approximately 1-3" of vertical blade travel to reduce impact loads. Nitrogen/oil accumulators activated by electric switch.		
		CANNOT BE USED WITH: Canadian Dealers.		
		PRECLEANER		
L	380-6774	**PRECLEANER, NON SY-KLONE**	0	NC
		Includes dust ejector for medium to heavy dust environments.		
L	380-6775	**PRECLEANER, SY-KLONE**	5	$750
		Recommended for environments with large debris (leaves, chips, large grass, etc.)		
		POWERTRAIN		
		OIL CHANGE		
L	324-5328	**DRAIN, GRAVITY, ENGINE OIL**	0	NC
		Standard engine oil drain		
L	501-1163	**DRAIN, HIGH SPEED, ENGINE OIL**	0	$286
		High speed engine oil drain. Requires pump at service location to be attached to coupling receiver for high speed flow. HSO drain can also manual/gravity drain.		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS

NOTE: Optional Control Locations

Caterpillar offers many attachment hydraulic controls to operate work tools. Depending on which hydraulic part number is selected, the operating electro-hydraulic switches may include the auxiliary pod, mini-joystick located on the auxiliary pod, and/or the ripper control pod.

NOTE: Auxiliary controls that can have float

Auxiliary Pod Controls

```
INDEX = Index Finger (front lift)(float capability)
MID = Middle Finger(dozer angle 1)
RING = Ring Finger (dozer angle 2)
LITTLE= Little Finger (float capability)
```

NOTE: Mini-Joystick

```
 Fore/Aft
     .
    / \
     |
<--------->  Left/Right (float capability)
     |
    \ /
     .
```

NOTE: Ripper Control Pod

```
RH1   =  Front Lift (float capability)
RH2   =  Ripper-Scarifier Control
RHD   =  Ripper Handle Dual Switch (RH1 & RH2)
```

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

NOTE: Common Functions

COMMON FUNCTIONS:

Base = 8 functions: right and left blade lift, circle turn, drawbar center shift, blade side shift, blade tip, front wheel lean, frame articulation.

```
     FL      = Front Lift (moves front work tools up/down)
     DA1     = Dozer Angle 1 (angles front blade left OR right)
     DA2     = Dozer Angle 2 (angles front blade left AND right)
     RIP     = Rear Mounted Ripper (moves ripper up/down)
     MMS     = Mid-Mounted Scarifier
     WM      = Wing Mast
     WT      = Wing Tilt
     Float   = Built-in feature of valve section that opens both the
               work ports to tank. The external forces (weight of the
               work ports to tank. The external forces (weight of the
                implement) allows free movement of the implement.
     Flow Rate=Provides maximum rate of fluid flow from the specific
                work port.  B/A represents the maximum flow rate in
                Port B/Port A* in LPM (liters per minute).
                Port B/Port A* in LPM (liters per minute).

 *NOTE: Each valve section has two work ports (Port A and Port B).
     Port A:  Used to either raise implement or move implement to the
     right or for clockwise rotation of the implement.
     Port B:  Used to either lower implement or move implement to the
     left or for counter-clockwise rotation of the implement.
```

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

HYDRAULIC VALVE LOCATIONS

This illustration shows the factory installed switch location for each function by hydraulic part number.

Part Number	MINI-JOYSTICK Front Aft	MINI-JOYSTICK Left/ Right Float	MINI-JOYSTICK Index with Float	AUXILIARY POD Mid	AUXILIARY POD Ring	AUXILIARY POD Little	RIPPER POD RHD RH1	RIPPER POD RHD RH2
242-5056								
385-8094								RIPPER
Float:								N
Flow rate:								49/49
354-4113								MID-MOUNT SCARIFIER
Float:								Y
Flow Rate:								25/36
309-9848							FR.LIFT	
Float:							Y	
Flow Rate:							46/60	
385-8095							FR.LIFT	RIPPER
Float:							Y	N
Flow rate:							46/60	49/49
395-2008	MAST	TILT	FR.LIFT					
Float:	N	N	Y					
Flow rate:	72/72	41/30	46/60					
385-8096			FR.LIFT	DA1				RIPPER
Float:			Y	N				N
Flow rate:			46/60	72/72				49/49
385-8099	MAST	TILT	FR.LIFT					RIPPER
Float:	N	Y	Y					N
Flow rate:	72/72	74/86	46/60					49/49
385-8100	MAST	TILT	FR.LIFT					RIPPER
Float:	N	N	Y					N
Flow rate:	72/72	41/30	46/60					49/49
395-2009	MAST	TILT	FR.LIFT	DA1	MID-MOUNT SCARIFIER			
Float:	N	N	Y	N	N			
Flow rate:	72/72	41/30	46/60	72/72	25/36			

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

HYDRAULIC VALVE LOCATIONS LANE 3 ONLY

Part Number	MINI-JOYSTICK Front Aft	MINI-JOYSTICK Left/ Right Float	AUXILIARY POD Index with Float	AUXILIARY POD Mid	AUXILIARY POD Ring	AUXILIARY POD Little	RIPPER POD RH1	RIPPER POD RH2
385-8097			FR.LIFT				MID-MOUNT SCARIFIER	RIPPER
Float:			Y				N	N
Flow rate:			46/60				25/36	49/49
385-8101	MAST	TILT	FR.LIFT	DA1				RIPPER
Float:	N	N	Y	N				N
Flow rate:	72/72	41/30	46/60	72/72				49/49
385-8103	MAST	TILT	FR.LIFT	DA1	DA2			RIPPER
Float:	N	N	Y	N	N			N
Flow rate:	72/72	41/30	46/60	72/72	72/72			49/49
481-8610	MAST	TILT	FR.LIFT	DA1	DA2			RIPPER
Float:	N	N	Y	N	N			N
Flow rate:	72/72	74/86	46/60	72/72	72/72			49/49

HYDRAULIC VALVE PART NUMBERS

L **242-5056** **HYDRAULICS, BASE** . . . . . 0 **NC**
Base hydraulic system includes machine articulation, wheel lean, left and right blade lift with independent float, drawbar centershift, circle drive, blade sideshift and tip.

L **385-8094** **BASE + 1 (RIP)**. 21 **$2,300**
Ripper function. Includes the Ripper Lines.
ONLY FOR USE WITH: RIPPER-SCARIFIER, REAR

L **354-4113** **BASE + 1 (MMS)** 21 **$2,300**
FOR USE IN LANE 3 ONLY
Mid-Mount Scarifier function. Includes the Mid-Mount Scarifier Lines.
ONLY FOR USE WITH: MID MOUNT SCARIFIER PACKAGE

L **309-9848** **BASE + 1 (FL)**. 18 **$1,890**
Front Lift function. Includes the Front Lift Lines.
ONLY FOR USE WITH: LIFT GROUP, MANUAL, FRONT or FRONT BLADE PACKAGE

L **385-8095** **BASE + 2 (FL,RIP)** 37 **$4,085**
Ripper and Front Lift functions. Includes the Front Lift Lines and Ripper Lines.
ONLY FOR USE WITH: RIPPER-SCARIFIER, REAR and LIFT GROUP, MANUAL, FRONT or FRONT BLADE PACKAGE

L **395-2008** **BASE + 3 (WM,WT-NOFLOAT,FL)** 60 **$6,540**
Front Lift, Snow Wing Mast, and Snow Wing Tilt
ONLY FOR USE WITH: SNOW ARRANGEMENT and LIFT GROUP, MANUAL, FRONT or FRONT BLADE PACKAGE

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

HYDRAULIC VALVE PART NUMBERS (Cont.)

L	385-8096	**BASE + 3 (FL,DA1,RIP)**	67	$7,460
		FOR USE IN LANE 3 ONLY Ripper, Front Lift and Angle functions. Includes the Front Lift Lines Dozer Angle 1 Lines, and Ripper Lines. ONLY FOR USE WITH: RIPPER-SCARIFIER, REAR and LIFT GROUP, MANUAL, FRONT or FRONT BLADE PACKAGE		
L	385-8099	**BASE + 4 (WM,WT-FLOAT,FL,RIP)**	85	$8,960
		Ripper, Front Lift, Snow Wing Mast and Snow Wing Tilt (74/86 with float) functions. Includes the Front Lift Lines and Ripper Lines. ONLY FOR USE WITH: SNOW ARRANGEMENT and RIPPER-SCARIFIER, REAR and LIFT GROUP, MANUAL, FRONT or FRONT BLADE PACKAGE		
L	385-8100	**BASE + 4 (WM,WT,FL,RIP) NOFLT**	85	$8,700
		FOR USE IN LANE 3 ONLY Ripper, Front Lift, Snow Wing Mast and Snow Wing Tilt (41/30 - No Float) functions. Includes the Front Lift Lines and Ripper Lines. ONLY FOR USE WITH: SNOW ARRANGEMENT and RIPPER-SCARIFIER, REAR and LIFT GROUP, MANUAL, FRONT or FRONT BLADE PACKAGE		
L	395-2009	**BASE + 5 (WM,WT,DA1,FL,MMS)**	120	$10,790
		FOR USE IN LANE 3 ONLY Snow Wing Mast, Snow Wing Tilt (41/30 - No Float) functions, Dozer Angle 1, Front LIFT, and Mid-Mount Scarifier Includes the Front Lift Lines, Angle 1 Lines, and Mid-Mount Scarifier Lines. ONLY FOR USE WITH: SNOW ARRANGEMENT and RIPPER-SCARIFIER, REAR and LIFT GROUP, MANUAL, FRONT or FRONT BLADE PACKAGE		
L	385-8097	**BASE+3 (RIP, MMS, FL)**	67	$7,460
		FOR USE IN LANE 3 ONLY Front Lift, Ripper and Mid-Mount Scarifier functions. Includes the Front Lift Lines, Ripper Lines and Mid-Mount Scarifier Lines. ONLY FOR USE WITH: RIPPER-SCARIFIER, REAR and MID MOUNT SCARIFIER PACKAGE and LIFT GROUP, MANUAL, FRONT or FRONT BLADE PACKAGE		
L	385-8101	**BASE + 5 (WM,WT,DA1,FL,RIP)**	120	$10,790
		FOR USE IN LANE 3 ONLY Snow Wing Mast, Snow Wing Tilt (41/30 - No Float) functions, Dozer Angle 1, Front LIFT, and Ripper. Includes the Front Lift Lines, Angle 1 Lines, and Ripper Lines. ONLY FOR USE WITH: SNOW ARRANGEMENT and MOUNT, SNOW WING, FRAME READY and RIPPER-SCARIFIER, REAR and LIFT GROUP, MANUAL, FRONT or FRONT BLADE PACKAGE		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

HYDRAULIC VALVE PART NUMBERS (Cont.)

L	385-8103	**BASE + 6(WM,WT,DA1,DA2,FL,RIP)**	130	$13,350
		FOR USE IN LANE 3 ONLY Ripper, Dozer Angle 1, Dozer Angle 2, Front Lift, Snow Wing Mast and Snow Wing Tilt (41/30 - No Float) functions. Includes the Front Lift Lines, Dozer Angle 2 Lines and Ripper Lines. ONLY FOR USE WITH: SNOW ARRANGEMENT and MOUNT, SNOW WING, FRAME READY and RIPPER-SCARIFIER, REAR and LIFT GROUP, MANUAL, FRONT or FRONT BLADE PACKAGE		
L	481-8610	**BASE+6(WM,WT+F,DA1,DA2,FL,RIP)**	130	$13,620
		FOR USE IN LANE 3 ONLY Ripper, Dozer Angle 1, Dozer Angle 2, Front Lift, Snow Wing Mast and Snow Wing Tilt (72/72 + Float) functions. Includes the Front Lift Lines, Dozer Angle 2 Lines and Ripper Lines. ONLY FOR USE WITH: SNOW ARRANGEMENT and MOUNT, SNOW WING, FRAME READY and RIPPER-SCARIFIER, REAR and LIFT GROUP, MANUAL, FRONT or FRONT BLADE PACKAGE		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

STARTERS, BATTERIES, & ALTERNATORS

STARTER ARRANGMENT

L	394-3945	**STARTER, ELECTRIC, HEAVY DUTY**	0	NC
		Provides a 715 Amp. starter		
L	395-3547	**STARTER, ELEC, EXTREME DUTY**	21	$408
		Recommended for Cold weather applications		
		Provides a 1000 Amp. starter		

ELECTRICAL

BRAKE LIGHTS

L	331-6793	**LIGHTS, BRAKE AND BACK-UP**	0	NC
		FOR USE IN LANE 3 ONLY		
		Provides stationary rear brake lights along with the back-up lights.		
		Does not include front headlights or turn signals		
		CANNOT BE USED WITH: 526-2563 EUROPEAN ARRANGEMENT		
		394-3871 EUROPEAN AR. W/ ROADING (TUV)		
		396-1966 SNOW ARRANGEMENT		
		553-2588 HEADLIGHTS, FRONT, LOW, LED		
		553-2589 HEADLIGHTS, FRONT, HIGH, LED		
		308-9370 HEADLIGHTS,FRONT, LOW, HALOGEN		
		308-9371 HEADLIGHTS,FRONT, HIGH,HALOGEN		
L	536-9969	**LIGHTS, ARM, FOLD DOWN**	0	$1,875
		Provides stationary rear brake lights along with the back-up lights, dimmer switch for road lighting, drop-down stop, tail, and rear turn signals and back-up lights.		
		REQUIRES: 553-2588 HEADLIGHTS, FRONT, LOW, LED or		
		553-2589 HEADLIGHTS, FRONT, HIGH, LED or		
		308-9370 HEADLIGHTS,FRONT, LOW, HALOGEN or		
		308-9371 HEADLIGHTS,FRONT, HIGH,HALOGEN		
		INCLUDED IN: 396-1966 SNOW ARRANGEMENT		

ROADING LIGHTS

L	421-7810	**LIGHTS, ROADING, HALOGEN**	0	NC
		Provides six halogen cab roof mounted roading lights.		
L	550-6608	**LIGHTS, ROADING, LED**	0	$1,245
		Provides six LED cab roof mounted roading lights.		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

OPERATOR ENVIRONMENT

CAB EXTERIOR

L	385-9553	**CAB, BASE (STANDARD GLASS)**	0	NC
		FOR USE IN LANE 3 ONLY INCLUDES: - 150 amp alternator - Standard Glass CANNOT BE USED WITH: SNOW ARRANGEMENT EUROPEAN ARRANGEMENT EUROPEAN AR. W/ ROADING (TUV)		
L	385-9554	**CAB, PLUS (STANDARD GLASS)**	35	$1,105
		INCLUDES: - 150 amp alternator - Wiper/washer, rear - Standard Glass		
L	385-9555	**CAB, PLUS (ANTI-ICING GLASS)**	35	$6,630
		FOR USE IN LANE 3 ONLY INCLUDES: - 270 amp alternator - Wiper/washer, rear - Front glass and RH door glass are heated.		

CAB INTERIOR

Bluetooth radio technology enables the use of a hands free function such as listening to music and making phone calls.
Authorization varies by country, please contact your Cat marketing representative with questions or click on the link below:
https://dealer.cat.com/en/products/technology.html

L	397-7456	**CAB, BASE (INTERIOR)**	0	NC
		FOR USE IN LANE 3 ONLY INCLUDES: - Seat, mechanical suspension, cloth - Shade, Sun CANNOT BE USED WITH: SNOW ARRANGEMENT EUROPEAN ARRANGEMENT EUROPEAN AR. W/ ROADINGG (TUV)		
L	397-7457	**CAB, PLUS (INTERIOR)**	45	$3,010
		INCLUDES: - Seat, Air Suspension, Cloth, Heated - Radio,12V, AM/FM, Weatherband, Bluetooth, USB, Aux Input - Fan, defroster, rear window - Converter, Communication (CB) - Shade, Sun		
L	397-7458	**CAB, PREMIUM (INTERIOR)**	80	$4,580
		- Seat, air suspension, cloth; Heated, Ventilated - Radio,12V, AM/FM CD/MP3 Bluetooth, Weatherband, USB, Aux Input XM/Sirius Satellite (439-1564) - Fan, defroster, rear window - Converter, Communication (CB) - Shade, Sun *Recommended for Snow Removal		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

OPERATOR ENVIRONMENT (CONT.)

SEAT BELT

L	394-1492	**SEAT BELT**	0	NC
		Standard 3 inch seat belt		
L	394-1132	**SEAT BELT W/INDICATOR**	5	$193
		Standard 3 inch seat belt with indicator located on display panel		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

TECHNOLOGY PRODUCTS

PRODUCT LINK

Product Link enables the remote transmission of information about the location, operation, and condition of your equipment. Efficiently and effectively monitor performance of your assets to help keep your jobs on schedule, maintain equipment condition, and reduce the costs of owning and operating your fleet.

Availability varies by country, please contact your Cat marketing representative with questions or click on the link below:
HTTPS://DEALER.CAT.COM/en/bt/otd/machine-price-list.html
From there click on the 'PRODUCT LINK Hardware Certification" link.

L	464-6804	**PRODUCT LINK, SATELLITE PLE631**	29	**$432**
		Product Link Elite series PLE631 uses a satellite network to transmit location, utilization and condition information for viewing in Product Link's remote monitoring web interface. For use in areas with poor or no cellular coverage. Includes Network Manager.		
L	464-6442	**PRODUCT LINK, CELLULAR PLE641**	29	**NC**
		Product Link Elite series PLE641 offers expanded coverage including 3G UMTS and CDMA2000 as well as 2G GSM and CDMA cellular networks to transmit location, utilization and condition information for viewing in Product Link-s remote monitoring web interface. Cellulartechnology provides capabilities for frequent transmission and larger volumes of data.		

ACCUGRADE

L	362-5222	**NO ACCUGRADE**.	0	**NC**
L	462-7928	**INSTALLATION, ACCUGRADE READY**	90	**$4,830**
		Allows the Motor Grader to be equipped with either a Cross Slope, Sonic, Laser, GPS, or ATS electronics kit. Provides software, harnesses for sensors, mounting for sensors and blade mast bracket.		

NOTE: Highly recommended to select Advanced Joystick Controls. This will Allow for complete configuration and control when using 3 party grade control systems

L	462-7929	**GRADE CONTROL X SLOPE**	165	**$11,060**
		Allows the operator to manually control one end of the blade to match the curb or crown while automatically maintaining the desired slope of the blade. This system is used to maintain the crown of a gravel road or the shoulder of a road. Provides cab switches, software, harnesses for sensors, mounting for sensors and blade mast bracket. Accugrade Ready is included in this option REQUIRES: JOYSTICK CONTROLS, ADVANCED		

MOTOR GRADER CONTROLS

L	357-9151	**JOYSTICK CONTROLS, BASIC**	6	**NC**
		Standard joystick controls.		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

TECHNOLOGY PRODUCTS (CONT.)

MOTOR GRADER CONTROLS (Cont.)

L	458-8701	**JOYSTICK CONTROLS, ADVANCED**	8	$2,030
		Provides enhanced functionality while using ACCUGRADE READY or GRADE CONTROL X SLOPE INCLUDES: - Advanced Joysticks - Harness - Films REQUIRED BY: GRADE CONTROL X SLOPE. RECOMMENDED FOR USE WITH: ACCUGRADE READY INCLUDED IN: 492-3594 CONTROLS, PERFORMANCE BUNDLE		

FUEL SYSTEMS

L	540-2373	**TANK, FUEL, STANDARD**	0	NC
		Standard Fuel 105 gallon (398 L)		
L	553-3677	**TANK, FUEL, FAST FILL**	0	$1,410
		Fuel tank is ready to accept fast fill 100 gpm nozzle. Tank capacity is 105 gallons (398 L)		

COOLING

COOLING FAN

L	542-4660	**FAN, STANDARD**	0	NC
		Provides a hydraulically driven demand fan		
L	542-4661	**FAN, REVERSING**	0	$3,105
		Provides a hydraulically driven demand fan that can reverse direction to prevent debris build up on the cooling package and engine enclosure. Includes automatic and manual controls for airflow reversal. Recommended for applications with a high content of airborne debris.		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

TIRES, RIMS, AND WHEELS

Tires listed below include a set of six tires.
****To calculate tire loads with machine attachments, please reference the MG Tire Selection Pocket Guide (media #AEXQ0182), available on the Electronic Sales Library.**
All tire selections should be made with consideration for planned machine attachments (OEM and aftermarket) and their additional weight. Each tire has a maximum load rating that is not to be exceeded. The tire selection should be based on the maximum of all tire position loads on the machine. Assistance for calculating the highest tire load can be found in the Tire Load Worksheet in the back of the Caterpillar Motor Graders Tire Selection Pocket Guide. Failure to abide by the load ratings of the tires without first consulting the local tire supplier representative could result in nullification of the tire warranty.

Due to industry-wide tire availability limitations, tire brand and type cannot be guaranteed. Every effort will be made to satisfy your tire choice, but we reserve the right to change to alternate tires. If the tire brand cannot be supplied, the dealer will be contacted to propose alternative tire options. The dealer will need to respond with an alternative tire selection within 72 hours. If no response is provided by the supplier, the order will default to a comparable tire. As a consequence of a tire change the total machine price will be decreased or increased relative to the price of the new tire selection.

The information provided can be used to make a tire selection based on the particular conditions at the site. When available, the tire manufacturer should be consulted regarding proper tire selection.

Application specific

L	515-5399	**TIRES,14.0R24 SOIL TRACTION MP**	0	$5,970
		Tire group received will be one of the tire groups listed below: - Bridgestone VKT 1* on 10" x 24" multi-piece rims. - Michelin XGLA2 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	515-5400	**TIRES,17.5R25 SOIL TRACTION MP**	0	$12,450
		Tire group received will be one of the tire groups listed below: - Bridgestone VKT 1* on 14" x 25" multi-piece rims. - Michelin XTLA 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

TIRES, RIMS, AND WHEELS (CONT.)

Goodyear

L	310-7325	**TIRE, 17.5R25 GY RL2+6S 1*SP**	100	$20,590
		Goodyear RL2+ 6S on 13" x 25" multi-piece rims THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	310-7326	**TIRE, 17.5R25 GY RL2+6S 1*MP**	1,200	$20,290
		Goodyear RL2+ 6S on 14" x 25" multi-piece rims THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		

Bridgestone

L	252-0714	**TIRES, 14.0 R24 BS VKT * G2**	1,540	$6,970
		FOR USE IN LANE 3 ONLY Bridgestone VKT 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	252-0720	**TIRES, 14.0R24 BS VUT * L2 MP**	1,012	$7,250
		FOR USE IN LANE 3 ONLY Bridgestone VUT 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	252-0775	**TIRES, 17.5R25 BS VKT * D2A MP**	1,810	$13,450
		Bridgestone VKT 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	252-0708	**TIRES, 14.0R24 BS VSW * G2 MP**	1,481	$13,320
		Bridgestone VSW 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	310-7331	**TIRES, 17.5R25 BS VSW * G2 MP**	1,888	$18,590
		Bridgestone VSW 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		

Firestone

L	252-0731	**TIRES, 17.5-25 FS SGG 12PR MP**	1,007	$2,730
		Firestone SGG 12PR on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (6393 lbs) 2900 kg.**		
L	252-0753	**TIRES, 17.5-25 FS SRG 12PR MP**	1,061	$6,240
		Firestone SRG LD 12PR bias (L3) on 14" multi-piece rim. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (6393 lbs) 2900 kg.**		

Michelin

L	252-0679	**TIRES,14.0R24 MX XGLA2 * G2 MP**	1,069	$10,860
		Michelin XGLA2 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (7824 lbs) 3550 kg.**		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

TIRES, RIMS, AND WHEELS (CONT.)

Michelin (Cont.)

L	252-0701	**TIRES,14.0R24 MX XSNO+ * G2 MP.**	1,282	**$14,890**
		FOR USE IN LANE 3 ONLY Michelin XSNO 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (7824 lbs) 3550 kg.**		
L	252-0777	**TIRES,17.5R25 MX XSNO+ * G2 MP.**	1,093	**$20,490**
		FOR USE IN LANE 3 ONLY Michelin XSNO+ 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	252-0771	**TIRES, 17.5R25 MX XTLA * L2 MP**	1,371	**$16,110**
		FOR USE IN LANE 2 ONLY Michelin XTLA 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	254-7904	**TIRES,14.0R24 MX XGLA2 * G2 SP**	709	**$7,290**
		Michelin XGLA 1* on 9" x 24" single piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (7824 lbs) 3550 kg.**		
L	254-7971	**TIRES, 17.5R25 MX XTLA * L2 SP**	979	**$11,910**
		FOR USE IN LANE 2 ONLY Michelin XTLA 1* on 13" x 25" single piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		

SHIPPING TIRES

L	440-3433	**TIRES, 17.5 SHIPPING, MP**	274	**$2,250**
		FOR USE WITH LANE 3 ONLY Shipping tire for use during shipment of machine only. Solid rubber band mounted on 14" x 25" multi-piece rims. Must be replaced with pneumatic tire before delivering to customer		
L	448-5577	**TIRES, 14.0 SHIPPING, MP**	90	**$2,000**
		FOR USE IN LANE 3 ONLY Shipping tire for use during shipment of machine only. Solid rubber band mounted on 10" x 24" multi-piece rims. Must be replaced with pneumatic tire before delivering to customer.		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER
		GUARDS		
		Guards		
L	323-6970	**GUARD GP, HITCH**	25	NC
		Standard bottom plate just rear of articulation hitch		
L	368-6239	**ARTICULATION GUARD.**	30	$1,260
		Provides protection for the articulation rods from snow, dirt and		
		Highly recommended for snow removal applications, or below freezing		
		CANNOT BE USED WITH : SOUND SUPRESSION (BOTTOM)		
		CANNOT BE USED WITH: EUROPEAN ARRANGEMENT		
		FLUIDS		
		COOLANT ANTIFREEZE		
L	469-8157	**COOLANT, 50/50, -35C (-31F)**	0	NC
		Standard engine coolant		
L	469-8160	**COOLANT, 60/40, -51C (-60F)**	0	$245 NET
		Engine coolant recommended for extreme low temperatures		
		CAB ANTIFREEZE		
	0P-1939	**ANTIFREEZE WINDSHIELD WASHER**	0	NC
		For use with machines with cab.		
		FUEL ANTIFREEZE		
	0P-3978	**FUEL ANTIFREEZE, -25C (-13F)**	0	NC
		Provides fuel (diesel) antifreeze protection down to -25C (-13F)		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

DOCUMENTATION

LANGUAGE SELECTION

NOTE: This part number will provide the language for Messenger and Statement of Conformity

L	**386-1254**	**LANGUAGE, ENGLISH**	0	**NC**

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

DOCUMENTATION (CONT.)

DECAL PACKAGES

NOTE: This part number will provide the films in ANSI or ISO
The word "WARNING" is on picto decals for ANSI.
Symbols only are on picto decals for ISO.

L	**442-9940**	**DECALS, ENGLISH (U.S.)** . . . . . 0 Provides decals as required by ANSI.		**NC**

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

FEATURE PACKAGES

REGIONAL OPTIONAL PACKAGES

L	396-1966	**SNOW ARRANGEMENT**	355	$6,460

INCLUDES:
361-3137 MOUNTING, WARNING LIGHT
396-3515 TRANSMISSION, AUTOSHIFT
536-9969 LIGHTS, ARM, FOLD DOWN
RECOMMENDED: MIRRORS, OUTSIDE HEATED
REQUIRES: 395-3547 STARTER, ELEC, EXTREME DUTY or
395-3745 STARTER, ELEC, EXTRM DUTY(TUV) and
394-4524 COLD WEATHER PLUS PACKAGE AWD and
385-9554 CAB, PLUS (STANDARD GLASS) or
385-9555 CAB, PLUS (ANTI-ICING GLASS) or
397-7457 CAB, PLUS (INTERIOR) or
397-7458 CAB, PREMIUM (INTERIOR) and
395-2008 BASE + 3 (WM, WT-NOFLOAT, FL) or
385-8099 BASE + 4 (WM, WT-FLOAT, FL, RIP) or
385-8100 BASE + 4 (WM, WT, FL, RIP) NOFLT or
395-2009 BASE + 5 (WM, WT, DA1, FL, MMS) or
385-8101 BASE + 5 (WM, WT, DA1, FL, RIP) or
385-8103 BASE + 6 (WM, WT, DA1, DA2, FL, RIP) or
481-8610 BASE + 6 (WM, WT+F, DA1, DA2, FL, RIP) and
390-9182 MOUNT,SNOW WING,FRAME RDY HAL or
551-6546 MOUNT,SNOW WING,FRAME RDY LED and
395-1967 LIGHTS, WORKING, PLUS, HALOGEN or
552-7285 LIGHTS, WORKING, PLUS, LED and
553-2589 HEADLIGHTS, FRONT, HIGH, LED or
308-9371 HEADLIGHTS,FRONT, HIGH,HALOGEN

WORK TOOL PACKAGES

L	358-9341	**MID MOUNT SCARIFIER PACKAGE**	2,076	$16,290

FOR USE IN LANE 3 ONLY
INCLUDES:
- Mid-mount Scarifier, V-Type with 11 Teeth
- MOUNT, MID-MOUNT SCARIFIER
CANNOT BE USED WITH: Any Front Lift group
CANNOT BE USED WITH: FENDERS, FRONT, NON-AWD

L	390-9182	**MOUNT,SNOW WING,FRAME RDY HAL**	251	$2,295

INCLUDES:
- Snow Wing Mount
- Light, halogen Snow Wing, Right Hand
REQUIRED BY: SNOW ARRANGEMENT

L	551-6546	**MOUNT,SNOW WING,FRAME RDY LED**	0	$2,710

INCLUDES:
- Snow Wing Mount
- Light, LED Snow Wing, Right Hand
REQUIRED BY: SNOW ARRANGEMENT

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

FEATURE PACKAGES (CONT.)

WORK TOOL PACKAGES (Cont.)

L	351-5178	**FRONT BLADE PACKAGE**	2,612 2,612	**$11,510** **$11,400 NI**

FOR USE IN LANE 3 ONLY
ALSO AVAILABLE ON A MISCELLANEOUS ORDER
INCLUDES:
- Front Blade (Lift & Lower only)
- Lines for Front Blade

REQUIRES: A hydraulics control part number that has a Front Lift function.
CANNOT BE USED WITH: COUNTERWEIGHT
CANNOT BE USED WITH: PUSH PLATE
CANNOT BE USED WITH: LIFT GROUP, MANUAL, FRONT (Installed)
CANNOT BE USED WITH: LIFT GROUP, MANUAL, FRONT (NOT Installed)

LIGHTING PACKAGES

L	395-1966	**LIGHTS, WORKING, BASIC,HALOGEN**	19	**$770**

FOR USE IN LANE 3 ONLY
INCLUDES:
- Lights, halogen, Heel 3X3
- Lights, halogen, Midframe Toe 3X3
- Switch, Work Lighting

L	395-1967	**LIGHTS, WORKING, PLUS, HALOGEN**	22	**$1,035**

INCLUDES:
- Lights, halogen, ripper 3X3
- Lights, halogen, work, heel 3X3
- Lights, halogen, work, midframe toe 3X3
- Switch, Work Lighting

CANNOT BE USED WITH: LIGHTS, ROADING, LED MOUNT,SNOW WING,FRAME RDY LED
REQUIRED BY: SNOW ARRANGEMENT

L	552-7285	**LIGHTS, WORKING, PLUS, LED**	0	**$2,590**

INCLUDES:
- Lights, LED, ripper 3X3
- Lights, LED, work, heel 3X3
- Lights, LED, work, midframe toe 3X3
- Switch, work lighting

CANNOT BE USED WITH: LIGHTS, ROADING, HALOGEN MOUNT,SNOW WING,FRAME RDY HAL
REQUIRED BY: Snow Arrangement

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

FEATURE PACKAGES (CONT.)

OTHER OPTIONAL ATTACHMENTS

L	338-1132	**LIGHT, LED WARNING STROBE**	5	$565
		Amber high-speed strobe beacon. REQUIRES: MOUNTING, WARNING LIGHT		
L	361-3137	**MOUNTING, WARNING LIGHT**	10	$725
		Provides the bracket for warning beacon light INCLUDED IN: SNOW ARRANGEMENT		
L	396-3515	**TRANSMISSION, AUTOSHIFT**	5	$3,205
		Improves ease of operation and maximizes productivity by automatically shifting the transmission at optimal shift points. REQUIRED BY: EUROPEAN ARRANGEMENT REQUIRED BY: EUROPEAN AR. W/ ROADING (TUV) INCLUDED IN: SNOW ARRANGEMENT		
L	380-3070	**LIGHTS, SERVICE, INTERNAL**	5	$193
		Provides two lights operated by a single manual switch located in the rear enclosure. One light illuminates the engine compartment and the second light illuminates the hydraulic level sight gauge.		

ELECTRICAL

FRONT HEADLIGHTS

L	308-9370	**HEADLIGHTS,FRONT, LOW, HALOGEN**	0	$640
		Provides low bar headlights with front turn signals. REQUIRED BY: 526-2563 EUROPEAN ARRANGEMENT or 394-3871 EUROPEAN AR. W/ROADING (TUV) and 536-9969 LIGHTS, ARM, FOLD DOWN CANNOT BE USED WITH: 396-1966 SNOW ARRANGEMENT		
L	308-9371	**HEADLIGHTS,FRONT, HIGH,HALOGEN**	0	$640
		Provides HIGH bar headlights with front turn signals. REQUIRED BY: 526-2563 EUROPEAN ARRANGEMENT or 394-3871 EUROPEAN AR. W/ROADING (TUV) and 536-9969 LIGHTS, ARM, FOLD DOWN or 396-1966 SNOW ARRANGEMENT		
L	553-2588	**HEADLIGHTS, FRONT, LOW, LED**	0	$1,365
		Provides LOW bar LED headlights with front turn signals. CANNOT BE USED WITH: SNOW ARRANGEMENT ANY HALOGEN LIGHTING OPTION REQUIRED BY: LIGHTS,ARM, FOLD DOWN 526-2563 EUROPEAN ARRANGEMENT 394-3871 EUROPEAN AR. W/ROADING (TUV)		
L	553-2589	**HEADLIGHTS, FRONT, HIGH, LED**	0	$1,365
		Provides HIGH bar LED headlights with front turn signals. CANNOT BE USED WITH: ANY HALOGEN LIGHTING OPTION REQUIRED BY: LIGHTS,ARM, FOLD DOWN SNOW ARRANGEMENT 526-2563 EUROPEAN ARRANGEMENT 394-3871 EUROPEAN AR. W/ROADING (TUV)		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

OPERATOR ENVIRONMENT

CAMERA

L	396-3921	**CAMERA, REAR VISION**	15	$2,535
		Provides a 115 degree color camera mounted on the rear of the hood that is connected to a 7 inch (178mm) LCD color display mounted in the cab which shows the view behind the machine. CAN NOT BE USED WITH: EUROPEAN AR. W/ ROADING (TUV) NOTE* EUROPEAN AR. W/ ROADING (TUV) includes front and rear facing camera REQUIRED BY: 394-3755 EUROPEAN ARRANGEMENT		

MIRRORS

L	233-3295	**MIRRORS, OUTSIDE MOUNTED**	32	$495
		Provides two convex mirrors for outside mounting on the left and right cab grab irons. NOTE: The mirrors are wrapped in bubble wrap and rotated toward the doors for protection during shipment. REQUIRED BY: EUROPEAN ARRANGEMENT EUROPEAN AR. W/ ROADING (TUV)		
L	344-0984	**MIRRORS, OUTSIDE HEATED 24V**	33	$670
		Provides mirrors with a 24V heating element to keep mirrors ice free in cold weather operations. NOTE: The mirrors are wrapped in bubble wrap and rotated toward the doors for protection during shipment. REQUIRED BY: EUROPEAN ARRANGEMENT EUROPEAN AR. W/ ROADING (TUV)		

TECHNOLOGY PRODUCTS

TECHNOLOGY PRODUCTS

L	393-6335	**SECURITY SYSTEM, MACHINE**	10	$720
		Provides a programmable system to manage access to the machine using special MSS keys. Deters theft, vandalism, and unauthorized use. Programmable features allow the following: * limits operators to selected machines * controls the days and hours equipment may be started * controls access by untrained operators or personnel		
L	458-2072	**STABLE BLADE**	3	$2,470
		Provides sensor and software to automatically reduce engine speed in various applications to reduce machine bounce and scalloping of surface.		
L	492-3594	**CONTROLS, PERFORMANCE BUNDLE**	176	$15,560
		The Auto Articulation in this bundle is an unrestricted version, not limited to 500 hours. INCLUDES: 435-2072 CONTROL,AUTO ARTICULATION-FULL 458-2072 STABLE BLADE 458-8701 JOYSTICK CONTROLS, ADVANCED 462-7929 GRADE CONTROL X SLOPE		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

TECHNOLOGY PRODUCTS (CONT.)

CONTROL AUTO ARTICULATION

L	483-2354	**CONTROL,AUTO ARTICULATION-DEMO** . . . . . 500 machine hour demo. Improves ease of operation, increases maneuverability and maximizes productivity by automatically matching articulation angle to steering angle. Includes 3 position rocker switch enabling 3 modes; off / forward / both forward and reverse.	0	NC
L	435-2072	**CONTROL,AUTO ARTICULATION-FULL** . . . . . Improves ease of operation, increases maneuverability and maximizes productivity by automatically matching articulation angle to steering angle. Includes 3 position rocker switch enabling 3 modes; off / forward / both forward and reverse.	0	$1,810

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER
		GUARDS		
		GUARDS		
L	367-6905	**GUARD, AXLE HOSE**	15	$1,075
		FOR USE IN LANE 3 ONLY Provides additional protection to the front axle cylinders, lines, and fittings. *NOTE* NOT recommended for use with tire chains		
L	366-2459	**GUARD, TRANSMISSION**	310	$3,400
		Provides a steel guard to protect the transmission from ground debris. INCLUDED IN: EUROPEAN ARRANGEMENT INCLUDED IN: EUROPEAN AR. W/ ROADING (TUV) REQUIRED BY: SOUND SUPRESSION (BOTTOM)		
L	377-1602	**SOUND SUPPRESSION (BOTTOM)**	243	$2,095
		FOR USE IN LANE 3 ONLY Provides two metallic side panels on either side of the transmission guard, enclosing the rear of the machine. This option prevents debris from accumulating on top of the transmission guard and also suppresses sound to meet EU sound regulations. REQUIRES: GUARD, TRANSMISSION REQUIRES: GUARD GP, HITCH INCLUDED IN: EUROPEAN ARRANGEMENT INCLUDED IN: EUROPEAN AR. W/ ROADING (TUV) CANNOT BE USED WITH: ARTICULATION GUARD		
L	546-0262	**SOUND SUPPRESSION, ENGINE ENCL**	0	$1,540
		FOR USE IN LANE 3 ONLY Suppression panels in engine enclosure doors. INLCUDED IN: EUROPEAN ARRANGEMENT INCLUDED IN: EUROPEAN AR. W/ ROADING (TUV)		
L	308-7368	**FENDERS, FRONT, NON-AWD**	124	$4,130
		Non-metallic front fenders aid in reducing the build-up of mud, snow, or debris. Front fenders are compatible with all Non-AWD tire sizes offered by the factory. ** NOT RECOMMENDED FOR USE WITH TIRE CHAINS. CANNOT BE USED WITH: MID MOUNT SCARIFIER PACKAGE CANNOT BE USED WITH: GUARD, AXLE HOSE		
L	262-0413	**FENDERS, REAR**	344	$5,030
		Provides non-metallic rear fenders to aid in reducing the build-up of mud, snow, or debris. Rear fenders are compatible with all MG tire sizes offered by the factory. INCLUDED IN: EUROPEAN AR. W/ ROADING (TUV) ** NOT RECOMMENDED FOR USE WITH TIRE CHAINS.		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

OTHER ATTACHMENTS

STARTING AIDS

L	249-5516	**HEATER, ENGINE COOLANT, 120V**	3	$245
		Engine coolant heater for 120 volt external power source. REQUIRED BY: SNOW ARRANGEMENT		

WORK TOOLS

WORK TOOLS

L	360-5074	**MOUNT, MID-MOUNT SCARIFIER**	131	$1,520
		FOR USE IN LANE 3 ONLY Brackets welded to front frame for future installation of midmount scarifier. INCLUDED IN: SCARIFIER, MID-MOUNT V-TYPE NOTE: This is the mounting only and does not include the scarifier. RECOMMENDED: Hydraulics with a mid-mount scarifier (MMS) function NOTE: If you intend to purchase the mid-mounted scarifier, please note that the actual scarifier cannot be attached to the machine at same time as the Lift Group, Hydraulic, Front		
L	367-6880	**COUNTERWEIGHT**	885	$3,200
		FOR USE IN LANE 3 ONLY Front mounted.Recommended when machine is not equipped with front or rear mounted work tool attachments to provide additional blade performance capability. NOTE:This cannot be used in conjunction with push plate, front lift work tools,or the 'installed' hydraulic front lift. It can be used with a not installed hydraulic front lift NOT RECOMMENDED FOR USE WITH: RIPPER-SCARIFIER, REAR CANNOT BE USED WITH: PUSH PLATE CANNOT BE USED WITH: LIFT GROUP, MANUAL, FRONT (Installed) CANNOT BE USED WITH: FRONT BLADE PACKAGE		
L	367-6842	**PUSH PLATE, COUNTERWEIGHT**	2,822	$5,640
		Front mounted. Recommended when machine is equipped with rear ripper/scarifier and other rear mounted attachments. NOTE: This cannot be used in conjunction with counterweight, any front lift work tools,or the 'installed' hydraulic front lift. It can be used with a not installed hydraulic front lift CANNOT BE USED WITH: COUNTERWEIGHT CANNOT BE USED WITH: LIFT GROUP, MANUAL, FRONT (Installed) CANNOT BE USED WITH: FRONT BLADE PACKAGE		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

WORK TOOLS (CONT.)

WORK TOOLS (Cont.)

L	312-2204	**LIFT GROUP, MANUAL, FRONT**	1,500 1,500	**$11,030** **$11,030 NI**

FOR USE IN LANE 3 ONLY
ALSO AVAILABLE ON A MISCELLANEOUS ORDER
Front hydraulic lift without any work tool attached.
Note: This Front Lift Group has manual locking pins.

INSTALLED COMPATIBILITY:
REQUIRES: MOUNTING, FRONT LIFT
REQUIRES: Hydraulics control part number that has front lift (FL) function
REQUIRED, to use Front Scarifiers
CANNOT BE USED WITH: PUSH PLATE
CANNOT BE USED WITH: COUNTERWEIGHT
CANNOT BE USED WITH: MID MOUNT SCARIFIER PACKAGE
CANNOT BE USED WITH: FRONT BLADE PACKAGE

(The Installed Manual Lift Group can be attached to the machine at the sametime as the mounting for the mid-mount scarifier, but not the actual scarifier itself).

NOTE: A Not-Installed Manual Lift Group can be ordered with an INSTALLED Push Plate or Counterweight. The not-installed lift group will be skidded, banded and shipped with the unit.

NOT INSTALLED COMPATIBILITY:
CANNOT BE USED WITH: FRONT BLADE PACKAGE
REQUIRES: MOUNTING, FRONT LIFT
REQUIRES: Hydraulics control part number that has front lift (FL) function

L	359-3925	**LIFT GROUP, FRONT MOUNTING**	10	**$442**

Two mounting plates welded to both sides of the front frame for factory or future installation of Front Lift.
REQUIRED BY: LIFT GROUP, MANUAL, FRONT

L	387-8664	**LINES, RIPPER, ADDITIONAL**	8	**$426**

For use with rear mounted auxiliary functions. Provides two hydraulic hoses with one end bundled at the rear of the machine and the other end bundled at the rear valve bank in front of the cab.
REQUIRES: Ripper Function
FOR USE WITH: BASE + 1 (RIP)
FOR USE WITH: BASE + 2 (FL, RIP)
FOR USE WITH: BASE+3 (FL,DA1,RIP)
FOR USE WITH: BASE+4 (WM,WT-FLOAT,FL,RIP)
FOR USE WITH: BASE+4 (WM,WT,FL,RIP) NOFLT
FOR USE WITH: BASE+3 (FL,MMS,RIP)
FOR USE WITH: BASE+5 (WM,WT,DA1,FL,RIP)
FOR USE WITH: BASE+6 (WM,WT,DA1,DA2,FL,RIP)

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

GROUND ENGAGING TOOLS

GROUND ENGAGING TOOLS

P	8J-1434	**TOOTH, STRAIGHT**	67	**$805**
		Ripper tooth group for rear ripper. Includes one straight shank with ripper tooth. Recommended order quantity of 2 ONLY FOR USE WITH: RIPPER/SCARIFIER		
P	4K-3330	**SHANKS/TEETH, RIPPER/SCARIFIER**	152	**$1,404**
		Nine shanks for ripper and scarifier combination. Utilizes the scarifier shank positions on a ripper and scarifier combination. Will work with a midmount scarifier ONLY FOR USE WITH: RIPPER/SCARIFIER		

FIELD INSTALLED ATTACHMENTS

Please refer to the Caterpillar Work Tools Price List (WT-MG) for Motor Grader work tools.

Available Through Parts Distribution

Reference numbers below are kits used to upgrade existing motor with new features or technology

463-6258 **KIT, JOYSTICK,ADVANCED CONTROL**
Improves operational efficiency when utilizing ACCUGRADE or GRADE CONTROL X SLOPE.
Estimated install Hours: 2.5
Special Instructions: REHS8847

442-8145 **KIT, ACCUMULATOR, BLADE LIFT**
Provides hydraulic lines for base functions and accumulators for the blade lift. Allows approximately 1-3" of vertical blade travel to reduce impact loads. Nitrogen/oil accumulators activated by electric switch.
Estimated install Hours: 8
Special Instructions: REHS4230

466-5233 **KIT, EXTENSIONS, MIRROR HEATED**
9" extension from Current Mirror, adds 2 additional mirrors 1 for front visability and 1 rear visability. Heated to keep free of ice and snow in cold weather
Estimated install Hours: 2

466-5255 **KIT, EXTENSIONS, MIRROR STD**
9" extension from Current Mirror, adds 2 additional mirrors, 1 for front visability and 1 rear visability
Estimated install Hours: 2

524-8603 **KIT,LEFT HAND BLADE EXTENSION**
24" x 24" x 7/8" - Left Hand Blade Extension Kit for use with 12 ft. and 14 ft. Basic Moldboards.
Estimated install Hours: 1.5

524-8604 **KIT,LEFT HAND BLADE EXTENSION**
24" x 27" x 1" - Left Hand Blade Extension Kit for use with 14 ft. Plus Moldboard.
Estimated install Hours: 1.5

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

FIELD INSTALLED ATTACHMENTS (CONT.)

Available Through Parts Distribution (Cont.)

524-8605 EXTENSION, BLADE, 24" RH
24" x 24" x 7/8" - Right Hand Blade Extension Kit for use with
12 ft. and 14 ft. Basic Moldboards.
Estimated install Hours: 1.5

524-8606 EXTENSION, BLADE, 24" RH
24" x 27" x 1" - Right Hand Blade Extension Kit for use with
14 ft. Plus Moldboard.
Estimated install Hours: 1.5

524-8607 KIT, SPARE RIM
14" x 25" MP Spare Rim
Estimated install Hours: 0.5

524-8609 KIT, SPARE RIM
10" x 24" MP Spare Rim
Estimated install Hours: 0.5

488-2192 KIT, CIRCLE SAVER
Circle Saver
Estimated install Hours: 0.5
Special Instructions: REHS4230

415-3925 KIT, FENDERS, FRONT
12/140/160M3 Tandem Front Fender Kit

434-1065 KIT, FENDERS, REAR
12M3 & 140M3 Rear Fender Kit

380-3889 KIT, HEATED GLASS, RH DOOR
Right Hand Heated Door Glass
Special Instructions: REHS7154

380-3885 KIT, HEATED GLASS,WIDE FRONT
Wide Front Heated Glass
Special Instructions: REHS7155

380-3886 KIT, HEATED GLASS,NARROW FRONT
Narrow Front Heated Glass
Special Instructions: REHS7155

473-5233 KIT, STORAGE, CAB
12/140/160M3 Cab Storage Kit

PACKING

EXPORT PACKING

0P-2265 ROLL ON-ROLL OFF . . . . . 0 **$304 NET**
Machine is driveable with nothing removed.
For sound testing purposes, European units with European arrangements
must be ordered in Ro-Ro Configuration.
(Cab or canopy remains mounted.)
REQUIRED BY: EUROPEAN ARRANGEMENT
REQUIRED BY: EUROPEAN AR. W/ ROADING (TUV)

0P-2962 SHIPPING TIRE FREIGHT OPTION . . . . . 0 **NC**
This 0P is required when the machine is ordered with the Shipping Tire
This insures the correct trailer is used for shipment preventing
This is informational only and there is no additional charge.
REQUIRED BY: TIRES, 17.5 SHIPPING, MP
REQUIRED BY: TIRES, 14.0 SHIPPING, MP

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

PACKING (CONT.)

ATTACHMENT PACKING

0P-6706	**BUNDLE EXPORT PACKING**	0	**NC**

This 0P should be ordered for all miscellaneous orders.

SPECIAL INSTRUCTIONS

EXPOSITION MACHINE

0P-2949	**EXPOSITION INSTRUCTION**	0	**NC**

This special instruction must be selected whenever dealer is placing an order for a unit intended for use at expositions and/or trade fairs.

140M3 MOTOR GRADER
LITTLE ROCK, AR, USA (SAP)

	Ship Weight lbs	LIST PRICE AT DEALER

Standard Equipment:

POWERTRAIN

Air cleaner, dual stage dry type radial seal with service indicator and automatic dust ejector
Air-to-air after cooler (ATAAC)
Belt, serpentine, automatic tensioner
Brakes, oil disc, four-wheel, hydraulic
Demand fan, hydraulic
Differential, lock/unlock, automatic
Drain, engine oil, ecology
Electronic over-speed protection
Parking brake, multi-disc, sealed and oil cooled.
Sediment drain, fuel tank.
Tandem drive
Transmission, 8 speed forward and 6 speed reverse, power shift, direct drive
VHP Plus (Variable Horse Power Plus)

ELECTRICAL

Alarm, back-up
Alternator, 150 ampere, sealed
Batteries, maintenance free, heavy duty, 1125 CCA
Breaker panel, ground accessible
Electrical hydraulic valves
Electrical system, 24 volt
Grade Control Ready (Cab harness, software, electrical hydraulic valves, bosses and brackets)
Lights, reversing
Lights, roading, roof-mounted
Lights, stop and tail, LED
Starter, electric

OPERATOR ENVIRONMENT

Air Conditioning with heater
Articulation, automatic return to center
Centershift pin indicator
Display, digital speed and gear
Doors, left and right side with wiper
Gauge, machine level
Gauges (analog) inside the cab (includes fuel, articulation, engine coolant temp, engine RPM, and hydraulic oil temp, DEF/AdBlue)
Joystick, adjustable armrests
Joystick gear selection, hydraulic power steering hydraulic controls (right/left, blade lift w/ float position, blade sideshift and tip, circle drive, centershift, front wheel lean and articulation and steering)
Lights, night time cab
Messenger operator information system
Meter, hour, digital
Mirror, inside rearview, wide angle
Power port, 12V
Radio ready, entertainment
ROPS cab, sound suppressed - 69dB(A) - ISO 6394
Seat,cloth-covered, comfort suspension
Storage area for cooler/lunchbox
Throttle control, electronic
Windows laminated glass:
-Fixed front with intermittent wiper
-Side and rear (3)
Windows tempered:
-Left and right side wipers
-Rear with intermittent wiper
Cab storage

SAFETY AND SECURITY

Clutch, circle drive slip
Doors, 2 engine compartment, (two left hand, two right hand) locking
Doors, 2 service, left and right locking
Ground level engine shutdown
Hammer (emergency exit)
Horn, electric
Lockout, hydraulic implement (for roading and servicing)
Seat belt, retractable 76.2 (3")
Secondary steering
Tandem walkway/guards

TIRES, RIMS, AND WHEELS

A partial allowance for tires on 254mm x 609.6mm (10" x 24") multi-piece rims is included in the base machine price and weight.

FLUIDS

Antifreeze
Extended life coolant -35C/-30F

OTHER STANDARD EQUIPMENT

Accumulators -brake -dual certified
Drawbar,6 shoe w/replaceable wear strips
Fluid check, ground level
Fuel tank, 398 liters (105 gallon)
Ground level fueling
DEF/AdBlue Tank, 21 liters (5.5 gallon)
Hydraulic lines for base functions
Pump, hydrailic, high capacity (98cc / 15 cu in)
Radiator, cleanout access (both sides with swing doors)
SOS ports - engine -hydraulic

OTHER STANDARD EQUIPMENT (CONT.)

-transmission -coolant -fuel
Tandem walkway/guards
Tool box
Debris guard

140M3 MOTOR GRADER LITTLE ROCK, AR, USA (SAP)	Ship Weight lbs	LIST PRICE AT DEALER

Lane 2 is reserved for the Base Order Management Program.
Please use Lane 2 when placing orders that are part of the Base Order Management Program.

140M3 MOTOR GRADER LITTLE ROCK, AR, USA (SAP)		Ship Weight lbs	LIST PRICE AT DEALER
384-8605	**140M3 MOTOR GRADER**	37,911	**$383,840**
	LANE 2 - AVAILABLE FROM NORTH LITTLE ROCK FACTORY LANE 3 - AVAILABLE FROM NORTH LITTLE ROCK FACTORY		
0P-2971	**140M3 MISC MATERIAL NLR**	0	**NC**
	AVAILABLE FROM NORTH LITTLE ROCK FACTORY		

Only reference numbers that have the text
"ALSO AVAILABLE ON A MISCELLANOUS ORDER" can be used on a MISC order.

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

LANE SELECTION

	0P-9002	**LANE 2 ORDER**	0	NC
		Only for dealers enrolled in the Base Orders Management (BOM) program.		
	0P-9003	**LANE 3 ORDER**	0	NC

REGIONAL PACKAGES

REGIONAL PACKAGES

L	385-9294	**GLOBAL ARRANGEMENT**	0	NC
		Provides standard brake accumulators. For use in temperatures above -18C		
		CANNOT BE USED WITH: WEATHER, COLD PLUS		
L	385-9297	**GLOBAL ARRANGEMENT,LOW AMBIENT**	0	NC
		Provides brake accumulators for low ambient temperatures below -18C		
		CANNOT BE USED WITH: EU dealers		
		CANNOT BE USED WITH: WEATHER, STANDARD		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

PERFORMANCE PACKAGES

MOLDBOARDS

L	349-3046	**MOLDBOARD, 12'**	0	**NC**
		FOR USE IN LANE 3 ONLY INCLUDES: - Moldboard 12' x 24" x 7/8" (3658mm x 610mm x 22mm) - Curved Cutting Edge, 6" X 5/8" (152mm x 16mm) - End Bits, Standard, Without Overlay		
L	349-3047	**MOLDBOARD, 14' BASIC**	347	**$1,140**
		INCLUDES: - Moldboard 14' x 24" x 7/8" (4267mm x 610mm x 22mm) - Curved Cutting Edge, 8" x 3/4" (203mm x 19mm) - End Bits, Standard, Without Overlay		
L	349-3048	**MOLDBOARD, 14' PLUS**	650	**$2,710**
		INCLUDES: - Moldboard 14' x 27" x 1" (4267mm x 686mm x 25mm) - Curved Cutting Edge, 8" x 3/4" (203mm x 19mm) - End Bits, Standard, With Overlay		

WORK TOOLS

L	393-4882	**NO HITCH**	0	**NC**
L	337-7510	**HITCH, TOWING**	0	**$540**
L	324-0889	**RIPPER/SCARIFIER**	2,120 2,150	**$20,380** **$20,540 NI**
		NOTE NOT INSTALLED option is only for use with Miscellaneous orders using 0P-2971 140M3 MISC MATERIAL Hydraulic, rear mounted ripper with three straight ripper shanks. Can accommodate two additional ripper shanks and nine scarifier teeth which must be ordered separately. REQUIRES: A hydraulics control part number that has a ripper function. INCLUDES: Ripper Mounting		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

PERFORMANCE PACKAGES (CONT.)

WEATHER PACKAGES

L	353-3316	**WEATHER, STANDARD**	0	NC
		Recommended for year around use when typical ambient temperature range is 0 degrees C (32 degrees F) to 43 degrees C (110 degrees F) and operating at altitude below 1220 m (4000 feet). INCLUDES: - Batteries, Heavy Duty - 1125 CCA - Oil, Hydraulic, 10W FOR USE WITH: GLOBAL ARRANGEMENT FOR USE WITH: EUROPEAN ARRANGEMENT FOR USE WITH: EUROPEAN AR. W/ ROADING (TUV) CANNOT BE USED WITH: GLOBAL ARRANGEMENT,LOW AMBIENT		
L	394-4521	**COLD WEATHER PACKAGE**	0	$760
		Recommended for year around use when typical ambient temperature range is -18 degrees C (0 degrees F) to 43 degrees C (110 degrees F) and operating at altitude below 1220 m (4000 feet). INCLUDES: - Starting Aid, Ether - Batteries, Extreme Duty -1400 CCA - Oil, Hydraulic, 10W FOR USE WITH: GLOBAL ARRANGEMENT FOR USE WITH: GLOBAL ARRANGEMENT,LOW AMBIENT FOR USE WITH: CANADIAN ARRANGEMENT FOR USE WITH: EUROPEAN ARRANGEMENT FOR USE WITH: EUROPEAN AR. W/ ROADING (TUV)		
L	394-4522	**COLD WEATHER PLUS PACKAGE**	38	$3,005
		Recommended for year around use when typical ambient temperature range is -40 degrees C (-40 degrees F) to 40 degrees C (104 degrees) or operating at altitude above 1220 m (4000 feet). INCLUDES: - Starting Aid, Ether - Cold Start; Transmission oil and fan brake bypass - Batteries, Extreme Duty -1400 CCA - Oil, Hydraulic, Cold, 0W REQUIRES: HEATER, ENGINE COOLANT, 120V or HEATER, ENGINE COOLANT, 240V REQUIRED BY: SNOW ARRANGEMENT FOR USE WITH: GLOBAL ARRANGEMENT,LOW AMBIENT FOR USE WITH: CANADIAN ARRANGEMENT FOR USE WITH: EUROPEAN ARRANGEMENT FOR USE WITH: EUROPEAN AR. W/ ROADING (TUV) CANNOT BE USED WITH: GLOBAL ARRANGEMENT		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER
		PERFORMANCE PACKAGES (CONT.)		
		ACCUMULATORS		
L	305-2927	**LINES,STANDARD W/O ACCUMULATOR**	0	NC
		Provides hydraulic lines for base functions		
L	358-9338	**ACCUMULATORS, BLADE LIFT**	170	$4,665
		Provides hydraulic lines for base functions and accumulators for the blade lift. Allows approximately 1-3" of vertical blade travel to reduce impact loads. Nitrogen/oil accumulators activated by electric switch.		
		CANNOT BE USED WITH: Canadian Dealers.		
		PRECLEANER		
L	380-6774	**PRECLEANER, NON SY-KLONE**	0	NC
		Includes dust ejector for medium to heavy dust environments.		
L	380-6775	**PRECLEANER, SY-KLONE**	5	$750
		Recommended for environments with large degris (leaves, chips, large grass, etc.)		
		POWERTRAIN		
		ENGINE		
L	567-4688	**ENGINE, TIER IV**	0	NC
		EPA Tier 4 Final certified engine with aftertreatment Caterpillar C9 ACERT turbo charged diesel engine with automatic engine derate and idle control.		
		OIL CHANGE		
L	324-5328	**DRAIN, GRAVITY, ENGINE OIL**	0	NC
		Standard engine oil drain		
L	501-1163	**DRAIN, HIGH SPEED, ENGINE OIL**	0	$286
		High speed engine oil drain. Requires pump at service location to be attached to coupling receiver for high speed flow. HSO drain can also manual/gravity drain.		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS

NOTE: Optional Control Locations

Caterpillar offers many attachment hydraulic controls to operate work tools. Depending on which hydraulic part number is selected, the operating electro-hydraulic switches may include the auxiliary pod, mini-joystick located on the auxiliary pod, and/or the ripper control pod.

NOTE: Auxiliary controls that can have float

Auxiliary Pod Controls

```
INDEX = Index Finger (front lift)(float capability)
MID = Middle Finger(dozer angle 1)
RING = Ring Finger (dozer angle 2)
LITTLE= Little Finger (float capability)
```

NOTE: Mini-Joystick

```
 Fore/Aft
     .
    / \
     |
<--------->  Left/Right (float capability)
     |
    \ /
     .
```

NOTE: Ripper Control Pod

```
RH1   =  Front Lift (float capability)
RH2   =  Ripper-Scarifier Control
RHD   =  Ripper Handle Dual Switch (RH1 & RH2)
```

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

NOTE: Common Functions

COMMON FUNCTIONS:

Base = 8 functions: right and left blade lift, circle turn, drawbar center shift, blade side shift, blade tip, front wheel lean, frame articulation.

FL = Front Lift (moves front work tools up/down)
DA1 = Dozer Angle 1 (angles front blade left OR right)
DA2 = Dozer Angle 2 (angles front blade left AND right)
RIP = Rear Mounted Ripper (moves ripper up/down)
MMS = Mid-Mounted Scarifier
WM = Wing Mast
WT = Wing Tilt
Float = Built-in feature of valve section that opens both the work ports to tank. The external forces (weight of the work ports to tank. The external forces (weight of the implement) allows free movement of the implement.
Flow Rate=Provides maximum rate of fluid flow from the specific work port. B/A represents the maximum flow rate in Port B/Port A* in LPM (liters per minute).

*NOTE: Each valve section has two work ports (Port A and Port B).
Port A: Used to either raise implement or move implement to the right or for clockwise rotation of the implement.
Port B: Used to either lower implement or move implement to the left or for counter-clockwise rotation of the implement.

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

HYDRAULIC VALVE LOCATIONS

This illustration shows the factory installed switch location for each function by hydraulic part number.

Part Number	MINI-JOYSTICK Front Aft	MINI-JOYSTICK Left/ Right Float	MINI-JOYSTICK Index with Float	AUXILIARY POD Mid	AUXILIARY POD Ring	AUXILIARY POD Little	RIPPER POD RHD RH1	RIPPER POD RHD RH2
242-5056								
385-8094								RIPPER
Float:								N
Flow rate:								49/49
354-4113								MID-MOUNT SCARIFIER
Float:								Y
Flow Rate:								25/36
309-9848							FR.LIFT	
Float:							Y	
Flow Rate:							46/60	
385-8095							FR.LIFT	RIPPER
Float:							Y	N
Flow rate:							46/60	49/49
395-2008	MAST	TILT	FR.LIFT					
Float:	N	N	Y					
Flow rate:	72/72	41/30	46/60					
385-8096			FR.LIFT	DA1				RIPPER
Float:			Y	N				N
Flow rate:			46/60	72/72				49/49
385-8099	MAST	TILT	FR.LIFT					RIPPER
Float:	N	Y	Y					N
Flow rate:	72/72	74/86	46/60					49/49
385-8100	MAST	TILT	FR.LIFT					RIPPER
Float:	N	N	Y					N
Flow rate:	72/72	41/30	46/60					49/49
395-2009	MAST	TILT	FR.LIFT	DA1	MID-MOUNT SCARIFIER			
Float:	N	N	Y	N	N			
Flow rate:	72/72	41/30	46/60	72/72	25/36			

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

HYDRAULIC VALVE LOCATIONS LANE 3 ONLY

Part Number	MINI-JOYSTICK Front Aft	MINI-JOYSTICK Left/ Right Float	AUXILIARY POD Index with Float	AUXILIARY POD Mid	AUXILIARY POD Ring	AUXILIARY POD Little	RIPPER POD RH1	RIPPER POD RH2
385-8097			FR.LIFT	MID-MOUNT SCARIFIER				RIPPER
Float:			Y	N				N
Flow rate:			46/60	25/36				49/49
385-8101	MAST	TILT	FR.LIFT	DA1				RIPPER
Float:	N	N	Y	N				N
Flow rate:	72/72	41/30	46/60	72/72				49/49
385-8103	MAST	TILT	FR.LIFT	DA1	DA2			RIPPER
Float:	N	N	Y	N	N			N
Flow rate:	72/72	41/30	46/60	72/72	72/72			49/49
481-8610	MAST	TILT	FR.LIFT	DA1	DA2			RIPPER
Float:	N	Y	Y	N	N			N
Flow rate:	72/72	74/86	46/60	72/72	72/72			49/49

HYDRAULIC VALVE PART NUMBERS

L	242-5056	**HYDRAULICS, BASE** . . . . . 0 Base hydraulic system includes machine articulation, wheel lean, left and right blade lift with independent float, drawbar centershift, circle drive, blade sideshift and tip.		NC
L	385-8094	**BASE + 1 (RIP)**. . . . . 21 Ripper function. Includes the Ripper Lines. ONLY FOR USE WITH: RIPPER-SCARIFIER, REAR		$2,300
L	354-4113	**BASE + 1 (MMS)**. . . . . 21 FOR USE IN LANE 3 ONLY Mid-Mount Scarifier function. Includes the Mid-Mount Scarifier Lines. ONLY FOR USE WITH: MID MOUNT SCARIFIER PACKAGE		$2,300
L	309-9848	**BASE + 1 (FL)**. . . . . 18 FOR USE IN LANE 3 ONLY Front Lift function. Includes the Front Lift Lines. ONLY FOR USE WITH: LIFT GROUP, MANUAL, FRONT		$1,890
L	385-8095	**BASE + 2 (FL,RIP)** . . . . . 37 Ripper and Front Lift functions. Includes the Front Lift Lines and Ripper Lines. ONLY FOR USE WITH: LIFT GROUP, MANUAL, FRONT RIPPER-SCARIFIER, REAR		$4,085
L	395-2008	**BASE + 3 (WM,WT-NOFLOAT,FL)** . . . . . 60 FOR USE IN LANE 3 ONLY Front Lift, Snow Wing Mast, and Snow Wing Tilt ONLY FOR USE WITH: SNOW ARRANGEMENT LIFT GROUP, MANUAL, FRONT		$6,540

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

HYDRAULIC VALVE PART NUMBERS (Cont.)

L	385-8096	**BASE + 3 (FL,DA1,RIP)**	67	$7,460
		FOR USE IN LANE 3 ONLY Ripper, Front Lift and Angle functions. Includes the Front Lift Lines FOR USE IN LANE 3 ONLY Dozer Angle 1 Lines, and Ripper Lines. ONLY FOR USE WITH: LIFT GROUP, MANUAL, FRONT RIPPER-SCARIFIER, REAR		
L	385-8099	**BASE + 4 (WM,WT-FLOAT,FL,RIP)**	85	$8,960
		Ripper, Front Lift, Snow Wing Mast and Snow Wing Tilt (74/86 with float) functions. Includes the Front Lift Lines and Ripper Lines. ONLY FOR USE WITH: SNOW ARRANGEMENT LIFT GROUP, MANUAL, FRONT RIPPER-SCARIFIER, REAR		
L	385-8100	**BASE + 4 (WM,WT,FL,RIP) NOFLT**	85	$8,700
		FOR USE IN LANE 3 ONLY Ripper, Front Lift, Snow Wing Mast and Snow Wing Tilt (41/30 - No Float) functions. Includes the Front Lift Lines and Ripper Lines. ONLY FOR USE WITH: SNOW ARRANGEMENT LIFT GROUP, MANUAL, FRONT RIPPER-SCARIFIER, REAR		
L	395-2009	**BASE + 5 (WM,WT,DA1,FL,MMS)**	120	$10,790
		FOR USE IN LANE 3 ONLY Snow Wing Mast, Snow Wing Tilt (41/30 - No Float) functions, Dozer Angle 1, Front LIFT, and Mid-Mount Scarifier Includes the Front Lift Lines, Angle 1 Lines, and Mid-Mount Scarifier Lines. ONLY FOR USE WITH: SNOW ARRANGEMENT LIFT GROUP, MANUAL, FRONT MID MOUNT SCARIFIER PACKAGE		

HYDRAULIC VALVE PART NUMBERS LANE 3 ONLY

L	385-8097	**BASE+3 (RIP, MMS, FL)**	67	$7,460
		FOR USE WITH: Lane 3 only. Front Lift, Ripper and Mid-Mount Scarifier functions. Includes the Front Lift Lines, Ripper Lines and Mid-Mount Scarifier Lines. ONLY FOR USE WITH: LIFT GROUP, MANUAL, FRONT RIPPER-SCARIFIER, REAR MOUNT, MID-MOUNT SCARIFIER		
L	385-8101	**BASE + 5 (WM,WT,DA1,FL,RIP)**	120	$10,790
		FOR USE WITH: Lane 3 only. Snow Wing Mast, Snow Wing Tilt (41/30 - No Float) functions, Dozer Angle 1, Front LIFT, and Ripper. Includes the Front Lift Lines, Angle 1 Lines, and Ripper Lines. ONLY FOR USE WITH: SNOW ARRANGEMENT MOUNT, SNOW WING, FRAME READY LIFT GROUP, MANUAL, FRONT RIPPER-SCARIFIER, REAR		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

HYDRAULIC VALVE PART NUMBERS (Cont.)

L	385-8103	**BASE + 6(WM,WT,DA1,DA2,FL,RIP)**	130	**$13,350**
		FOR USE WITH: Lane 3 only. Ripper, Dozer Angle 1, Dozer Angle 2, Front Lift, Snow Wing Mast and Snow Wing Tilt (41/30 - No Float) functions. Includes the Front Lift Lines, Dozer Angle 2 Lines and Ripper Lines. ONLY FOR USE WITH: SNOW ARRANGEMENT MOUNT, SNOW WING, FRAME READY LIFT GROUP, MANUAL, FRONT RIPPER-SCARIFIER, REAR		
L	481-8610	**BASE+6(WM,WT+F,DA1,DA2,FL,RIP)**.....	130	**$13,620**
		FOR USE WITH: Lane 3 only. Ripper, Dozer Angle 1, Dozer Angle 2, Front Lift, Snow Wing Mast and Snow Wing Tilt (72/72 + Float) functions. Includes the Front Lift Lines, Dozer Angle 2 Lines and Ripper Lines. ONLY FOR USE WITH: SNOW ARRANGEMENT MOUNT, SNOW WING, FRAME READY LIFT GROUP, MANUAL, FRONT RIPPER-SCARIFIER, REAR		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

STARTERS, BATTERIES, & ALTERNATORS

STARTER ARRANGMENT

L	394-3945	**STARTER, ELECTRIC, HEAVY DUTY**	0	NC
		Provides a 1000 Amp. starter		
L	395-3547	**STARTER, ELEC, EXTREME DUTY**	21	$408
		Recommended for Cold weather applications Provides a 1000 Amp. starter		

ELECTRICAL

BRAKE LIGHTS

L	331-6793	**LIGHTS, BRAKE AND BACK-UP**	0	NC
		FOR USE IN LANE 3 ONLY Provides stationary rear brake lights along with the back-up lights. Does not include front headlights or turn signals CANNOT BE USED WITH: 526-2563 EUROPEAN ARRANGEMENT 394-3871 EUROPEAN AR. W/ROADING (TUV) 308-9370 LIGHTS, FRONT HEADLIGHTS, LOW 308-9371 LIGHTS, FRONT HEADLIGHTS, HIGH 396-1966 SNOW ARRANGEMENT		
L	536-9969	**LIGHTS, ARM, FOLD DOWN**	0	$1,875
		Provides stationary rear brake lights along with the back-up lights, dimmer switch for road lighting, drop-down stop, tail, and rear turn signals and back-up lights. REQUIRES: 308-9370 LIGHTS, FRONT HEADLIGHTS, LOW 308-9371 LIGHTS, FRONT HEADLIGHTS, HIGH INCLUDED IN: 396-1966 SNOW ARRANGEMENT		

ROADING LIGHTS

L	421-7810	**LIGHTS, ROADING, HALOGEN**	0	NC
		Provides six halogen cab roof mounted roading lights.		
L	550-6608	**LIGHTS, ROADING, LED**	0	$1,245
		Provides six LED cab roof mounted roading lights.		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

OPERATOR ENVIRONMENT

CAB EXTERIOR

L	385-9553	**CAB, BASE (STANDARD GLASS)**	0	NC
		FOR USE IN LANE 3 ONLY INCLUDES: - 150 amp alternator - Standard Glass CANNOT BE USED WITH: SNOW ARRANGEMENT CANNOT BE USED WITH: EUROPEAN ARRANGEMENT CANNOT BE USED WITH: EUROPEAN AR. W/ ROADING (TUV)		
L	385-9554	**CAB, PLUS (STANDARD GLASS)**	35	$1,105
		INCLUDES: - 150 amp alternator - Wiper/washer, rear - Standard Glass		
L	385-9555	**CAB, PLUS (ANTI-ICING GLASS)**	35	$6,630
		FOR USE IN LANE 3 ONLY INCLUDES: - 270 amp alternator - Wiper/washer, rear - Front glass and RH door glass are heated.		

CAB INTERIOR

L	397-7456	**CAB, BASE (INTERIOR)**	0	NC
		FOR USE IN LANE 3 ONLY INCLUDES: - Seat, mechanical suspension, cloth - Shade, Sun CANNOT BE USED WITH: SNOW ARRANGEMENT CANNOT BE USED WITH: EUROPEAN ARRANGEMENT CANNOT BE USED WITH: EUROPEAN AR. W/ ROADING (TUV)		
L	397-7457	**CAB, PLUS (INTERIOR)**	45	$3,010
		INCLUDES: - Seat, Air Suspension, Cloth, Heated - Radio,12V, AM/FM, Weatherband, Bluetooth, USB, Aux Input Available to countries with bluetooth certification. Please contact your Cat marketing representative if you have questions. - Fan, defroster, rear window - Converter, Communication (CB) - Shade, Sun		
L	397-7458	**CAB, PREMIUM (INTERIOR)**	80	$4,580
		FOR USE IN LANE 3 ONLY - Seat, air suspension, cloth; Heated, Ventilated - Radio,12V, AM/FM CD/MP3 Bluetooth, Weatherband, USB, Aux Input XM/Sirius Satellite Available to countries with bluetooth certification. Please contact your Cat marketing representative if you have questions. - Fan, defroster, rear window - Converter, Communication (CB) - Shade, Sun *Recommended for Snow Removal		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

OPERATOR ENVIRONMENT (CONT.)

SEAT BELT

L	394-1492	**SEAT BELT**	0	NC
		Standard 3 inch seat belt		
L	394-1132	**SEAT BELT W/INDICATOR**	5	$193
		Standard 3 inch seat belt with indicator located on display panel		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

TECHNOLOGY PRODUCTS

PRODUCT LINK

Product Link enables the remote transmission of information about the location, operation, and condition of your equipment. Efficiently and effectively monitor the performance of your assets to help keep your jobs on schedule, maintain equipment condition, and reduce the costs of owning and operating your fleet. Availability varies by country - please reference https://Dealer.cat.com/PL/Certification for certified countries. Please contact your Caterpillar marketing representative with questions.

L	464-6804	**PRODUCT LINK, SATELLITE PLE631** . . . . . Product Link Elite series PLE631 uses a satellite network to transmit location, utilization and condition information for viewing in Product Link's remote monitoring web interface. For use in areas with poor or no cellular coverage.	29	**$432**
L	464-6442	**PRODUCT LINK, CELLULAR PLE641** . . . . . Product Link Elite series PLE641 offers expanded coverage including 3G UMTS and CDMA2000 as well as 2G GSM and CDMA cellular networks to transmit location, utilization and condition information f viewing in Product Link-s remote monitoring web interface. Cellular technology provides capabilities for frequent transmission and larger volumes of data.	29	**NC**

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

TECHNOLOGY PRODUCTS (CONT.)

ACCUGRADE

L	362-5222	**NO ACCUGRADE**	0	NC
L	462-7928	**INSTALLATION, ACCUGRADE READY** Allows the Motor Grader to be equipped with either a Cross Slope, Sonic, Laser, GPS, or ATS electronics kit. Provides software, harnesses for sensors, mounting for sensors and blade mast bracket.	90	$4,830

NOTE: Highly recommended to select Advanced Joystick Controls. This will Allow for complete configuration and control when using 3 party grade control systems

L	462-7929	**GRADE CONTROL X SLOPE** Allows the operator to manually control one end of the blade to match the curb or crown while automatically maintaining the desired slope of the blade. This system is used to maintain the crown of a gravel road or the shoulder of a road. Provides cab switches, software, harnesses for sensors, mounting for sensors and blade mast bracket. Accugrade Ready is included in this option REQUIRES: JOYSTICK CONTROLS, ADVANCED INCLUDED IN: 492-3594 CONTROLS, PERFORMANCE BUNDLE	165	$11,060

MOTOR GRADER CONTROLS

L	357-9151	**JOYSTICK CONTROLS, BASIC** Standard joystick controls.	6	NC
L	458-8701	**JOYSTICK CONTROLS, ADVANCED** Provides enhanced functionality while using ACCUGRADE READY or GRADE CONTROL X SLOPE INCLUDES: - Advanced Joysticks - Harness - Films REQUIRED BY: GRADE CONTROL X SLOPE. RECOMMENDED FOR USE WITH: ACCUGRADE READY INCLUDED IN: 492-3594 CONTROLS, PERFORMANCE BUNDLE	8	$2,030

CONTROL AUTO ARTICULATION

L	483-2354	**CONTROL,AUTO ARTICULATION-DEMO** 500 machine hour demo. Improves ease of operation, increases maneuverability and maximizes productivity by automatically matching articulation angle to steering angle. Includes 3 position rocker switch enabling 3 modes; off / forward / both forward and reverse.	0	NC
L	435-2072	**CONTROL,AUTO ARTICULATION-FULL** Improves ease of operation, increases maneuverability and maximizes productivity by automatically matching articulation angle to steering angle. Includes 3 position rocker switch enabling 3 modes; off / forward / both forward and reverse.	0	$1,810

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER
FUEL SYSTEMS				
L	540-2373	**TANK, FUEL, STANDARD** . . . . . Standard Fuel 105 gallon (398 L)	0	NC
L	553-3677	**TANK, FUEL, FAST FILL** . . . . . Fuel tank is ready to accept fast fill 100 gpm nozzle. Tank capacity is 105 gallons (398 L)	0	$1,410
COOLING				
COOLING FAN				
L	542-4660	**FAN, STANDARD** . . . . . Provides a hydraulically driven demand fan	0	NC
L	542-4661	**FAN, REVERSING** . . . . . Provides a hydraulically driven demand fan that can reverse direction to prevent debris build up on the cooling package and engine enclosure. Includes automatic and manual controls for airflow reversal. Recommended for applications with a high content of airborne debris.	0	$3,105

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

TIRES, RIMS, AND WHEELS

**Tires listed below include a set of six tires.
**To calculate tire loads with machine attachments, please reference the MG Tire Selection Pocket Guide (media #AEXQ0182), available on the Electronic Sales Library.
All tire selections should be made with consideration for planned machine attachments (OEM and aftermarket) and their additional weight. Each tire has a maximum load rating that is not to be exceeded. The tire selection should be based on the maximum of all tire position loads on the machine. Assistance for calculating the highest tire load can be found in the Tire Load Worksheet in the back of the Caterpillar Motor Graders Tire Selection Pocket Guide. Failure to abide by the load ratings of the tires without first consulting the local tire supplier representative could result in nullification of the tire warranty.**

Due to industry-wide tire availability limitations, tire brand and type cannot be guaranteed. Every effort will be made to satisfy your tire choice, but we reserve the right to change to alternate tires. If the tire brand cannot be supplied, the dealer will be contacted to propose alternative tire options. The dealer will need to respond with an alternative tire selection within 72 hours. If no response is provided by the supplier, the order will default to a comparable tire. As a consequence of a tire change the total machine price will be decreased or increased relative to the price of the new tire selection.

The information provided can be used to make a tire selection based on the particular conditions at the site. When available, the tire manufacturer should be consulted regarding proper tire selection.

APPLICATION SPECIFIC TIRES

L	515-5399	**TIRES,14.0R24 SOIL TRACTION MP**	0	$5,970
		Tire group received will be one of the tire groups listed below: - Bridgestone VKT 1* on 10" x 24" multi-piece rims. - Michelin XGLA2 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	515-5400	**TIRES,17.5R25 SOIL TRACTION MP**	0	$12,450
		Tire group received will be one of the tire groups listed below: - Bridgestone VKT 1* on 14" x 25" multi-piece rims. - Michelin XTLA 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

TIRES, RIMS, AND WHEELS (CONT.)

Bridgestone

L	252-0714	**TIRES, 14.0 R24 BS VKT * G2**	1,540	$6,970
		FOR USE IN LANE 3 ONLY Bridgestone VKT 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR USE IN LANE 3 ONLY FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	252-0720	**TIRES, 14.0R24 BS VUT * L2 MP**	1,012	$7,250
		Bridgestone VUT 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	252-0775	**TIRES, 17.5R25 BS VKT * D2A MP**	1,810	$13,450
		Bridgestone VKT 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	252-0708	**TIRES, 14.0R24 BS VSW * G2 MP**	1,481	$13,320
		Bridgestone VSW 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	310-7331	**TIRES, 17.5R25 BS VSW * G2 MP**	1,888	$18,590
		Bridgestone VSW 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		

Michelin

L	252-0679	**TIRES,14.0R24 MX XGLA2 * G2 MP**	1,069	$10,860
		Michelin XGLA2 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (7824 lbs) 3550 kg.**		
L	252-0701	**TIRES,14.0R24 MX XSNO+ * G2 MP**	1,282	$14,890
		Michelin XSNO 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (7824 lbs) 3550 kg.**		
L	252-0777	**TIRES,17.5R25 MX XSNO+ * G2 MP**	1,093	$20,490
		Michelin XSNO+ 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	252-0771	**TIRES, 17.5R25 MX XTLA * L2 MP**	1,371	$16,110
		Michelin XTLA 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	254-7904	**TIRES,14.0R24 MX XGLA2 * G2 SP**	709	$7,290
		Michelin XGLA 1* on 9" x 24" single piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (7824 lbs) 3550 kg.**		
L	254-7971	**TIRES, 17.5R25 MX XTLA * L2 SP**	979	$11,910
		Michelin XTLA 1* on 13" x 25" single piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

TIRES, RIMS, AND WHEELS (CONT.)

SHIPPING TIRES

L	**440-3433**	**TIRES, 17.5 SHIPPING, MP**	274	**$2,250**
		FOR USE WITH LANE 3 ONLY Shipping tire for use during shipment of machine only. Solid rubber band mounted on 14" x 25" multi-piece rims. Must be replaced with pneumatic tire before delivering to customer.		
L	**448-5577**	**TIRES, 14.0 SHIPPING, MP**	90	**$2,000**
		FOR USE WITH LANE 3 ONLY Shipping tire for use during shipment of machine only. Solid rubber band mounted on 10" x 24" multi-piece rims. Must be replaced with pneumatic tire before delivering to customer.		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER
		GUARDS		
		Guards		
L	323-6970	**GUARD GP, HITCH**	25	NC
		Standard bottom plate just rear of articulation hitch		
L	368-6239	**ARTICULATION GUARD.**	30	$1,260
		Provides protection for the articulation rods from snow, dirt and Highly recommended for snow removal applications, or below freezing CANNOT BE USED WITH : SOUND SUPRESSION (BOTTOM)		
		FLUIDS		
		ANTIFREEZE		
L	469-8157	**COOLANT, 50/50, -35C (-31F)**	0	NC
		Standard engine coolant		
L	469-8160	**COOLANT, 60/40, -51C (-60F)**	0	$245 NET
		Engine coolant recommended for extreme low temperatures		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

DOCUMENTATION

LANGUAGE SELECTION

NOTE: This part number will provide the language for Messenger and Statement of Conformity

L	**386-1254**	**LANGUAGE, ENGLISH**	0	**NC**

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

DOCUMENTATION (CONT.)

DECAL PACKAGES

NOTE: This part number will provide the films in ANSI or ISO
The word "WARNING" is on picto decals for ANSI.
Symbols only are on picto decals for ISO.

L	**442-9940**	**DECALS, ENGLISH (U.S.)** . . . . . 0 Provides decals as required by ANSI.		**NC**

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

FEATURE PACKAGES

REGIONAL OPTIONAL PACKAGES

L	396-1966	**SNOW ARRANGEMENT**	355	$6,460

INCLUDES:
- LIGHTS, ARM, FOLD DOWN
- MOUNTING, WARNING LIGHT
- TRANSMISSION, AUTOSHIFT

REQUIRES: MOUNT,SNOW WING,FRAME RDY HAL or LED
LIGHTS, WORKING, PLUS, HALOGEN or LED
HEADLIGHTS,FRONT, HIGH, (HALOGEN OR LED)
HEATER, ENGINE COOLANT, 120V or 240V
STARTER, ELEC, EXTREME DUTY or EXTRM DUTY(TUV)
WEATHER, COLD PLUS
CAB, PLUS (STANDARD GLASS) or (ANTI-ICING GLASS)

NOTE: RECOMMENDED: MIRRORS, OUTSIDE HEATED

WORK TOOL PACKAGES

L	358-9341	**MID MOUNT SCARIFIER PACKAGE**	2,076	$16,290

FOR USE IN LANE 3 ONLY
INCLUDES:
- Mid-mount Scarifier, V-Type with 11 Teeth
- MOUNT, MID-MOUNT SCARIFIER

CANNOT BE USED WITH: Any Front Lift Group OR
FENDERS, FRONT, NON-AWD

WORK TOOL PACKAGES-SNOW WING MOUNT

L	390-9182	**MOUNT,SNOW WING,FRAME RDY HAL**	251	$2,295

FOR USE IN LANE 3 ONLY
INCLUDES:
- Snow Wing Mount
- Light, halogen Snow Wing, Right Hand

REQUIRED BY: SNOW ARRANGEMENT

L	551-6546	**MOUNT,SNOW WING,FRAME RDY LED**	0	$2,710

FOR USE IN LANE 3 ONLY
INCLUDES:
- Snow Wing Mount
- Light, LED Snow Wing, Right Hand

REQUIRED BY: Snow Arrangement

LIGHTING PACKAGES

L	395-1966	**LIGHTS, WORKING, BASIC,HALOGEN**	19	$770

FOR USE IN LANE 3 ONLY
INCLUDES:
- Lights, Work, Heel 3X3
- Lights, Work, Midframe Toe 3X3
- Switch, Work Lighting

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

FEATURE PACKAGES (CONT.)

LIGHTING PACKAGES (Cont.)

L	395-1967	**LIGHTS, WORKING, PLUS, HALOGEN**	22	$1,035
		INCLUDES: - Lights, halogen, ripper 3X3 - Lights, halogen, work, heel 3X3 - Lights, halogen, work, midframe toe 3X3 - Switch, Work Lighting CANNOT BE USED WITH: LIGHTS, ROADING, LED MOUNT,SNOW WING,FRAME RDY LED REQUIRED BY: SNOW ARRANGEMENT		
L	552-7285	**LIGHTS, WORKING, PLUS, LED**	0	$2,590
		INCLUDES: - Lights, LED, ripper 3X3 - Lights, LED, work, heel 3X3 - Lights, LED, work, midframe toe 3X3 - Switch, work lighting CANNOT BE USED WITH: LIGHTS, ROADING, HALOGEN MOUNT,SNOW WING,FRAME RDY HAL REQUIRED BY: SNOW ARRANGEMENT		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

FEATURE PACKAGES (CONT.)

OTHER OPTIONAL ATTACHMENTS

L	338-1132	**LIGHT, LED WARNING STROBE**	5	$605 NI
		Amber high-speed strobe beacon. REQUIRES: MOUNTING, WARNING LIGHT		
L	361-3137	**MOUNTING, WARNING LIGHT**	10	$725
		Provides the bracket for warning beacon light INCLUDED IN: SNOW ARRANGEMENT		
L	396-3515	**TRANSMISSION, AUTOSHIFT**	5	$3,205
		Improves ease of operation and maximizes productivity by automatically shifting the transmission at optimal shift points. INCLUDED IN: SNOW ARRANGEMENT REQUIRED BY: EUROPEAN ARRANGEMENT EUROPEAN AR. W/ ROADING (TUV)		
L	380-3070	**LIGHTS, SERVICE, INTERNAL**	5	$193
		Provides two lights operated by a single manual switch located in the rear enclosure. One light illuminates the engine compartment and the second light illuminates the hydraulic level sight gauge.		

ELECTRICAL

FRONT HEADLIGHTS

L	308-9370	**HEADLIGHTS,FRONT, LOW, HALOGEN**	0	$640
		Provides LOW bar HALOGEN headlights with front turn signals. CANNOT BE USED WITH: 396-1966 SNOW ARRANGEMENT ANY LED LIGHTING OPTION REQUIRED BY: 526-2563 EUROPEAN ARRANGEMENT 394-3871 EUROPEAN AR. W/ROADING (TUV) 536-9969 LIGHTS, ARM, FOLD DOWN		
L	553-2588	**HEADLIGHTS, FRONT, LOW, LED**	0	$1,365
		Provides LOW bar LED headlights with front turn signals. CANNOT BE USED WITH: SNOW ARRANGEMENT ANY HALOGEN LIGHTING OPTION REQUIRED BY: LIGHTS,ARM, FOLD DOWN 526-2563 EUROPEAN ARRANGEMENT 394-3871 EUROPEAN AR. W/ROADING (TUV)		
L	308-9371	**HEADLIGHTS,FRONT, HIGH,HALOGEN**	0	$640
		Provides HIGH bar HALOGEN headlights with front turn signals. CANNOT BE USED WITH: ANY LED LIGHTING OPTION REQUIRED BY: 526-2563 EUROPEAN ARRANGEMENT 394-3871 EUROPEAN AR. W/ROADING (TUV) 536-9969 LIGHTS, ARM, FOLD DOWN 396-1966 SNOW ARRANGEMENT		
L	553-2589	**HEADLIGHTS, FRONT, HIGH, LED**	0	$1,365
		Provides HIGH bar LED headlights with front turn signals. CANNOT BE USED WITH: ANY HALOGEN LIGHTING OPTION REQUIRED BY: LIGHTS,ARM, FOLD DOWN SNOW ARRANGEMENT 526-2563 EUROPEAN ARRANGEMENT 394-3871 EUROPEAN AR. W/ROADING (TUV)		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

OPERATOR ENVIRONMENT

CAMERA

L	396-3921	**CAMERA, REAR VISION**	15	$2,535
		Provides a 115 degree color camera mounted on the rear of the hood that is connected to a 7 inch (178mm) LCD color display mounted in the cab which shows the view behind the machine. CAN NOT BE USED WITH: EUROPEAN AR. W/ ROADING (TUV) NOTE* EUROPEAN AR. W/ ROADING (TUV) includes front and rear facing cameras		

MIRRORS

L	233-3295	**MIRRORS, OUTSIDE MOUNTED**	32	$495
		Provides two convex mirrors for outside mounting on the left and right cab grab irons. NOTE: The mirrors are wrapped in bubble wrap and rotated toward the doors for protection during shipment.		
L	344-0984	**MIRRORS, OUTSIDE HEATED 24V**	33	$670
		Provides mirrors with a 24V heating element to keep mirrors ice free in cold weather operations. NOTE: The mirrors are wrapped in bubble wrap and rotated toward the doors for protection during shipment.		

TECHNOLOGY PRODUCTS

TECHNOLOGY PRODUCTS

L	393-6335	**SECURITY SYSTEM, MACHINE**	10	$720
		FOR USE IN LANE 3 ONLY Provides a programmable system to manage access to the machine using special MSS keys. Deters theft, vandalism, and unauthorized use. Programmable features allow the following: * limits operators to selected machines * controls the days and hours equipment may be started * controls access by untrained operators or personnel		
L	458-2072	**STABLE BLADE**	3	$2,470
		Provides sensor and software to automatically reduce engine speed in various applications to reduce machine bounce and scalloping of surface.		
L	492-3594	**CONTROLS, PERFORMANCE BUNDLE**	176	$15,560
		The Auto Articulation in this bundle is an unrestricted version, not limited to 500 hours. INCLUDES: 435-2072 CONTROL,AUTO ARTICULATION-FULL 458-2072 STABLE BLADE 458-8701 JOYSTICK CONTROLS, ADVANCED 462-7929 GRADE CONTROL X SLOPE		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER
GUARDS				
L	367-6905	**GUARD, AXLE HOSE**	15	$1,075
		FOR USE IN LANE 3 ONLY Provides additional protection to the front axle cylinders, lines, and fittings. NOTE: NOT recommended for use with tire chains		
L	366-2459	**GUARD, TRANSMISSION**	310	$3,400
		Provides a steel guard to protect the transmission from ground debris. REQUIRED BY: SOUND SUPRESSION (BOTTOM) INCLUDED IN: EUROPEAN ARRANGEMENT EUROPEAN AR. W/ ROADING (TUV)		
L	377-1602	**SOUND SUPPRESSION (BOTTOM)**	243	$2,095
		FOR USE IN LANE 3 ONLY Provides two metallic side panels on either side of the transmission guard, enclosing the rear of the machine. This option prevents debris from accumulating on top of the transmission guard and also suppresses sound to meet EU sound regulations. REQUIRES: GUARD, TRANSMISSION REQUIRES: GUARD GP, HITCH INCLUDED IN: EUROPEAN ARRANGEMENT INCLUDED IN: EUROPEAN AR. W/ ROADING (TUV) CANNOT BE USED WITH: ARTICULATION GUARD		
L	546-0262	**SOUND SUPPRESSION, ENGINE ENCL**	0	$1,540
		FOR USE IN LANE 3 ONLY Suppression panels in engine enclosure doors. INLCUDED IN: EUROPEAN ARRANGEMENT INCLUDED IN: EUROPEAN AR. W/ ROADING		
L	498-3458	**FENDERS, FRONT, JOY, TND**	0	$4,130
		Non-metallic front fenders aid in reducing the build-up of mud, snow, or debris. Front fenders are compatible with all Non-AWD tire sizes offered by the factory. ** NOT RECOMMENDED FOR USE WITH TIRE CHAINS. CANNOT BE USED WITH: MID MOUNT SCARIFIER PACKAGE -OR- GUARD, AXLE HOSE		
L	568-3669	**FENDERS, REAR**	0	$5,030
		Provides non-metallic rear fenders to aid in reducing the build-up of mud, snow, or debris. Rear fenders are compatible with all MG tire sizes offered by the factory. INCLUDED IN: EUROPEAN AR. W/ ROADING (TUV) ** NOT RECOMMENDED FOR USE WITH TIRE CHAINS.		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

OTHER ATTACHMENTS

STARTING AIDS

L	249-5516	**HEATER, ENGINE COOLANT, 120V**	3	**$245**
		Engine coolant heater for 120 volt external power source. REQUIRED BY: SNOW ARRANGEMENT		

CIRCLE DRIVE INJECTOR GREASE

L	521-3250	**KIT, CIRCLE SAVER**	0	**$238**
		Remote Circle Drive Greasing point (Zerk). Located top of drawbar for easy servicing of circle drive gear. Helps the pinion maintain its lubrication caused by lack of grease in this component.		

WORK TOOLS

L	360-5074	**MOUNT, MID-MOUNT SCARIFIER**	131	**$1,520**
		FOR USE IN LANE 3 ONLY Brackets welded to front frame for future installation of midmount scarifier. INCLUDED IN: SCARIFIER, MID-MOUNT V-TYPE NOTE: This is the mounting only and does not include the scarifier. RECOMMENDED: Hydraulics with a mid-mount scarifier (MMS) function NOTE: If you intend to purchase the mid-mounted scarifier, please note that the actual scarifier cannot be attached to the machine at same time as the Lift Group, Hydraulic, Front		
L	367-6880	**COUNTERWEIGHT**	885 0	**$3,200** **$3,200 NI**
		FOR USE IN LANE 3 ONLY **NOTE** NOT INSTALLED option is only for use with Miscellaneous orders using 0P-2971 140M3 MISC MATERIAL Front mounted.Recommended when machine is not equipped with front or rear mounted work tool attachments to provide additional blade performance capability. NOTE:This cannot be used in conjunction with push plate, front lift work tools,or the 'installed' hydraulic front lift. It can be used with a not installed hydraulic front lift NOT RECOMMENDED FOR USE WITH: RIPPER-SCARIFIER, REAR CANNOT BE USED WITH: PUSH PLATE LIFT GROUP, MANUAL, FRONT (Installed)		
L	367-6842	**PUSH PLATE, COUNTERWEIGHT**	2,822 2,822	**$5,640** **$5,640 NI**
		NOTE NOT INSTALLED option is only for use with Miscellaneous orders using 0P-2971 140M3 MISC MATERIAL Front mounted. Recommended when machine is equipped with rear ripper/scarifier and other rear mounted attachments. NOTE: This cannot be used in conjunction with counterweight, any front lift work tools,or the 'installed' hydraulic front lift. It can be used with a not installed hydraulic front lift CANNOT BE USED WITH: COUNTERWEIGHT CANNOT BE USED WITH: LIFT GROUP, MANUAL, FRONT (Installed)		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

WORK TOOLS (CONT.)

L	312-2204	**LIFT GROUP, MANUAL, FRONT**	1,500 1,500	**$11,030** **$11,030 NI**

FOR USE IN LANE 3 ONLY
Front hydraulic lift without any work tool attached.
Note: This Front Lift Group has manual locking pins.

INSTALLED COMPATIBILITY:
REQUIRES: MOUNTING, FRONT LIFT
REQUIRES: Hydraulics control part number that has front lift (FL) function
REQUIRED, to use Front Scarifiers
CANNOT BE USED WITH: PUSH PLATE
CANNOT BE USED WITH: COUNTERWEIGHT
CANNOT BE USED WITH: MID MOUNT SCARIFIER PACKAGE

(The Installed Manual Lift Group can be attached to the machine at the sametime as the mounting for the mid-mount scarifier, but not the actual scarifier itself).

NOTE: A Not-Installed Manual Lift Group can be ordered with an INSTALLED Push Plate or Counterweight. The not-installed lift group will be skidded, banded and shipped with the unit.

NOT INSTALLED COMPATIBILITY:
REQUIRES: MOUNTING, FRONT LIFT
REQUIRES: Hydraulics control part number that has front lift (FL) function

L	359-3925	**LIFT GROUP, FRONT MOUNTING**	10	**$442**

Two mounting plates welded to both sides of the front frame for factory or future installation of Front Lift.
REQUIRED BY: LIFT GROUP, MANUAL, FRONT

L	387-8664	**LINES, RIPPER, ADDITIONAL**	8	**$426**

For use with rear mounted auxiliary functions. Provides two hydraulic hoses with one end bundled at the rear of the machine and the other end bundled at the rear valve bank in front of the cab.
REQUIRES: Ripper Function
FOR USE WITH: BASE + 1 (RIP)
FOR USE WITH: BASE + 2 (FL, RIP)
FOR USE WITH: BASE+3 (FL,DA1,RIP)
FOR USE WITH: BASE+4 (WM,WT-FLOAT,FL,RIP)
FOR USE WITH: BASE+4 (WM,WT,FL,RIP) NOFLT
FOR USE WITH: BASE+3 (FL,MMS,RIP)
FOR USE WITH: BASE+5 (WM,WT,DA1,FL,RIP)
FOR USE WITH: BASE+6 (WM,WT,DA1,DA2,FL,RIP)

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

GROUND ENGAGING TOOLS

GROUND ENGAGING TOOLS

P	**8J-1434**	**TOOTH, STRAIGHT**	67 67	**$805** **$805 NI**
		NOTE AVAIALABLE for use as NOT INSTALLED ONLY with Miscellaneous order for RIPPER-SCARIFIER, REAR using 0P-2971 140M3 MISC MATERIAL Ripper tooth group for rear ripper. Includes one straight shank with ripper tooth. Recommended order quantity of 2 ONLY FOR USE WITH: RIPPER/SCARIFIER		
P	**4K-3330**	**SHANKS/TEETH, RIPPER/SCARIFIER**	152 152	**$1,404** **$1,404 NI**
		NOTE AVAIALABLE for use as NOT INSTALLED ONLY with Miscellaneous order for RIPPER-SCARIFIER, REAR using 0P-2971 140M3 MISC MATERIAL Nine shanks for ripper and scarifier combination. Utilizes the scarifier shank positions on a ripper and scarifier combination. Will work with a midmount scarifier ONLY FOR USE WITH: RIPPER/SCARIFIER		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

FIELD INSTALLED ATTACHMENTS

Please refer to the Caterpillar Work Tools Price List (WT-MG) for Motor Grader work tools.

Available Through Parts Distribution

Reference numbers below are kits used to upgrade existing motor graders with new features or technology

463-6258 KIT, JOYSTICK,ADVANCED CONTROL
Improves operational efficiency when utilizing ACCUGRADE or GRADE CONTROL X SLOPE.
Estimated install Hours: 2.5
Special Instructions: REHS8847

442-8145 KIT, ACCUMULATOR, BLADE LIFT
Provides hydraulic lines for base functions and accumulators for the blade lift. Allows approximately 1-3" of vertical blade travel to reduce impact loads. Nitrogen/oil accumulators activated by electric switch.
Estimated install Hours: 8
Special Instructions: REHS4230

466-5233 KIT, EXTENSIONS, MIRROR HEATED
9" extension from Current Mirror, adds 2 additional mirrors 1 for front visibility and 1 rear visibility. Heated to keep free of ice and snow in cold weather
Estimated install Hours: 2

466-5255 KIT, EXTENSIONS, MIRROR STD
9" extension from Current Mirror, adds 2 additional mirrors, 1 for front visibility and 1 rear visibility
Estimated install Hours: 2

524-8603 KIT,LEFT HAND BLADE EXTENSION
24" x 24" x 7/8" - Left Hand Blade Extension Kit for use with 12 ft. and 14 ft. Basic Moldboards.
Estimated install Hours: 1.5

524-8604 KIT,LEFT HAND BLADE EXTENSION
24" x 27" x 1" - Left Hand Blade Extension Kit for use with 14 ft. Plus Moldboard.
Estimated install Hours: 1.5

524-8605 EXTENSION, BLADE, 24" RH
24" x 24" x 7/8" - Right Hand Blade Extension Kit for use with 12 ft. and 14 ft. Basic Moldboards.
Estimated install Hours: 1.5

524-8606 EXTENSION, BLADE, 24" RH
24" x 27" x 1" - Right Hand Blade Extension Kit for use with 14 ft. Plus Moldboard.
Estimated install Hours: 1.5

524-8607 KIT, SPARE RIM
14" x 25" MP Spare Rim
Estimated install Hours: 0.5

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

FIELD INSTALLED ATTACHMENTS (CONT.)

Available Through Parts Distribution (Cont.)

524-8609 **KIT, SPARE RIM**
10" x 24" MP Spare Rim
Estimated install Hours: 0.5

488-2192 **KIT, CIRCLE SAVER**
Circle Saver
Estimated install Hours: 0.5
Special Instructions: REHS4230

415-3925 **KIT, FENDERS, FRONT**
12/140/160M3 Tandem Front Fender Kit

434-1065 **KIT, FENDERS, REAR**
12M3 & 140M3 Rear Fender Kit

380-3889 **KIT, HEATED GLASS, RH DOOR**
Right Hand Heated Door Glass
Special Instructions: REHS7154

380-3885 **KIT, HEATED GLASS,WIDE FRONT**
Wide Front Heated Glass
Special Instructions: REHS7155

380-3886 **KIT, HEATED GLASS,NARROW FRONT**
Narrow Front Heated Glass
Special Instructions: REHS7155

473-5233 **KIT, STORAGE, CAB**
12/140/160M3 Cab Storage Kit

PACKING

MACHINE PACKING (Must Select One)

0P-0251 **DOMESTIC TRUCK** . . . . . 0 **NC**

0P-6645 **BUNDLED, LESS TIRES** . . . . . 0 **$1,175 NET**
Ships less tires. Rims ship on a separate skid.

ATTACHMENT PACKING

0P-0210 **PACK, DOMESTIC TRUCK** . . . . . 0 **NC**
Use for miscellaneous material orders.

0P-1935 **BUNDLED FRONT LIFT GROUP** 0 **$1,175**
Required when ordering the Not Installed
Lift Group,Manual,Front
REQUIRED BY: LIFT GROUP, MANUAL, FRONT NI

140M3 AWD MOTOR GRADER
PIRACICABA, BRAZIL

	Ship Weight lbs	LIST PRICE AT DEALER

Standard Equipment:

POWERTRAIN

Air cleaner, dual stage dry type radial seal with service indicator and automatic dust ejector
Air-to-air after cooler (ATAAC)
Belt, serpentine, automatic tensioner
Brakes, oil disc, four-wheel, hydraulic
Demand fan, hydraulic
Differential, lock/unlock, Automatic
Drain, engine oil, ecology
Electronic over-speed protection
Engine:
-C9 with ACERT technology, diesel with automatic engine derate and idle control. EPA/ARB Tier 4 Final & EU stage
-IV certified Engine & Aftertreatment
Parking brake, multi-disc, sealed and oil cooled.
Sediment drain, fuel tank.
Tandem drive
Transmission, 8 speed forward and 6 speed reverse, power shift, direct drive
VHP plus (Variable Horse Power Plus)

ELECTRICAL

Alarm, back-up
Alternator, 150 ampere, sealed
Batteries, maintenance free, heavy duty, 1125 CCA
Breaker panel, ground accessible
Electrical hydraulic valves
Electrical system, 24V
Grade control ready (Cab harness, software, electrical hydraulic valves, bosses and brackets)
Lights, reversing
Lights, roading, roof-mounted, stop and tail, LED
Starter, electric

OPERATOR ENVIRONMENT

Air Conditioning with heater
Articulation, automatic return to center
Centershift pin indicator
Display, digital speed and gear
Doors, left and right side with wiper
Gauge, machine level
Gauges (analog) inside the cab (includes fuel, articulation, engine coolant temp, engine RPM, and hydraulic oil temp, DEF/AdBlue)
Joystick, adjustable armrests
Joystick gear selection, hydraulic power steering hydraulic controls (right/left, blade lift w/ float position, blade sideshift and tip, circle drive, centershift, front wheel lean and articulation and steering)
Lights, night time cab
Messenger operator information system
Meter, hour, digital
Mirror, inside rearview, wide angle
Power Port, 12V
Radio Ready, Entertainment
ROPS cab, sound suppressed
- 69dB(A) - ISO 6394
Seat,cloth-covered, comfort suspension
Storage area for cooler/lunchbox
Throttle control, electronic
Windows laminated glass:
-Fixed front with intermittent wiper
-Door with intermittent wipers (3)
Windows tempered:
-Left and right side wipers
-Rear with intermittent wiper
Cab storage

SAFETY AND SECURITY

Clutch, circle drive slip
Doors, 2 engine compartment, (two left hand, two right hand) locking
Doors, 2 service, left and right locking
Ground level engine shutdown
Hammer (emergency exit)
Horn, electric
Lockout, hydraulic implement (for roading and servicing)
Seat belt, retractable 76.2mm (3")
Secondary steering
Tandem walkway/guards

TIRES, RIMS, AND WHEELS

A partial allowance for tires on 254mm x 609.6mm (10" x 24") multi-piece rims is included in the base machine price and weight.

FLUIDS

Antifreeze
Extended life coolant -35C/-30F

OTHER STANDARD EQUIPMENT

Accumulators -brake -dual certified
Drawbar,6 shoe w/replaceable wear strips
Fluid check, ground level
Fuel tank, 398 liters (105 gallon)
Ground level fueling
DEF/AdBlue Tank, 21 liters (5.5 gallon)

140M3 AWD MOTOR GRADER
PIRACICABA, BRAZIL

	Ship Weight lbs	LIST PRICE AT DEALER

OTHER STANDARD EQUIPMENT (CONT.)

Hydraulic lines for base functions
Pump, hydrailic, high capacity
(98cc / 15 cu in)
Radiator, cleanout access
(both sides with swing doors)
SOS ports - engine -hydraulic
-transmission -coolant -fuel
Tandem walkway/guards
Tool box
Debris guard

140M3 AWD MOTOR GRADER PIRACICABA, BRAZIL	Ship Weight lbs	LIST PRICE AT DEALER

Lane 2 is reserved for the Base Order Management Program.
Please use Lane 2 when placing orders that are part of the Base Order Management Program.

140M3 AWD MOTOR GRADER PIRACICABA, BRAZIL		Ship Weight lbs	LIST PRICE AT DEALER
384-5805	**140M3 AWD MOTOR GRADER**	39,877	**$435,910**
	LANE 2 - AVAILABLE FROM PIRACICABA FACTORY LANE 3 - AVAILABLE FROM PIRACICABA FACTORY		
0P-2982	**140M3 AWD MISC MATL**	0	**NC**
	AVAILABLE FROM PIRACICABA FACTORY		

Only reference numbers that have the text
"ALSO AVAILABLE ON A MISCELLANEOUS ORDER" can be used on a MISC order.

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

LANE SELECTION

	0P-9002	**LANE 2 ORDER**	0	NC
		Only for dealers enrolled in the Base Orders Management (BOM) program.		
	0P-9003	**LANE 3 ORDER**	0	NC

REGIONAL PACKAGES

REGIONAL PACKAGES

L	385-9294	**GLOBAL ARRANGEMENT**	0	NC
		Provides standard brake accumulators. For use in temperatures above -18C		
		CANNOT BE USED WITH: WEATHER, COLD PLUS		
L	385-9297	**GLOBAL ARRANGEMENT,LOW AMBIENT**	0	NC
		Provides brake accumulators for low ambient temperatures below -18C		
		CANNOT BE USED WITH: EU dealers		
		WEATHER, STANDARD		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

PERFORMANCE PACKAGES

MOLDBOARDS

L	349-3046	**MOLDBOARD, 12'**	0	NC
		FOR USE IN LANE 3 ONLY INCLUDES: - Moldboard 12' x 24" x 7/8" (3658mm x 610mm x 22mm) - Curved Cutting Edge, 6" X 5/8" (152mm x 16mm) - End Bits, Standard, Without Overlay		
L	349-3047	**MOLDBOARD, 14' BASIC**	347	$1,140
		INCLUDES: - Moldboard 14' x 24" x 7/8" (4267mm x 610mm x 22mm) - Curved Cutting Edge, 8" x 3/4" (203mm x 19mm) - End Bits, Standard, Without Overlay		
L	349-3048	**MOLDBOARD, 14' PLUS**	650	$2,710
		INCLUDES: - Moldboard 14' x 27" x 1" (4267mm x 686mm x 25mm) - Curved Cutting Edge, 8" x 3/4" (203mm x 19mm) - End Bits, Standard, With Overlay		

WORK TOOLS

L	393-4882	**NO HITCH**	0	NC
L	337-7510	**HITCH, TOWING**	0	$540
L	324-0889	**RIPPER/SCARIFIER**	2,120	$20,380
		Hydraulic, rear mounted ripper with three straight ripper shanks. Can accommodate two additional ripper shanks and nine scarifier teeth which must be ordered separately. REQUIRES: A hydraulics control part number that has a ripper function. INCLUDES: Ripper Mounting		
L	539-6894	**RIPPER, SNOW WING READY**	0	$23,830
		FOR USE IN LANE 3 ONLY Hydraulic, rear mounted ripper with three straight ripper shanks. Includes the mount for the Caterpillar Mastless Snow Wing on the right side of the ripper backplate. Can accommodate two additional ripper shanks, nine scarifier teeth, and the Caterpillar Mastless Snow wing which must be ordered separately. CANNOT BE USED WITH: Legacy Snow Wings		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

PERFORMANCE PACKAGES (CONT.)

WEATHER PACKAGES

L	353-3330	**STANDARD WEATHER AWD**	0	NC
		Recommended for year around use when typical ambient temperature range is 0C (32F) to 43C (110F) and operating at altitude below 1220 m (4000 feet). INCLUDES: - Batteries, Heavy Duty - 1125 CCA - Oil, Hydraulic, 10W FOR USE WITH: GLOBAL ARRANGEMENT FOR USE WITH: EUROPEAN ARRANGEMENT FOR USE WITH: EUROPEAN AR. W/ ROADING (TUV) CANNOT BE USED WITH: GLOBAL ARRANGEMENT,LOW AMBIENT		
L	394-4523	**COLD WEATHER PACKAGE AWD**	0	$760
		Recommended for year around use when typical ambient temperature range is -18C (0F) to 43C (110F) and operating at altitude below 1220 m (4000 feet). INCLUDES: - Starting Aid, Ether - Batteries, Extreme Duty -1400 CCA - Oil, Hydraulic, 10W - Cold Start arrangement ONLY FOR USE WITH: GLOBAL ARRANGEMENT; GLOBAL ARRANGEMENT,LOW AMBIENT; CANADIAN ARRANGEMENT; EUROPEAN ARRANGEMENT; EUROPEAN AR. W/ ROADING (TUV)		
L	394-4524	**COLD WEATHER PLUS PACKAGE AWD**	37	$3,765
		Recommended for year around use when typical ambient temperature range is -40C (-40F) to 40C (104F) or operating at altitude above 1220 m (4000 feet). INCLUDES: - Starting Aid, Ether - Cold Start; Transmission oil and fan brake bypass - Batteries, Extreme Duty -1400 CCA - Oil, Hydraulic, Cold, 0W REQUIRES: HEATER, ENGINE COOLANT, 120V or HEATER, ENGINE COOLANT, 240V REQUIRED BY: SNOW ARRANGEMENT FOR USE WITH: GLOBAL ARRANGEMENT,LOW AMBIENT FOR USE WITH: CANADIAN ARRANGEMENT FOR USE WITH: EUROPEAN ARRANGEMENT FOR USE WITH: EUROPEAN AR. W/ ROADING (TUV) CANNOT BE USED WITH: GLOBAL ARRANGEMENT		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

PERFORMANCE PACKAGES (CONT.)

ACCUMULATORS

L	305-2927	**LINES,STANDARD W/O ACCUMULATOR**	0	NC
		Provides hydraulic lines for base functions		
L	358-9338	**ACCUMULATORS, BLADE LIFT**	170	$4,665
		Provides hydraulic lines for base functions and accumulators for the blade lift. Allows approximately 1-3" of vertical blade travel to reduce impact loads. Nitrogen/oil accumulators activated by electric switch. CANNOT BE USED WITH: Canadian Dealers.		

PRECLEANER

L	380-6774	**PRECLEANER, NON SY-KLONE**	0	NC
		Includes dust ejector for medium to heavy dust environments.		
L	380-6775	**PRECLEANER, SY-KLONE**	5	$750
		Recommended for environments with large debris (leaves, chips, large grass, etc.)		

POWERTRAIN

OIL CHANGE

L	324-5328	**DRAIN, GRAVITY, ENGINE OIL**	0	NC
		Standard engine oil drain		
L	501-1163	**DRAIN, HIGH SPEED, ENGINE OIL**	0	$286
		High speed engine oil drain. Requires pump at service location to be attached to coupling receiver for high speed flow. HSO drain can also manual/gravity drain.		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS

NOTE: Optional Control Locations

Caterpillar offers many attachment hydraulic controls to operate work tools. Depending on which hydraulic part number is selected, the operating electro-hydraulic switches may include the auxiliary pod, mini-joystick located on the auxiliary pod, and/or the ripper control pod.

NOTE: Auxiliary controls that can have float

Auxiliary Pod Controls

```
INDEX = Index Finger (front lift)(float capability)
MID = Middle Finger(dozer angle 1)
RING = Ring Finger (dozer angle 2)
LITTLE= Little Finger (float capability)
```

NOTE: Mini-Joystick

```
 Fore/Aft
     .
    / \
     |
<--------->  Left/Right (float capability)
     |
    \ /
     .
```

NOTE: Ripper Control Pod

```
RH1   =  Front Lift (float capability)
RH2   =  Ripper-Scarifier Control
RHD   =  Ripper Handle Dual Switch (RH1 & RH2)
```

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

NOTE: Common Functions

COMMON FUNCTIONS:

Base = 8 functions: right and left blade lift, circle turn, drawbar center shift, blade side shift, blade tip, front wheel lean, frame articulation.

```
     FL      = Front Lift (moves front work tools up/down)
     DA1     = Dozer Angle 1 (angles front blade left OR right)
     DA2     = Dozer Angle 2 (angles front blade left AND right)
     RIP     = Rear Mounted Ripper (moves ripper up/down)
     MMS     = Mid-Mounted Scarifier
     WM      = Wing Mast
     WT      = Wing Tilt
     Float   = Built-in feature of valve section that opens both the
               work ports to tank. The external forces (weight of the
               work ports to tank. The external forces (weight of the
                implement) allows free movement of the implement.
     Flow Rate=Provides maximum rate of fluid flow from the specific
                work port.  B/A represents the maximum flow rate in
                Port B/Port A* in LPM (liters per minute).
                Port B/Port A* in LPM (liters per minute).

 *NOTE: Each valve section has two work ports (Port A and Port B).
     Port A:  Used to either raise implement or move implement to the
     right or for clockwise rotation of the implement.
     Port B:  Used to either lower implement or move implement to the
     left or for counter-clockwise rotation of the implement.
```

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

HYDRAULIC VALVE LOCATIONS

This illustration shows the factory installed switch location for each function by hydraulic part number.

Part Number	MINI-JOYSTICK Front Aft	MINI-JOYSTICK Left/ Right Float	MINI-JOYSTICK Index with Float	AUXILIARY POD Mid	AUXILIARY POD Ring	AUXILIARY POD Little	RIPPER POD RHD RH1	RIPPER POD RHD RH2
242-5056								
385-8094								RIPPER
Float:								N
Flow rate:								49/49
354-4113								MID-MOUNT SCARIFIER
Float:								Y
Flow Rate:								25/36
309-9848							FR.LIFT	
Float:							Y	
Flow Rate:							46/60	
385-8095							FR.LIFT	RIPPER
Float:							Y	N
Flow rate:							46/60	49/49
395-2008	MAST	TILT	FR.LIFT					
Float:	N	N	Y					
Flow rate:	72/72	41/30	46/60					
385-8096			FR.LIFT	DA1				RIPPER
Float:			Y	N				N
Flow rate:			46/60	72/72				49/49
385-8099	MAST	TILT	FR.LIFT					RIPPER
Float:	N	Y	Y					N
Flow rate:	72/72	74/86	46/60					49/49
385-8100	MAST	TILT	FR.LIFT					RIPPER
Float:	N	N	Y					N
Flow rate:	72/72	41/30	46/60					49/49
395-2009	MAST	TILT	FR.LIFT	DA1	MID-MOUNT SCARIFIER			
Float:	N	N	Y	N	N			
Flow rate:	72/72	41/30	46/60	72/72	25/36			

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

HYDRAULIC VALVE LOCATIONS LANE 3 ONLY

Part Number	MINI-JOYSTICK Front Aft	MINI-JOYSTICK Left/ Right Float	AUXILIARY POD Index with Float	AUXILIARY POD Mid	AUXILIARY POD Ring	AUXILIARY POD Little	RIPPER POD RH1	RIPPER POD RH2
385-8097			FR.LIFT				MID-MOUNT SCARIFIER	RIPPER
Float:			Y				N	N
Flow rate:			46/60				25/36	49/49
385-8101	MAST	TILT	FR.LIFT	DA1				RIPPER
Float:	N	N	Y	N				N
Flow rate:	72/72	41/30	46/60	72/72				49/49
385-8103	MAST	TILT	FR.LIFT	DA1	DA2			RIPPER
Float:	N	N	Y	N	N			N
Flow rate:	72/72	41/30	46/60	72/72	72/72			49/49
481-8610	MAST	TILT	FR.LIFT	DA1	DA2			RIPPER
Float:	N	N	Y	N	N			N
Flow rate:	72/72	74/86	46/60	72/72	72/72			49/49

HYDRAULIC VALVE PART NUMBERS

L	242-5056	**HYDRAULICS, BASE**	0	NC
		Base hydraulic system includes machine articulation, wheel lean, left and right blade lift with independent float, drawbar centershift, circle drive, blade sideshift and tip.		
L	385-8094	**BASE + 1 (RIP)**.	21	$2,300
		Ripper function. Includes the Ripper Lines. ONLY FOR USE WITH: RIPPER-SCARIFIER, REAR		
L	354-4113	**BASE + 1 (MMS)**	21	$2,300
		Mid-Mount Scarifier function. Includes the Mid-Mount Scarifier Lines. ONLY FOR USE WITH: MID MOUNT SCARIFIER PACKAGE		
L	309-9848	**BASE + 1 (FL)**.	18	$1,890
		Front Lift function. Includes the Front Lift Lines. ONLY FOR USE WITH: LIFT GROUP, MANUAL, FRONT or FRONT BLADE PACKAGE		
L	385-8095	**BASE + 2 (FL,RIP)**	37	$4,085
		Ripper and Front Lift functions. Includes the Front Lift Lines and Ripper Lines. ONLY FOR USE WITH: RIPPER-SCARIFIER, REAR and LIFT GROUP, MANUAL, FRONT or FRONT BLADE PACKAGE		
L	395-2008	**BASE + 3 (WM,WT-NOFLOAT,FL)**	60	$6,540
		Front Lift, Snow Wing Mast, and Snow Wing Tilt ONLY FOR USE WITH: SNOW ARRANGEMENT and LIFT GROUP, MANUAL, FRONT or FRONT BLADE PACKAGE		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

HYDRAULIC VALVE PART NUMBERS (Cont.)

L	385-8096	**BASE + 3 (FL,DA1,RIP)**	67	$7,460
		FOR USE IN LANE 3 ONLY Ripper, Front Lift and Angle functions. Includes the Front Lift Lines Dozer Angle 1 Lines, and Ripper Lines. ONLY FOR USE WITH: RIPPER-SCARIFIER, REAR and LIFT GROUP, MANUAL, FRONT or FRONT BLADE PACKAGE		
L	385-8099	**BASE + 4 (WM,WT-FLOAT,FL,RIP)**	85	$8,960
		Ripper, Front Lift, Snow Wing Mast and Snow Wing Tilt (74/86 with float) functions. Includes the Front Lift Lines and Ripper Lines. ONLY FOR USE WITH: SNOW ARRANGEMENT and RIPPER-SCARIFIER, REAR and LIFT GROUP, MANUAL, FRONT or FRONT BLADE PACKAGE		
L	385-8100	**BASE + 4 (WM,WT,FL,RIP) NOFLT**	85	$8,700
		FOR USE IN LANE 3 ONLY Ripper, Front Lift, Snow Wing Mast and Snow Wing Tilt (41/30 - No Float) functions. Includes the Front Lift Lines and Ripper Lines. ONLY FOR USE WITH: SNOW ARRANGEMENT and RIPPER-SCARIFIER, REAR and LIFT GROUP, MANUAL, FRONT or FRONT BLADE PACKAGE		
L	395-2009	**BASE + 5 (WM,WT,DA1,FL,MMS)**	120	$10,790
		FOR USE IN LANE 3 ONLY Snow Wing Mast, Snow Wing Tilt (41/30 - No Float) functions, Dozer Angle 1, Front LIFT, and Mid-Mount Scarifier Includes the Front Lift Lines, Angle 1 Lines, and Mid-Mount Scarifier Lines. ONLY FOR USE WITH: SNOW ARRANGEMENT and RIPPER-SCARIFIER, REAR and LIFT GROUP, MANUAL, FRONT or FRONT BLADE PACKAGE		
L	385-8097	**BASE+3 (RIP, MMS, FL)**	67	$7,460
		FOR USE IN LANE 3 ONLY Front Lift, Ripper and Mid-Mount Scarifier functions. Includes the Front Lift Lines, Ripper Lines and Mid-Mount Scarifier Lines. ONLY FOR USE WITH: RIPPER-SCARIFIER, REAR and MID MOUNT SCARIFIER PACKAGE and LIFT GROUP, MANUAL, FRONT or FRONT BLADE PACKAGE		
L	385-8101	**BASE + 5 (WM,WT,DA1,FL,RIP)**	120	$10,790
		FOR USE IN LANE 3 ONLY Snow Wing Mast, Snow Wing Tilt (41/30 - No Float) functions, Dozer Angle 1, Front LIFT, and Ripper. Includes the Front Lift Lines, Angle 1 Lines, and Ripper Lines. ONLY FOR USE WITH: SNOW ARRANGEMENT and MOUNT, SNOW WING, FRAME READY and RIPPER-SCARIFIER, REAR and LIFT GROUP, MANUAL, FRONT or FRONT BLADE PACKAGE		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

HYDRAULIC VALVE PART NUMBERS (Cont.)

L	385-8103	**BASE + 6(WM,WT,DA1,DA2,FL,RIP)**	130	**$13,350**
		FOR USE IN LANE 3 ONLY Ripper, Dozer Angle 1, Dozer Angle 2, Front Lift, Snow Wing Mast and Snow Wing Tilt (41/30 - No Float) functions. Includes the Front Lift Lines, Dozer Angle 2 Lines and Ripper Lines. ONLY FOR USE WITH: SNOW ARRANGEMENT and MOUNT, SNOW WING, FRAME READY and RIPPER-SCARIFIER, REAR and LIFT GROUP, MANUAL, FRONT or FRONT BLADE PACKAGE		
L	481-8610	**BASE+6(WM,WT+F,DA1,DA2,FL,RIP)**.	130	**$13,620**
		FOR USE IN LANE 3 ONLY Ripper, Dozer Angle 1, Dozer Angle 2, Front Lift, Snow Wing Mast and Snow Wing Tilt (72/72 + Float) functions. Includes the Front Lift Lines, Dozer Angle 2 Lines and Ripper Lines. ONLY FOR USE WITH: SNOW ARRANGEMENT and MOUNT, SNOW WING, FRAME READY and RIPPER-SCARIFIER, REAR and LIFT GROUP, MANUAL, FRONT or FRONT BLADE PACKAGE		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

STARTERS, BATTERIES, & ALTERNATORS

STARTER ARRANGMENT

L	394-3945	**STARTER, ELECTRIC, HEAVY DUTY**	0	NC
		Provides a 715 Amp. starter		
L	395-3547	**STARTER, ELEC, EXTREME DUTY**	21	$408
		Recommended for Cold weather applications		
		Provides a 1000 Amp. starter		

ELECTRICAL

BRAKE LIGHTS

L	331-6793	**LIGHTS, BRAKE AND BACK-UP**	0	NC
		FOR USE IN LANE 3 ONLY		
		Provides stationary rear brake lights along with the back-up lights.		
		Does not include front headlights or turn signals		
		CANNOT BE USED WITH: 526-2563 EUROPEAN ARRANGEMENT		
		394-3871 EUROPEAN AR. W/ ROADING (TUV)		
		396-1966 SNOW ARRANGEMENT		
		553-2588 HEADLIGHTS, FRONT, LOW, LED or		
		553-2589 HEADLIGHTS, FRONT, HIGH, LED or		
		308-9370 HEADLIGHTS,FRONT, LOW, HALOGEN or		
		308-9371 HEADLIGHTS,FRONT, HIGH,HALOGEN		
L	536-9969	**LIGHTS, ARM, FOLD DOWN**	0	$1,875
		Provides stationary rear brake lights along with the back-up lights, dimmer switch for road lighting, drop-down stop, tail, and rear turn signals and back-up lights.		
		REQUIRES: 553-2588 HEADLIGHTS, FRONT, LOW, LED or		
		553-2589 HEADLIGHTS, FRONT, HIGH, LED or		
		308-9370 HEADLIGHTS,FRONT, LOW, HALOGEN or		
		308-9371 HEADLIGHTS,FRONT, HIGH,HALOGEN		
		INCLUDED IN: 396-1966 SNOW ARRANGEMENT		

ROADING LIGHTS

L	421-7810	**LIGHTS, ROADING, HALOGEN**	0	NC
		Provides six halogen cab roof mounted roading lights.		
L	550-6608	**LIGHTS, ROADING, LED**	0	$1,245
		Provides six LED cab roof mounted roading lights.		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

OPERATOR ENVIRONMENT

CAB EXTERIOR

L	385-9553	**CAB, BASE (STANDARD GLASS)**	0	NC
		FOR USE IN LANE 3 ONLY INCLUDES: - 150 amp alternator - Standard Glass CANNOT BE USED WITH: SNOW ARRANGEMENT EUROPEAN ARRANGEMENT EUROPEAN AR. W/ ROADING (TUV)		
L	385-9554	**CAB, PLUS (STANDARD GLASS)**	35	$1,105
		INCLUDES: - 150 amp alternator - Wiper/washer, rear - Standard Glass		
L	385-9555	**CAB, PLUS (ANTI-ICING GLASS)**	35	$6,630
		INCLUDES: - 270 amp alternator - Wiper/washer, rear - Front glass and RH door glass are heated.		

CAB INTERIOR

Bluetooth radio technology enables the use of a hands free function such as listening to music and making phone calls.
Authorization varies by country, please contact your Cat marketing representative with questions or click on the link below:
https://dealer.cat.com/en/products/technology.html

L	397-7456	**CAB, BASE (INTERIOR)**	0	NC
		FOR USE IN LANE 3 ONLY INCLUDES: - Seat, mechanical suspension, cloth - Shade, Sun CANNOT BE USED WITH: SNOW ARRANGEMENT EUROPEAN ARRANGEMENT EUROPEAN AR. W/ ROADING (TUV)		
L	397-7457	**CAB, PLUS (INTERIOR)**	45	$3,010
		INCLUDES: - Seat, Air Suspension, Cloth, Heated - Radio,12V, AM/FM, Weatherband, Bluetooth, USB, Aux Input - Fan, defroster, rear window - Converter, Communication (CB) - Shade, Sun		
L	397-7458	**CAB, PREMIUM (INTERIOR)**	80	$4,580
		- Seat, air suspension, cloth; Heated, Ventilated - Radio,12V, AM/FM CD/MP3 Bluetooth, Weatherband, USB, Aux Input XM/Sirius Satellite (439-1564) - Fan, defroster, rear window - Converter, Communication (CB) - Shade, Sun *Recommended for Snow Removal		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

OPERATOR ENVIRONMENT (CONT.)

SEAT BELT

L	394-1492	SEAT BELT	0	NC
		Standard 3 inch seat belt		
L	394-1132	SEAT BELT W/INDICATOR	5	$193
		Standard 3 inch seat belt with indicator located on display panel		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

TECHNOLOGY PRODUCTS

PRODUCT LINK

Product Link enables the remote transmission of information about the location, operation, and condition of your equipment. Efficiently and effectively monitor performance of your assets to help keep your jobs on schedule, maintain equipment condition, and reduce the costs of owning and operating your fleet.

Availability varies by country, please contact your Cat marketing representative with questions or click on the link below:
HTTPS://DEALER.CAT.COM/en/bt/otd/machine-price-list.html
From there click on the 'PRODUCT LINK Hardware Certification" link.

L	464-6804	**PRODUCT LINK, SATELLITE PLE631**	29	$432
		Product Link Elite series PLE631 uses a satellite network to transmit location, utilization and condition information for viewing in Product Link's remote monitoring web interface. For use in areas with poor or no cellular coverage. Includes Network Manager.		
L	464-6442	**PRODUCT LINK, CELLULAR PLE641**	29	NC
		Product Link Elite series PLE641 offers expanded coverage including 3G UMTS and CDMA2000 as well as 2G GSM and CDMA cellular networks to transmit location, utilization and condition information for viewing in Product Link-s remote monitoring web interface. Cellulartechnology provides capabilities for frequent transmission and larger volumes of data.		

ACCUGRADE

L	362-5222	**NO ACCUGRADE**	0	NC
L	462-7930	**INSTALLATION, ACCUGRADE READY**	90	$4,830
		Allows the Motor Grader to be equipped with either a Cross Slope, Sonic, Laser, GPS, or ATS electronics kit. Provides software, harnesses for sensors, mounting for sensors and blade mast bracket.		

NOTE: Highly recommended to select Advanced Joystick Controls. This will Allow for complete configuration and control when using 3 party grade control systems

L	462-7931	**GRADE CONTROL X SLOPE**	165	$11,060
		Allows the operator to manually control one end of the blade to match the curb or crown while automatically maintaining the desired slope of the blade. This system is used to maintain the crown of a gravel road or the shoulder of a road. Provides cab switches, software, harnesses for sensors, mounting for sensors and blade mast bracket. Accugrade Ready is included in this option REQUIRES: JOYSTICK CONTROLS, ADVANCED		

MOTOR GRADER CONTROLS

L	357-9151	**JOYSTICK CONTROLS, BASIC**	6	NC
		Standard joystick controls.		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

TECHNOLOGY PRODUCTS (CONT.)

MOTOR GRADER CONTROLS (Cont.)

L	458-8701	**JOYSTICK CONTROLS, ADVANCED**	8	$2,030
		Provides enhanced functionality while using ACCUGRADE READY or GRADE CONTROL X SLOPE INCLUDES: - Advanced Joysticks - Harness - Films REQUIRED BY: GRADE CONTROL X SLOPE. RECOMMENDED FOR USE WITH: ACCUGRADE READY INCLUDED IN: 492-3595 CONTROLS, PERFORMANCE BUNDLE		

FUEL SYSTEMS

L	540-2373	**TANK, FUEL, STANDARD**	0	NC
		Standard Fuel 105 gallon (398 L)		
L	553-3677	**TANK, FUEL, FAST FILL**	0	$1,410
		Fuel tank is ready to accept fast fill 100 gpm nozzle. Tank capacity is 105 gallons (398 L)		

COOLING

COOLING FAN

L	542-4660	**FAN, STANDARD**	0	NC
		Provides a hydraulically driven demand fan		
L	542-4661	**FAN, REVERSING**	0	$3,105
		Provides a hydraulically driven demand fan that can reverse direction to prevent debris build up on the cooling package and engine enclosure. Includes automatic and manual controls for airflow reversal. Recommended for applications with a high content of airborne debris.		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

TIRES, RIMS, AND WHEELS

Tires listed below include a set of six tires.
****To calculate tire loads with machine attachments, please reference the MG Tire Selection Pocket Guide (media #AEXQ0182), available on the Electronic Sales Library.**
All tire selections should be made with consideration for planned machine attachments (OEM and aftermarket) and their additional weight. Each tire has a maximum load rating that is not to be exceeded. The tire selection should be based on the maximum of all tire position loads on the machine. Assistance for calculating the highest tire load can be found in the Tire Load Worksheet in the back of the Caterpillar Motor Graders Tire Selection Pocket Guide. Failure to abide by the load ratings of the tires without first consulting the local tire supplier representative could result in nullification of the tire warranty.

Due to industry-wide tire availability limitations, tire brand and type cannot be guaranteed. Every effort will be made to satisfy your tire choice, but we reserve the right to change to alternate tires. If the tire brand cannot be supplied, the dealer will be contacted to propose alternative tire options. The dealer will need to respond with an alternative tire selection within 72 hours. If no response is provided by the supplier, the order will default to a comparable tire. As a consequence of a tire change the total machine price will be decreased or increased relative to the price of the new tire selection.

The information provided can be used to make a tire selection based on the particular conditions at the site. When available, the tire manufacturer should be consulted regarding proper tire selection.

Application specific

L	515-5404	**TIRES,14.0R24 SOIL TRACTION MP**	0	$5,970
		Tire group received will be one of the tire groups listed below: - Bridgestone VKT 1* on 10" x 24" multi-piece rims. - Michelin XGLA2 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	515-5405	**TIRES,17.5R25 SOIL TRACTION MP**	0	$12,440
		Tire group received will be one of the tire groups listed below: - Bridgestone VKT 1* on 14" x 25" multi-piece rims. - Michelin XTLA 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

TIRES, RIMS, AND WHEELS (CONT.)

Goodyear

L	310-7327	**TIRES, GY17.5R25* COMBO MP**	1,200	**$20,290**
		Goodyear RL2+ 6S on 14" x 25" multi-piece rims THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		

Bridgestone

L	252-0722	**TIRES, 14.0R24 BS VUT * L2 MP**	991	**$7,250**
		FOR USE IN LANE 3 ONLY Bridgestone VUT 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	249-7841	**TIRES, 17.5R25 BS VKT * D2A MP**	1,620	**$13,440**
		Bridgestone VKT 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	252-0716	**TIRES, 14.0R24 BS VKT * G2 MP**	1,519	**$6,970**
		Bridgestone VKT 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	252-0710	**TIRES, 14.0R24 BS VSW * G2 MP**	1,459	**$13,320**
		FOR USE IN LANE 3 ONLY Bridgestone VSW 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	310-7332	**TIRES, 17.5R25 BS VSW * G2 MP**	1,698	**$18,590**
		FOR USE IN LANE 3 ONLY Bridgestone VSW 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		

Michelin

L	249-7845	**TIRES,14.0R24 MX XSNO+ * G2 MP**	1,261	**$14,890**
		FOR USE IN LANE 3 ONLY Michelin XSNO 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (7824 lbs) 3550 kg.**		
L	252-0681	**TIRES,14.0R24 MX XGLA2 * G2 MP**	1,048	**$10,860**
		Michelin XGLA2 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (7824 lbs) 3550 kg.**		
L	252-0779	**TIRES,17.5R25 MX XSNO+ * G2 MP**	903	**$20,490**
		FOR USE IN LANE 3 ONLY Michelin XSNO+ 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	252-0773	**TIRES, 17.5R25 MX XTLA * L2 MP**	268	**$16,110**
		FOR USE IN LANE 2 ONLY Michelin XTLA 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

TIRES, RIMS, AND WHEELS (CONT.)

SHIPPING TIRES

L	440-3434	**TIRES, 17.5 SHIPPING, AWD, MP**	83	$2,250
		FOR USE WITH LANE 3 ONLY Shipping tire for use during shipment of machine only. Solid rubber band mounted on 14" x 25" multi-piece rims. Must be replaced with pneumatic tire before delivering to customer		
L	448-5584	**TIRES, 14.0 SHIPPING, AWD, MP**	69	$2,000
		FOR USE WITH LANE 3 ONLY Shipping tire for use during shipment of machine only. Solid rubber band mounted on 10" x 24" multi-piece rims. Must be replaced with pneumatic tire before delivering to customer.		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER
		GUARDS		
		Guards		
L	323-6970	**GUARD GP, HITCH**	25	NC
		Standard bottom plate just rear of articulation hitch		
L	368-6239	**ARTICULATION GUARD.**	30	$1,260
		Provides protection for the articulation rods from snow, dirt and		
		Highly recommended for snow removal applications, or below freezing		
		CANNOT BE USED WITH : SOUND SUPRESSION (BOTTOM)		
		CANNOT BE USED WITH: EUROPEAN ARRANGEMENT		
		FLUIDS		
		COOLANT ANTIFREEZE		
L	469-8157	**COOLANT, 50/50, -35C (-31F)**	0	NC
		Standard engine coolant		
L	469-8160	**COOLANT, 60/40, -51C (-60F)**	0	$245 NET
		Engine coolant recommended for extreme low temperatures		
		CAB ANTIFREEZE		
	0P-1939	**ANTIFREEZE WINDSHIELD WASHER**	0	NC
		For use with machines with cab.		
		FUEL ANTIFREEZE		
	0P-3978	**FUEL ANTIFREEZE, -25C (-13F)**	0	NC
		Provides fuel (diesel) antifreeze protection down to -25C (-13F)		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

DOCUMENTATION

LANGUAGE SELECTION

NOTE: This part number will provide the language for Messenger and Statement of Conformity

L	**386-1254**	**LANGUAGE, ENGLISH**	0	**NC**

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

DOCUMENTATION (CONT.)

DECAL PACKAGES

NOTE: This part number will provide the films in ANSI or ISO
The word "WARNING" is on picto decals for ANSI.
Symbols only are on picto decals for ISO.

L	**442-9940**	**DECALS, ENGLISH (U.S.)** . . . . . 0 Provides decals as required by ANSI.		**NC**

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

FEATURE PACKAGES

REGIONAL OPTIONAL PACKAGES

L	396-1966	**SNOW ARRANGEMENT**	355	$6,460

INCLUDES:
361-3137 MOUNTING, WARNING LIGHT
396-3515 TRANSMISSION, AUTOSHIFT
536-9969 LIGHTS, ARM, FOLD DOWN
RECOMMENDED: MIRRORS, OUTSIDE HEATED
REQUIRES: 395-3547 STARTER, ELEC, EXTREME DUTY or
395-3745 STARTER, ELEC, EXTRM DUTY(TUV) and
394-4524 COLD WEATHER PLUS PACKAGE AWD and
385-9554 CAB, PLUS (STANDARD GLASS) or
385-9555 CAB, PLUS (ANTI-ICING GLASS) or
397-7457 CAB, PLUS (INTERIOR) or
397-7458 CAB, PREMIUM (INTERIOR) and
395-2008 BASE + 3 (WM, WT-NOFLOAT, FL) or
385-8099 BASE + 4 (WM, WT-FLOAT, FL, RIP) or
385-8100 BASE + 4 (WM, WT, FL, RIP) NOFLT or
395-2009 BASE + 5 (WM, WT, DA1, FL, MMS) or
385-8101 BASE + 5 (WM, WT, DA1, FL, RIP) or
385-8103 BASE + 6 (WM, WT, DA1, DA2, FL, RIP) or
481-8610 BASE + 6 (WM, WT+F, DA1, DA2, FL, RIP) and
390-9182 MOUNT,SNOW WING,FRAME RDY HAL or
551-6546 MOUNT,SNOW WING,FRAME RDY LED and
395-1967 LIGHTS, WORKING, PLUS, HALOGEN or
552-7285 LIGHTS, WORKING, PLUS, LED and
553-2589 HEADLIGHTS, FRONT, HIGH, LED or
308-9371 HEADLIGHTS,FRONT, HIGH,HALOGEN

WORK TOOL PACKAGES

L	358-9341	**MID MOUNT SCARIFIER PACKAGE**	2,076	$16,290

FOR USE IN LANE 3 ONLY
INCLUDES:
- Mid-mount Scarifier, V-Type with 11 Teeth
- MOUNT, MID-MOUNT SCARIFIER
CANNOT BE USED WITH: Any Front Lift group
CANNOT BE USED WITH: FENDERS, FRONT, AWD

L	390-9182	**MOUNT,SNOW WING,FRAME RDY HAL**	251	$2,295

INCLUDES:
- Snow Wing Mount
- Light, halogen Snow Wing, Right Hand
REQUIRED BY: SNOW ARRANGEMENT

L	551-6546	**MOUNT,SNOW WING,FRAME RDY LED**	0	$2,710

INCLUDES:
- Snow Wing Mount
- Light, LED Snow Wing, Right Hand
REQUIRED BY: SNOW ARRANGEMENT

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

FEATURE PACKAGES (CONT.)

WORK TOOL PACKAGES (Cont.)

L	351-5178	**FRONT BLADE PACKAGE**	2,612	$11,510
		FOR USE IN LANE 3 ONLY INCLUDES: - Front Blade (Lift & Lower only) - Lines for Front Blade REQUIRES: A hydraulics control part number that has a Front Lift function. CANNOT BE USED WITH: COUNTERWEIGHT CANNOT BE USED WITH: PUSH PLATE CANNOT BE USED WITH: LIFT GROUP, MANUAL, FRONT (Installed) CANNOT BE USED WITH: LIFT GROUP, MANUAL, FRONT (NOT Installed)		

LIGHTING PACKAGES

L	395-1966	**LIGHTS, WORKING, BASIC,HALOGEN**	19	$770
		FOR USE IN LANE 3 ONLY INCLUDES: - Lights, halogen, Heel 3X3 - Lights, halogen, Midframe Toe 3X3 - Switch, Work Lighting		
L	395-1967	**LIGHTS, WORKING, PLUS, HALOGEN**	22	$1,035
		INCLUDES: - Lights, halogen, ripper 3X3 - Lights, halogen, work, heel 3X3 - Lights, halogen, work, midframe toe 3X3 - Switch, Work Lighting CANNOT BE USED WITH: LIGHTS, ROADING, LED MOUNT,SNOW WING,FRAME RDY LED REQUIRED BY: SNOW ARRANGEMENT		
L	552-7285	**LIGHTS, WORKING, PLUS, LED**	0	$2,590
		INCLUDES: - Lights, LED, ripper 3X3 - Lights, LED, work, heel 3X3 - Lights, LED, work, midframe toe 3X3 - Switch, work lighting CANNOT BE USED WITH: LIGHTS, ROADING, HALOGEN MOUNT,SNOW WING,FRAME RDY HAL REQUIRED BY: Snow Arrangement		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

FEATURE PACKAGES (CONT.)

OTHER OPTIONAL ATTACHMENTS

L	338-1132	**LIGHT, LED WARNING STROBE**	5	$565
		Amber high-speed strobe beacon. REQUIRES: MOUNTING, WARNING LIGHT		
L	361-3137	**MOUNTING, WARNING LIGHT**	10	$725
		Provides the bracket for warning beacon light INCLUDED IN: SNOW ARRANGEMENT		
L	396-3515	**TRANSMISSION, AUTOSHIFT**	5	$3,205
		Improves ease of operation and maximizes productivity by automatically shifting the transmission at optimal shift points. REQUIRED BY: EUROPEAN ARRANGEMENT REQUIRED BY: EUROPEAN AR. W/ ROADING (TUV) INCLUDED IN: SNOW ARRANGEMENT		
L	380-3070	**LIGHTS, SERVICE, INTERNAL**	5	$193
		Provides two lights operated by a single manual switch located in the rear enclosure. One light illuminates the engine compartment and the second light illuminates the hydraulic level sight gauge.		

ELECTRICAL

FRONT HEADLIGHTS

L	308-9370	**HEADLIGHTS,FRONT, LOW, HALOGEN**	0	$640
		Provides low bar headlights with front turn signals. REQUIRED BY: 526-2563 EUROPEAN ARRANGEMENT or 394-3871 EUROPEAN AR. W/ROADING (TUV) or 536-9969 LIGHTS, ARM, FOLD DOWN CANNOT BE USED WITH: 396-1966 SNOW ARRANGEMENT		
L	308-9371	**HEADLIGHTS,FRONT, HIGH,HALOGEN**	0	$640
		Provides HIGH bar headlights with front turn signals. REQUIRED BY: 526-2563 EUROPEAN ARRANGEMENT or 394-3871 EUROPEAN AR. W/ROADING (TUV) or 536-9969 LIGHTS, ARM, FOLD DOWN or 396-1966 SNOW ARRANGEMENT		
L	553-2588	**HEADLIGHTS, FRONT, LOW, LED**	0	$1,365
		Provides LOW bar LED headlights with front turn signals. CANNOT BE USED WITH: SNOW ARRANGEMENT ANY HALOGEN LIGHTING OPTION REQUIRED BY: LIGHTS,ARM, FOLD DOWN 526-2563 EUROPEAN ARRANGEMENT 394-3871 EUROPEAN AR. W/ROADING (TUV)		
L	553-2589	**HEADLIGHTS, FRONT, HIGH, LED**	0	$1,365
		Provides HIGH bar LED headlights with front turn signals. CANNOT BE USED WITH: ANY HALOGEN LIGHTING OPTION REQUIRED BY: LIGHTS,ARM, FOLD DOWN SNOW ARRANGEMENT 526-2563 EUROPEAN ARRANGEMENT 394-3871 EUROPEAN AR. W/ROADING (TUV)		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

OPERATOR ENVIRONMENT

CAMERA

L	396-3921	**CAMERA, REAR VISION**	15	$2,535
		Provides a 115 degree color camera mounted on the rear of the hood that is connected to a 7 inch (178mm) LCD color display mounted in the cab which shows the view behind the machine. CAN NOT BE USED WITH: EUROPEAN AR. W/ ROADING (TUV) NOTE* EUROPEAN AR. W/ ROADING (TUV) includes front and rear facing camera REQUIRED BY: 394-3755 EUROPEAN ARRANGEMENT		

MIRRORS

L	233-3295	**MIRRORS, OUTSIDE MOUNTED**	32	$495
		Provides two convex mirrors for outside mounting on the left and right cab grab irons. NOTE: The mirrors are wrapped in bubble wrap and rotated toward the doors for protection during shipment. REQUIRED BY: EUROPEAN ARRANGEMENT EUROPEAN AR. W/ ROADING (TUV)		
L	344-0984	**MIRRORS, OUTSIDE HEATED 24V**	33	$670
		Provides mirrors with a 24V heating element to keep mirrors ice free in cold weather operations. NOTE: The mirrors are wrapped in bubble wrap and rotated toward the doors for protection during shipment. REQUIRED BY: EUROPEAN ARRANGEMENT EUROPEAN AR. W/ ROADING (TUV)		

TECHNOLOGY PRODUCTS

TECHNOLOGY PRODUCTS

L	393-6335	**SECURITY SYSTEM, MACHINE**	10	$720
		Provides a programmable system to manage access to the machine using special MSS keys. Deters theft, vandalism, and unauthorized use. Programmable features allow the following: * limits operators to selected machines * controls the days and hours equipment may be started * controls access by untrained operators or personnel		
L	458-2072	**STABLE BLADE**	3	$2,470
		Provides sensor and software to automatically reduce engine speed in various applications to reduce machine bounce and scalloping of surface.		
L	492-3595	**CONTROLS, PERFORMANCE BUNDLE**	176	$15,560
		The Auto Articulation in this bundle is an unrestricted version, not limited to 500 hours. INCLUDES: 435-2072 CONTROL,AUTO ARTICULATION-FULL 458-2072 STABLE BLADE 458-8701 JOYSTICK CONTROLS, ADVANCED 462-7931 GRADE CONTROL X SLOPE		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

TECHNOLOGY PRODUCTS (CONT.)

CONTROL AUTO ARTICULATION

L	483-2354	**CONTROL,AUTO ARTICULATION-DEMO** . . . . . 500 machine hour demo. Improves ease of operation, increases maneuverability and maximizes productivity by automatically matching articulation angle to steering angle. Includes 3 position rocker switch enabling 3 modes; off / forward / both forward and reverse.	0	**NC**
L	435-2072	**CONTROL,AUTO ARTICULATION-FULL** . . . . . Improves ease of operation, increases maneuverability and maximizes productivity by automatically matching articulation angle to steering angle. Includes 3 position rocker switch enabling 3 modes; off / forward / both forward and reverse.	0	**$1,810**

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER
		GUARDS		
		GUARDS		
L	367-6905	**GUARD, AXLE HOSE**	15	$1,075
		FOR USE IN LANE 3 ONLY Provides additional protection to the front axle cylinders, lines, and fittings. *NOTE* NOT recommended for use with tire chains		
L	366-2459	**GUARD, TRANSMISSION**	310	$3,400
		Provides a steel guard to protect the transmission from ground debris. INCLUDED IN: EUROPEAN ARRANGEMENT INCLUDED IN: EUROPEAN AR. W/ ROADING (TUV) REQUIRED BY: SOUND SUPRESSION (BOTTOM)		
L	377-1602	**SOUND SUPPRESSION (BOTTOM)**	243	$2,095
		FOR USE IN LANE 3 ONLY Provides two metallic side panels on either side of the transmission guard, enclosing the rear of the machine. This option prevents debris from accumulating on top of the transmission guard and also suppresses sound to meet EU sound regulations. REQUIRES: GUARD, TRANSMISSION REQUIRES: GUARD GP, HITCH INCLUDED IN: EUROPEAN ARRANGEMENT INCLUDED IN: EUROPEAN AR. W/ ROADING (TUV) CANNOT BE USED WITH: ARTICULATION GUARD		
L	546-0262	**SOUND SUPPRESSION, ENGINE ENCL**	0	$1,540
		FOR USE IN LANE 3 ONLY Suppression panels in engine enclosure doors. INLCUDED IN: EUROPEAN ARRANGEMENT INCLUDED IN: EUROPEAN AR. W/ ROADING (TUV)		
L	262-0412	**FENDERS, FRONT, AWD**	124	$3,795
		Non-metallic front fenders aid in reducing the build-up of mud, snow, or debris. Front fenders are compatible with all Non-AWD tire sizes offered by the factory. ** NOT RECOMMENDED FOR USE WITH TIRE CHAINS. CANNOT BE USED WITH: MID MOUNT SCARIFIER PACKAGE CANNOT BE USED WITH: GUARD, AXLE HOSE		
L	262-0413	**FENDERS, REAR**	344	$5,030
		Provides non-metallic rear fenders to aid in reducing the build-up of mud, snow, or debris. Rear fenders are compatible with all MG tire sizes offered by the factory. INCLUDED IN: EUROPEAN AR. W/ ROADING (TUV) ** NOT RECOMMENDED FOR USE WITH TIRE CHAINS.		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

OTHER ATTACHMENTS

STARTING AIDS

L	249-5516	**HEATER, ENGINE COOLANT, 120V**	3	$245
		Engine coolant heater for 120 volt external power source. REQUIRED BY: SNOW ARRANGEMENT		

WORK TOOLS

WORK TOOLS

L	360-5074	**MOUNT, MID-MOUNT SCARIFIER**	131	$1,520
		FOR USE IN LANE 3 ONLY Brackets welded to front frame for future installation of midmount scarifier. INCLUDED IN: SCARIFIER, MID-MOUNT V-TYPE NOTE: This is the mounting only and does not include the scarifier. RECOMMENDED: Hydraulics with a mid-mount scarifier (MMS) function NOTE: If you intend to purchase the mid-mounted scarifier, please note that the actual scarifier cannot be attached to the machine at same time as the Lift Group, Hydraulic, Front		
L	367-6880	**COUNTERWEIGHT**	885	$3,200
		FOR USE IN LANE 3 ONLY Front mounted.Recommended when machine is not equipped with front or rear mounted work tool attachments to provide additional blade performance capability. NOTE:This cannot be used in conjunction with push plate, front lift work tools,or the 'installed' hydraulic front lift. It can be used with a not installed hydraulic front lift NOT RECOMMENDED FOR USE WITH: RIPPER-SCARIFIER, REAR CANNOT BE USED WITH: PUSH PLATE CANNOT BE USED WITH: LIFT GROUP, MANUAL, FRONT (Installed) CANNOT BE USED WITH: FRONT BLADE PACKAGE		
L	367-6842	**PUSH PLATE, COUNTERWEIGHT**	2,822	$5,640
		Front mounted. Recommended when machine is equipped with rear ripper/scarifier and other rear mounted attachments. NOTE: This cannot be used in conjunction with counterweight, any front lift work tools, or the 'installed' hydraulic front lift. It can be used with a not installed hydraulic front lift CANNOT BE USED WITH: COUNTERWEIGHT CANNOT BE USED WITH: LIFT GROUP, MANUAL, FRONT (Installed) CANNOT BE USED WITH: FRONT BLADE PACKAGE		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

WORK TOOLS (CONT.)

WORK TOOLS (Cont.)

L	312-2204	**LIFT GROUP, MANUAL, FRONT**	1,500 1,500	**$11,030** **$11,030 NI**

ALSO AVAILABLE ON A MISCELLANEOUS ORDER
Front hydraulic lift without any work tool attached.
Note: This Front Lift Group has manual locking pins.

INSTALLED COMPATIBILITY:
REQUIRES: MOUNTING, FRONT LIFT
REQUIRES: Hydraulics control part number that has front lift (FL) function
REQUIRED, to use Front Scarifiers
CANNOT BE USED WITH: PUSH PLATE
CANNOT BE USED WITH: COUNTERWEIGHT
CANNOT BE USED WITH: MID MOUNT SCARIFIER PACKAGE
CANNOT BE USED WITH: FRONT BLADE PACKAGE

(The Installed Manual Lift Group can be attached to the machine at the sametime as the mounting for the mid-mount scarifier, but not the actual scarifier itself).

NOTE: A Not-Installed Manual Lift Group can be ordered with an INSTALLED Push Plate or Counterweight. The not-installed lift group will be skidded, banded and shipped with the unit.

NOT INSTALLED COMPATIBILITY:
CANNOT BE USED WITH: FRONT BLADE PACKAGE
REQUIRES: MOUNTING, FRONT LIFT
REQUIRES: Hydraulics control part number that has front lift (FL) function

L	359-3925	**LIFT GROUP, FRONT MOUNTING**	10	**$442**

Two mounting plates welded to both sides of the front frame for factory or future installation of Front Lift.
REQUIRED BY: LIFT GROUP, MANUAL, FRONT

L	387-8664	**LINES, RIPPER, ADDITIONAL**	8	**$426**

For use with rear mounted auxiliary functions. Provides two hydraulic hoses with one end bundled at the rear of the machine and the other end bundled at the rear valve bank in front of the cab.
REQUIRES: Ripper Function
FOR USE WITH: BASE + 1 (RIP)
FOR USE WITH: BASE + 2 (FL, RIP)
FOR USE WITH: BASE+3 (FL,DA1,RIP)
FOR USE WITH: BASE+4 (WM,WT-FLOAT,FL,RIP)
FOR USE WITH: BASE+4 (WM,WT,FL,RIP) NOFLT
FOR USE WITH: BASE+3 (FL,MMS,RIP)
FOR USE WITH: BASE+5 (WM,WT,DA1,FL,RIP)
FOR USE WITH: BASE+6 (WM,WT,DA1,DA2,FL,RIP)

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

GROUND ENGAGING TOOLS

GROUND ENGAGING TOOLS

P	8J-1434	**TOOTH, STRAIGHT**	67	$805
		Ripper tooth group for rear ripper. Includes one straight shank with ripper tooth. Recommended order quantity of 2 ONLY FOR USE WITH: RIPPER/SCARIFIER		
P	4K-3330	**SHANKS/TEETH, RIPPER/SCARIFIER**	152	$1,404
		Nine shanks for ripper and scarifier combination. Utilizes the scarifier shank positions on a ripper and scarifier combination. Will work with a midmount scarifier ONLY FOR USE WITH: RIPPER/SCARIFIER		

FIELD INSTALLED ATTACHMENTS

Please refer to the Caterpillar Work Tools Price List (WT-MG) for Motor Grader work tools.

Available Through Parts Distribution

Reference numbers below are kits used to upgrade existing motor with new features or technology

463-6258 **KIT, JOYSTICK,ADVANCED CONTROL**
Improves operational efficiency when utilizing ACCUGRADE or GRADE CONTROL X SLOPE.
Estimated install Hours: 2.5
Special Instructions: REHS8847

442-8145 **KIT, ACCUMULATOR, BLADE LIFT**
Provides hydraulic lines for base functions and accumulators for the blade lift. Allows approximately 1-3" of vertical blade travel to reduce impact loads. Nitrogen/oil accumulators activated by electric switch.
Estimated install Hours: 8
Special Instructions: REHS4230

466-5233 **KIT, EXTENSIONS, MIRROR HEATED**
9" extension from Current Mirror, adds 2 additional mirrors 1 for front visability and 1 rear visability. Heated to keep free of ice and snow in cold weather
Estimated install Hours: 2

466-5255 **KIT, EXTENSIONS, MIRROR STD**
9" extension from Current Mirror, adds 2 additional mirrors, 1 for front visability and 1 rear visability
Estimated install Hours: 2

524-8603 **KIT,LEFT HAND BLADE EXTENSION**
24" x 24" x 7/8" - Left Hand Blade Extension Kit for use with 12 ft. and 14 ft. Basic Moldboards.
Estimated install Hours: 1.5

524-8604 **KIT,LEFT HAND BLADE EXTENSION**
24" x 27" x 1" - Left Hand Blade Extension Kit for use with 14 ft. Plus Moldboard.
Estimated install Hours: 1.5

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

FIELD INSTALLED ATTACHMENTS (CONT.)

Available Through Parts Distribution (Cont.)

524-8605 **EXTENSION, BLADE, 24" RH**
24" x 24" x 7/8" - Right Hand Blade Extension Kit for use with
12 ft. and 14 ft. Basic Moldboards.
Estimated install Hours: 1.5

524-8606 **EXTENSION, BLADE, 24" RH**
24" x 27" x 1" - Right Hand Blade Extension Kit for use with
14 ft. Plus Moldboard.
Estimated install Hours: 1.5

524-8607 **KIT, SPARE RIM**
14" x 25" MP Spare Rim
Estimated install Hours: 0.5

524-8608 **KIT, SPARE RIM**
14" x 25" AWD MP Spare Rim - for use on front of AWD Machine
Estimated install Hours: 0.5

524-8609 **KIT, SPARE RIM**
10" x 24" MP Spare Rim
Estimated install Hours: 0.5

524-8610 **KIT, SPARE RIM**
10" x 24" AWD MP Spare Rim - for use on front of AWD Machine
Estimated install Hours: 0.5

488-2192 **KIT, CIRCLE SAVER**
Circle Saver
Estimated install Hours: 0.5
Special Instructions: REHS4230

434-1068 **KIT, FENDERS, FRONT**
12/140/160M3 AWD Front Fender Kit

434-1065 **KIT, FENDERS, REAR**
12M3 & 140M3 Rear Fender Kit

380-3889 **KIT, HEATED GLASS, RH DOOR**
Right Hand Heated Door Glass
Special Instructions: REHS7154

380-3885 **KIT, HEATED GLASS,WIDE FRONT**
Wide Front Heated Glass
Special Instructions: REHS7155

380-3886 **KIT, HEATED GLASS,NARROW FRONT**
Narrow Front Heated Glass
Special Instructions: REHS7155

473-5233 **KIT, STORAGE, CAB**
12/140/160M3 Cab Storage Kit

PACKING

EXPORT PACKING

0P-2265 **ROLL ON-ROLL OFF** . . . . . 0 **$304 NET**
Machine is driveable with nothing removed.
For sound testing purposes, European units with European arrangements
must be ordered in Ro-Ro Configuration.
(Cab or canopy remains mounted.)
REQUIRED BY: EUROPEAN ARRANGEMENT
REQUIRED BY: EUROPEAN AR. W/ ROADING (TUV)

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

PACKING (CONT.)

EXPORT PACKING (Cont.)

0P-2962 **SHIPPING TIRE FREIGHT OPTION** . . . . . 0 **NC**
This 0P is required when the machine is ordered with the Shipping Tire
This insures the correct trailer is used for shipment preventing
This is informational only and there is no additional charge.
REQUIRED BY: TIRES, 17.5 SHIPPING, AWD, MP
REQUIRED BY: TIRES, 14.0 SHIPPING, AWD, MP

ATTACHMENT PACKING.

0P-6706 **BUNDLE EXPORT PACKING** . . . . . 0 **NC**
This 0P should be ordered for all miscellaneous orders.

SPECIAL INSTRUCTIONS

EXPOSITION MACHINE

0P-2949 **EXPOSITION INSTRUCTION** . . . . . 0 **NC**
This special instruction must be selected whenever dealer is placing an order for a unit intended for use at expositions and/or trade fairs.

140M3 AWD MOTOR GRADER
LITTLE ROCK, AR, USA (SAP)

Ship Weight lbs	LIST PRICE AT DEALER

Standard Equipment:

POWERTRAIN

Air cleaner, dual stage dry type radial seal with service indicator and automatic dust ejector
Air-to-air after cooler (ATAAC)
Belt, serpentine, automatic tensioner
Brakes, oil disc, four-wheel, hydraulic
Demand fan, hydraulic
Differential, lock/unlock, Automatic
Drain, engine oil, ecology
Electronic over-speed protection
Parking brake, multi-disc, sealed and oil cooled.
Sediment drain, fuel tank.
Tandem drive
Transmission, 8 speed forward and 6 speed reverse, power shift, direct drive
VHP Plus (Variable Horse Power Plus)

ELECTRICAL

Alarm, back-up
Alternator, 150 ampere, sealed
Batteries, maintenance free, heavy duty, 1125 CCA
Breaker panel, ground accessible
Electrical hydraulic valves
Electrical system, 24V
Grade control ready (Cab harness, software, electrical hydraulic valves, bosses and brackets)
Lights, reversing
Lights, roading, roof-mounted
Lights, stop and tail, LED
Starter, electric

OPERATOR ENVIRONMENT

Air conditioning with heater
Articulation, automatic return to center
Centershift pin indicator
Display, digital speed and gear
Doors, left and right side with wiper
Gauge, machine level
Gauges (analog) inside the cab (includes fuel, articulation, engine coolant temp, engine RPM, and hydraulic oil temp, DEF/AdBlue)
Joystick, adjustable armrests
Joystick gear selection, hydraulic power steering hydraulic controls (right/left, blade lift w/ float position, blade sideshift and tip, circle drive, centershift, front wheel lean and articulation and steering)
Lights, night time cab
Messenger operator information system
Meter, hour, digital
Mirror, inside rearview, wide angle
Power port, 12V
Radio ready, entertainment
ROPS cab, sound suppressed
- 69dB(A) - ISO 6394
Seat,cloth-covered, comfort suspension
Storage area for cooler/lunchbox
Throttle control, electronic
Windows laminated glass:
-Fixed front with intermittent wiper
-Door with intermittent wipers (3)
Windows tempered:
-Left and right side wipers
-Rear with intermittent wiper
Cab storage

SAFETY AND SECURITY

Clutch, circle drive slip
Doors, 2 engine compartment, (two left hand, two right hand) locking
Doors, 2 service, left and right locking
Ground level engine shutdown
Hammer (emergency exit)
Horn, electric
Lockout, hydraulic implement (for roading and servicing)
Seat belt, retractable 76.2 (3")
Secondary steering
Tandem walkway/guards

TIRES, RIMS, AND WHEELS

A partial allowance for tires on 254mm x 609.6mm (10" x 24") multipiece rims is included in the base machine price and weight.

FLUIDS

Antifreeze
Extended life coolant -35C/-30F

OTHER STANDARD EQUIPMENT

Accumulators -brake -dual certified
Drawbar,6 shoe w/replaceable wear strips
Fluid check, ground level
Fuel tank, 398 liters (105 gallon)
Ground level fueling
DEF/AdBlue Tank, 21 liters (5.5 gallon)
Hydraulic lines for base functions
Pump, hydrailic, high capacity (98cc / 15 cu in)
Radiator, cleanout access (both sides with swing doors)
SOS ports - engine -hydraulic

140M3 AWD MOTOR GRADER
LITTLE ROCK, AR, USA (SAP)

	Ship Weight lbs	LIST PRICE AT DEALER

OTHER STANDARD EQUIPMENT (CONT.)

-transmission -coolant -fuel
Tandem walkway/guards
Tool box
Debris guard

140M3 AWD MOTOR GRADER LITTLE ROCK, AR, USA (SAP)	Ship Weight lbs	LIST PRICE AT DEALER

Lane 2 is reserved for the Base Order Management Program.
Please use Lane 2 when placing orders that are part of the Base Order Management Program.

140M3 AWD MOTOR GRADER LITTLE ROCK, AR, USA (SAP)		Ship Weight lbs	LIST PRICE AT DEALER
384-5805	**140M3 AWD MOTOR GRADER**	39,877	**$435,910**
	LANE 2 - AVAILABLE FROM NORTH LITTLE ROCK FACTORY LANE 3 - AVAILABLE FROM NORTH LITTLE ROCK FACTORY		
0P-2974	**140M3 AWD MISC MATERIAL NLR**	0	**NC**
	AVAILABLE FROM NORTH LITTLE ROCK FACTORY		

Only reference numbers that have the text
"ALSO AVAILABLE ON A MISCELLANOUS ORDER" can be used on a MISC order.

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

LANE SELECTION

	0P-9002	LANE 2 ORDER	0	NC
		Only for dealers enrolled in the Base Orders Management (BOM) program.		
	0P-9003	LANE 3 ORDER	0	NC

REGIONAL PACKAGES

REGIONAL PACKAGES

L	385-9294	GLOBAL ARRANGEMENT	0	NC
		Provides standard brake accumulators. For use in temperatures above -18C		
		CANNOT BE USED WITH: WEATHER, COLD PLUS		
L	385-9297	GLOBAL ARRANGEMENT,LOW AMBIENT	0	NC
		Provides brake accumulators for low ambient temperatures below -18C		
		CANNOT BE USED WITH: EU dealers		
		CANNOT BE USED WITH: WEATHER, STANDARD		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

PERFORMANCE PACKAGES

MOLDBOARDS

L	349-3046	**MOLDBOARD, 12'**	0	**NC**
		FOR USE IN LANE 3 ONLY INCLUDES: - Moldboard 12' x 24" x 7/8" (3658mm x 610mm x 22mm) - Curved Cutting Edge, 6" X 5/8" (152mm x 16mm) - End Bits, Standard, Without Overlay		
L	349-3047	**MOLDBOARD, 14' BASIC**	347	**$1,140**
		INCLUDES: - Moldboard 14' x 24" x 7/8" (4267mm x 610mm x 22mm) - Curved Cutting Edge, 8" x 3/4" (203mm x 19mm) - End Bits, Standard, Without Overlay		
L	349-3048	**MOLDBOARD, 14' PLUS**	650	**$2,710**
		INCLUDES: - Moldboard 14' x 27" x 1" (4267mm x 686mm x 25mm) - Curved Cutting Edge, 8" x 3/4" (203mm x 19mm) - End Bits, Standard, With Overlay		

WORK TOOLS

L	393-4882	**NO HITCH**	0	**NC**
L	337-7510	**HITCH, TOWING**	0	**$540**
L	324-0889	**RIPPER/SCARIFIER**	2,120 2,150	**$20,380** **$20,540 NI**

NOTE
NOT INSTALLED option is only for use with Miscellaneous orders using 0P-2974 140M3 AWD MISC MATERIAL
Hydraulic, rear mounted ripper with three straight ripper shanks. Can accommodate two additional ripper shanks and nine scarifier teeth which must be ordered separately.
REQUIRES: A hydraulics control part number that has a ripper function.
INCLUDES: Ripper Mounting

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

PERFORMANCE PACKAGES (CONT.)

WEATHER PACKAGES

L	353-3330	**STANDARD WEATHER AWD**	0	NC
		Recommended for year around use when typical ambient temperature range is 0 degrees C (32 degrees F) to 43 degrees C (110 degrees F) and operating at altitude below 1220 m (4000 feet). INCLUDES: - Batteries, Heavy Duty - 1125 CCA - Oil, Hydraulic, 10W FOR USE WITH: GLOBAL ARRANGEMENT FOR USE WITH: EUROPEAN ARRANGEMENT FOR USE WITH: EUROPEAN AR. W/ ROADING (TUV) CANNOT BE USED WITH: GLOBAL ARRANGEMENT,LOW AMBIENT		
L	394-4523	**COLD WEATHER PACKAGE AWD**	0	$760
		Recommended for year around use when typical ambient temperature range is -18 degrees C (0 degrees F) to 43 degrees C (110 degrees F) and operating at altitude below 1220 m (4000 feet). INCLUDES: - Starting Aid, Ether - Batteries, Extreme Duty -1400 CCA - Oil, Hydraulic, 10W - Cold Start arrangemnt FOR USE WITH: GLOBAL ARRANGEMENT FOR USE WITH: GLOBAL ARRANGEMENT,LOW AMBIENT FOR USE WITH: CANADIAN ARRANGEMENT FOR USE WITH: EUROPEAN ARRANGEMENT FOR USE WITH: EUROPEAN AR. W/ ROADING (TUV)		
L	394-4524	**COLD WEATHER PLUS PACKAGE AWD**	37	$3,765
		Recommended for year around use when typical ambient temperature range is -40 degrees C (-40 degrees F) to 40 degrees C (104 degrees) or operating at altitude above 1220 m (4000 feet). INCLUDES: - Starting Aid, Ether - Cold Start; Transmission oil and fan brake bypass - Batteries, Extreme Duty -1400 CCA - Oil, Hydraulic, Cold, 0W REQUIRES: HEATER, ENGINE COOLANT, 120V or HEATER, ENGINE COOLANT, 240V REQUIRED BY: SNOW ARRANGEMENT FOR USE WITH: GLOBAL ARRANGEMENT,LOW AMBIENT FOR USE WITH: CANADIAN ARRANGEMENT FOR USE WITH: EUROPEAN ARRANGEMENT FOR USE WITH: EUROPEAN AR. W/ ROADING (TUV) CANNOT BE USED WITH: GLOBAL ARRANGEMENT		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

PERFORMANCE PACKAGES (CONT.)

ACCUMULATORS

L	305-2927	**LINES,STANDARD W/O ACCUMULATOR**	0	NC
		Provides hydraulic lines for base functions		
L	358-9338	**ACCUMULATORS, BLADE LIFT**	170	$4,665
		Provides hydraulic lines for base functions and accumulators for the blade lift. Allows approximately 1-3" of vertical blade travel to reduce impact loads. Nitrogen/oil accumulators activated by electric switch. CANNOT BE USED WITH: Canadian Dealers.		

PRECLEANER

L	380-6774	**PRECLEANER, NON SY-KLONE**	0	NC
		Includes dust ejector for medium to heavy dust environments.		
L	380-6775	**PRECLEANER, SY-KLONE**	5	$750
		Recommended for environments with large degris (leaves, chips, large grass, etc.)		

POWERTRAIN

ENGINE

L	567-4688	**ENGINE, TIER IV**	0	NC
		EPA Tier 4 Final certified engine with aftertreatment Caterpillar C9 ACERT turbo charged diesel engine with automatic engine derate and idle control.		

OIL CHANGE

L	324-5328	**DRAIN, GRAVITY, ENGINE OIL**	0	NC
		Standard engine oil drain		
L	501-1163	**DRAIN, HIGH SPEED, ENGINE OIL**	0	$286
		High speed engine oil drain. Requires pump at service location to be attached to coupling receiver for high speed flow. HSO drain can also manual/gravity drain.		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS

NOTE: Optional Control Locations

Caterpillar offers many attachment hydraulic controls to operate work tools. Depending on which hydraulic part number is selected, the operating electro-hydraulic switches may include the auxiliary pod, mini-joystick located on the auxiliary pod, and/or the ripper control pod.

NOTE: Auxiliary controls that can have float

Auxiliary Pod Controls

```
INDEX = Index Finger (front lift)(float capability)
MID = Middle Finger(dozer angle 1)
RING = Ring Finger (dozer angle 2)
LITTLE= Little Finger (float capability)
```

NOTE: Mini-Joystick

```
 Fore/Aft
     .
    / \
     |
<--------->  Left/Right (float capability)
     |
    \ /
     .
```

NOTE: Ripper Control Pod

```
RH1   =  Front Lift (float capability)
RH2   =  Ripper-Scarifier Control
RHD   =  Ripper Handle Dual Switch (RH1 & RH2)
```

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

NOTE: Common Functions

COMMON FUNCTIONS:

Base = 8 functions: right and left blade lift, circle turn, drawbar center shift, blade side shift, blade tip, front wheel lean, frame articulation.

```
     FL      = Front Lift (moves front work tools up/down)
     DA1     = Dozer Angle 1 (angles front blade left OR right)
     DA2     = Dozer Angle 2 (angles front blade left AND right)
     RIP     = Rear Mounted Ripper (moves ripper up/down)
     MMS     = Mid-Mounted Scarifier
     WM      = Wing Mast
     WT      = Wing Tilt
     Float   = Built-in feature of valve section that opens both the
               work ports to tank. The external forces (weight of the
               work ports to tank. The external forces (weight of the
                implement) allows free movement of the implement.
     Flow Rate=Provides maximum rate of fluid flow from the specific
                work port.  B/A represents the maximum flow rate in
                Port B/Port A* in LPM (liters per minute).

 *NOTE: Each valve section has two work ports (Port A and Port B).
     Port A:  Used to either raise implement or move implement to the
     right or for clockwise rotation of the implement.
     Port B:  Used to either lower implement or move implement to the
     left or for counter-clockwise rotation of the implement.
```

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

HYDRAULIC VALVE LOCATIONS

This illustration shows the factory installed switch location for each function by hydraulic part number.

Part Number	MINI-JOYSTICK Front Aft	MINI-JOYSTICK Left/ Right Float	MINI-JOYSTICK Index with Float	AUXILIARY POD Mid	AUXILIARY POD Ring	AUXILIARY POD Little	RIPPER POD RHD RH1	RIPPER POD RHD RH2
242-5056								
385-8094								RIPPER
Float:								N
Flow rate:								49/49
354-4113								MID-MOUNT SCARIFIER
Float:								Y
Flow Rate:								25/36
309-9848							FR.LIFT	
Float:							Y	
Flow Rate:							46/60	
385-8095							FR.LIFT	RIPPER
Float:							Y	N
Flow rate:							46/60	49/49
395-2008	MAST	TILT	FR.LIFT					
Float:	N	N	Y					
Flow rate:	72/72	41/30	46/60					
385-8096			FR.LIFT	DA1				RIPPER
Float:			Y	N				N
Flow rate:			46/60	72/72				49/49
385-8099	MAST	TILT	FR.LIFT					RIPPER
Float:	N	Y	Y					N
Flow rate:	72/72	74/86	46/60					49/49
385-8100	MAST	TILT	FR.LIFT					RIPPER
Float:	N	N	Y					N
Flow rate:	72/72	41/30	46/60					49/49
395-2009	MAST	TILT	FR.LIFT	DA1	MID-MOUNT SCARIFIER			
Float:	N	N	Y	N	N			
Flow rate:	72/72	41/30	46/60	72/72	25/36			

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

HYDRAULIC VALVE LOCATIONS LANE 3 ONLY

Part Number	MINI-JOYSTICK Front Aft	MINI-JOYSTICK Left/ Right Float	AUXILIARY POD Index with Float	AUXILIARY POD Mid	AUXILIARY POD Ring	AUXILIARY POD Little	RIPPER POD RH1	RIPPER POD RH2
385-8097			FR.LIFT	MID-MOUNT SCARIFIER				RIPPER
Float:			Y	N				N
Flow rate:			46/60	25/36				49/49
385-8101	MAST	TILT	FR.LIFT	DA1				RIPPER
Float:	N	N	Y	N				N
Flow rate:	72/72	41/30	46/60	72/72				49/49
385-8103	MAST	TILT	FR.LIFT	DA1	DA2			RIPPER
Float:	N	N	Y	N	N			N
Flow rate:	72/72	41/30	46/60	72/72	72/72			49/49
481-8610	MAST	TILT	FR.LIFT	DA1	DA2			RIPPER
Float:	N	Y	Y	N	N			N
Flow rate:	72/72	74/86	46/60	72/72	72/72			49/49

HYDRAULIC VALVE PART NUMBERS

L	242-5056	**HYDRAULICS, BASE** . . . . . 0 Base hydraulic system includes machine articulation, wheel lean, left and right blade lift with independent float, drawbar centershift, circle drive, blade sideshift and tip.		NC
L	385-8094	**BASE + 1 (RIP)**. . . . . 21 Ripper function. Includes the Ripper Lines. ONLY FOR USE WITH: RIPPER-SCARIFIER, REAR		$2,300
L	354-4113	**BASE + 1 (MMS)**. . . . . 21 FOR USE IN LANE 3 ONLY Mid-Mount Scarifier function. Includes the Mid-Mount Scarifier Lines. ONLY FOR USE WITH: MID MOUNT SCARIFIER PACKAGE		$2,300
L	309-9848	**BASE + 1 (FL)**. . . . . 18 FOR USE IN LANE 3 ONLY Front Lift function. Includes the Front Lift Lines. ONLY FOR USE WITH: LIFT GROUP, MANUAL, FRONT		$1,890
L	385-8095	**BASE + 2 (FL,RIP)** . . . . . 37 Ripper and Front Lift functions. Includes the Front Lift Lines and Ripper Lines. ONLY FOR USE WITH: LIFT GROUP, MANUAL, FRONT RIPPER-SCARIFIER, REAR		$4,085
L	395-2008	**BASE + 3 (WM,WT-NOFLOAT,FL)** . . . . . 60 FOR USE IN LANE 3 ONLY Front Lift, Snow Wing Mast, and Snow Wing Tilt ONLY FOR USE WITH: SNOW ARRANGEMENT LIFT GROUP, MANUAL, FRONT		$6,540

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

HYDRAULIC VALVE PART NUMBERS (Cont.)

L	385-8096	**BASE + 3 (FL,DA1,RIP)**	67	$7,460
		FOR USE IN LANE 3 ONLY Ripper, Front Lift and Angle functions. Includes the Front Lift Lines Dozer Angle 1 Lines, and Ripper Lines. ONLY FOR USE WITH: LIFT GROUP, MANUAL, FRONT RIPPER-SCARIFIER, REAR		
L	385-8099	**BASE + 4 (WM,WT-FLOAT,FL,RIP)**	85	$8,960
		Ripper, Front Lift, Snow Wing Mast and Snow Wing Tilt (74/86 with float) functions. Includes the Front Lift Lines and Ripper Lines. ONLY FOR USE WITH: SNOW ARRANGEMENT LIFT GROUP, MANUAL, FRONT RIPPER-SCARIFIER, REAR		
L	385-8100	**BASE + 4 (WM,WT,FL,RIP) NOFLT**	85	$8,700
		Ripper, Front Lift, Snow Wing Mast and Snow Wing Tilt (41/30 - No Float) functions. Includes the Front Lift Lines and Ripper Lines. ONLY FOR USE WITH: SNOW ARRANGEMENT LIFT GROUP, MANUAL, FRONT RIPPER-SCARIFIER, REAR		
L	395-2009	**BASE + 5 (WM,WT,DA1,FL,MMS)**	120	$10,790
		FOR USE IN LANE 3 ONLY Snow Wing Mast, Snow Wing Tilt (41/30 - No Float) functions, Dozer Angle 1, Front LIFT, and Mid-Mount Scarifier Includes the Front Lift Lines, Angle 1 Lines, and Mid-Mount Scarifier Lines. ONLY FOR USE WITH: SNOW ARRANGEMENT LIFT GROUP, MANUAL, FRONT MID MOUNT SCARIFIER PACKAGE		

HYDRAULIC VALVE PART NUMBERS LANE 3 ONLY

L	385-8097	**BASE+3 (RIP, MMS, FL)**	67	$7,460
		FOR USE WITH: Lane 3 only. Front Lift, Ripper and Mid-Mount Scarifier functions. Includes the Front Lift Lines, Ripper Lines and Mid-Mount Scarifier Lines. ONLY FOR USE WITH: LIFT GROUP, MANUAL, FRONT RIPPER-SCARIFIER, REAR MID MOUNT SCARIFIER PACKAGE		
L	385-8101	**BASE + 5 (WM,WT,DA1,FL,RIP)**	120	$10,790
		FOR USE WITH: Lane 3 only. Snow Wing Mast, Snow Wing Tilt (41/30 - No Float) functions, Dozer Angle 1, Front LIFT, and Ripper. Includes the Front Lift Lines, Angle 1 Lines, and Ripper Lines. ONLY FOR USE WITH: SNOW ARRANGEMENT MOUNT, SNOW WING, FRAME READY LIFT GROUP, MANUAL, FRONT RIPPER-SCARIFIER, REAR		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

HYDRAULIC VALVE PART NUMBERS (Cont.)

L	385-8103	**BASE + 6(WM,WT,DA1,DA2,FL,RIP)**	130	**$13,350**
		FOR USE WITH: Lane 3 only. Ripper, Dozer Angle 1, Dozer Angle 2, Front Lift, Snow Wing Mast and Snow Wing Tilt (41/30 - No Float) functions. Includes the Front Lift Lines, Dozer Angle 2 Lines and Ripper Lines. ONLY FOR USE WITH: SNOW ARRANGEMENT MOUNT, SNOW WING, FRAME READY LIFT GROUP, MANUAL, FRONT RIPPER-SCARIFIER, REAR		
L	481-8610	**BASE+6(WM,WT+F,DA1,DA2,FL,RIP)**.....	130	**$13,620**
		FOR USE WITH: Lane 3 only. Ripper, Dozer Angle 1, Dozer Angle 2, Front Lift, Snow Wing Mast and Snow Wing Tilt (72/72 + Float) functions. Includes the Front Lift Lines, Dozer Angle 2 Lines and Ripper Lines. ONLY FOR USE WITH: SNOW ARRANGEMENT MOUNT, SNOW WING, FRAME READY LIFT GROUP, MANUAL, FRONT RIPPER-SCARIFIER, REAR		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

STARTERS, BATTERIES, & ALTERNATORS

STARTER ARRANGMENT

L	394-3945	**STARTER, ELECTRIC, HEAVY DUTY**	0	NC
		Provides a 715 Amp. starter		
L	395-3547	**STARTER, ELEC, EXTREME DUTY**	21	$408
		Recommended for Cold weather applications		
		Provides a 1000 Amp. starter		

ELECTRICAL

BRAKE LIGHTS

L	331-6793	**LIGHTS, BRAKE AND BACK-UP**	0	NC
		FOR USE IN LANE 3 ONLY		
		Provides stationary rear brake lights along with the back-up lights.		
		Does not include front headlights or turn signals		
		CANNOT BE USED WITH: 526-2563 EUROPEAN ARRANGEMENT		
		394-3871 EUROPEAN AR. W/ROADING (TUV)		
		308-9370 LIGHTS, FRONT HEADLIGHTS, LOW		
		308-9371 LIGHTS, FRONT HEADLIGHTS, HIGH		
		396-1966 SNOW ARRANGEMENT		
L	536-9969	**LIGHTS, ARM, FOLD DOWN**	0	$1,875
		Provides stationary rear brake lights along with the back-up lights, dimmer switch for road lighting, drop-down stop, tail, and rear turn signals and back-up lights.		
		REQUIRES: 308-9370 LIGHTS, FRONT HEADLIGHTS, LOW		
		308-9371 LIGHTS, FRONT HEADLIGHTS, HIGH		
		INCLUDED IN: 396-1966 SNOW ARRANGEMENT		

ROADING LIGHTS

L	421-7810	**LIGHTS, ROADING, HALOGEN**	0	NC
		Provides six halogen cab roof mounted roading lights.		
L	550-6608	**LIGHTS, ROADING, LED**	0	$1,245
		Provides six LED cab roof mounted roading lights.		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

OPERATOR ENVIRONMENT

CAB EXTERIOR

L	385-9553	**CAB, BASE (STANDARD GLASS)**	0	NC
		FOR USE IN LANE 3 ONLY INCLUDES: - 150 amp alternator - Standard Glass CANNOT BE USED WITH: SNOW ARRANGEMENT CANNOT BE USED WITH: EUROPEAN ARRANGEMENT CANNOT BE USED WITH: EUROPEAN AR. W/ ROADING (TUV)		
L	385-9554	**CAB, PLUS (STANDARD GLASS)**	35	$1,105
		INCLUDES: - 150 amp alternator - Wiper/washer, rear - Standard Glass		
L	385-9555	**CAB, PLUS (ANTI-ICING GLASS)**	35	$6,630
		INCLUDES: - 270 amp alternator - Wiper/washer, rear - Front glass and RH door glass are heated.		

CAB INTERIOR

L	397-7456	**CAB, BASE (INTERIOR)**	0	NC
		FOR USE IN LANE 3 ONLY INCLUDES: - Seat, mechanical suspension, cloth - Shade, Sun CANNOT BE USED WITH: SNOW ARRANGEMENT CANNOT BE USED WITH: EUROPEAN ARRANGEMENT CANNOT BE USED WITH: EUROPEAN AR. W/ ROADING (TUV)		
L	397-7457	**CAB, PLUS (INTERIOR)**	45	$3,010
		INCLUDES: - Seat, Air Suspension, Cloth, Heated - Radio,12V, AM/FM, Weatherband, Bluetooth, USB, Aux Input Available to countries with bluetooth certification. Please contact your Cat marketing representative if you have questions. - Fan, defroster, rear window - Converter, Communication (CB) - Shade, Sun		
L	397-7458	**CAB, PREMIUM (INTERIOR)**	80	$4,580
		- Seat, air suspension, cloth; Heated, Ventilated - Radio,12V, AM/FM CD/MP3 Bluetooth, Weatherband, USB, Aux Input XM/Sirius Satellite Available to countries with bluetooth certification. Please contact your Cat marketing representative if you have questions. - Fan, defroster, rear window - Converter, Communication (CB) - Shade, Sun *Recommended for Snow Removal		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

OPERATOR ENVIRONMENT (CONT.)

SEAT BELT

L	394-1492	SEAT BELT	0	NC
		Standard 3 inch seat belt		
L	394-1132	SEAT BELT W/INDICATOR	5	$193
		Standard 3 inch seat belt with indicator located on display panel		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

TECHNOLOGY PRODUCTS

PRODUCT LINK

Product Link enables the remote transmission of information about the location, operation, and condition of your equipment. Efficiently and effectively monitor the performance of your assets to help keep your jobs on schedule, maintain equipment condition, and reduce the costs of owning and operating your fleet. Availability varies by country - please reference https://Dealer.cat.com/PL/Certification for certified countries. Please contact your Caterpillar marketing representative with questions.

L	464-6804	**PRODUCT LINK, SATELLITE PLE631**	29	**$432**
		Product Link Elite series PLE631 uses a satellite network to transmit location, utilization and condition information for viewing in Product Link's remote monitoring web interface. For use in areas with poor or no cellular coverage.		
L	464-6442	**PRODUCT LINK, CELLULAR PLE641**	29	**NC**
		Product Link Elite series PLE641 offers expanded coverage including 3G UMTS and CDMA2000 as well as 2G GSM and CDMA cellular networks to transmit location, utilization and condition information f viewing in Product Link-s remote monitoring web interface. Cellular technology provides capabilities for frequent transmission and larger volumes of data.		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

TECHNOLOGY PRODUCTS (CONT.)

ACCUGRADE

L	362-5222	**NO ACCUGRADE**	0	NC
L	462-7930	**INSTALLATION, ACCUGRADE READY** Allows the Motor Grader to be equipped with either a Cross Slope, Sonic, Laser, GPS, or ATS electronics kit. Provides software, harnesses for sensors, mounting for sensors and blade mast bracket.	90	$4,830

NOTE: Highly recommended to select Advanced Joystick Controls. This will Allow for complete configuration and control when using 3 party grade control systems

L	462-7931	**GRADE CONTROL X SLOPE** Allows the operator to manually control one end of the blade to match the curb or crown while automatically maintaining the desired slope of the blade. This system is used to maintain the crown of a gravel road or the shoulder of a road. Provides cab switches, software, harnesses for sensors, mounting for sensors and blade mast bracket. Accugrade Ready is included in this option REQUIRES: JOYSTICK CONTROLS, ADVANCED INCLUDED IN: 492-3595 CONTROLS, PERFORMANCE BUNDLE	165	$11,060

MOTOR GRADER CONTROLS

L	357-9151	**JOYSTICK CONTROLS, BASIC** Standard joystick controls.	6	NC
L	458-8701	**JOYSTICK CONTROLS, ADVANCED** Provides enhanced functionality while using ACCUGRADE READY or GRADE CONTROL X SLOPE INCLUDES: - Advanced Joysticks - Harness - Films REQUIRED BY: GRADE CONTROL X SLOPE. RECOMMENDED FOR USE WITH: ACCUGRADE READY INCLUDED IN: 492-3595 CONTROLS, PERFORMANCE BUNDLE	8	$2,030

CONTROL AUTO ARTICULATION

L	483-2354	**CONTROL,AUTO ARTICULATION-DEMO** 500 machine hour demo. Improves ease of operation, increases maneuverability and maximizes productivity by automatically matching articulation angle to steering angle. Includes 3 position rocker switch enabling 3 modes; off / forward / both forward and reverse.	0	NC
L	435-2072	**CONTROL,AUTO ARTICULATION-FULL** Improves ease of operation, increases maneuverability and maximizes productivity by automatically matching articulation angle to steering angle. Includes 3 position rocker switch enabling 3 modes; off / forward / both forward and reverse.	0	$1,810

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER
		FUEL SYSTEMS		
L	540-2373	**TANK, FUEL, STANDARD** . . . . . Standard Fuel 105 gallon (398 L)	0	NC
L	553-3677	**TANK, FUEL, FAST FILL** . . . . . Fuel tank is ready to accept fast fill 100 gpm nozzle. Tank capacity is 105 gallons (398 L)	0	$1,410
		COOLING		
		COOLING FAN		
L	542-4660	**FAN, STANDARD** . . . . . Provides a hydraulically driven demand fan	0	NC
L	542-4661	**FAN, REVERSING** . . . . . Provides a hydraulically driven demand fan that can reverse direction to prevent debris build up on the cooling package and engine enclosure. Includes automatic and manual controls for airflow reversal. Recommended for applications with a high content of airborne debris.	0	$3,105

TIRES, RIMS, AND WHEELS

Tires listed below include a set of six tires.
****To calculate tire loads with machine attachments, please reference the MG Tire Selection Pocket Guide (media #AEXQ0182), available on the Electronic Sales Library.**
All tire selections should be made with consideration for planned machine attachments (OEM and aftermarket) and their additional weight. Each tire has a maximum load rating that is not to be exceeded. The tire selection should be based on the maximum of all tire position loads on the machine. Assistance for calculating the highest tire load can be found in the Tire Load Worksheet in the back of the Caterpillar Motor Graders Tire Selection Pocket Guide. Failure to abide by the load ratings of the tires without first consulting the local tire supplier representative could result in nullification of the tire warranty.

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

TIRES, RIMS, AND WHEELS (CONT.)

Due to industry-wide tire availability limitations, tire brand and type cannot be guaranteed. Every effort will be made to satisfy your tire choice, but we reserve the right to change to alternate tires. If the tire brand cannot be supplied, the dealer will be contacted to propose alternative tire options. The dealer will need to respond with an alternative tire selection within 72 hours. If no response is provided by the supplier, the order will default to a comparable tire. As a consequence of a tire change the total machine price will be decreased or increased relative to the price of the new tire selection.

The information provided can be used to make a tire selection based on the particular conditions at the site. When available, the tire manufacturer should be consulted regarding proper tire selection.

APPLICATION SPECIFIC TIRES

L	515-5404	**TIRES,14.0R24 SOIL TRACTION MP**	0	$5,970
		Tire group received will be one of the tire groups listed below: - Bridgestone VKT 1* on 10" x 24" multi-piece rims. - Michelin XGLA2 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	515-5405	**TIRES,17.5R25 SOIL TRACTION MP**	0	$12,440
		Tire group received will be one of the tire groups listed below: - Bridgestone VKT 1* on 14" x 25" multi-piece rims. - Michelin XTLA 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		

BRIDGESTONE

L	252-0722	**TIRES, 14.0R24 BS VUT * L2 MP**	991	$7,250
		FOR USE IN LANE 3 ONLY Bridgestone VUT 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	249-7841	**TIRES, 17.5R25 BS VKT * D2A MP**	1,620	$13,440
		Bridgestone VKT 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	252-0716	**TIRES, 14.0R24 BS VKT * G2 MP**	1,519	$6,970
		Bridgestone VKT 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	252-0710	**TIRES, 14.0R24 BS VSW * G2 MP**	1,459	$13,320
		Bridgestone VSW 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	310-7332	**TIRES, 17.5R25 BS VSW * G2 MP**	1,698	$18,590
		Bridgestone VSW 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

TIRES, RIMS, AND WHEELS (CONT.)

MICHELIN

L	252-0681	**TIRES,14.0R24 MX XGLA2 * G2 MP**	1,048	$10,860
		Michelin XGLA2 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (7824 lbs) 3550 kg.**		
L	249-7845	**TIRES,14.0R24 MX XSNO+ * G2 MP.**	1,261	$14,890
		Michelin XSNO 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (7824 lbs) 3550 kg.**		
L	252-0779	**TIRES,17.5R25 MX XSNO+ * G2 MP.**	903	$20,490
		Michelin XSNO+ 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	252-0773	**TIRES, 17.5R25 MX XTLA * L2 MP**	268	$16,110
		Michelin XTLA 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		

GOODYEAR

L	310-7327	**TIRES, GY17.5R25* COMBO MP**	1,200	$20,290
		Goodyear RL2+ 6S on 14" x 25" multi-piece rims THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		

SHIPPING TIRES

L	440-3434	**TIRES, 17.5 SHIPPING, AWD, MP**	83	$2,250
		FOR USE WITH LANE 3 ONLY Shipping tire for use during shipment of machine only. Solid rubber band mounted on 14" x 25" multi-piece rims. Must be replaced with pneumatic tire before delivering to customer.		
L	448-5584	**TIRES, 14.0 SHIPPING, AWD, MP**	69	$2,000
		FOR USE WITH LANE 3 ONLY Shipping tire for use during shipment of machine only. Solid rubber band mounted on 10" x 24" multi-piece rims. Must be replaced with pneumatic tire before delivering to customer.		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER
		GUARDS		
		Guards		
L	323-6970	**GUARD GP, HITCH**	25	NC
		Standard bottom plate just rear of articulation hitch		
L	368-6239	**ARTICULATION GUARD.**	30	$1,260
		Provides protection for the articulation rods from snow, dirt and		
		Highly recommended for snow removal applications, or below freezing		
		CANNOT BE USED WITH : SOUND SUPRESSION (BOTTOM)		
		FLUIDS		
		ANTIFREEZE		
L	469-8157	**COOLANT, 50/50, -35C (-31F)**	0	NC
		Standard engine coolant		
L	469-8160	**COOLANT, 60/40, -51C (-60F)**	0	$245 NET
		Engine coolant recommended for extreme low temperatures		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

DOCUMENTATION

LANGUAGE SELECTION

NOTE: This part number will provide the language for Messenger and Statement of Conformity

L	**386-1254**	**LANGUAGE, ENGLISH**	0	**NC**

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

DOCUMENTATION (CONT.)

DECAL PACKAGES

NOTE: This part number will provide the films in ANSI or ISO
The word "WARNING" is on picto decals for ANSI.
Symbols only are on picto decals for ISO.

L	**442-9940**	**DECALS, ENGLISH (U.S.)** . . . . . 0 Provides decals as required by ANSI.		**NC**

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

FEATURE PACKAGES

REGIONAL OPTIONAL PACKAGES

L	396-1966	**SNOW ARRANGEMENT**	355	$6,460

INCLUDES:
- LIGHTS, ARM, FOLD DOWN
- MOUNTING, WARNING LIGHT
- TRANSMISSION, AUTOSHIFT

RECOMMENDED: MIRRORS, OUTSIDE HEATED
REQUIRES: MOUNT,SNOW WING,FRAME RDY HAL or LED
LIGHTS, WORKING, PLUS, HALOGEN or LED
HEADLIGHTS,FRONT, HIGH, (HALOGEN OR LED)
HEATER, ENGINE COOLANT, 120V or 240v
STARTER, ELEC, EXTREME DUTY or EXTRM DUTY(TUV)
WEATHER, COLD PLUS
CAB, PLUS (STANDARD GLASS) or (ANTI-ICING GLASS)
CANNOT BE USED WITH: 385-9294 GLOBAL ARRANGEMENT

WORK TOOL PACKAGES

L	358-9341	**MID MOUNT SCARIFIER PACKAGE**	2,076	$16,290

FOR USE IN LANE 3 ONLY
INCLUDES:
- Mid-mount Scarifier, V-Type with 11 Teeth
- MOUNT, MID-MOUNT SCARIFIER

CANNOT BE USED WITH: Any Front Lift group or
CANNOT BE USED WITH: FENDERS, FRONT, AWD

WORK TOOL PACKAGES-SNOW WING MOUNT

L	390-9182	**MOUNT,SNOW WING,FRAME RDY HAL**	251	$2,295

FOR USE IN LANE 3 ONLY
INCLUDES:
- Snow Wing Mount
- Light, halogen Snow Wing, Right Hand

REQUIRED BY: SNOW ARRANGEMENT

L	551-6546	**MOUNT,SNOW WING,FRAME RDY LED**	0	$2,710

FOR USE IN LANE 3 ONLY
INCLUDES:
- Snow Wing Mount
- Light, LED Snow Wing, Right Hand

REQUIRED BY: Snow Arrangement

LIGHTING PACKAGES

L	395-1966	**LIGHTS, WORKING, BASIC,HALOGEN**	19	$770

FOR USE IN LANE 3 ONLY
INCLUDES:
- Lights, Work, Heel 3X3
- Lights, Work, Midframe Toe 3X3
- Switch, Work Lighting

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

FEATURE PACKAGES (CONT.)

LIGHTING PACKAGES (Cont.)

L	395-1967	**LIGHTS, WORKING, PLUS, HALOGEN**	22	$1,035
		INCLUDES: - Lights, halogen, ripper 3X3 - Lights, halogen, work, heel 3X3 - Lights, halogen, work, midframe toe 3X3 - Switch, Work Lighting CANNOT BE USED WITH: LIGHTS, ROADING, LED MOUNT,SNOW WING,FRAME RDY LED REQUIRED BY: SNOW ARRANGEMENT		
L	552-7285	**LIGHTS, WORKING, PLUS, LED**	0	$2,590
		INCLUDES: - Lights, LED, ripper 3X3 - Lights, LED, work, heel 3X3 - Lights, LED, work, midframe toe 3X3 - Switch, work lighting CANNOT BE USED WITH: LIGHTS, ROADING, HALOGEN MOUNT,SNOW WING,FRAME RDY HAL REQUIRED BY: SNOW ARRANGEMENT		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

FEATURE PACKAGES (CONT.)

OTHER OPTIONAL ATTACHMENTS

L	338-1132	**LIGHT, LED WARNING STROBE**	5	$605 NI
		Amber high-speed strobe beacon. REQUIRES: MOUNTING, WARNING LIGHT		
L	361-3137	**MOUNTING, WARNING LIGHT**	10	$725
		Provides the bracket for warning beacon light INCLUDED IN: SNOW ARRANGEMENT		
L	396-3515	**TRANSMISSION, AUTOSHIFT**	5	$3,205
		Improves ease of operation and maximizes productivity by automatically shifting the transmission at optimal shift points. REQUIRED BY: EUROPEAN ARRANGEMENT REQUIRED BY: EUROPEAN AR. W/ ROADING (TUV) INCLUDED IN: SNOW ARRANGEMENT		
L	380-3070	**LIGHTS, SERVICE, INTERNAL**	5	$193
		Provides two lights operated by a single manual switch located in the rear enclosure. One light illuminates the engine compartment and the second light illuminates the hydraulic level sight gauge.		

ELECTRICAL

FRONT HEADLIGHTS

L	308-9370	**HEADLIGHTS,FRONT, LOW, HALOGEN**	0	$640
		Provides LOW bar HALOGEN headlights with front turn signals. CANNOT BE USED WITH: 396-1966 SNOW ARRANGEMENT ANY LED LIGHTING OPTION REQUIRED BY: 526-2563 EUROPEAN ARRANGEMENT 394-3871 EUROPEAN AR. W/ROADING (TUV) 536-9969 LIGHTS, ARM, FOLD DOWN		
L	553-2588	**HEADLIGHTS, FRONT, LOW, LED**	0	$1,365
		Provides LOW bar LED headlights with front turn signals. CANNOT BE USED WITH: SNOW ARRANGEMENT ANY HALOGEN LIGHTING OPTION REQUIRED BY: LIGHTS,ARM, FOLD DOWN 526-2563 EUROPEAN ARRANGEMENT 394-3871 EUROPEAN AR. W/ROADING (TUV)		
L	308-9371	**HEADLIGHTS,FRONT, HIGH,HALOGEN**	0	$640
		Provides HIGH bar HALOGEN headlights with front turn signals. CANNOT BE USED WITH: ANY LED LIGHTING OPTION REQUIRED BY: 526-2563 EUROPEAN ARRANGEMENT 394-3871 EUROPEAN AR. W/ROADING (TUV) 536-9969 LIGHTS, ARM, FOLD DOWN 396-1966 SNOW ARRANGEMENT		
L	553-2589	**HEADLIGHTS, FRONT, HIGH, LED**	0	$1,365
		Provides HIGH bar LED headlights with front turn signals. CANNOT BE USED WITH: ANY HALOGEN LIGHTING OPTION REQUIRED BY: LIGHTS,ARM, FOLD DOWN SNOW ARRANGEMENT 526-2563 EUROPEAN ARRANGEMENT 394-3871 EUROPEAN AR. W/ROADING (TUV)		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

OPERATOR ENVIRONMENT

CAMERA

L	396-3921	**CAMERA, REAR VISION**	15	$2,535
		Provides a 115 degree color camera mounted on the rear of the hood that is connected to a 7 inch (178mm) LCD color display mounted in the cab which shows the view behind the machine. CAN NOT BE USED WITH: EUROPEAN AR. W/ ROADING (TUV) NOTE* EUROPEAN AR. W/ ROADING (TUV) includes front and rear facing cameras		

MIRRORS

L	233-3295	**MIRRORS, OUTSIDE MOUNTED**	32	$495
		Provides two convex mirrors for outside mounting on the left and right cab grab irons. NOTE: The mirrors are wrapped in bubble wrap and rotated toward the doors for protection during shipment.		
L	344-0984	**MIRRORS, OUTSIDE HEATED 24V**	33	$670
		Provides mirrors with a 24V heating element to keep mirrors ice free in cold weather operations. NOTE: The mirrors are wrapped in bubble wrap and rotated toward the doors for protection during shipment.		

TECHNOLOGY PRODUCTS

TECHNOLOGY PRODUCTS

L	393-6335	**SECURITY SYSTEM, MACHINE**	10	$720
		FOR USE IN LANE 3 ONLY Provides a programmable system to manage access to the machine using special MSS keys. Deters theft, vandalism, and unauthorized use. Programmable features allow the following: * limits operators to selected machines * controls the days and hours equipment may be started * controls access by untrained operators or personnel		
L	458-2072	**STABLE BLADE**	3	$2,470
		Provides sensor and software to automatically reduce engine speed in various applications to reduce machine bounce and scalloping of surface.		
L	492-3595	**CONTROLS, PERFORMANCE BUNDLE**	176	$15,560
		The Auto Articulation in this bundle is an unrestricted version, not limited to 500 hours. INCLUDES: 435-2072 CONTROL,AUTO ARTICULATION-FULL 458-2072 STABLE BLADE 458-8701 JOYSTICK CONTROLS, ADVANCED 462-7931 GRADE CONTROL X SLOPE		

GUARDS

L	367-6905	**GUARD, AXLE HOSE**	15	$1,075
		FOR USE IN LANE 3 ONLY Provides additional protection to the front axle cylinders, lines, and fittings. *NOTE* NOT recommended for use with tire chains		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER
GUARDS (CONT.)				
L	366-2459	**GUARD, TRANSMISSION**	310	$3,400
		Provides a steel guard to protect the transmission from ground debris. REQUIRED BY: SOUND SUPRESSION (BOTTOM) INCLUDED IN: EUROPEAN ARRANGEMENT EUROPEAN AR. W/ ROADING (TUV)		
L	377-1602	**SOUND SUPPRESSION (BOTTOM)**	243	$2,095
		FOR USE IN LANE 3 ONLY Provides two metallic side panels on either side of the transmission guard, enclosing the rear of the machine. This option prevents debris from accumulating on top of the transmission guard and also suppresses sound to meet EU sound regulations. REQUIRES: GUARD, TRANSMISSION REQUIRES: GUARD GP, HITCH INCLUDED IN: EUROPEAN ARRANGEMENT INCLUDED IN: EUROPEAN AR. W/ ROADING (TUV) CANNOT BE USED WITH: ARTICULATION GUARD		
L	546-0262	**SOUND SUPPRESSION, ENGINE ENCL**	0	$1,540
		FOR USE IN LANE 3 ONLY Suppression panels in engine enclosure doors. INLCUDED IN: EUROPEAN ARRANGEMENT INCLUDED IN: EUROPEAN AR. W/ ROADING		
L	449-7700	**FENDERS, FRONT**	0	$3,795
		Non-metallic front fenders aid in reducing the build-up of mud, snow, or debris. Front fenders are compatible with all Non-AWD tire sizes offered by the factory. ** NOT RECOMMENDED FOR USE WITH TIRE CHAINS. CANNOT BE USED WITH: MID MOUNT SCARIFIER PACKAGE CANNOT BE USED WITH: GUARD, AXLE HOSE		
L	568-3669	**FENDERS, REAR**	0	$5,030
		Provides non-metallic rear fenders to aid in reducing the build-up of mud, snow, or debris. Rear fenders are compatible with all MG tire sizes offered by the factory. INCLUDED IN: EUROPEAN AR. W/ ROADING (TUV) ** NOT RECOMMENDED FOR USE WITH TIRE CHAINS.		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

OTHER ATTACHMENTS

STARTING AIDS

L	249-5516	**HEATER, ENGINE COOLANT, 120V**	3	$245
		Engine coolant heater for 120 volt external power source. REQUIRED BY: SNOW ARRANGEMENT		

CIRCLE DRIVE INJECTOR GREASE

L	521-3250	**KIT, CIRCLE SAVER**	0	$238
		Remote Circle Drive Greasing point (Zerk). Located top of drawbar for easy servicing of circle drive gear. Helps the pinion maintain its lubrication caused by lack of grease in this component.		

WORK TOOLS

WORK TOOLS

L	360-5074	**MOUNT, MID-MOUNT SCARIFIER**	131	$1,520
		FOR USE IN LANE 3 ONLY Brackets welded to front frame for future installation of midmount scarifier. INCLUDED IN: SCARIFIER, MID-MOUNT V-TYPE NOTE: This is the mounting only and does not include the scarifier. RECOMMENDED: Hydraulics with a mid-mount scarifier (MMS) function NOTE: If you intend to purchase the mid-mounted scarifier, please note that the actual scarifier cannot be attached to the machine at same time as the Lift Group, Hydraulic, Front		
L	367-6880	**COUNTERWEIGHT**	885 0	$3,200 $3,200 NI
		FOR USE IN LANE 3 ONLY **NOTE** NOT INSTALLED option is only for use with Miscellaneous orders using 0P-2974 140M3 AWD MISC MATERIAL Front mounted.Recommended when machine is not equipped with front or rear mounted work tool attachments to provide additional blade performance capability. NOTE:This cannot be used in conjunction with push plate, front lift work tools,or the 'installed' hydraulic front lift. It can be used with a not installed hydraulic front lift NOT RECOMMENDED FOR USE WITH: RIPPER-SCARIFIER, REAR CANNOT BE USED WITH: PUSH PLATE LIFT GROUP, MANUAL, FRONT (Installed)		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

WORK TOOLS (CONT.)

WORK TOOLS (Cont.)

L	367-6842	**PUSH PLATE, COUNTERWEIGHT**	2,822 2,822	**$5,640** **$5,640 NI**

NOTE
NOT INSTALLED option is only for use with Miscellaneous orders using 0P-2974 140M3 AWD MISC MATERIAL

Front mounted. Recommended when machine is equipped with rear ripper/scarifier and other rear mounted attachments.
NOTE: This cannot be used in conjunction with counterweight, any front lift work tools,or the 'installed' hydraulic front lift. It can be used with a not installed hydraulic front lift
CANNOT BE USED WITH: COUNTERWEIGHT
CANNOT BE USED WITH: LIFT GROUP, MANUAL, FRONT (Installed)

L	312-2204	**LIFT GROUP, MANUAL, FRONT**	1,500 1,500	**$11,030** **$11,030 NI**

Front hydraulic lift without any work tool attached.
Note: This Front Lift Group has manual locking pins.

INSTALLED COMPATIBILITY:
REQUIRES: MOUNTING, FRONT LIFT
REQUIRES: Hydraulics control part number that has front lift (FL) function
REQUIRED, to use Front Scarifiers
CANNOT BE USED WITH: PUSH PLATE
CANNOT BE USED WITH: COUNTERWEIGHT
CANNOT BE USED WITH: MID MOUNT SCARIFIER PACKAGE

(The Installed Manual Lift Group can be attached to the machine at the sametime as the mounting for the mid-mount scarifier, but not the actual scarifier itself).

NOTE: A Not-Installed Manual Lift Group can be ordered with an INSTALLED Push Plate or Counterweight. The not-installed lift group will be skidded, banded and shipped with the unit.

NOT INSTALLED COMPATIBILITY:
REQUIRES: MOUNTING, FRONT LIFT
REQUIRES: Hydraulics control part number that has front lift (FL) function

L	359-3925	**LIFT GROUP, FRONT MOUNTING**	10	**$442**

Two mounting plates welded to both sides of the front frame for factory or future installation of Front Lift.
REQUIRED BY: LIFT GROUP, MANUAL, FRONT

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

WORK TOOLS (CONT.)

WORK TOOLS (Cont.)

L	**387-8664**	**LINES, RIPPER, ADDITIONAL**	8	**$426**

For use with rear mounted auxiliary functions. Provides two hydraulic hoses with one end bundled at the rear of the machine and the other end bundled at the rear valve bank in front of the cab.
REQUIRES: Ripper Function
FOR USE WITH: BASE + 1 (RIP)
FOR USE WITH: BASE + 2 (FL, RIP)
FOR USE WITH: BASE+3 (FL,DA1,RIP)
FOR USE WITH: BASE+4 (WM,WT-FLOAT,FL,RIP)
FOR USE WITH: BASE+4 (WM,WT,FL,RIP) NOFLT
FOR USE WITH: BASE+3 (FL,MMS,RIP)
FOR USE WITH: BASE+5 (WM,WT,DA1,FL,RIP)
FOR USE WITH: BASE+6 (WM,WT,DA1,DA2,FL,RIP)

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

GROUND ENGAGING TOOLS

GROUND ENGAGING TOOLS

P	**8J-1434**	**TOOTH, STRAIGHT**	67 67	**$805** **$805 NI**
		NOTE AVAIALABLE for use as NOT INSTALLED ONLY with Miscellaneous order for RIPPER-SCARIFIER, REAR using 0P-2974 140M3 AWD MISC MATERIAL Ripper tooth group for rear ripper. Includes one straight shank with ripper tooth. Recommended order quantity of 2 ONLY FOR USE WITH: RIPPER/SCARIFIER		
P	**4K-3330**	**SHANKS/TEETH, RIPPER/SCARIFIER**	152 152	**$1,404** **$1,404 NI**
		NOTE AVAIALABLE for use as NOT INSTALLED ONLY with Miscellaneous order for RIPPER-SCARIFIER, REAR using 0P-2974 140M3 AWD MISC MATERIAL Nine shanks for ripper and scarifier combination. Utilizes the scarifier shank positions on a ripper and scarifier combination. Will work with a midmount scarifier ONLY FOR USE WITH: RIPPER/SCARIFIER		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

FIELD INSTALLED ATTACHMENTS

Please refer to the Caterpillar Work Tools Price List (WT-MG) for Motor Grader work tools.

Available Through Parts Distribution

Reference numbers below are kits used to upgrade existing motor graders with new features or technology

463-6258 KIT, JOYSTICK,ADVANCED CONTROL
Improves operational efficiency when utilizing ACCUGRADE or GRADE CONTROL X SLOPE.
Estimated install Hours: 2.5
Special Instructions: REHS8847

442-8145 KIT, ACCUMULATOR, BLADE LIFT
Provides hydraulic lines for base functions and accumulators for the blade lift. Allows approximately 1-3" of vertical blade travel to reduce impact loads. Nitrogen/oil accumulators activated by electric switch.
Estimated install Hours: 8
Special Instructions: REHS4230

466-5233 KIT, EXTENSIONS, MIRROR HEATED
9" extension from Current Mirror, adds 2 additional mirrors 1 for front visibility and 1 rear visibility. Heated to keep free of ice and snow in cold weather
Estimated install Hours: 2

466-5255 KIT, EXTENSIONS, MIRROR STD
9" extension from Current Mirror, adds 2 additional mirrors, 1 for front visibility and 1 rear visibility
Estimated install Hours: 2

524-8603 KIT,LEFT HAND BLADE EXTENSION
24" x 24" x 7/8" - Left Hand Blade Extension Kit for use with 12 ft. and 14 ft. Basic Moldboards.
Estimated install Hours: 1.5

524-8604 KIT,LEFT HAND BLADE EXTENSION
24" x 27" x 1" - Left Hand Blade Extension Kit for use with 14 ft. Plus Moldboard.
Estimated install Hours: 1.5

524-8605 EXTENSION, BLADE, 24" RH
24" x 24" x 7/8" - Right Hand Blade Extension Kit for use with 12 ft. and 14 ft. Basic Moldboards.
Estimated install Hours: 1.5

524-8606 EXTENSION, BLADE, 24" RH
24" x 27" x 1" - Right Hand Blade Extension Kit for use with 14 ft. Plus Moldboard.
Estimated install Hours: 1.5

524-8607 KIT, SPARE RIM
14" x 25" AWD MP Spare Rim - for use on rear of AWD Machine
Estimated install Hours: 0.5

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

FIELD INSTALLED ATTACHMENTS (CONT.)

Available Through Parts Distribution (Cont.)

524-8608 **KIT, SPARE RIM**
14" x 25" AWD MP Spare Rim - for use on front of AWD Machine
Estimated install Hours: 0.5

524-8609 **KIT, SPARE RIM**
10" x 24" AWD MP Spare Rim - for use on rear of AWD Machine
Estimated install Hours: 0.5

524-8610 **KIT, SPARE RIM**
10" x 24" AWD MP Spare Rim - for use on front of AWD Machine
Estimated install Hours: 0.5

488-2192 **KIT, CIRCLE SAVER**
Circle Saver
Estimated install Hours: 0.5
Special Instructions: REHS4230

434-1068 **KIT, FENDERS, FRONT**
12/140/160M3 AWD Front Fender Kit

434-1065 **KIT, FENDERS, REAR**
12M3 & 140M3 Rear Fender Kit

380-3889 **KIT, HEATED GLASS, RH DOOR**
Right Hand Heated Door Glass
Special Instructions: REHS7154

380-3885 **KIT, HEATED GLASS,WIDE FRONT**
Wide Front Heated Glass
Special Instructions: REHS7155

380-3886 **KIT, HEATED GLASS,NARROW FRONT**
Narrow Front Heated Glass
Special Instructions: REHS7155

473-5233 **KIT, STORAGE, CAB**
12/140/160M3 Cab Storage Kit

PACKING

MACHINE PACKING (Must Select One)

0P-0251 **DOMESTIC TRUCK** . . . . . 0 **NC**

0P-6645 **BUNDLED, LESS TIRES** . . . . . 0 **$1,175 NET**
Ships less tires. Rims ship on a separate skid.

ATTACHMENT PACKING

0P-0210 **PACK, DOMESTIC TRUCK** . . . . . 0 **NC**
Use for miscellaneous material orders.

0P-1935 **BUNDLED FRONT LIFT GROUP** 0 **$1,175**
Required when ordering the Not Installed
Lift Group,Manual,Front
REQUIRED BY: LIFT GROUP, MANUAL, FRONT NI

160M3 MOTOR GRADER
LITTLE ROCK, AR, USA (SAP)

Ship Weight lbs | LIST PRICE AT DEALER

Standard Equipment:

POWERTRAIN

Air cleaner, dual stage dry type radial seal with service indicator and automatic dust ejector
Air-to-air after cooler (ATAAC)
Belt, serpentine, automatic tensioner
Brakes, oil disc, four-wheel, hydraulic
Demand fan, hydraulic
Differential, lock/unlock, Automatic
Drain, engine oil, ecology
Electronic over-speed protection
Parking brake, multi-disc, sealed and oil cooled.
Sediment drain, fuel tank.
Tandem drive
Transmission, 8 speed forward and 6 speed reverse, power shift, direct drive
VHP plus (Variable Horse Power Plus)

ELECTRICAL

Alarm, back-up
Alternator, 150 ampere, sealed
Batteries, maintenance free, heavy duty, 1125 CCA
Breaker panel, ground accessible
Electrical hydraulic valves
Electrical system, 24V
Grade control ready (cab harness, software, electrical hydraulic valves, bosses and brackets)
Lights, reversing
Lights, roading, roof-mounted
Lights, stop and tail, LED
Starter, electric

OPERATOR ENVIRONMENT

Air Conditioning with heater
Articulation, automatic return to center
Centershift pin indicator
Display, digital speed and gear
Doors, left and right side with wiper
Gauge, machine level
Gauges (analog) inside the cab (includes fuel, articulation, engine coolant temp, engine RPM, and hydraulic oil temp, DEF/AdBlue)
Joystick, adjustable armrests
Joystick gear selection, hydraulic power steering hydraulic controls (right/left, blade lift w/ float position, blade sideshift and tip, circle drive, centershift, front wheel lean and articulation and steering)
Lights, night time cab
Messenger operator information system
Meter, hour, digital
Mirror, inside rearview, wide angle
Power Port, 12V
Radio Ready, Entertainment
ROPS cab, sound suppressed - 69dB(A) - ISO 6394
Seat,cloth-covered, comfort suspension
Storage area for cooler/lunchbox
Throttle control, electronic
Windows laminated glass:
-Fixed front with intermittent wiper
-Side and rear (3)
Windows tempered:
-Left and right side wipers
-Rear with intermittent wiper
Cab storage

SAFETY AND SECURITY

Clutch, circle drive slip
Doors, 2 engine compartment, (two left hand, two right hand) locking
Doors, 2 service, left and right locking
Ground level engine shutdown
Hammer (emergency exit)
Horn, electric
Lockout, hydraulic implement (for roading and servicing)
Seat belt, retractable 76.2 (3")
Secondary steering
Tandem walkway/guards

TIRES, RIMS, AND WHEELS

A partial allowance for tires on 254mm x 609.6mm (10" x 24") multi-piece rims is included in the base machine price and weight.

FLUIDS

Antifreeze
Extended life coolant -35C/-30F

OTHER STANDARD EQUIPMENT

Accumulators -brake -dual certified
Drawbar,6 shoe w/replaceable wear strips
Fluid check, ground level
Fuel tank, 398 liters (105 gallon)
Ground level fueling
DEF/AdBlue tank, 21 liters (5.5 gallon)
Hydraulic lines for base functions
Pump, hydrailic, high capacity (98cc / 15 cu in)
Radiator, cleanout access (both sides with swing doors)
SOS ports - engine -hydraulic

160M3 MOTOR GRADER
LITTLE ROCK, AR, USA (SAP)

	Ship Weight lbs	LIST PRICE AT DEALER

OTHER STANDARD EQUIPMENT (CONT.)

-transmission -coolant -fuel
Tandem walkway/guards
Tool box
Debris guard

160M3 MOTOR GRADER LITTLE ROCK, AR, USA (SAP)	Ship Weight lbs	LIST PRICE AT DEALER

Lane 2 is reserved for the Base Order Management Program.
Please use Lane 2 when placing orders that are part of the Base Order Management Program.

160M3 MOTOR GRADER LITTLE ROCK, AR, USA (SAP)		Ship Weight lbs	LIST PRICE AT DEALER
384-4273	**160M3 MOTOR GRADER** LANE 3 - AVAILABLE FROM NORTH LITTLE ROCK FACTORY	38,131	**$412,720**
0P-2972	**160M3 MISC MATERIAL NLR** AVAILABLE FROM NORTH LITTLE ROCK FACTORY	0	**NC**

Only reference numbers that have the text
"ALSO AVAILABLE ON A MISCELLANOUS ORDER" can be used on a MISC order.

USE	REF NO.	LANE 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

LANE SELECTION

.

	0P-9003	**LANE 3 ORDER**	0	**NC**

REGIONAL PACKAGES

L	385-9294	**GLOBAL ARRANGEMENT** Provides standard brake accumulators. For use in temperatures above -18C CANNOT BE USED WITH: WEATHER, COLD PLUS	0	**NC**
L	385-9297	**GLOBAL ARRANGEMENT,LOW AMBIENT** Provides brake accumulators for low ambient temperatures below -18C CANNOT BE USED WITH: EU dealers CANNOT BE USED WITH: WEATHER, STANDARD	0	**NC**

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

PERFORMANCE PACKAGES

MOLDBOARDS

L	349-3046	**MOLDBOARD, 12'**	0	NC
		INCLUDES: - Moldboard 12' x 24" x 7/8" (3658mm x 610mm x 22mm) - Curved Cutting Edge, 6" X 5/8" (152mm x 16mm) - End Bits, Standard, Without Overlay		
L	349-3047	**MOLDBOARD, 14' BASIC**	347	$1,140
		INCLUDES: - Moldboard 14' x 24" x 7/8" (4267mm x 610mm x 22mm) - Curved Cutting Edge, 8" x 3/4" (203mm x 19mm) - End Bits, Standard, Without Overlay		
L	349-3048	**MOLDBOARD, 14' PLUS**	650	$2,710
		INCLUDES: - Moldboard 14' x 27" x 1" (4267mm x 686mm x 25mm) - Curved Cutting Edge, 8" x 3/4" (203mm x 19mm) - End Bits, Standard, With Overlay		
L	350-0678	**MOLDBOARD, 16 FT**	1,040	$7,080
		INCLUDES: - Moldboard 16' x 27" x 1" (4877mm x 686mm x 25mm) - Curved Cutting Edge, 8" x 3/4" (203mm x 19mm) - End Bits, Standard, With Overlay		

WORK TOOLS

L	393-4882	**NO HITCH**	0	NC
L	337-7510	**HITCH, TOWING**	0	$540
L	324-0889	**RIPPER/SCARIFIER**	2,120	$20,380
		NOTE NOT INSTALLED option is only for use with Miscellaneous orders using 0P-2972 160M3 MISC MATERIAL Hydraulic, rear mounted ripper with three straight ripper shanks. Can accommodate two additional ripper shanks and nine scarifier teeth which must be ordered separately. REQUIRES: A hydraulics control part number that has a ripper function. INCLUDES: Ripper Mounting		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

PERFORMANCE PACKAGES (CONT.)

WEATHER PACKAGES

L	353-3316	**WEATHER, STANDARD**	0	NC
		Recommended for year around use when typical ambient temperature range is 0 degrees C (32 degrees F) to 43 degrees C (110 degrees F) and operating at altitude below 1220 m (4000 feet). INCLUDES: - Batteries, Heavy Duty - 1125 CCA - Oil, Hydraulic, 10W FOR USE WITH: GLOBAL ARRANGEMENT FOR USE WITH: EUROPEAN ARRANGEMENT FOR USE WITH: EUROPEAN AR. W/ ROADING (TUV) CANNOT BE USED WITH: GLOBAL ARRANGEMENT,LOW AMBIENT		
L	394-4521	**COLD WEATHER PACKAGE**	0	$760
		Recommended for year around use when typical ambient temperature range is 0 degrees C (32 degrees F) to 43 degrees C (110 degrees F) and operating at altitude below 1220 m (4000 feet). INCLUDES: - Starting Aid, Ether - Batteries, Extreme Duty -1400 CCA - Oil, Hydraulic, 10W FOR USE WITH: GLOBAL ARRANGEMENT FOR USE WITH: GLOBAL ARRANGEMENT,LOW AMBIENT FOR USE WITH: CANADIAN ARRANGEMENT FOR USE WITH: EUROPEAN ARRANGEMENT FOR USE WITH: EUROPEAN AR. W/ ROADING (TUV)		
L	394-4522	**COLD WEATHER PLUS PACKAGE**	38	$3,005
		REQUIRES: STARTER, ELECTRIC, HEAVY DUTY or STARTER, ELEC, HEAVY DUTY(TUV) Recommended for year around use when typical ambient temperature range is -40 degrees C (-40 degrees F) to 40 degrees C (104 degrees) or operating at altitude above 1220 m (4000 feet). INCLUDES: - Starting Aid, Ether - Cold Start; Transmission oil and fan brake bypass - Batteries, Extreme Duty -1400 CCA - Oil, Hydraulic, Cold, 0W REQUIRES: HEATER, ENGINE COOLANT, 120V or HEATER, ENGINE COOLANT, 240V REQUIRED BY: SNOW ARRANGEMENT FOR USE WITH: GLOBAL ARRANGEMENT,LOW AMBIENT FOR USE WITH: CANADIAN ARRANGEMENT FOR USE WITH: EUROPEAN ARRANGEMENT FOR USE WITH: EUROPEAN AR. W/ ROADING (TUV) CANNOT BE USED WITH: GLOBAL ARRANGEMENT		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

PERFORMANCE PACKAGES (CONT.)

ACCUMULATORS

L	305-2927	**LINES,STANDARD W/O ACCUMULATOR**	0	NC
		Provides hydraulic lines for base functions		
L	358-9338	**ACCUMULATORS, BLADE LIFT**	170	$4,665
		Provides hydraulic lines for base functions and accumulators for the blade lift. Allows approximately 1-3" of vertical blade travel to reduce impact loads. Nitrogen/oil accumulators activated by electric switch.		
		CANNOT BE USED WITH: Canadian Dealers.		

PRECLEANER

L	380-6774	**PRECLEANER, NON SY-KLONE**	0	NC
		Includes dust ejector for medium to heavy dust environments.		
L	380-6775	**PRECLEANER, SY-KLONE**	5	$750
		Recommended for environments with large debris (leaves, chips, large grass, etc.)		

POWERTRAIN

ENGINE

L	567-4690	**ENGINE, TIER IV**	0	NC
		EPA Tier 4 Final certified engine with aftertreatment		
		Caterpillar C9 ACERT turbo charged diesel engine with automatic engine derate and idle control.		
		CANNOT BE USED WITH: EU DEALERS		

OIL CHANGE

L	324-5328	**DRAIN, GRAVITY, ENGINE OIL**	0	NC
		Standard engine oil drain		
L	501-1163	**DRAIN, HIGH SPEED, ENGINE OIL**	0	$286
		High speed engine oil drain. Requires pump at service location to be attached to coupling receiver for high speed flow.		
		HSO drain can also manual/gravity drain.		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS

NOTE: Optional Control Locations

Caterpillar offers many attachment hydraulic controls to operate work tools. Depending on which hydraulic part number is selected, the operating electro-hydraulic switches may include the auxiliary pod, mini-joystick located on the auxiliary pod, and/or the ripper control pod.

NOTE: Auxiliary controls that can have float

Auxiliary Pod Controls

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INDEX = Index Finger (front lift)(float capability)
MID = Middle Finger(dozer angle 1)
RING = Ring Finger (dozer angle 2)
LITTLE= Little Finger (float capability)
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NOTE: Mini-Joystick

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 Fore/Aft
     .
    / \
     |
<--------->  Left/Right (float capability)
     |
    \ /
     .
```

NOTE: Ripper Control Pod

```
RH1   =  Front Lift (float capability)
RH2   =  Ripper-Scarifier Control
RHD   =  Ripper Handle Dual Switch (RH1 & RH2)
```

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

NOTE: Common Functions

COMMON FUNCTIONS:

Base = 8 functions: right and left blade lift, circle turn, drawbar center shift, blade side shift, blade tip, front wheel lean, frame articulation.

```
     FL      = Front Lift (moves front work tools up/down)
     DA1     = Dozer Angle 1 (angles front blade left OR right)
     DA2     = Dozer Angle 2 (angles front blade left AND right)
     RIP     = Rear Mounted Ripper (moves ripper up/down)
     MMS     = Mid-Mounted Scarifier
     WM      = Wing Mast
     WT      = Wing Tilt
     Float   = Built-in feature of valve section that opens both the
               work ports to tank. The external forces (weight of the
               work ports to tank. The external forces (weight of the
                implement) allows free movement of the implement.
     Flow Rate=Provides maximum rate of fluid flow from the specific
                work port.  B/A represents the maximum flow rate in
                Port B/Port A* in LPM (liters per minute).

 *NOTE: Each valve section has two work ports (Port A and Port B).
     Port A:  Used to either raise implement or move implement to the
     right or for clockwise rotation of the implement.
     Port B:  Used to either lower implement or move implement to the
     left or for counter-clockwise rotation of the implement.
```

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

HYDRAULIC VALVE LOCATIONS

This illustration shows the factory installed switch location for each function by hydraulic part number.

Part Number	MINI-JOYSTICK Front Aft	MINI-JOYSTICK Left/ Right Float	MINI-JOYSTICK Index with Float	AUXILIARY POD Mid	AUXILIARY POD Ring	AUXILIARY POD Little	RIPPER POD RHD RH1	RIPPER POD RHD RH2
242-5056								
385-8094								RIPPER
Float:								N
Flow rate:								49/49
354-4113								MID-MOUNT SCARIFIER
Float:								Y
Flow Rate:								25/36
309-9848							FR.LIFT	
Float:							Y	
Flow Rate:							46/60	
385-8095							FR.LIFT	RIPPER
Float:							Y	N
Flow rate:							46/60	49/49
395-2008	MAST	TILT	FR.LIFT					
Float:	N	N	Y					
Flow rate:	72/72	41/30	46/60					
385-8096			FR.LIFT	DA1				RIPPER
Float:			Y	N				N
Flow rate:			46/60	72/72				49/49
385-8099	MAST	TILT	FR.LIFT					RIPPER
Float:	N	Y	Y					N
Flow rate:	72/72	74/86	46/60					49/49
385-8100	MAST	TILT	FR.LIFT					RIPPER
Float:	N	N	Y					N
Flow rate:	72/72	41/30	46/60					49/49
395-2009	MAST	TILT	FR.LIFT	DA1	MID-MOUNT SCARIFIER			
Float:	N	N	Y	N	N			
Flow rate:	72/72	41/30	46/60	72/72	25/36			

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

HYDRAULIC VALVE LOCATIONS LANE 3 ONLY

Part Number	MINI-JOYSTICK Front / Aft	MINI-JOYSTICK Left/ Right / Float	AUXILIARY POD Index with Float	AUXILIARY POD Mid	AUXILIARY POD Ring	AUXILIARY POD Little	RIPPER POD RH1	RIPPER POD RH2
385-8097			FR.LIFT	MID-MOUNT SCARIFIER				RIPPER
Float:			Y	N				N
Flow rate:			46/60	25/36				49/49
385-8101	MAST	TILT	FR.LIFT	DA1				RIPPER
Float:	N	N	Y	N				N
Flow rate:	72/72	41/30	46/60	72/72				49/49
385-8103	MAST	TILT	FR.LIFT	DA1	DA2			RIPPER
Float:	N	N	Y	N	N			N
Flow rate:	72/72	41/30	46/60	72/72	72/72			49/49
481-8610	MAST	TILT	FR.LIFT	DA1	DA2			RIPPER
Float:	N	Y	Y	N	N			N
Flow rate:	72/72	74/86	46/60	72/72	72/72			49/49

HYDRAULIC VALVE PART NUMBERS

L	242-5056	**HYDRAULICS, BASE** . . . . . 0 Base hydraulic system includes machine articulation, wheel lean, left and right blade lift with independent float, drawbar centershift, circle drive, blade sideshift and tip.		NC
L	385-8094	**BASE + 1 (RIP)**. . . . . 21 Ripper function. Includes the Ripper Lines. ONLY FOR USE WITH: RIPPER-SCARIFIER, REAR		$2,300
L	354-4113	**BASE + 1 (MMS)** . . . . . 21 Mid-Mount Scarifier function. Includes the Mid-Mount Scarifier Lines. ONLY FOR USE WITH: MID MOUNT SCARIFIER PACKAGE		$2,300
L	309-9848	**BASE + 1 (FL)**. . . . . 18 Front Lift function. Includes the Front Lift Lines. ONLY FOR USE WITH: LIFT GROUP, MANUAL, FRONT		$1,890
L	385-8095	**BASE + 2 (FL,RIP)** . . . . . 37 Ripper and Front Lift functions. Includes the Front Lift Lines and Ripper Lines. ONLY FOR USE WITH: LIFT GROUP, MANUAL, FRONT RIPPER-SCARIFIER, REAR		$4,085
L	395-2008	**BASE + 3 (WM,WT-NOFLOAT,FL)** . . . . . 60 Front Lift, Snow Wing Mast, and Snow Wing Tilt ONLY FOR USE WITH: SNOW ARRANGEMENT LIFT GROUP, MANUAL, FRONT		$6,540
L	385-8096	**BASE + 3 (FL,DA1,RIP)** . . . . . 67 Ripper, Front Lift and Angle functions. Includes the Front Lift Lines Dozer Angle 1 Lines, and Ripper Lines. ONLY FOR USE WITH: LIFT GROUP, MANUAL, FRONT RIPPER-SCARIFIER, REAR		$7,460

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

HYDRAULIC VALVE PART NUMBERS (Cont.)

L	385-8099	**BASE + 4 (WM,WT-FLOAT,FL,RIP)**	85	$8,960
		Ripper, Front Lift, Snow Wing Mast and Snow Wing Tilt (74/86 with float) functions. Includes the Front Lift Lines and Ripper Lines. ONLY FOR USE WITH: SNOW ARRANGEMENT LIFT GROUP, MANUAL, FRONT RIPPER-SCARIFIER, REAR		
L	385-8100	**BASE + 4 (WM,WT,FL,RIP) NOFLT**	85	$8,700
		Ripper, Front Lift, Snow Wing Mast and Snow Wing Tilt (41/30 - No Float) functions. Includes the Front Lift Lines and Ripper Lines. ONLY FOR USE WITH: SNOW ARRANGEMENT LIFT GROUP, MANUAL, FRONT RIPPER-SCARIFIER, REAR		
L	395-2009	**BASE + 5 (WM,WT,DA1,FL,MMS)**	120	$10,790
		Snow Wing Mast, Snow Wing Tilt (41/30 - No Float) functions, Dozer Angle 1, Front LIFT, and Mid-Mount Scarifier Includes the Front Lift Lines, Angle 1 Lines, and Mid-Mount Scarifier Lines. ONLY FOR USE WITH: SNOW ARRANGEMENT LIFT GROUP, MANUAL, FRONT MID MOUNT SCARIFIER PACKAGE		

HYDRAULIC VALVE PART NUMBERS LANE 3 ONLY

L	385-8097	**BASE+3 (RIP, MMS, FL)**	67	$7,460
		FOR USE WITH: Lane 3 only. Front Lift, Ripper and Mid-Mount Scarifier functions. Includes the Front Lift Lines, Ripper Lines and Mid-Mount Scarifier Lines. ONLY FOR USE WITH: LIFT GROUP, MANUAL, FRONT RIPPER-SCARIFIER, REAR MID MOUNT SCARIFIER PACKAGE		
L	385-8101	**BASE + 5 (WM,WT,DA1,FL,RIP)**	120	$10,790
		FOR USE WITH: Lane 3 only. Snow Wing Mast, Snow Wing Tilt (41/30 - No Float) functions, Dozer Angle 1, Front LIFT, and Ripper. Includes the Front Lift Lines, Angle 1 Lines, and Ripper Lines. ONLY FOR USE WITH: SNOW ARRANGEMENT MOUNT, SNOW WING, FRAME READY LIFT GROUP, MANUAL, FRONT RIPPER-SCARIFIER, REAR		
L	385-8103	**BASE + 6(WM,WT,DA1,DA2,FL,RIP)**	130	$13,350
		FOR USE WITH: Lane 3 only. Ripper, Dozer Angle 1, Dozer Angle 2, Front Lift, Snow Wing Mast and Snow Wing Tilt (41/30 - No Float) functions. Includes the Front Lift Lines, Dozer Angle 2 Lines and Ripper Lines. ONLY FOR USE WITH: SNOW ARRANGEMENT MOUNT, SNOW WING, FRAME READY LIFT GROUP, MANUAL, FRONT RIPPER-SCARIFIER, REAR		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

HYDRAULIC VALVE PART NUMBERS (Cont.)

L	**481-8610**	**BASE+6(WM,WT+F,DA1,DA2,FL,RIP)**.	130	**$13,620**

FOR USE WITH: Lane 3 only.
Ripper, Dozer Angle 1, Dozer Angle 2, Front Lift, Snow Wing Mast and Snow Wing Tilt (72/72 + Float) functions. Includes the Front Lift Lines, Dozer Angle 2 Lines and Ripper Lines.
ONLY FOR USE WITH: SNOW ARRANGEMENT
MOUNT, SNOW WING, FRAME READY
LIFT GROUP, MANUAL, FRONT
RIPPER-SCARIFIER, REAR

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

STARTERS, BATTERIES, & ALTERNATORS

STARTER ARRANGMENT

L	394-3945	**STARTER, ELECTRIC, HEAVY DUTY**	0	NC
		Provides a 1000 Amp. starter		
L	395-3547	**STARTER, ELEC, EXTREME DUTY**	21	$408
		Recommended for Cold weather applications Provides a 1000 Amp. starter		

ELECTRICAL

BRAKE LIGHTS

L	331-6793	**LIGHTS, BRAKE AND BACK-UP**	0	NC
		Provides stationary rear brake lights along with the back-up lights. Does not include front headlights or turn signals CANNOT BE USED WITH: 526-2563 EUROPEAN ARRANGEMENT 394-3871 EUROPEAN AR. W/ROADING (TUV) 308-9370 LIGHTS, FRONT HEADLIGHTS, LOW 308-9371 LIGHTS, FRONT HEADLIGHTS, HIGH 396-1966 SNOW ARRANGEMENT		
L	536-9969	**LIGHTS, ARM, FOLD DOWN**	0	$1,875
		Provides stationary rear brake lights along with the back-up lights, dimmer switch for road lighting, drop-down stop, tail, and rear turn signals and back-up lights. REQUIRES: 308-9370 LIGHTS, FRONT HEADLIGHTS, LOW 308-9371 LIGHTS, FRONT HEADLIGHTS, HIGH INCLUDED IN: 396-1966 SNOW ARRANGEMENT		

ROADING LIGHTS

L	421-7810	**LIGHTS, ROADING, HALOGEN**	0	NC
		Provides six halogen cab roof mounted roading lights.		
L	550-6608	**LIGHTS, ROADING, LED**	0	$1,245
		Provides six LED cab roof mounted roading lights.		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

OPERATOR ENVIRONMENT

CAB EXTERIOR

L	385-9553	**CAB, BASE (STANDARD GLASS)**	0	NC
		INCLUDES: - 150 amp alternator - Standard Glass CANNOT BE USED WITH: SNOW ARRANGEMENT CANNOT BE USED WITH: EUROPEAN ARRANGEMENT CANNOT BE USED WITH: EUROPEAN AR. W/ ROADING (TUV)		
L	385-9554	**CAB, PLUS (STANDARD GLASS)**	35	$1,105
		INCLUDES: - 150 amp alternator - Wiper/washer, rear - Standard Glass		
L	385-9555	**CAB, PLUS (ANTI-ICING GLASS)**	35	$6,630
		INCLUDES: - 270 amp alternator - Wiper/washer, rear - Front glass and RH door glass are heated.		

CAB INTERIOR

L	397-7456	**CAB, BASE (INTERIOR)**	0	NC
		INCLUDES: - Seat, mechanical suspension, cloth - Shade, Sun CANNOT BE USED WITH: SNOW ARRANGEMENT CANNOT BE USED WITH: EUROPEAN ARRANGEMENT CANNOT BE USED WITH: EUROPEAN AR. W/ ROADING (TUV)		
L	397-7457	**CAB, PLUS (INTERIOR)**	45	$3,010
		INCLUDES: - Seat, Air Suspension, Cloth, Heated - Radio,12V, AM/FM, Weatherband, Bluetooth, USB, Aux Input Available to countries with bluetooth certification. Please contact your Cat marketing representative if you have questions. - Fan, defroster, rear window - Converter, Communication (CB) - Shade, Sun		
L	397-7458	**CAB, PREMIUM (INTERIOR)**	80	$4,580
		- Seat, air suspension, cloth; Heated, Ventilated - Radio,12V, AM/FM CD/MP3 Bluetooth, Weatherband, USB, Aux Input XM/Sirius Satellite Available to countries with bluetooth certification. Please contact your Cat marketing representative if you have questions. - Fan, defroster, rear window - Converter, Communication (CB) - Shade, Sun *Recommended for Snow Removal		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

OPERATOR ENVIRONMENT (CONT.)

SEAT BELT

L	394-1492	**SEAT BELT**	0	NC
		Standard 3 inch seat belt		
L	394-1132	**SEAT BELT W/INDICATOR**	5	$193
		Standard 3 inch seat belt with indicator located on display panel		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

TECHNOLOGY PRODUCTS

PRODUCT LINK

Product Link enables the remote transmission of information aboutntly the location, operation, and condition of your equipment. Efficiently and effectively monitor the performance of your assets to help keep your jobs on schedule, maintain equipment condition, and reduce the costs of owning and operating your fleet. Availability varies byon country - please reference https://Dealer.cat.com/PL/Certification for certified countries. Please contact your Caterpillar marketing representative with questions.

L	464-6804	**PRODUCT LINK, SATELLITE PLE631** . . . . . Product Link Elite series PLE631 uses a satellite network to transmit location, utilization and condition information for viewing in Product Link's remote monitoring web interface. For use in areas with poor or no cellular coverage.	29	**$432**
L	464-6442	**PRODUCT LINK, CELLULAR PLE641** . . . . . Product Link Elite series PLE641 offers expanded coverage including 3G UMTS and CDMA2000 as well as 2G GSM and CDMA cellular networks to transmit location, utilization and condition information f viewing in Product Link-s remote monitoring web interface. Cellular technology provides capabilities for frequent transmission and larger volumes of data.	29	**NC**

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

TECHNOLOGY PRODUCTS (CONT.)

ACCUGRADE

L	362-5222	**NO ACCUGRADE**	0	NC
L	462-7928	**INSTALLATION, ACCUGRADE READY** Allows the Motor Grader to be equipped with either a Cross Slope, Sonic, Laser, GPS, or ATS electronics kit. Provides software, harnesses for sensors, mounting for sensors and blade mast bracket.	90	$4,830

NOTE: Highly recommended to select Advanced Joystick Controls. This will Allow for complete configuration and control when using 3 party grade control systems

L	462-7929	**GRADE CONTROL X SLOPE** Allows the operator to manually control one end of the blade to match the curb or crown while automatically maintaining the desired slope of the blade. This system is used to maintain the crown of a gravel road or the shoulder of a road. Provides cab switches, software, harnesses for sensors, mounting for sensors and blade mast bracket. Accugrade Ready is included in this option REQUIRES: JOYSTICK CONTROLS, ADVANCED INCLUDED IN: 492-3594 CONTROLS, PERFORMANCE BUNDLE	165	$11,060

MOTOR GRADER CONTROLS

L	357-9151	**JOYSTICK CONTROLS, BASIC** Standard joystick controls.	6	NC
L	458-8701	**JOYSTICK CONTROLS, ADVANCED** Provides enhanced functionality while using ACCUGRADE READY or GRADE CONTROL X SLOPE INCLUDES: - Advanced Joysticks - Harness - Films REQUIRED BY: GRADE CONTROL X SLOPE. RECOMMENDED FOR USE WITH: ACCUGRADE READY INCLUDED IN: 492-3594 CONTROLS, PERFORMANCE BUNDLE	8	$2,030

CONTROL AUTO ARTICULATION

L	483-2354	**CONTROL,AUTO ARTICULATION-DEMO** 500 machine hour demo. Improves ease of operation, increases maneuverability and maximizes productivity by automatically matching articulation angle to steering angle. Includes 3 position rocker switch enabling 3 modes; off / forward / both forward and reverse.	0	NC
L	435-2072	**CONTROL,AUTO ARTICULATION-FULL** Improves ease of operation, increases maneuverability and maximizes productivity by automatically matching articulation angle to steering angle. Includes 3 position rocker switch enabling 3 modes; off / forward / both forward and reverse.	0	$1,810

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER
FUEL SYSTEMS				
L	540-2373	**TANK, FUEL, STANDARD** . . . . . Standard Fuel 105 gallon (398 L)	0	NC
L	553-3677	**TANK, FUEL, FAST FILL** . . . . . Fuel tank is ready to accept fast fill 100 gpm nozzle. Tank capacity is 105 gallons (398 L)	0	$1,410
COOLING				
COOLING FAN				
L	542-4660	**FAN, STANDARD** . . . . . Provides a hydraulically driven demand fan	0	NC
L	542-4661	**FAN, REVERSING** . . . . . Provides a hydraulically driven demand fan that can reverse direction to prevent debris build up on the cooling package and engine enclosure. Includes automatic and manual controls for airflow reversal. Recommended for applications with a high content of airborne debris.	0	$3,105

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

TIRES, RIMS, AND WHEELS

**Tires listed below include a set of six tires.
**To calculate tire loads with machine attachments, please reference the MG Tire Selection Pocket Guide (media #AEXQ0182), available on the Electronic Sales Library.
All tire selections should be made with consideration for planned machine attachments (OEM and aftermarket) and their additional weight. Each tire has a maximum load rating that is not to be exceeded. The tire selection should be based on the maximum of all tire position loads on the machine. Assistance for calculating the highest tire load can be found in the Tire Load Worksheet in the back of the Caterpillar Motor Graders Tire Selection Pocket Guide. Failure to abide by the load ratings of the tires without first consulting the local tire supplier representative could result in nullification of the tire warranty.**

Due to industry-wide tire availability limitations, tire brand and type cannot be guaranteed. Every effort will be made to satisfy your tire choice, but we reserve the right to change to alternate tires. If the tire brand cannot be supplied, the dealer will be contacted to propose alternative tire options. The dealer will need to respond with an alternative tire selection within 72 hours. If no response is provided by the supplier, the order will default to a comparable tire. As a consequence of a tire change the total machine price will be decreased or increased relative to the price of the new tire selection.

The information provided can be used to make a tire selection based on the particular conditions at the site. When available, the tire manufacturer should be consulted regarding proper tire selection.

APPLICATION SPECIFIC TIRES

L	515-5399	**TIRES,14.0R24 SOIL TRACTION MP**	0	$5,970
		Tire group received will be one of the tire groups listed below: - Bridgestone VKT 1* on 10" x 24" multi-piece rims. - Michelin XGLA2 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	515-5400	**TIRES,17.5R25 SOIL TRACTION MP**	0	$12,450
		Tire group received will be one of the tire groups listed below: - Bridgestone VKT 1* on 14" x 25" multi-piece rims. - Michelin XTLA 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

TIRES, RIMS, AND WHEELS (CONT.)

Bridgestone

L	252-0714	**TIRES, 14.0 R24 BS VKT * G2**	1,540	$6,970
		Bridgestone VKT 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	252-0720	**TIRES, 14.0R24 BS VUT * L2 MP**	1,012	$7,250
		Bridgestone VUT 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	252-0775	**TIRES, 17.5R25 BS VKT * D2A MP**	1,810	$13,450
		Bridgestone VKT 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	252-0708	**TIRES, 14.0R24 BS VSW * G2 MP**	1,481	$13,320
		FOR USE WITH LANE 3 ONLY Bridgestone VSW 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	310-7331	**TIRES, 17.5R25 BS VSW * G2 MP**	1,888	$18,590
		Bridgestone VSW 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		

Michelin

L	252-0679	**TIRES,14.0R24 MX XGLA2 * G2 MP**	1,069	$10,860
		Michelin XGLA2 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (7824 lbs) 3550 kg.**		
L	252-0701	**TIRES,14.0R24 MX XSNO+ * G2 MP**	1,282	$14,890
		Michelin XSNO 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (7824 lbs) 3550 kg.**		
L	252-0777	**TIRES,17.5R25 MX XSNO+ * G2 MP**	1,093	$20,490
		Michelin XSNO+ 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	252-0771	**TIRES, 17.5R25 MX XTLA * L2 MP**	1,371	$16,110
		Michelin XTLA 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	254-7904	**TIRES,14.0R24 MX XGLA2 * G2 SP**	709	$7,290
		Michelin XGLA 1* on 9" x 24" single piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (7824 lbs) 3550 kg.**		
L	254-7971	**TIRES, 17.5R25 MX XTLA * L2 SP**	979	$11,910
		Michelin XTLA 1* on 13" x 25" single piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

TIRES, RIMS, AND WHEELS (CONT.)

SHIPPING TIRES

L	440-3433	**TIRES, 17.5 SHIPPING, MP**	274	$2,250
		FOR USE WITH LANE 3 ONLY Shipping tire for use during shipment of machine only. Solid rubber band mounted on 14" x 25" multi-piece rims. Must be replaced with pneumatic tire before delivering to customer.		
L	448-5577	**TIRES, 14.0 SHIPPING, MP**	90	$2,000
		FOR USE WITH LANE 3 ONLY Shipping tire for use during shipment of machine only. Solid rubber band mounted on 10" x 24" multi-piece rims. Must be replaced with pneumatic tire before delivering to customer.		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER
		GUARDS		
		Guards		
L	323-6970	**GUARD GP, HITCH**	25	NC
		Standard bottom plate just rear of articulation hitch		
L	368-6239	**ARTICULATION GUARD.**	30	$1,260
		Provides protection for the articulation rods from snow, dirt and Highly recommended for snow removal applications, or below freezing CANNOT BE USED WITH : SOUND SUPRESSION (BOTTOM)		
		FLUIDS		
		ANTIFREEZE		
L	469-8157	**COOLANT, 50/50, -35C (-31F)**	0	NC
		Standard engine coolant		
L	469-8160	**COOLANT, 60/40, -51C (-60F)**	0	$245 NET
		Engine coolant recommended for extreme low temperatures		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

DOCUMENTATION

LANGUAGE SELECTION

NOTE: This part number will provide the language for Messenger and Statement of Conformity

L	**386-1254**	**LANGUAGE, ENGLISH**	0	**NC**

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

DOCUMENTATION (CONT.)

DECAL PACKAGES

NOTE: This part number will provide the films in ANSI or ISO
The word "WARNING" is on picto decals for ANSI.
Symbols only are on picto decals for ISO.

L	**442-9940**	**DECALS, ENGLISH (U.S.)** . . . . . 0 Provides decals as required by ANSI.		**NC**

USE	REF NO.	LANE 3 OPTIONAL	Ship Weight lbs	LIST PRICE AT DEALER

FEATURE PACKAGES

REGIONAL OPTIONAL PACKAGES.

L	396-1966	**SNOW ARRANGEMENT**	355	$6,460

INCLUDES:
- LIGHTS, ARM, FOLD DOWN
- MOUNTING, WARNING LIGHT
- TRANSMISSION, AUTOSHIFT

RECOMMENDED: MIRRORS, OUTSIDE HEATED
REQUIRES: MOUNT,SNOW WING,FRAME RDY HAL or LED
LIGHTS, WORKING, PLUS, HALOGEN or LED
HEADLIGHTS,FRONT, HIGH, (HALOGEN OR LED)
HEATER, ENGINE COOLANT, 120V or 240V
STARTER, ELEC, EXTREME DUTY or EXTRM DUTY(TUV)
WEATHER, COLD PLUS
CAB, PLUS (STANDARD GLASS) or (ANTI-ICING GLASS)

WORK TOOL PACKAGES

L	358-9341	**MID MOUNT SCARIFIER PACKAGE**	2,076	$16,290

INCLUDES:
- Mid-mount Scarifier, V-Type with 11 Teeth
- MOUNT, MID-MOUNT SCARIFIER

CANNOT BE USED WITH: Any Front Lift group or
CANNOT BE USED WITH: FENDERS, FRONT, NON-AWD

WORK TOOL PACKAGES-SNOW WING MOUNT

L	390-9182	**MOUNT,SNOW WING,FRAME RDY HAL**	251	$2,295

INCLUDES:
- Snow Wing Mount
- Light, halogen Snow Wing, Right Hand

REQUIRED BY: SNOW ARRANGEMENT

L	551-6546	**MOUNT,SNOW WING,FRAME RDY LED**	0	$2,710

INCLUDES:
- Snow Wing Mount
- Light, LED Snow Wing, Right Hand

REQUIRED BY: Snow Arrangement

LIGHTING PACKAGES

CANNOT MIX HALOGEN AND LED LIGHT PACKAGES

L	395-1966	**LIGHTS, WORKING, BASIC,HALOGEN**	19	$770

INCLUDES:
- Lights, Work, Heel 3X3
- Lights, Work, Midframe Toe 3X3
- Switch, Work Lighting

USE	REF NO.	LANE 3 OPTIONAL	Ship Weight lbs	LIST PRICE AT DEALER

FEATURE PACKAGES (CONT.)

LIGHTING PACKAGES (Cont.)

L	395-1967	**LIGHTS, WORKING, PLUS, HALOGEN**	22	$1,035
		INCLUDES: - Lights, halogen, ripper 3X3 - Lights, halogen, work, heel 3X3 - Lights, halogen, work, midframe toe 3X3 - Switch, Work Lighting CANNOT BE USED WITH: LIGHTS, ROADING, LED MOUNT,SNOW WING,FRAME RDY LED REQUIRED BY: SNOW ARRANGEMENT		
L	552-7285	**LIGHTS, WORKING, PLUS, LED**	0	$2,590
		INCLUDES: - Lights, LED, ripper 3X3 - Lights, LED, work, heel 3X3 - Lights, LED, work, midframe toe 3X3 - Switch, work lighting CANNOT BE USED WITH: LIGHTS, ROADING, HALOGEN MOUNT,SNOW WING,FRAME RDY HAL REQUIRED BY: SNOW ARRANGEMENT		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

FEATURE PACKAGES (CONT.)

OTHER OPTIONAL ATTACHMENTS

L	338-1132	**LIGHT, LED WARNING STROBE**	5	$605 NI
		Amber high-speed strobe beacon. REQUIRES: MOUNTING, WARNING LIGHT		
L	361-3137	**MOUNTING, WARNING LIGHT**	10	$725
		Provides the bracket for warning beacon light INCLUDED IN: SNOW ARRANGEMENT		
L	396-3515	**TRANSMISSION, AUTOSHIFT**	5	$3,205
		Improves ease of operation and maximizes productivity by automatically shifting the transmission at optimal shift points. REQUIRED BY: EUROPEAN ARRANGEMENT REQUIRED BY: EUROPEAN AR. W/ ROADING (TUV) INCLUDED IN: SNOW ARRANGEMENT		
L	380-3070	**LIGHTS, SERVICE, INTERNAL**	5	$193
		Provides two lights operated by a single manual switch located in the rear enclosure. One light illuminates the engine compartment and the second light illuminates the hydraulic level sight gauge.		

ELECTRICAL

FRONT HEADLIGHTS

L	308-9370	**HEADLIGHTS,FRONT, LOW, HALOGEN**	0	$640
		Provides LOW bar HALOGEN headlights with front turn signals. REQUIRED BY: 526-2563 EUROPEAN ARRANGEMENT 394-3871 EUROPEAN AR. W/ROADING (TUV) 536-9969 LIGHTS, ARM, FOLD DOWN CANNOT BE USED WITH: 396-1966 SNOW ARRANGEMENT ANY LED LIGHTING OPTION		
L	553-2588	**HEADLIGHTS, FRONT, LOW, LED**	0	$1,365
		Provides LOW bar LED headlights with front turn signals. CANNOT BE USED WITH: SNOW ARRANGEMENT ANY HALOGEN LIGHTING OPTION REQUIRED BY: LIGHTS,ARM, FOLD DOWN 526-2563 EUROPEAN ARRANGEMENT 394-3871 EUROPEAN AR. W/ROADING (TUV)		
L	308-9371	**HEADLIGHTS,FRONT, HIGH,HALOGEN**	0	$640
		Provides HIGH bar HALOGEN headlights with front turn signals. CANNOT BE USED WITH: ANY LED LIGHTING OPTION REQUIRED BY: 396-1966 SNOW ARRANGEMENT 526-2563 EUROPEAN ARRANGEMENT 394-3871 EUROPEAN AR. W/ROADING (TUV) 536-9969 LIGHTS, ARM, FOLD DOWN		
L	553-2589	**HEADLIGHTS, FRONT, HIGH, LED**	0	$1,365
		Provides HIGH bar LED headlights with front turn signals. CANNOT BE USED WITH: ANY HALOGEN LIGHTING OPTION REQUIRED BY: LIGHTS,ARM, FOLD DOWN SNOW ARRANGEMENT 526-2563 EUROPEAN ARRANGEMENT 394-3871 EUROPEAN AR. W/ROADING (TUV)		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

OPERATOR ENVIRONMENT

CAMERA

L	396-3921	**CAMERA, REAR VISION**	15	$2,535
		Provides a 115 degree color camera mounted on the rear of the hood that is connected to a 7 inch (178mm) LCD color display mounted in the cab which shows the view behind the machine. REQUIRED BY: EUROPEAN ARRANGEMENT CAN NOT BE USED WITH: EUROPEAN AR. W/ ROADING (TUV) NOTE* EUROPEAN AR. W/ ROADING (TUV) includes front and rear facing cameras		

MIRRORS

L	233-3295	**MIRRORS, OUTSIDE MOUNTED**	32	$495
		Provides two convex mirrors for outside mounting on the left and right cab grab irons. NOTE: The mirrors are wrapped in bubble wrap and rotated toward the doors for protection during shipment. REQUIRED BY: EUROPEAN ARRANGEMENT EUROPEAN AR. W/ ROADING (TUV)		
L	344-0984	**MIRRORS, OUTSIDE HEATED 24V**	33	$670
		Provides mirrors with a 24V heating element to keep mirrors ice free in cold weather operations. NOTE: The mirrors are wrapped in bubble wrap and rotated toward the doors for protection during shipment. REQUIRED BY: EUROPEAN ARRANGEMENT EUROPEAN AR. W/ ROADING (TUV)		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

TECHNOLOGY PRODUCTS

TECHNOLOGY PRODUCTS

L	393-6335	**SECURITY SYSTEM, MACHINE**	10	$720
		FOR USE IN LANE 3 ONLY Provides a programmable system to manage access to the machine using special MSS keys. Deters theft, vandalism, and unauthorized use. Programmable features allow the following: * limits operators to selected machines * controls the days and hours equipment may be started * controls access by untrained operators or personnel		
L	458-2072	**STABLE BLADE**	3	$2,470
		Provides sensor and software to automatically reduce engine speed in various applications to reduce machine bounce and scalloping of surface.		
L	492-3594	**CONTROLS, PERFORMANCE BUNDLE**	176	$15,560
		The Auto Articulation in this bundle is an unrestricted version, not limited to 500 hours. INCLUDES: 435-2072 CONTROL,AUTO ARTICULATION-FULL 458-2072 STABLE BLADE 458-8701 JOYSTICK CONTROLS, ADVANCED 462-7929 GRADE CONTROL X SLOPE		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER
		GUARDS		
		GUARDS		
L	367-6905	**GUARD, AXLE HOSE**	15	$1,075
		Provides additional protection to the front axle cylinders, lines, and fittings.		
		NOTE NOT recommended for use with tire chains		
L	366-2459	**GUARD, TRANSMISSION**	310	$3,400
		Provides a steel guard to protect the transmission from ground debris.		
		REQUIRED BY: SOUND SUPRESSION (BOTTOM)		
		INCLUDED IN: EUROPEAN ARRANGEMENT		
		EUROPEAN AR. W/ ROADING (TUV)		
L	377-1602	**SOUND SUPPRESSION (BOTTOM)**	243	$2,095
		Provides two metallic side panels on either side of the transmission guard, enclosing the rear of the machine. This option prevents debris from accumulating on top of the transmission guard and also suppresses sound to meet EU sound regulations.		
		REQUIRES: GUARD, TRANSMISSION		
		REQUIRES: GUARD GP, HITCH		
		INCLUDED IN: EUROPEAN ARRANGEMENT		
		INCLUDED IN: EUROPEAN AR. W/ ROADING (TUV)		
		CANNOT BE USED WITH: ARTICULATION GUARD		
L	546-0262	**SOUND SUPPRESSION, ENGINE ENCL**	0	$1,540
		Suppression panels in engine enclosure doors.		
		INLCUDED IN: EUROPEAN ARRANGEMENT		
		INCLUDED IN: EUROPEAN AR. W/ ROADING		
L	498-3458	**FENDERS, FRONT, JOY, TND**	0	$4,130
		Non-metallic front fenders aid in reducing the build-up of mud, snow, or debris. Front fenders are compatible with all Non-AWD tire sizes offered by the factory.		
		** NOT RECOMMENDED FOR USE WITH TIRE CHAINS.		
		CANNOT BE USED WITH: MID MOUNT SCARIFIER PACKAGE -OR- GUARD, AXLE HOSE		
L	515-7410	**FENDERS, REAR**	0	$5,200
		Provides non-metallic rear fenders to aid in reducing the build-up of mud, snow, or debris. Rear fenders are compatible with all MG tire sizes offered by the factory.		
		INCLUDED IN: EUROPEAN AR. W/ ROADING (TUV)		
		** NOT RECOMMENDED FOR USE WITH TIRE CHAINS.		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

OTHER ATTACHMENTS

STARTING AIDS

L	249-5516	**HEATER, ENGINE COOLANT, 120V**	3	**$245**
		Engine coolant heater for 120 volt external power source. REQUIRED BY: SNOW ARRANGEMENT		

CIRCLE DRIVE INJECTOR GREASE

L	521-3250	**KIT, CIRCLE SAVER**	0	**$238**
		Remote Circle Drive Greasing point (Zerk). Located top of drawbar for easy servicing of circle drive gear. Helps the pinion maintain its lubrication caused by lack of grease in this component.		

WORK TOOLS

WORK TOOLS

L	360-5074	**MOUNT, MID-MOUNT SCARIFIER**	131	**$1,520**
		Brackets welded to front frame for future installation of midmount scarifier. INCLUDED IN: SCARIFIER, MID-MOUNT V-TYPE NOTE: This is the mounting only and does not include the scarifier. RECOMMENDED: Hydraulics with a mid-mount scarifier (MMS) function NOTE: If you intend to purchase the mid-mounted scarifier, please note that the actual scarifier cannot be attached to the machine at same time as the Lift Group, Hydraulic, Front		
L	367-6880	**COUNTERWEIGHT**	885 0	**$3,200** **$3,200 NI**
		NOTE NOT INSTALLED option is only for use with Miscellaneous orders using 0P-2972 160M3 MISC MATERIAL Front mounted.Recommended when machine is not equipped with front or rear mounted work tool attachments to provide additional blade performance capability. NOTE:This cannot be used in conjunction with push plate, front lift work tools,or the 'installed' hydraulic front lift. It can be used with a not installed hydraulic front lift NOT RECOMMENDED FOR USE WITH: RIPPER-SCARIFIER, REAR CANNOT BE USED WITH: PUSH PLATE LIFT GROUP, MANUAL, FRONT (Installed)		
L	367-6842	**PUSH PLATE, COUNTERWEIGHT**	2,822 2,822	**$5,640** **$5,640 NI**
		NOTE NOT INSTALLED option is only for use with Miscellaneous orders using 0P-2972 160M3 MISC MATERIAL Front mounted. Recommended when machine is equipped with rear ripper/scarifier and other rear mounted attachments. NOTE: This cannot be used in conjunction with counterweight, any front lift work tools,or the 'installed' hydraulic front lift. It can be used with a not installed hydraulic front lift CANNOT BE USED WITH: COUNTERWEIGHT CANNOT BE USED WITH: LIFT GROUP, MANUAL, FRONT (Installed)		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

WORK TOOLS (CONT.)

WORK TOOLS (Cont.)

L	312-2204	**LIFT GROUP, MANUAL, FRONT**	1,500 1,500	**$11,030** **$11,030 NI**

Front hydraulic lift without any work tool attached.
Note: This Front Lift Group has manual locking pins.

INSTALLED COMPATIBILITY:
REQUIRES: MOUNTING, FRONT LIFT
REQUIRES: Hydraulics control part number that has front lift (FL) function
REQUIRED, to use Front Scarifiers
CANNOT BE USED WITH: PUSH PLATE
CANNOT BE USED WITH: COUNTERWEIGHT
CANNOT BE USED WITH: MID MOUNT SCARIFIER PACKAGE

(The Installed Manual Lift Group can be attached to the machine at the sametime as the mounting for the mid-mount scarifier, but not the actual scarifier itself).

NOTE: A Not-Installed Manual Lift Group can be ordered with an INSTALLED Push Plate or Counterweight. The not-installed lift group will be skidded, banded and shipped with the unit.

NOT INSTALLED COMPATIBILITY:
REQUIRES: MOUNTING, FRONT LIFT
REQUIRES: Hydraulics control part number that has front lift (FL) function

L	359-3925	**LIFT GROUP, FRONT MOUNTING**	10	**$442**

Two mounting plates welded to both sides of the front frame for factory or future installation of Front Lift.
REQUIRED BY: LIFT GROUP, MANUAL, FRONT

L	387-8664	**LINES, RIPPER, ADDITIONAL**	8	**$426**

For use with rear mounted auxiliary functions. Provides two hydraulic hoses with one end bundled at the rear of the machine and the other end bundled at the rear valve bank in front of the cab.
REQUIRES: Ripper Function
FOR USE WITH: BASE + 1 (RIP)
FOR USE WITH: BASE + 2 (FL, RIP)
FOR USE WITH: BASE+3 (FL,DA1,RIP)
FOR USE WITH: BASE+4 (WM,WT-FLOAT,FL,RIP)
FOR USE WITH: BASE+4 (WM,WT,FL,RIP) NOFLT
FOR USE WITH: BASE+3 (FL,MMS,RIP)
FOR USE WITH: BASE+5 (WM,WT,DA1,FL,RIP)
FOR USE WITH: BASE+6 (WM,WT,DA1,DA2,FL,RIP)

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

GROUND ENGAGING TOOLS

GROUND ENGAGING TOOLS

P	**8J-1434**	**TOOTH, STRAIGHT**	67 67	**$805** **$805 NI**
		NOTE AVAIALABLE for use as NOT INSTALLED ONLY with Miscellaneous order for RIPPER-SCARIFIER, REAR using 0P-2972 160M3 MISC MATERIAL Ripper tooth group for rear ripper. Includes one straight shank with ripper tooth. Recommended order quantity of 2 ONLY FOR USE WITH: RIPPER/SCARIFIER		
P	**4K-3330**	**SHANKS/TEETH, RIPPER/SCARIFIER**	152	**$1,404**
		NOTE AVAIALABLE for use as NOT INSTALLED ONLY with Miscellaneous order for RIPPER-SCARIFIER, REAR using 0P-2972 160M3 MISC MATERIAL Nine shanks for ripper and scarifier combination. Utilizes the scarifier shank positions on a ripper and scarifier combination. Will work with a midmount scarifier ONLY FOR USE WITH: RIPPER/SCARIFIER		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

FIELD INSTALLED ATTACHMENTS

Please refer to the Caterpillar Work Tools Price List (WT-MG)
for Motor Grader work tools.

Available Through Parts Distribution

Reference numbers below are kits used to upgrade existing motor graders with new features or technology

463-6258 KIT, JOYSTICK,ADVANCED CONTROL
Improves operational efficiency when utilizing ACCUGRADE or GRADE CONTROL X SLOPE.
Estimated install Hours: 2.5
Special Instructions: REHS8847

442-8145 KIT, ACCUMULATOR, BLADE LIFT
Provides hydraulic lines for base functions and accumulators for the blade lift. Allows approximately 1-3" of vertical blade travel to reduce impact loads. Nitrogen/oil accumulators activated by electric switch.
Estimated install Hours: 8
Special Instructions: REHS4230

466-5233 KIT, EXTENSIONS, MIRROR HEATED
9" extension from Current Mirror, adds 2 additional mirrors 1 for front visibility and 1 rear visibility. Heated to keep free of ice and snow in cold weather
Estimated install Hours: 2

466-5255 KIT, EXTENSIONS, MIRROR STD
9" extension from Current Mirror, adds 2 additional mirrors, 1 for front visibility and 1 rear visibility
Estimated install Hours: 2

524-8603 KIT,LEFT HAND BLADE EXTENSION
24" x 24" x 7/8" - Left Hand Blade Extension Kit for use with 12 ft. and 14 ft. Basic Moldboards.
Estimated install Hours: 1.5

524-8604 KIT,LEFT HAND BLADE EXTENSION
24" x 27" x 1" - Left Hand Blade Extension Kit for use with 14 ft. Plus Moldboard.
Estimated install Hours: 1.5

524-8605 EXTENSION, BLADE, 24" RH
24" x 24" x 7/8" - Right Hand Blade Extension Kit for use with 12 ft. and 14 ft. Basic Moldboards.
Estimated install Hours: 1.5

524-8606 EXTENSION, BLADE, 24" RH
24" x 27" x 1" - Right Hand Blade Extension Kit for use with 14 ft. Plus Moldboard.
Estimated install Hours: 1.5

524-8607 KIT, SPARE RIM
14" x 25" MP Spare Rim
Estimated install Hours: 0.5

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

FIELD INSTALLED ATTACHMENTS (CONT.)

Available Through Parts Distribution (Cont.)

524-8609 **KIT, SPARE RIM**
10" x 24" MP Spare Rim
Estimated install Hours: 0.5

488-2192 **KIT, CIRCLE SAVER**
Circle Saver
Estimated install Hours: 0.5
Special Instructions: REHS4230

415-3925 **KIT, FENDERS, FRONT**
12/140/160M3 Tandem Front Fender Kit

434-1066 **KIT, FENDERS, REAR**
160M3 Rear Fender Kit

380-3885 **KIT, HEATED GLASS,WIDE FRONT**
Wide Front Heated Glass
Special Instructions: REHS7155

380-3886 **KIT, HEATED GLASS,NARROW FRONT**
Narrow Front Heated Glass
Special Instructions: REHS7155

473-5233 **KIT, STORAGE, CAB**
12/140/160M3 Cab Storage Kit

PACKING

MACHINE PACKING (Must Select One)

0P-0251 **DOMESTIC TRUCK** . . . . . 0 **NC**

0P-6645 **BUNDLED, LESS TIRES** . . . . . 0 **$1,175 NET**
Ships less tires. Rims ship on a separate skid.

ATTACHMENT PACKING

0P-0210 **PACK, DOMESTIC TRUCK** . . . . . 0 **NC**
Use for miscellaneous material orders.

0P-1935 **BUNDLED FRONT LIFT GROUP** 0 **$1,175**
Required when ordering the Not Installed
Lift Group,Manual,Front
REQUIRED BY: LIFT GROUP, MANUAL, FRONT NI

160M3 AWD MOTOR GRADER
PIRACICABA, BRAZIL

Ship Weight lbs	LIST PRICE AT DEALER

Standard Equipment:

POWERTRAIN

Air cleaner, dual stage dry type radial seal with service indicator and automatic dust ejector
Air-to-air after cooler (ATAAC)
Belt, serpentine, automatic tensioner
Brakes, oil disc, four-wheel, hydraulic
Demand fan, hydraulic
Differential, lock/unlock, automatic
Drain, engine oil, ecology
Electronic over-speed protection
Engine:
-C9 with ACERT technology, diesel with automatic engine derate and idle control.
-EPA/ARB Tier 4 Final & EU stage
-IV certified engine & aftertreatment
Parking brake, multi-disc, sealed and oil cooled.
Sediment drain, fuel tank.
Tandem drive
Transmission, 8 speed forward and 6 speed reverse, power shift, direct drive
VHP Plus (Variable Horse Power Plus)

ELECTRICAL

Alarm, back-up
Alternator, 150 ampere, sealed
Batteries, maintenance free, heavy duty, 1125 CCA
Breaker panel, ground accessible
Electrical hydraulic valves
Electrical system, 24V
Grade control ready (Cab harness, software, electrical hydraulic valves, bosses and brackets)
Lights, reversing
Lights, roading, roof-mounted
Lights, stop and tail, LED
Starter, electric

OPERATOR ENVIRONMENT

Air Conditioning with heater
Articulation, automatic return to center
Centershift pin indicator
Display, digital speed and gear
Doors, left and right side with wiper
Gauge, machine level
Gauges (analog) inside the cab (includes fuel, articulation, engine coolant temp, engine RPM, and hydraulic oil temp, DEF/AdBlue)
Joystick, adjustable armrests
Joystick gear selection, hydraulic power steering hydraulic controls (right/left, blade lift w/ float position, blade sideshift and tip, circle drive, centershift, front wheel lean and articulation and steering)
Lights, night time cab
Messenger operator information system
Meter, hour, digital
Mirror, inside rearview, wide angle
Power Port, 12V
Radio ready, entertainment
ROPS cab, sound suppressed
- 69dB(A) - ISO 6394
Seat,cloth-covered, comfort suspension
Storage area for cooler/lunchbox
Throttle control, electronic
Windows laminated glass:
-Fixed front with intermittent wiper
-Side and rear (3)
Windows tempered:
-Left and right side wipers
-Rear with intermittent wiper
Cab storage

SAFETY AND SECURITY

Clutch, circle drive slip
Doors, 2 engine compartment, (two left hand, two right hand) locking
Doors, 2 service, left and right locking
Ground level engine shutdown
Hammer (emergency exit)
Horn, electric
Lockout, hydraulic implement (for roading and servicing)
Seat belt, retractable 76.2 (3")
Secondary steering
Tandem walkway/guards

TIRES, RIMS, AND WHEELS

A partial allowance for tires on 254mm x 609.6mm (10" x 24") multi-piece rims is included in the base machine price and weight.

FLUIDS

Antifreeze
Extended life coolant -35C/-30F

OTHER STANDARD EQUIPMENT

Accumulators -brake -dual certified
Drawbar,6 shoe w/replaceable wear strips
Fluid check, ground level
Fuel tank, 398 liters (105 gallon)
Ground level fueling
DEF/AdBlue Tank, 21 liters (5.5 gallon)

160M3 AWD MOTOR GRADER
PIRACICABA, BRAZIL

	Ship Weight lbs	LIST PRICE AT DEALER

OTHER STANDARD EQUIPMENT (CONT.)

Hydraulic lines for base functions
Pump, hydrailic, high capacity
(98cc / 15 cu in)
Radiator, cleanout access
(both sides with swing doors)
SOS ports - engine -hydraulic
-transmission -coolant -fuel
Tandem walkway/guards
Tool box
Debris guard

160M3 AWD MOTOR GRADER PIRACICABA, BRAZIL	Ship Weight lbs	LIST PRICE AT DEALER

Lane 2 is reserved for the Base Order Management Program.
Please use Lane 2 when placing orders that are part of the Base Order Management Program.

160M3 AWD MOTOR GRADER PIRACICABA, BRAZIL		Ship Weight lbs	LIST PRICE AT DEALER
383-9705	**160M3 AWD MOTOR GRADER** . . . . . . LANE 3 - AVAILABLE FROM PIRACICABA FACTORY	40,098	**$470,430**
0P-2983	**160M3 AWD MISC MATL** . . . . . . AVAILABLE FROM PIRACICABA FACTORY	0	**NC**

Only reference numbers that have the text
"ALSO AVAILABLE ON A MISCELLANOUS ORDER" can be used on a MISC order.

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

LANE SELECTION

	0P-9002	**LANE 2 ORDER**	0	NC
		Only for dealers enrolled in the Base Orders Manamement (BOM) program.		
	0P-9003	**LANE 3 ORDER**	0	NC

REGIONAL PACKAGES

L	385-9294	**GLOBAL ARRANGEMENT**	0	NC
		Provides standard brake accumulators. For use in temperatures above -18C CANNOT BE USED WITH: WEATHER, COLD PLUS		
L	385-9297	**GLOBAL ARRANGEMENT,LOW AMBIENT**	0	NC
		Provides brake accumulators for low ambient temperatures below -18C CANNOT BE USED WITH: EU dealers CANNOT BE USED WITH: WEATHER, STANDARD		

PERFORMANCE PACKAGES

MOLDBOARDS

L	349-3046	**MOLDBOARD, 12′**	0	NC
		INCLUDES: - Moldboard 12’ x 24" x 7/8" (3658mm x 610mm x 22mm) - Curved Cutting Edge, 6" X 5/8" (152mm x 16mm) - End Bits, Standard, Without Overlay		
L	349-3047	**MOLDBOARD, 14′ BASIC**	347	$1,140
		INCLUDES: - Moldboard 14’ x 24" x 7/8" (4267mm x 610mm x 22mm) - Curved Cutting Edge, 8" x 3/4" (203mm x 19mm) - End Bits, Standard, Without Overlay		
L	349-3048	**MOLDBOARD, 14′ PLUS**	650	$2,710
		INCLUDES: - Moldboard 14’ x 27" x 1" (4267mm x 686mm x 25mm) - Curved Cutting Edge, 8" x 3/4" (203mm x 19mm) - End Bits, Standard, With Overlay		
L	350-0678	**MOLDBOARD, 16 FT**	1,040	$7,080
		INCLUDES: - Moldboard 16’ x 27" x 1" (4877mm x 686mm x 25mm) - Curved Cutting Edge, 8" x 3/4" (203mm x 19mm) - End Bits, Standard, With Overlay		

WORK TOOLS

L	393-4882	**NO HITCH**	0	NC
L	337-7510	**HITCH, TOWING**	0	$540

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

PERFORMANCE PACKAGES (CONT.)

WORK TOOLS (Cont.)

L	324-0889	**RIPPER/SCARIFIER**	2,120 2,150	$20,380 $20,540 NI

NOTE
NOT INSTALLED option is only for use with Miscellaneous orders using 0P-2975 160M3 AWD MISC MATERIAL
Hydraulic, rear mounted ripper with three straight ripper shanks.
Can accommodate two additional ripper shanks and nine scarifier teeth which must be ordered separately.
REQUIRES: A hydraulics control part number that has a ripper function.
INCLUDES: Ripper Mounting

L	539-6894	**RIPPER, SNOW WING READY**	0	$23,830

Hydraulic, rear mounted ripper with three straight ripper shanks.
Includes the mount for the Caterpillar Mastless Snow Wing on the right side of the ripper backplate.
Can accommodate two additional ripper shanks, nine scarifier teeth, and the Caterpillar Mastless Snow wing which must be ordered separately.
CANNOT BE USED WITH: Legacy Snow Wings

WEATHER PACKAGES

L	353-3330	**STANDARD WEATHER AWD**	0	NC

Recommended for year around use when typical ambient temperature range is 0 degrees C (32 degrees F) to 43 degrees C (110 degrees F) and operating at altitude below 1220 m (4000 feet).
INCLUDES:
- Batteries, Heavy Duty - 1125 CCA
- Oil, Hydraulic, 10W

FOR USE WITH: GLOBAL ARRANGEMENT
FOR USE WITH: EUROPEAN ARRANGEMENT
FOR USE WITH: EUROPEAN AR. W/ ROADING (TUV)
CANNOT BE USED WITH: GLOBAL ARRANGEMENT,LOW AMBIENT

L	394-4523	**COLD WEATHER PACKAGE AWD**	0	$760

Recommended for year around use when typical ambient temperature range is 0 degrees C (32 degrees F) to 43 degrees C (110 degrees F) and operating at altitude below 1220 m (4000 feet).
INCLUDES:
- Starting Aid, Ether
- Batteries, Extreme Duty -1400 CCA
- Oil, Hydraulic, 10W
- Cold Start arrangemnt

FOR USE WITH: GLOBAL ARRANGEMENT
FOR USE WITH: GLOBAL ARRANGEMENT,LOW AMBIENT
FOR USE WITH: CANADIAN ARRANGEMENT
FOR USE WITH: EUROPEAN ARRANGEMENT
FOR USE WITH: EUROPEAN AR. W/ ROADING (TUV)

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

PERFORMANCE PACKAGES (CONT.)

WEATHER PACKAGES (Cont.)

L	394-4524	**COLD WEATHER PLUS PACKAGE AWD**	37	$3,765
		Recommended for year around use when typical ambient temperature range is -40 degrees C (-40 degrees F) to 40 degrees C (104 degrees) or operating at altitude above 1220 m (4000 feet). INCLUDES: - Starting Aid, Ether - Cold Start; Transmission oil and fan brake bypass - Batteries, Extreme Duty -1400 CCA - Oil, Hydraulic, Cold, 0W REQUIRES: HEATER, ENGINE COOLANT, 120V or HEATER, ENGINE COOLANT, 240V REQUIRED BY: SNOW ARRANGEMENT FOR USE WITH: GLOBAL ARRANGEMENT,LOW AMBIENT FOR USE WITH: CANADIAN ARRANGEMENT FOR USE WITH: EUROPEAN ARRANGEMENT FOR USE WITH: EUROPEAN AR. W/ ROADING (TUV) CANNOT BE USED WITH: GLOBAL ARRANGEMENT		

ACCUMULATORS

L	305-2927	**LINES,STANDARD W/O ACCUMULATOR**	0	NC
		Provides hydraulic lines for base functions		
L	358-9338	**ACCUMULATORS, BLADE LIFT**	170	$4,665
		Provides hydraulic lines for base functions and accumulators for the blade lift. Allows approximately 1-3" of vertical blade travel to reduce impact loads. Nitrogen/oil accumulators activated by electric switch. CANNOT BE USED WITH: Canadian Dealers.		

PRECLEANER

L	380-6774	**PRECLEANER, NON SY-KLONE**	0	NC
		Includes dust ejector for medium to heavy dust environments.		
L	380-6775	**PRECLEANER, SY-KLONE**	5	$750
		Recommended for environments with large degris (leaves, chips, large grass, etc.)		

POWERTRAIN

OIL CHANGE

L	324-5328	**DRAIN, GRAVITY, ENGINE OIL**	0	NC
		Standard engine oil drain		
L	501-1163	**DRAIN, HIGH SPEED, ENGINE OIL**	0	$286
		High speed engine oil drain. Requires pump at service location to be attached to coupling receiver for high speed flow. HSO drain can also manual/gravity drain.		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS

NOTE: Optional Control Locations

Caterpillar offers many attachment hydraulic controls to operate work tools. Depending on which hydraulic part number is selected, the operating electro-hydraulic switches may include the auxiliary pod, mini-joystick located on the auxiliary pod, and/or the ripper control pod.

NOTE: Auxiliary controls that can have float

Auxiliary Pod Controls

```
INDEX = Index Finger (front lift)(float capability)
MID = Middle Finger(dozer angle 1)
RING = Ring Finger (dozer angle 2)
LITTLE= Little Finger (float capability)
```

NOTE: Mini-Joystick

```
 Fore/Aft
     .
    / \
     |
<--------->  Left/Right (float capability)
     |
    \ /
     .
```

NOTE: Ripper Control Pod

```
RH1   =  Front Lift (float capability)
RH2   =  Ripper-Scarifier Control
RHD   =  Ripper Handle Dual Switch (RH1 & RH2)
```

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

NOTE: Common Functions

COMMON FUNCTIONS:

Base = 8 functions: right and left blade lift, circle turn, drawbar center shift, blade side shift, blade tip, front wheel lean, frame articulation.

```
     FL      = Front Lift (moves front work tools up/down)
     DA1     = Dozer Angle 1 (angles front blade left OR right)
     DA2     = Dozer Angle 2 (angles front blade left AND right)
     RIP     = Rear Mounted Ripper (moves ripper up/down)
     MMS     = Mid-Mounted Scarifier
     WM      = Wing Mast
     WT      = Wing Tilt
     Float   = Built-in feature of valve section that opens both the
               work ports to tank. The external forces (weight of the
               work ports to tank. The external forces (weight of the
                implement) allows free movement of the implement.
     Flow Rate=Provides maximum rate of fluid flow from the specific
                work port.  B/A represents the maximum flow rate in
                Port B/Port A* in LPM (liters per minute).

 *NOTE: Each valve section has two work ports (Port A and Port B).
     Port A:  Used to either raise implement or move implement to the
     right or for clockwise rotation of the implement.
     Port B:  Used to either lower implement or move implement to the
     left or for counter-clockwise rotation of the implement.
```

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

HYDRAULIC VALVE LOCATIONS

This illustration shows the factory installed switch location for each function by hydraulic part number.

Part Number	MINI-JOYSTICK Front Aft	MINI-JOYSTICK Left/ Right Float	MINI-JOYSTICK Index with Float	AUXILIARY POD Mid	AUXILIARY POD Ring	AUXILIARY POD Little	RIPPER POD RHD RH1	RIPPER POD RHD RH2
242-5056								
385-8094								RIPPER
Float:								N
Flow rate:								49/49
354-4113								MID-MOUNT SCARIFIER
Float:								Y
Flow Rate:								25/36
309-9848							FR.LIFT	
Float:							Y	
Flow Rate:							46/60	
385-8095							FR.LIFT	RIPPER
Float:							Y	N
Flow rate:							46/60	49/49
395-2008	MAST	TILT	FR.LIFT					
Float:	N	N	Y					
Flow rate:	72/72	41/30	46/60					
385-8096			FR.LIFT	DA1				RIPPER
Float:			Y	N				N
Flow rate:			46/60	72/72				49/49
385-8099	MAST	TILT	FR.LIFT					RIPPER
Float:	N	Y	Y					N
Flow rate:	72/72	74/86	46/60					49/49
385-8100	MAST	TILT	FR.LIFT					RIPPER
Float:	N	N	Y					N
Flow rate:	72/72	41/30	46/60					49/49
395-2009	MAST	TILT	FR.LIFT	DA1	MID-MOUNT SCARIFIER			
Float:	N	N	Y	N	N			
Flow rate:	72/72	41/30	46/60	72/72	25/36			

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

HYDRAULIC VALVE LOCATIONS LANE 3 ONLY

Part Number	MINI-JOYSTICK Front Aft	MINI-JOYSTICK Left/ Right Float	AUXILIARY POD Index with Float	AUXILIARY POD Mid	AUXILIARY POD Ring	AUXILIARY POD Little	RIPPER POD RH1	RIPPER POD RH2
385-8097			FR.LIFT	MID-MOUNT SCARIFIER				RIPPER
Float:			Y	N				N
Flow rate:			46/60	25/36				49/49
385-8101	MAST	TILT	FR.LIFT	DA1				RIPPER
Float:	N	N	Y	N				N
Flow rate:	72/72	41/30	46/60	72/72				49/49
385-8103	MAST	TILT	FR.LIFT	DA1	DA2			RIPPER
Float:	N	N	Y	N	N			N
Flow rate:	72/72	41/30	46/60	72/72	72/72			49/49
481-8610	MAST	TILT	FR.LIFT	DA1	DA2			RIPPER
Float:	N	Y	Y	N	N			N
Flow rate:	72/72	74/86	46/60	72/72	72/72			49/49

HYDRAULIC VALVE PART NUMBERS

L	242-5056	**HYDRAULICS, BASE** . . . . . 0 Base hydraulic system includes machine articulation, wheel lean, left and right blade lift with independent float, drawbar centershift, circle drive, blade sideshift and tip.		NC
L	385-8094	**BASE + 1 (RIP)**. . . . . 21 Ripper function. Includes the Ripper Lines. ONLY FOR USE WITH: RIPPER-SCARIFIER, REAR		$2,300
L	354-4113	**BASE + 1 (MMS)** . . . . . 21 Mid-Mount Scarifier function. Includes the Mid-Mount Scarifier Lines. ONLY FOR USE WITH: MID MOUNT SCARIFIER PACKAGE		$2,300
L	309-9848	**BASE + 1 (FL)**. . . . . 18 Front Lift function. Includes the Front Lift Lines. ONLY FOR USE WITH: LIFT GROUP, MANUAL, FRONT		$1,890
L	385-8095	**BASE + 2 (FL,RIP)** . . . . . 37 Ripper and Front Lift functions. Includes the Front Lift Lines and Ripper Lines. ONLY FOR USE WITH: LIFT GROUP, MANUAL, FRONT RIPPER-SCARIFIER, REAR		$4,085
L	395-2008	**BASE + 3 (WM,WT-NOFLOAT,FL)** . . . . . 60 Front Lift, Snow Wing Mast, and Snow Wing Tilt ONLY FOR USE WITH: SNOW ARRANGEMENT LIFT GROUP, MANUAL, FRONT		$6,540
L	385-8096	**BASE + 3 (FL,DA1,RIP)** . . . . . 67 Ripper, Front Lift and Angle functions. Includes the Front Lift Lines Dozer Angle 1 Lines, and Ripper Lines. ONLY FOR USE WITH: LIFT GROUP, MANUAL, FRONT RIPPER-SCARIFIER, REAR		$7,460

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

HYDRAULIC VALVE PART NUMBERS (Cont.)

L	385-8099	**BASE + 4 (WM,WT-FLOAT,FL,RIP)**	85	$8,960
		Ripper, Front Lift, Snow Wing Mast and Snow Wing Tilt (74/86 with float) functions. Includes the Front Lift Lines and Ripper Lines. ONLY FOR USE WITH: SNOW ARRANGEMENT LIFT GROUP, MANUAL, FRONT RIPPER-SCARIFIER, REAR		
L	385-8100	**BASE + 4 (WM,WT,FL,RIP) NOFLT**	85	$8,700
		Ripper, Front Lift, Snow Wing Mast and Snow Wing Tilt (41/30 - No Float) functions. Includes the Front Lift Lines and Ripper Lines. ONLY FOR USE WITH: SNOW ARRANGEMENT LIFT GROUP, MANUAL, FRONT RIPPER-SCARIFIER, REAR		
L	395-2009	**BASE + 5 (WM,WT,DA1,FL,MMS)**	120	$10,790
		Snow Wing Mast, Snow Wing Tilt (41/30 - No Float) functions, Dozer Angle 1, Front LIFT, and Mid-Mount Scarifier Includes the Front Lift Lines, Angle 1 Lines, and Mid-Mount Scarifier Lines. ONLY FOR USE WITH: SNOW ARRANGEMENT LIFT GROUP, MANUAL, FRONT MID MOUNT SCARIFIER PACKAGE		

HYDRAULIC VALVE PART NUMBERS LANE 3 ONLY

L	385-8097	**BASE+3 (RIP, MMS, FL)**	67	$7,460
		FOR USE IN LANE 3 ONLY Front Lift, Ripper and Mid-Mount Scarifier functions. Includes the Front Lift Lines, Ripper Lines and Mid-Mount Scarifier Lines. ONLY FOR USE WITH: LIFT GROUP, MANUAL, FRONT RIPPER-SCARIFIER, REAR MID MOUNT SCARIFIER PACKAGE		
L	385-8101	**BASE + 5 (WM,WT,DA1,FL,RIP)**	120	$10,790
		Snow Wing Mast, Snow Wing Tilt (41/30 - No Float) functions, Dozer Angle 1, Front LIFT, and Ripper. Includes the Front Lift Lines, Angle 1 Lines, and Ripper Lines. ONLY FOR USE WITH: SNOW ARRANGEMENT MOUNT, SNOW WING, FRAME READY LIFT GROUP, MANUAL, FRONT RIPPER-SCARIFIER, REAR		
L	385-8103	**BASE + 6(WM,WT,DA1,DA2,FL,RIP)**	130	$13,350
		FOR USE IN LANE 3 ONLY Ripper, Dozer Angle 1, Dozer Angle 2, Front Lift, Snow Wing Mast and Snow Wing Tilt (41/30 - No Float) functions. Includes the Front Lift Lines, Dozer Angle 2 Lines and Ripper Lines. ONLY FOR USE WITH: SNOW ARRANGEMENT MOUNT, SNOW WING, FRAME READY LIFT GROUP, MANUAL, FRONT RIPPER-SCARIFIER, REAR		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

HYDRAULIC VALVE PART NUMBERS (Cont.)

L	481-8610	**BASE + 6(WM,WT + F,DA1,DA2,FL,RIP)**	130	$13,620
		FOR USE IN LANE 3 ONLY Ripper, Dozer Angle 1, Dozer Angle 2, Front Lift, Snow Wing Mast and Snow Wing Tilt (72/72 + Float) functions. Includes the Front Lift Lines, Dozer Angle 2 Lines and Ripper Lines. ONLY FOR USE WITH: SNOW ARRANGEMENT MOUNT, SNOW WING, FRAME READY LIFT GROUP, MANUAL, FRONT RIPPER-SCARIFIER, REAR		

STARTERS, BATTERIES, & ALTERNATORS

STARTER ARRANGMENT

L	394-3945	**STARTER, ELECTRIC, HEAVY DUTY**	0	NC
		Provides a 1000 Amp. starter		
L	395-3547	**STARTER, ELEC, EXTREME DUTY**	21	$408
		Recommended for Cold weather applications Provides a 1000 Amp. starter		

ELECTRICAL

BRAKE LIGHTS

L	331-6793	**LIGHTS, BRAKE AND BACK-UP**	0	NC
		Provides stationary rear brake lights along with the back-up lights. Does not include front headlights or turn signals CANNOT BE USED WITH: 526-2563 EUROPEAN ARRANGEMENT 394-3871 EUROPEAN AR. W/ROADING (TUV) 396-1966 SNOW ARRANGEMENT 553-2588 HEADLIGHTS, FRONT, LOW, LED or 553-2589 HEADLIGHTS, FRONT, HIGH, LED or 308-9370 HEADLIGHTS,FRONT, LOW, HALOGEN or 308-9371 HEADLIGHTS,FRONT, HIGH,HALOGEN		
L	536-9969	**LIGHTS, ARM, FOLD DOWN**	0	$1,875
		Provides stationary rear brake lights along with the back-up lights, dimmer switch for road lighting, drop-down stop, tail, and rear turn signals and back-up lights. REQUIRES: 553-2588 HEADLIGHTS, FRONT, LOW, LED or 553-2589 HEADLIGHTS, FRONT, HIGH, LED or 308-9370 HEADLIGHTS,FRONT, LOW, HALOGEN or 308-9371 HEADLIGHTS,FRONT, HIGH,HALOGEN INCLUDED IN: 396-1966 SNOW ARRANGEMENT		

ROADING LIGHTS

L	421-7810	**LIGHTS, ROADING, HALOGEN**	0	NC
		Provides six halogen cab roof mounted roading lights.		
L	550-6608	**LIGHTS, ROADING, LED**	0	$1,245
		Provides six LED cab roof mounted roading lights.		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

OPERATOR ENVIRONMENT

CAB EXTERIOR

L	385-9553	**CAB, BASE (STANDARD GLASS)**	0	NC
		INCLUDES: - 150 amp alternator - Standard Glass CANNOT BE USED WITH: SNOW ARRANGEMENT CANNOT BE USED WITH: EUROPEAN ARRANGEMENT CANNOT BE USED WITH: EUROPEAN AR. W/ ROADING (TUV)		
L	385-9554	**CAB, PLUS (STANDARD GLASS)**	35	$1,105
		INCLUDES: - 150 amp alternator - Wiper/washer, rear - Standard Glass		
L	385-9555	**CAB, PLUS (ANTI-ICING GLASS)**	35	$6,630
		INCLUDES: - 270 amp alternator - Wiper/washer, rear - Front glass and RH door glass are heated.		

CAB INTERIOR

Bluetooth radio technology enables the use of a hands free function such as listening to music and making phone calls.
Authorization varies by country, please contact your Cat marketing representative with questions or click on the link below:
https://dealer.cat.com/en/products/technology.html

L	397-7456	**CAB, BASE (INTERIOR)**	0	NC
		INCLUDES: - Seat, mechanical suspension, cloth - Shade, Sun CANNOT BE USED WITH: SNOW ARRANGEMENT CANNOT BE USED WITH: EUROPEAN ARRANGEMENT CANNOT BE USED WITH: EUROPEAN AR. W/ ROADING (TUV)		
L	397-7457	**CAB, PLUS (INTERIOR)**	45	$3,010
		INCLUDES: - Seat, Air Suspension, Cloth, Heated - Radio,12V, AM/FM, Weatherband, Bluetooth, USB, Aux Input Available to countries with bluetooth certification. Please contact your Cat marketing representative if you have questions. - Fan, defroster, rear window - Converter, Communication (CB) - Shade, Sun		
L	397-7458	**CAB, PREMIUM (INTERIOR)**	80	$4,580
		- Seat, air suspension, cloth; Heated, Ventilated - Radio,12V, AM/FM CD/MP3 Bluetooth, Weatherband, USB, Aux Input XM/Sirius Satellite Available to countries with bluetooth certification. Please contact your Cat marketing representative if you have questions. - Fan, defroster, rear window - Converter, Communication (CB) - Shade, Sun *Recommended for Snow Removal		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

OPERATOR ENVIRONMENT (CONT.)

SEAT BELT

L	394-1492	**SEAT BELT**	0	NC
		Standard 3 inch seat belt		
L	394-1132	**SEAT BELT W/INDICATOR**	5	$193
		Standard 3 inch seat belt with indicator located on display panel		

TECHNOLOGY PRODUCTS

PRODUCT LINK

Product Link enables the remote transmission of information about the location, operation, and condition of your equipment. Efficiently and effectively monitor the performance of your assets to help keep your jobs on schedule, maintain equipment condition, and reduce the costs of owning and operating your fleet. Availability varies by country - please reference https://Dealer.cat.com/PL/Certification for certified countries. Please contact your Caterpillar marketing representative with questions.

L	464-6804	**PRODUCT LINK, SATELLITE PLE631**	29	$432
		Product Link Elite series PLE631 uses a satellite network to transmit location, utilization and condition information for viewing in Product Link's remote monitoring web interface. For use in areas with poor or no cellular coverage.		
L	464-6442	**PRODUCT LINK, CELLULAR PLE641**	29	NC
		Product Link Elite series PLE641 offers expanded coverage including 3G UMTS and CDMA2000 as well as 2G GSM and CDMA cellular networks to transmit location, utilization and condition information f viewing in Product Link-s remote monitoring web interface. Cellular technology provides capabilities for frequent transmission and larger volumes of data.		

ACCUGRADE

L	362-5222	**NO ACCUGRADE**	0	NC
L	462-7930	**INSTALLATION, ACCUGRADE READY**	90	$4,830
		Allows the Motor Grader to be equipped with either a Cross Slope, Sonic, Laser, GPS, or ATS electronics kit. Provides software, harnesses for sensors, mounting for sensors and blade mast bracket.		

NOTE: Highly recommended to select Advanced Joystick Controls. This will Allow for complete configuration and control when using 3 party grade control systems

L	462-7931	**GRADE CONTROL X SLOPE**	165	$11,060
		Allows the operator to manually control one end of the blade to match the curb or crown while automatically maintaining the desired slope of the blade. This system is used to maintain the crown of a gravel road or the shoulder of a road. Provides cab switches, software, harnesses for sensors, mounting for sensors and blade mast bracket. Accugrade Ready is included in this option REQUIRES: JOYSTICK CONTROLS, ADVANCED INCLUDED IN: 492-3595 CONTROLS, PERFORMANCE BUNDLE		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

TECHNOLOGY PRODUCTS (CONT.)

MOTOR GRADER CONTROLS

L	357-9151	**JOYSTICK CONTROLS, BASIC**	6	NC
		Standard joystick controls.		
L	458-8701	**JOYSTICK CONTROLS, ADVANCED**	8	$2,030
		Provides enhanced functionality while using ACCUGRADE READY or GRADE CONTROL X SLOPE INCLUDES: - Advanced Joysticks - Harness - Films REQUIRED BY: GRADE CONTROL X SLOPE. RECOMMENDED FOR USE WITH: ACCUGRADE READY INCLUDED IN: 492-3595 CONTROLS, PERFORMANCE BUNDLE		

CONTROL AUTO ARTICULATION

L	483-2354	**CONTROL,AUTO ARTICULATION-DEMO**	0	NC
		500 machine hour demo. Improves ease of operation, increases maneuverability and maximizes productivity by automatically matching articulation angle to steering angle. Includes 3 position rocker switch enabling 3 modes; off / forward / both forward and reverse.		
L	435-2072	**CONTROL,AUTO ARTICULATION-FULL**	0	$1,810
		Improves ease of operation, increases maneuverability and maximizes productivity by automatically matching articulation angle to steering angle. Includes 3 position rocker switch enabling 3 modes; off / forward / both forward and reverse.		

FUEL SYSTEMS

L	540-2373	**TANK, FUEL, STANDARD**	0	NC
		Standard Fuel 105 gallon (398 L)		
L	553-3677	**TANK, FUEL, FAST FILL**	0	$1,410
		Fuel tank is ready to accept fast fill 100 gpm nozzle. Tank capacity is 105 gallons (398 L)		

COOLING

COOLING FAN

L	542-4660	**FAN, STANDARD**	0	NC
		Provides a hydraulically driven demand fan		
L	542-4661	**FAN, REVERSING**	0	$3,105
		Provides a hydraulically driven demand fan that can reverse direction to prevent debris build up on the cooling package and engine enclosure. Includes automatic and manual controls for airflow reversal. Recommended for applications with a high content of airborne debris.		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

TIRES, RIMS, AND WHEELS

Tires listed below include a set of six tires.
****To calculate tire loads with machine attachments, please reference the MG Tire Selection Pocket Guide (media #AEXQ0182), available on the Electronic Sales Library.**
All tire selections should be made with consideration for planned machine attachments (OEM and aftermarket) and their additional weight. Each tire has a maximum load rating that is not to be exceeded. The tire selection should be based on the maximum of all tire position loads on the machine. Assistance for calculating the highest tire load can be found in the Tire Load Worksheet in the back of the Caterpillar Motor Graders Tire Selection Pocket Guide. Failure to abide by the load ratings of the tires without first consulting the local tire supplier representative could result in nullification of the tire warranty.

Due to industry-wide tire availability limitations, tire brand and type cannot be guaranteed. Every effort will be made to satisfy your tire choice, but we reserve the right to change to alternate tires. If the tire brand cannot be supplied, the dealer will be contacted to propose alternative tire options. The dealer will need to respond with an alternative tire selection within 72 hours. If no response is provided by the supplier, the order will default to a comparable tire. As a consequence of a tire change the total machine price will be decreased or increased relative to the price of the new tire selection.

The information provided can be used to make a tire selection based on the particular conditions at the site. When available, the tire manufacturer should be consulted regarding proper tire selection.

APPLICATION SPECIFIC TIRES

L	515-5404	**TIRES,14.0R24 SOIL TRACTION MP**	0	$5,970
		Tire group received will be one of the tire groups listed below: - Bridgestone VKT 1* on 10" x 24" multi-piece rims. - Michelin XGLA2 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	515-5405	**TIRES,17.5R25 SOIL TRACTION MP**	0	$12,440
		Tire group received will be one of the tire groups listed below: - Bridgestone VKT 1* on 14" x 25" multi-piece rims. - Michelin XTLA 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

TIRES, RIMS, AND WHEELS (CONT.)

BRIDGESTONE

L	252-0722	**TIRES, 14.0R24 BS VUT * L2 MP**	991	**$7,250**
		FOR USE IN LANE 3 ONLY Bridgestone VUT 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	249-7841	**TIRES, 17.5R25 BS VKT * D2A MP**	1,620	**$13,440**
		Bridgestone VKT 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	252-0716	**TIRES, 14.0R24 BS VKT * G2 MP**	1,519	**$6,970**
		Bridgestone VKT 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	252-0710	**TIRES, 14.0R24 BS VSW * G2 MP**	1,459	**$13,320**
		Bridgestone VSW 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	310-7332	**TIRES, 17.5R25 BS VSW * G2 MP**	1,698	**$18,590**
		FOR USE IN LANE 3 ONLY Bridgestone VSW 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		

MICHELIN

L	249-7845	**TIRES,14.0R24 MX XSNO+ * G2 MP**	1,261	**$14,890**
		FOR USE IN LANE 3 ONLY Michelin XSNO 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (7824 lbs) 3550 kg.**		
L	252-0681	**TIRES,14.0R24 MX XGLA2 * G2 MP**	1,048	**$10,860**
		Michelin XGLA2 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (7824 lbs) 3550 kg.**		
L	252-0779	**TIRES,17.5R25 MX XSNO+ * G2 MP**	903	**$20,490**
		FOR USE IN LANE 3 ONLY Michelin XSNO+ 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	252-0773	**TIRES, 17.5R25 MX XTLA * L2 MP**	268	**$16,110**
		FOR USE IN LANE 2 ONLY Michelin XTLA 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		

GOODYEAR

L	310-7327	**TIRES, GY17.5R25* COMBO MP**	1,200	**$20,290**
		Goodyear RL2+ 6S on 14" x 25" multi-piece rims THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (7824 lbs) 3550 kg.**		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

TIRES, RIMS, AND WHEELS (CONT.)

SHIPPING TIRES

L	440-3434	**TIRES, 17.5 SHIPPING, AWD, MP**	83	$2,250
		FOR USE WITH LANE 3 ONLY Shipping tire for use during shipment of machine only. Solid rubber band mounted on 14" x 25" multi-piece rims. Must be replaced with pneumatic tire before delivering to customer.		
L	448-5584	**TIRES, 14.0 SHIPPING, AWD, MP**	69	$2,000
		FOR USE WITH LANE 3 ONLY Shipping tire for use during shipment of machine only. Solid rubber band mounted on 10" x 24" multi-piece rims. Must be replaced with pneumatic tire before delivering to customer.		

GUARDS

Guards

L	323-6970	**GUARD GP, HITCH**	25	NC
		Standard bottom plate just rear of articulation hitch		
L	368-6239	**ARTICULATION GUARD.**	30	$1,260
		Provides protection for the articulation rods from snow, dirt and Highly recommended for snow removal applications, or below freezing CANNOT BE USED WITH : SOUND SUPRESSION (BOTTOM)		

FLUIDS

ANTIFREEZE

L	469-8157	**COOLANT, 50/50, -35C (-31F)**	0	NC
		Standard engine coolant		
L	469-8160	**COOLANT, 60/40, -51C (-60F)**	0	$245 NET
		Engine coolant recommended for extreme low temperatures		

FUEL ANTIFREEZE

	0P-3978	**FUEL ANTIFREEZE, -25C (-13F)**	0	NC
		Provides fuel (diesel) antifreeze protection down to -25C (-13F)		

DOCUMENTATION

LANGUAGE SELECTION

NOTE: This part number will provide the language for Messenger and Statement of Conformity

L	386-1254	**LANGUAGE, ENGLISH**	0	NC

DECAL PACKAGES

NOTE: This part number will provide the films in ANSI or ISO
The word "WARNING" is on picto decals for ANSI.
Symbols only are on picto decals for ISO.

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

DOCUMENTATION (CONT.)

DECAL PACKAGES (Cont.)

L	442-9940	**DECALS, ENGLISH (U.S.)**	0	**NC**
		Provides decals as required by ANSI.		

INSTRUCTIONS

CAB ANTIFREEZE

0P-1939	**ANTIFREEZE WINDSHIELD WASHER**	0	**NC**
	For use with machines with cab.		

FUEL ANTIFREEZE

0P-3978	**FUEL ANTIFREEZE, -25C (-13F)**	0	**NC**
	Provides fuel (diesel) antifreeze protection down to -25C (-13F)		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

FEATURE PACKAGES

REGIONAL OPTIONAL PACKAGES

L	396-1966	**SNOW ARRANGEMENT**	355	$6,460

INCLUDES:
361-3137 MOUNTING, WARNING LIGHT
396-3515 TRANSMISSION, AUTOSHIFT
536-9969 LIGHTS, ARM, FOLD DOWN
RECOMMENDED: MIRRORS, OUTSIDE HEATED
REQUIRES: 395-3547 STARTER, ELEC, EXTREME DUTY or
395-3745 STARTER, ELEC, EXTRM DUTY(TUV) and
394-4524 COLD WEATHER PLUS PACKAGE AWD and
385-9554 CAB, PLUS (STANDARD GLASS) or
385-9555 CAB, PLUS (ANTI-ICING GLASS) or
397-7457 CAB, PLUS (INTERIOR) or
397-7458 CAB, PREMIUM (INTERIOR) and
395-2008 BASE + 3 (WM, WT-NOFLOAT, FL) or
385-8099 BASE + 4 (WM, WT-FLOAT, FL, RIP) or
385-8100 BASE + 4 (WM, WT, FL, RIP) NOFLT or
395-2009 BASE + 5 (WM, WT, DA1, FL, MMS) or
385-8101 BASE + 5 (WM, WT, DA1, FL, RIP) or
385-8103 BASE + 6 (WM, WT, DA1, DA2, FL, RIP) or
481-8610 BASE + 6 (WM, WT+F, DA1, DA2, FL, RIP) and
390-9182 MOUNT,SNOW WING,FRAME RDY HAL or
551-6546 MOUNT,SNOW WING,FRAME RDY LED and
395-1967 LIGHTS, WORKING, PLUS, HALOGEN or
552-7285 LIGHTS, WORKING, PLUS, LED and
553-2588 HEADLIGHTS, FRONT, LOW, LED or
553-2589 HEADLIGHTS, FRONT, HIGH, LED or
308-9370 HEADLIGHTS,FRONT, LOW, HALOGEN or
308-9371 HEADLIGHTS,FRONT, HIGH,HALOGEN

WORK TOOL PACKAGES

L	358-9341	**MID MOUNT SCARIFIER PACKAGE**	2,076	$16,290

INCLUDES:
- Mid-mount Scarifier, V-Type with 11 Teeth
- MOUNT, MID-MOUNT SCARIFIER
CANNOT BE USED WITH: Any Front Lift group or
CANNOT BE USED WITH: FENDERS, FRONT, AWD

WORK TOOL PACKAGES-SNOW WING MOUNT

L	390-9182	**MOUNT,SNOW WING,FRAME RDY HAL**	251	$2,295

FOR USE IN LANE 3 ONLY
INCLUDES:
- Snow Wing Mount
- Light, halogen Snow Wing, Right Hand
REQUIRED BY: SNOW ARRANGEMENT

L	551-6546	**MOUNT,SNOW WING,FRAME RDY LED**	0	$2,710

FOR USE IN LANE 3 ONLY
INCLUDES:
- Snow Wing Mount
- Light, LED Snow Wing, Right Hand
REQUIRED BY: Snow Arrangement

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

FEATURE PACKAGES (CONT.)

LIGHTING PACKAGES

L	395-1966	**LIGHTS, WORKING, BASIC,HALOGEN**	19	$770
		INCLUDES: - Lights, halogen, Heel 3X3 - Lights, halogen, Midframe Toe 3X3 - Switch, Work Lighting		
L	395-1967	**LIGHTS, WORKING, PLUS, HALOGEN**	22	$1,035
		INCLUDES: - Lights, halogen, ripper 3X3 - Lights, halogen, work, heel 3X3 - Lights, halogen, work, midframe toe 3X3 - Switch, work lighting CANNOT BE USED WITH: LIGHTS, ROADING, LED MOUNT,SNOW WING,FRAME RDY LED REQUIRED BY: SNOW ARRANGEMENT		
L	552-7285	**LIGHTS, WORKING, PLUS, LED**	0	$2,590
		INCLUDES: - Lights, LED, ripper 3X3 - Lights, LED, work, heel 3X3 - Lights, LED, work, midframe toe 3X3 - Switch, work lighting CANNOT BE USED WITH: LIGHTS, ROADING, HALOGEN MOUNT,SNOW WING,FRAME RDY HAL REQUIRED BY: SNOW ARRANGEMENT		

OTHER OPTIONAL ATTACHMENTS

L	338-1132	**LIGHT, LED WARNING STROBE**	5	$565
		Amber high-speed strobe beacon. REQUIRES: MOUNTING, WARNING LIGHT		
L	361-3137	**MOUNTING, WARNING LIGHT**	10	$725
		Provides the bracket for warning beacon light INCLUDED IN: SNOW ARRANGEMENT		
L	396-3515	**TRANSMISSION, AUTOSHIFT**	5	$3,205
		Improves ease of operation and maximizes productivity by automatically shifting the transmission at optimal shift points. REQUIRED BY: EUROPEAN ARRANGEMENT REQUIRED BY: EUROPEAN AR. W/ ROADING (TUV) INCLUDED IN: SNOW ARRANGEMENT		
L	380-3070	**LIGHTS, SERVICE, INTERNAL**	5	$193
		Provides two lights operated by a single manual switch located in the rear enclosure. One light illuminates the engine compartment and the second light illuminates the hydraulic level sight gauge.		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

ELECTRICAL

FRONT HEADLIGHTS

L	308-9370	**HEADLIGHTS,FRONT, LOW, HALOGEN**	0	$640
		Provides low bar headlights with front turn signals. REQUIRED BY: 526-2563 EUROPEAN ARRANGEMENT 394-3871 EUROPEAN AR. W/ROADING (TUV) 536-9969 LIGHTS, ARM, FOLD DOWN CANNOT BE USED WITH: 396-1966 SNOW ARRANGEMENT		
L	308-9371	**HEADLIGHTS,FRONT, HIGH,HALOGEN**	0	$640
		Provides HIGH bar headlights with front turn signals. REQUIRED BY: 526-2563 EUROPEAN ARRANGEMENT or 394-3871 EUROPEAN AR. W/ROADING (TUV) or 536-9969 LIGHTS, ARM, FOLD DOWN or 396-1966 SNOW ARRANGEMENT		
L	553-2588	**HEADLIGHTS, FRONT, LOW, LED**	0	$1,365
		FOR USE IN LANE 3 ONLY Provides LOW bar LED headlights with front turn signals. CANNOT BE USED WITH: SNOW ARRANGEMENT ANY HALOGEN LIGHTING OPTION REQUIRED BY: LIGHTS,ARM, FOLD DOWN 526-2563 EUROPEAN ARRANGEMENT 394-3871 EUROPEAN AR. W/ROADING (TUV)		
L	553-2589	**HEADLIGHTS, FRONT, HIGH, LED**	0	$1,365
		FOR USE IN LANE 3 ONLY Provides HIGH bar LED headlights with front turn signals. CANNOT BE USED WITH: ANY HALOGEN LIGHTING OPTION REQUIRED BY: LIGHTS,ARM, FOLD DOWN SNOW ARRANGEMENT 526-2563 EUROPEAN ARRANGEMENT 394-3871 EUROPEAN AR. W/ROADING (TUV)		

OPERATOR ENVIRONMENT

CAMERA

L	396-3921	**CAMERA, REAR VISION**	15	$2,535
		Provides a 115 degree color camera mounted on the rear of the hood that is connected to a 7 inch (178mm) LCD color display mounted in the cab which shows the view behind the machine. CAN NOT BE USED WITH: EUROPEAN AR. W/ ROADING (TUV) NOTE* EUROPEAN AR. W/ ROADING (TUV) includes front and rear facing cameras		

MIRRORS

L	233-3295	**MIRRORS, OUTSIDE MOUNTED**	32	$495
		Provides two convex mirrors for outside mounting on the left and right cab grab irons. NOTE: The mirrors are wrapped in bubble wrap and rotated toward the doors for protection during shipment. REQUIRED BY: EUROPEAN ARRANGEMENT EUROPEAN AR. W/ ROADING (TUV)		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

OPERATOR ENVIRONMENT (CONT.)

MIRRORS (Cont.)

L	344-0984	**MIRRORS, OUTSIDE HEATED 24V**	33	$670
		Provides mirrors with a 24V heating element to keep mirrors ice free in cold weather operations. NOTE: The mirrors are wrapped in bubble wrap and rotated toward the doors for protection during shipment. REQUIRED BY: EUROPEAN ARRANGEMENT EUROPEAN AR. W/ ROADING (TUV)		

TECHNOLOGY PRODUCTS

L	393-6335	**SECURITY SYSTEM, MACHINE**	10	$720
		FOR USE IN LANE 3 ONLY Provides a programmable system to manage access to the machine using special MSS keys. Deters theft, vandalism, and unauthorized use. Programmable features allow the following: * limits operators to selected machines * controls the days and hours equipment may be started * controls access by untrained operators or personnel		
L	458-2072	**STABLE BLADE**	3	$2,470
		Provides sensor and software to automatically reduce engine speed in various applications to reduce machine bounce and scalloping of surface.		
L	492-3595	**CONTROLS, PERFORMANCE BUNDLE**	176	$15,560
		The Auto Articulation in this bundle is an unrestricted version, not limited to 500 hours. INCLUDES: 435-2072 CONTROL,AUTO ARTICULATION-FULL 458-2072 STABLE BLADE 458-8701 JOYSTICK CONTROLS, ADVANCED 462-7931 GRADE CONTROL X SLOPE		

GUARDS

GUARDS

L	367-6905	**GUARD, AXLE HOSE**	15	$1,075
		Provides additional protection to the front axle cylinders, lines, and fittings. *NOTE* NOT recommended for use with tire chains		
L	366-2459	**GUARD, TRANSMISSION**	310	$3,400
		Provides a steel guard to protect the transmission from ground debris. REQUIRED BY: SOUND SUPRESSION (BOTTOM) INCLUDED IN: EUROPEAN ARRANGEMENT EUROPEAN AR. W/ ROADING (TUV)		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

GUARDS (CONT.)

GUARDS (Cont.)

L	377-1602	**SOUND SUPPRESSION (BOTTOM)**	243	$2,095
		Provides two metallic side panels on either side of the transmission guard, enclosing the rear of the machine. This option prevents debris from accumulating on top of the transmission guard and also suppresses sound to meet EU sound regulations. REQUIRES: GUARD, TRANSMISSION REQUIRES: GUARD GP, HITCH INCLUDED IN: EUROPEAN ARRANGEMENT INCLUDED IN: EUROPEAN AR. W/ ROADING (TUV) CANNOT BE USED WITH: ARTICULATION GUARD		
L	546-0262	**SOUND SUPPRESSION, ENGINE ENCL**	0	$1,540
		Suppression panels in engine enclosure doors. INLCUDED IN: EUROPEAN ARRANGEMENT INCLUDED IN: EUROPEAN AR. W/ ROADING		
L	262-0412	**FENDERS, FRONT, AWD**	124	$3,795
		Non-metallic front fenders aid in reducing the build-up of mud, snow, or debris. Front fenders are compatible with all Non-AWD tire sizes offered by the factory. ** NOT RECOMMENDED FOR USE WITH TIRE CHAINS. CANNOT BE USED WITH: MID MOUNT SCARIFIER PACKAGE CANNOT BE USED WITH: GUARD, AXLE HOSE		
L	242-2452	**FENDERS, REAR**	344	$5,200
		Provides non-metallic rear fenders to aid in reducing the build-up of mud, snow, or debris. Rear fenders are compatible with all MG tire sizes offered by the factory. INCLUDED IN: EUROPEAN AR. W/ ROADING (TUV) ** NOT RECOMMENDED FOR USE WITH TIRE CHAINS.		

OTHER ATTACHMENTS

STARTING AIDS

L	249-5516	**HEATER, ENGINE COOLANT, 120V**	3	$245
		Engine coolant heater for 120 volt external power source. REQUIRED BY: SNOW ARRANGEMENT		

CIRCLE DRIVE INJECTOR GREASE

P	521-3250	**KIT, CIRCLE SAVER**	0	$238
		Remote Circle Drive Greasing point (Zerk). Located top of drawbar for easy servicing of circle drive gear. Helps the pinion maintain its lubrication caused by lack of grease in this component.		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

WORK TOOLS

WORK TOOLS

L	360-5074	**MOUNT, MID-MOUNT SCARIFIER**	131	$1,520

Brackets welded to front frame for future installation of midmount scarifier.
INCLUDED IN: SCARIFIER, MID-MOUNT V-TYPE
NOTE: This is the mounting only and does not include the scarifier.
RECOMMENDED: Hydraulics with a mid-mount scarifier (MMS) function
NOTE: If you intend to purchase the mid-mounted scarifier, please note that the actual scarifier cannot be attached to the machine at same time as the Lift Group, Hydraulic, Front

L	367-6880	**COUNTERWEIGHT**	885	$3,200
			0	$3,200 NI

NOTE
NOT INSTALLED option is only for use with Miscellaneous orders using 0P-2975 160M3 AWD MISC MATERIAL

Front mounted.Recommended when machine is not equipped with front or rear mounted work tool attachments to provide additional blade performance capability.
NOTE:This cannot be used in conjunction with push plate, front lift work tools,or the 'installed' hydraulic front lift.
It can be used with a not installed hydraulic front lift
NOT RECOMMENDED FOR USE WITH: RIPPER-SCARIFIER, REAR
CANNOT BE USED WITH: PUSH PLATE
CANNOT BE USED WITH: LIFT GROUP, MANUAL, FRONT (Installed)

L	367-6842	**PUSH PLATE, COUNTERWEIGHT**	2,822	$5,640
			2,822	$5,640 NI

NOTE
NOT INSTALLED option is only for use with Miscellaneous orders using 0P-2975 160M3 AWD MISC MATERIAL

Front mounted. Recommended when machine is equipped with rear ripper/scarifier and other rear mounted attachments.
NOTE: This cannot be used in conjunction with counterweight, any front lift work tools,or the 'installed' hydraulic front lift. It can be used with a not installed hydraulic front lift
CANNOT BE USED WITH: COUNTERWEIGHT
CANNOT BE USED WITH: LIFT GROUP, MANUAL, FRONT (Installed)

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

WORK TOOLS (CONT.)

WORK TOOLS (Cont.)

L	312-2204	**LIFT GROUP, MANUAL, FRONT**	1,500 1,500	**$11,030** **$11,030 NI**

Front hydraulic lift without any work tool attached.
Note: This Front Lift Group has manual locking pins.

INSTALLED COMPATIBILITY:
REQUIRES: MOUNTING, FRONT LIFT
REQUIRES: Hydraulics control part number that has front lift (FL) function
REQUIRED, to use Front Scarifiers
CANNOT BE USED WITH: PUSH PLATE
CANNOT BE USED WITH: COUNTERWEIGHT
CANNOT BE USED WITH: MID MOUNT SCARIFIER PACKAGE

(The Installed Manual Lift Group can be attached to the machine at the sametime as the mounting for the mid-mount scarifier, but not the actual scarifier itself).

NOTE: A Not-Installed Manual Lift Group can be ordered with an INSTALLED Push Plate or Counterweight. The not-installed lift group will be skidded, banded and shipped with the unit.

NOT INSTALLED COMPATIBILITY:
REQUIRES: MOUNTING, FRONT LIFT
REQUIRES: Hydraulics control part number that has front lift (FL) function

L	359-3925	**LIFT GROUP, FRONT MOUNTING**	10	**$442**

Two mounting plates welded to both sides of the front frame for factory or future installation of Front Lift.
REQUIRED BY: LIFT GROUP, MANUAL, FRONT

L	387-8664	**LINES, RIPPER, ADDITIONAL**	8	**$426**

For use with rear mounted auxiliary functions. Provides two hydraulic hoses with one end bundled at the rear of the machine and the other end bundled at the rear valve bank in front of the cab.
REQUIRES: Ripper Function
FOR USE WITH: BASE + 1 (RIP)
FOR USE WITH: BASE + 2 (FL, RIP)
FOR USE WITH: BASE+3 (FL,DA1,RIP)
FOR USE WITH: BASE+4 (WM,WT-FLOAT,FL,RIP)
FOR USE WITH: BASE+4 (WM,WT,FL,RIP) NOFLT
FOR USE WITH: BASE+3 (FL,MMS,RIP)
FOR USE WITH: BASE+5 (WM,WT,DA1,FL,RIP)
FOR USE WITH: BASE+6 (WM,WT,DA1,DA2,FL,RIP)

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

GROUND ENGAGING TOOLS

GROUND ENGAGING TOOLS

P	8J-1434	**TOOTH, STRAIGHT**	67 67	**$805** **$805 NI**

NOTE
AVAIALABLE for use as NOT INSTALLED ONLY with
Miscellaneous order for RIPPER-SCARIFIER, REAR
using 0P-2975 160M3 AWD MISC MATERIAL
Ripper tooth group for rear ripper. Includes one straight shank
with ripper tooth.
Recommended order quantity of 2
ONLY FOR USE WITH:

P	4K-3330	**SHANKS/TEETH, RIPPER/SCARIFIER**	152 152	**$1,404** **$1,404 NI**

NOTE
AVAIALABLE for use as NOT INSTALLED ONLY with
Miscellaneous order for RIPPER-SCARIFIER, REAR
using 0P-2975 160M3 AWD MISC MATERIAL
Nine shanks for ripper and scarifier combination. Utilizes
the scarifier shank positions on a ripper and scarifier
combination. Will work with a midmount scarifier
ONLY FOR USE WITH: RIPPER/SCARIFIER

FIELD INSTALLED ATTACHMENTS

Please refer to the Caterpillar Work Tools Price List (WT-MG)
for Motor Grader work tools.

Available Through Parts Distribution

Reference numbers below are kits used to upgrade existing motor graders with new features or technology

463-6258 KIT, JOYSTICK,ADVANCED CONTROL
Improves operational efficiency when utilizing ACCUGRADE
or GRADE CONTROL X SLOPE.
Estimated install Hours: 2.5
Special Instructions: REHS8847

442-8145 KIT, ACCUMULATOR, BLADE LIFT
Provides hydraulic lines for base functions and accumulators for the
blade lift. Allows approximately 1-3" of vertical blade travel to
reduce impact loads. Nitrogen/oil accumulators activated by electric
switch.
Estimated install Hours: 8
Special Instructions: REHS4230

466-5233 KIT, EXTENSIONS, MIRROR HEATED
9" extension from Current Mirror, adds 2 additional
mirrors 1 for front visibility and 1 rear visibility. Heated
to keep free of ice and snow in cold weather
Estimated install Hours: 2

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

FIELD INSTALLED ATTACHMENTS (CONT.)

Available Through Parts Distribution (Cont.)

466-5255 KIT, EXTENSIONS, MIRROR STD
9" extension from Current Mirror, adds 2 additional mirrors, 1 for front visibility and 1 rear visibility
Estimated install Hours: 2

524-8603 KIT,LEFT HAND BLADE EXTENSION
24" x 24" x 7/8" - Left Hand Blade Extension Kit for use with 12 ft. and 14 ft. Basic Moldboards.
Estimated install Hours: 1.5

524-8604 KIT,LEFT HAND BLADE EXTENSION
24" x 27" x 1" - Left Hand Blade Extension Kit for use with 14 ft. Plus Moldboard.
Estimated install Hours: 1.5

524-8605 EXTENSION, BLADE, 24" RH
24" x 24" x 7/8" - Right Hand Blade Extension Kit for use with 12 ft. and 14 ft. Basic Moldboards.
Estimated install Hours: 1.5

524-8606 EXTENSION, BLADE, 24" RH
24" x 27" x 1" - Right Hand Blade Extension Kit for use with 14 ft. Plus Moldboard.
Estimated install Hours: 1.5

524-8607 KIT, SPARE RIM
14" x 25" AWD MP Spare Rim - for use on rear of AWD Machine
Estimated install Hours: 0.5

524-8608 KIT, SPARE RIM
14" x 25" AWD MP Spare Rim - for use on front of AWD Machine
Estimated install Hours: 0.5

524-8609 KIT, SPARE RIM
10" x 24" AWD MP Spare Rim - for use on rear of AWD Machine
Estimated install Hours: 0.5

524-8610 KIT, SPARE RIM
10" x 24" AWD MP Spare Rim - for use on front of AWD Machine
Estimated install Hours: 0.5

488-2192 KIT, CIRCLE SAVER
Circle Saver
Estimated install Hours: 0.5
Special Instructions: REHS4230

434-1068 KIT, FENDERS, FRONT
12/140/160M3 AWD Front Fender Kit

434-1066 KIT, FENDERS, REAR
160M3 Rear Fender Kit

380-3889 KIT, HEATED GLASS, RH DOOR
Right Hand Heated Door Glass
Special Instructions: REHS7154

380-3885 KIT, HEATED GLASS,WIDE FRONT
Wide Front Heated Glass
Special Instructions: REHS7155

380-3886 KIT, HEATED GLASS,NARROW FRONT
Narrow Front Heated Glass
Special Instructions: REHS7155

473-5233 KIT, STORAGE, CAB
12/140/160M3 Cab Storage Kit

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

PACKING

EXPORT PACKING

0P-2265	**ROLL ON-ROLL OFF**	0	**$304 NET**
	Machine is driveable with nothing removed. For sound testing purposes, European units with European arrangements must be ordered in Ro-Ro Configuration. (Cab or canopy remains mounted.) REQUIRED BY: EUROPEAN ARRANGEMENT REQUIRED BY: EUROPEAN AR. W/ ROADING (TUV)		
0P-2962	**SHIPPING TIRE FREIGHT OPTION**	0	**NC**
	This 0P is required when the machine is ordered with the Shipping Tire This insures the correct trailer is used for shipment preventing This is informational only and there is no additional charge. REQUIRED BY: TIRES, 17.5 SHIPPING, MP TIRES, 14.0 SHIPPING, AWD, MP		

ATTACHMENT PACKING

0P-6706	**BUNDLE EXPORT PACKING**	0	**NC**
	This OP should be ordered for miscellaneous orders		

SPECIAL INSTRUCTIONS

EXPOSITION MACHINE

0P-2949	**EXPOSITION INSTRUCTION**	0	**NC**
	This special instruction must be selected whenever dealer is placing an order for a unit intended for use at expositions and/or trade fairs		

160M3 AWD MOTOR GRADER
LITTLE ROCK, AR, USA (SAP)

Ship Weight lbs	LIST PRICE AT DEALER

Standard Equipment:

POWERTRAIN

Air cleaner, dual stage dry type radial seal with service indicator and automatic dust ejector
Air-to-air after cooler (ATAAC)
Belt, serpentine, automatic tensioner
Brakes, oil disc, four-wheel, hydraulic
Demand fan, hydraulic
Differential, lock/unlock, automatic
Drain, engine oil, ecology
Electronic over-speed protection
Parking brake, multi-disc, sealed and oil cooled.
Sediment drain, fuel tank.
Tandem drive
Transmission, 8 speed forward and 6 speed reverse, power shift, direct drive
VHP Plus (Variable Horse Power Plus)

ELECTRICAL

Alarm, back-up
Alternator, 150 ampere, sealed
Batteries, maintenance free, heavy duty, 1125 CCA
Breaker panel, ground accessible
Electrical hydraulic valves
Electrical system, 24V
Grade control ready (Cab harness, software, electrical hydraulic valves, bosses and brackets)
Lights, reversing
Lights, roading, roof-mounted
Lights, stop and tail, LED
Starter, electric

OPERATOR ENVIRONMENT

Air Conditioning with heater
Articulation, automatic return to center
Centershift pin indicator
Display, digital speed and gear
Doors, left and right side with wiper
Gauge, machine level
Gauges (analog) inside the cab (includes fuel, articulation, engine coolant temp, engine RPM, and hydraulic oil temp, DEF/AdBlue)
Joystick, adjustable armrests
Joystick gear selection, hydraulic power steering hydraulic controls (right/left, blade lift w/ float position, blade sideshift and tip, circle drive, centershift, front wheel lean and articulation and steering)
Lights, night time cab
Messenger operator information system
Meter, hour, digital
Mirror, inside rearview, wide angle
Power Port, 12V
Radio ready, entertainment
ROPS cab, sound suppressed
- 69dB(A) - ISO 6394
Seat,cloth-covered, comfort suspension
Storage area for cooler/lunchbox
Throttle control, electronic
Windows laminated glass:
-Fixed front with intermittent wiper
-Side and rear (3)
Windows tempered:
-Left and right side wipers
-Rear with intermittent wiper
Cab storage

SAFETY AND SECURITY

Clutch, circle drive slip
Doors, 2 engine compartment, (two left hand, two right hand) locking
Doors, 2 service, left and right locking
Ground level engine shutdown
Hammer (emergency exit)
Horn, electric
Lockout, hydraulic implement (for roading and servicing)
Seat belt, retractable 76.2 (3")
Secondary steering
Tandem walkway/guards

TIRES, RIMS, AND WHEELS

A partial allowance for tires on 254mm x 609.6mm (10" x 24") multi-piece rims is included in the base machine price and weight.

FLUIDS

Antifreeze
Extended life coolant -35C/-30F

OTHER STANDARD EQUIPMENT

Accumulators -brake -dual certified
Drawbar,6 shoe w/replaceable wear strips
Fluid check, ground level
Fuel tank, 398 liters (105 gallon)
Ground level fueling
DEF/AdBlue Tank, 21 liters (5.5 gallon)
Hydraulic lines for base functions
Pump, hydrailic, high capacity (98cc / 15 cu in)
Radiator, cleanout access (both sides with swing doors)
SOS ports - engine -hydraulic

160M3 AWD MOTOR GRADER
LITTLE ROCK, AR, USA (SAP)

	Ship Weight lbs	LIST PRICE AT DEALER

OTHER STANDARD EQUIPMENT (CONT.)

-transmission -coolant -fuel
Tandem walkway/guards
Tool box
Debris guard

160M3 AWD MOTOR GRADER LITTLE ROCK, AR, USA (SAP)	Ship Weight lbs	LIST PRICE AT DEALER

Lane 2 is reserved for the Base Order Management Program.
Please use Lane 2 when placing orders that are part of the Base Order Management Program.

160M3 AWD MOTOR GRADER LITTLE ROCK, AR, USA (SAP)		Ship Weight lbs	LIST PRICE AT DEALER
383-9705	**160M3 AWD MOTOR GRADER** . . . . . . LANE 3 - AVAILABLE FROM NORTH LITTLE ROCK FACTORY	40,098	**$470,430**
0P-2975	**160M3 AWD MISC MATERIAL NLR** . . . . . . AVAILABLE FROM NORTH LITTLE ROCK FACTORY	0	**NC**

Only reference numbers that have the text
"ALSO AVAILABLE ON A MISCELLANOUS ORDER" can be used on a MISC order.

USE	REF NO.	LANE 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

LANE SELECTION

	0P-9003	LANE 3 ORDER	0	NC

REGIONAL PACKAGES

L	385-9294	GLOBAL ARRANGEMENT Provides standard brake accumulators. For use in temperatures above -18C CANNOT BE USED WITH: WEATHER, COLD PLUS	0	NC
L	385-9297	GLOBAL ARRANGEMENT,LOW AMBIENT Provides brake accumulators for low ambient temperatures below -18C CANNOT BE USED WITH: EU dealers CANNOT BE USED WITH: WEATHER, STANDARD	0	NC

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

PERFORMANCE PACKAGES

MOLDBOARDS

L	349-3046	**MOLDBOARD, 12'**	0	**NC**
		INCLUDES: - Moldboard 12' x 24" x 7/8" (3658mm x 610mm x 22mm) - Curved Cutting Edge, 6" X 5/8" (152mm x 16mm) - End Bits, Standard, Without Overlay		
L	349-3047	**MOLDBOARD, 14' BASIC**	347	**$1,140**
		INCLUDES: - Moldboard 14' x 24" x 7/8" (4267mm x 610mm x 22mm) - Curved Cutting Edge, 8" x 3/4" (203mm x 19mm) - End Bits, Standard, Without Overlay		
L	349-3048	**MOLDBOARD, 14' PLUS**	650	**$2,710**
		INCLUDES: - Moldboard 14' x 27" x 1" (4267mm x 686mm x 25mm) - Curved Cutting Edge, 8" x 3/4" (203mm x 19mm) - End Bits, Standard, With Overlay		
L	350-0678	**MOLDBOARD, 16 FT**	1,040	**$7,080**
		INCLUDES: - Moldboard 16' x 27" x 1" (4877mm x 686mm x 25mm) - Curved Cutting Edge, 8" x 3/4" (203mm x 19mm) - End Bits, Standard, With Overlay		

WORK TOOLS

L	393-4882	**NO HITCH**	0	**NC**
L	337-7510	**HITCH, TOWING**	0	**$540**
L	324-0889	**RIPPER/SCARIFIER**	2,120 2,150	**$20,380** **$20,540 NI**

NOTE
NOT INSTALLED option is only for use with Miscellaneous orders using 0P-2975 160M3 AWD MISC MATERIAL
Hydraulic, rear mounted ripper with three straight ripper shanks. Can accommodate two additional ripper shanks and nine scarifier teeth which must be ordered separately.
REQUIRES: A hydraulics control part number that has a ripper function.
INCLUDES: Ripper Mounting

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

PERFORMANCE PACKAGES (CONT.)

WEATHER PACKAGES

L	353-3330	**STANDARD WEATHER AWD**	0	NC
		Recommended for year around use when typical ambient temperature range is 0 degrees C (32 degrees F) to 43 degrees C (110 degrees F) and operating at altitude below 1220 m (4000 feet). INCLUDES: - Batteries, Heavy Duty - 1125 CCA - Oil, Hydraulic, 10W FOR USE WITH: GLOBAL ARRANGEMENT FOR USE WITH: EUROPEAN ARRANGEMENT FOR USE WITH: EUROPEAN AR. W/ ROADING (TUV) CANNOT BE USED WITH: GLOBAL ARRANGEMENT,LOW AMBIENT		
L	394-4523	**COLD WEATHER PACKAGE AWD**	0	$760
		Recommended for year around use when typical ambient temperature range is 0 degrees C (32 degrees F) to 43 degrees C (110 degrees F) and operating at altitude below 1220 m (4000 feet). INCLUDES: - Starting Aid, Ether - Batteries, Extreme Duty -1400 CCA - Oil, Hydraulic, 10W - Cold Start arrangemnt FOR USE WITH: GLOBAL ARRANGEMENT FOR USE WITH: GLOBAL ARRANGEMENT,LOW AMBIENT FOR USE WITH: CANADIAN ARRANGEMENT FOR USE WITH: EUROPEAN ARRANGEMENT FOR USE WITH: EUROPEAN AR. W/ ROADING (TUV)		
L	394-4524	**COLD WEATHER PLUS PACKAGE AWD**	37	$3,765
		Recommended for year around use when typical ambient temperature range is -40 degrees C (-40 degrees F) to 40 degrees C (104 degrees) or operating at altitude above 1220 m (4000 feet). INCLUDES: - Starting Aid, Ether - Cold Start; Transmission oil and fan brake bypass - Batteries, Extreme Duty -1400 CCA - Oil, Hydraulic, Cold, 0W REQUIRES: HEATER, ENGINE COOLANT, 120V or HEATER, ENGINE COOLANT, 240V REQUIRED BY: SNOW ARRANGEMENT FOR USE WITH: GLOBAL ARRANGEMENT,LOW AMBIENT FOR USE WITH: CANADIAN ARRANGEMENT FOR USE WITH: EUROPEAN ARRANGEMENT FOR USE WITH: EUROPEAN AR. W/ ROADING (TUV) CANNOT BE USED WITH: GLOBAL ARRANGEMENT		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

PERFORMANCE PACKAGES (CONT.)

ACCUMULATORS

L	305-2927	**LINES,STANDARD W/O ACCUMULATOR**	0	NC
		Provides hydraulic lines for base functions		
L	358-9338	**ACCUMULATORS, BLADE LIFT**	170	$4,665
		Provides hydraulic lines for base functions and accumulators for the blade lift. Allows approximately 1-3" of vertical blade travel to reduce impact loads. Nitrogen/oil accumulators activated by electric switch.		
		CANNOT BE USED WITH: Canadian Dealers.		

PRECLEANER

L	380-6774	**PRECLEANER, NON SY-KLONE**	0	NC
		Includes dust ejector for medium to heavy dust environments.		
L	380-6775	**PRECLEANER, SY-KLONE**	5	$750
		Recommended for environments with large debris (leaves, chips, large grass, etc.)		

POWERTRAIN

ENGINE

L	567-4690	**ENGINE, TIER IV**	0	NC
		EPA Tier 4 Final certified engine with aftertreatment		
		Caterpillar C9 ACERT turbo charged diesel engine with automatic engine derate and idle control.		
		CANNOT BE USED WITH: EU DEALERS		

OIL CHANGE

L	324-5328	**DRAIN, GRAVITY, ENGINE OIL**	0	NC
		Standard engine oil drain		
L	501-1163	**DRAIN, HIGH SPEED, ENGINE OIL**	0	$286
		High speed engine oil drain. Requires pump at service location to be attached to coupling receiver for high speed flow.		
		HSO drain can also manual/gravity drain.		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS

NOTE: Optional Control Locations

Caterpillar offers many attachment hydraulic controls to operate work tools. Depending on which hydraulic part number is selected, the operating electro-hydraulic switches may include the auxiliary pod, mini-joystick located on the auxiliary pod, and/or the ripper control pod.

NOTE: Auxiliary controls that can have float

Auxiliary Pod Controls

```
INDEX = Index Finger (front lift)(float capability)
MID = Middle Finger(dozer angle 1)
RING = Ring Finger (dozer angle 2)
LITTLE= Little Finger (float capability)
```

NOTE: Mini-Joystick

```
 Fore/Aft
     .
    / \
     |
<--------->  Left/Right (float capability)
     |
    \ /
     .
```

NOTE: Ripper Control Pod

```
RH1   =  Front Lift (float capability)
RH2   =  Ripper-Scarifier Control
RHD   =  Ripper Handle Dual Switch (RH1 & RH2)
```

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

NOTE: Common Functions

COMMON FUNCTIONS:

Base = 8 functions: right and left blade lift, circle turn, drawbar center shift, blade side shift, blade tip, front wheel lean, frame articulation.

```
     FL      = Front Lift (moves front work tools up/down)
     DA1     = Dozer Angle 1 (angles front blade left OR right)
     DA2     = Dozer Angle 2 (angles front blade left AND right)
     RIP     = Rear Mounted Ripper (moves ripper up/down)
     MMS     = Mid-Mounted Scarifier
     WM      = Wing Mast
     WT      = Wing Tilt
     Float   = Built-in feature of valve section that opens both the
               work ports to tank. The external forces (weight of the
               work ports to tank. The external forces (weight of the
                implement) allows free movement of the implement.
     Flow Rate=Provides maximum rate of fluid flow from the specific
                work port.  B/A represents the maximum flow rate in
                Port B/Port A* in LPM (liters per minute).

 *NOTE: Each valve section has two work ports (Port A and Port B).
     Port A:  Used to either raise implement or move implement to the
     right or for clockwise rotation of the implement.
     Port B:  Used to either lower implement or move implement to the
     left or for counter-clockwise rotation of the implement.
```

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

HYDRAULIC VALVE LOCATIONS

This illustration shows the factory installed switch location for each function by hydraulic part number.

Part Number	MINI-JOYSTICK Front Aft	MINI-JOYSTICK Left/ Right Float	MINI-JOYSTICK Index with Float	AUXILIARY POD Mid	AUXILIARY POD Ring	AUXILIARY POD Little	RIPPER POD RHD RH1	RIPPER POD RHD RH2
242-5056								
385-8094								RIPPER
Float:								N
Flow rate:								49/49
354-4113								MID-MOUNT SCARIFIER
Float:								Y
Flow Rate:								25/36
309-9848							FR.LIFT	
Float:							Y	
Flow Rate:							46/60	
385-8095							FR.LIFT	RIPPER
Float:							Y	N
Flow rate:							46/60	49/49
395-2008	MAST	TILT	FR.LIFT					
Float:	N	N	Y					
Flow rate:	72/72	41/30	46/60					
385-8096			FR.LIFT	DA1				RIPPER
Float:			Y	N				N
Flow rate:			46/60	72/72				49/49
385-8099	MAST	TILT	FR.LIFT					RIPPER
Float:	N	Y	Y					N
Flow rate:	72/72	74/86	46/60					49/49
385-8100	MAST	TILT	FR.LIFT					RIPPER
Float:	N	N	Y					N
Flow rate:	72/72	41/30	46/60					49/49
395-2009	MAST	TILT	FR.LIFT	DA1	MID-MOUNT SCARIFIER			
Float:	N	N	Y	N	N			
Flow rate:	72/72	41/30	46/60	72/72	25/36			

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

HYDRAULIC VALVE LOCATIONS LANE 3 ONLY

Part Number	MINI-JOYSTICK Front Aft	Left/ Right Float	AUXILIARY POD Index with Float	Mid	Ring	Little	RIPPER POD RH1	RH2
385-8097			FR.LIFT	MID-MOUNT SCARIFIER				RIPPER
Float:			Y	N				N
Flow rate:			46/60	25/36				49/49
385-8101	MAST	TILT	FR.LIFT	DA1				RIPPER
Float:	N	N	Y	N				N
Flow rate:	72/72	41/30	46/60	72/72				49/49
385-8103	MAST	TILT	FR.LIFT	DA1	DA2			RIPPER
Float:	N	N	Y	N	N			N
Flow rate:	72/72	41/30	46/60	72/72	72/72			49/49
481-8610	MAST	TILT	FR.LIFT	DA1	DA2			RIPPER
Float:	N	Y	Y	N	N			N
Flow rate:	72/72	74/86	46/60	72/72	72/72			49/49

HYDRAULIC VALVE PART NUMBERS

L	242-5056	**HYDRAULICS, BASE** . . . . . 0 Base hydraulic system includes machine articulation, wheel lean, left and right blade lift with independent float, drawbar centershift, circle drive, blade sideshift and tip.		NC
L	385-8094	**BASE + 1 (RIP)**. . . . . 21 Ripper function. Includes the Ripper Lines. ONLY FOR USE WITH: RIPPER-SCARIFIER, REAR		$2,300
L	354-4113	**BASE + 1 (MMS)** . . . . . 21 Mid-Mount Scarifier function. Includes the Mid-Mount Scarifier Lines. ONLY FOR USE WITH: MID MOUNT SCARIFIER PACKAGE		$2,300
L	309-9848	**BASE + 1 (FL)**. . . . . 18 Front Lift function. Includes the Front Lift Lines. ONLY FOR USE WITH: LIFT GROUP, MANUAL, FRONT		$1,890
L	385-8095	**BASE + 2 (FL,RIP)** . . . . . 37 Ripper and Front Lift functions. Includes the Front Lift Lines and Ripper Lines. ONLY FOR USE WITH: LIFT GROUP, MANUAL, FRONT RIPPER-SCARIFIER, REAR		$4,085
L	395-2008	**BASE + 3 (WM,WT-NOFLOAT,FL)** . . . . . 60 Front Lift, Snow Wing Mast, and Snow Wing Tilt ONLY FOR USE WITH: SNOW ARRANGEMENT LIFT GROUP, MANUAL, FRONT		$6,540
L	385-8096	**BASE + 3 (FL,DA1,RIP)** . . . . . 67 Ripper, Front Lift and Angle functions. Includes the Front Lift Lines Dozer Angle 1 Lines, and Ripper Lines. ONLY FOR USE WITH: LIFT GROUP, MANUAL, FRONT RIPPER-SCARIFIER, REAR		$7,460

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

HYDRAULIC VALVE PART NUMBERS (Cont.)

L	385-8099	**BASE + 4 (WM,WT-FLOAT,FL,RIP)**	85	$8,960
		Ripper, Front Lift, Snow Wing Mast and Snow Wing Tilt (74/86 with float) functions. Includes the Front Lift Lines and Ripper Lines. ONLY FOR USE WITH: SNOW ARRANGEMENT LIFT GROUP, MANUAL, FRONT RIPPER-SCARIFIER, REAR		
L	385-8100	**BASE + 4 (WM,WT,FL,RIP) NOFLT**	85	$8,700
		Ripper, Front Lift, Snow Wing Mast and Snow Wing Tilt (41/30 - No Float) functions. Includes the Front Lift Lines and Ripper Lines. ONLY FOR USE WITH: SNOW ARRANGEMENT LIFT GROUP, MANUAL, FRONT RIPPER-SCARIFIER, REAR		
L	395-2009	**BASE + 5 (WM,WT,DA1,FL,MMS)**	120	$10,790
		Snow Wing Mast, Snow Wing Tilt (41/30 - No Float) functions, Dozer Angle 1, Front LIFT, and Mid-Mount Scarifier Includes the Front Lift Lines, Angle 1 Lines, and Mid-Mount Scarifier Lines. ONLY FOR USE WITH: SNOW ARRANGEMENT LIFT GROUP, MANUAL, FRONT MID MOUNT SCARIFIER PACKAGE		

HYDRAULIC VALVE PART NUMBERS LANE 3 ONLY

L	385-8097	**BASE+3 (RIP, MMS, FL)**	67	$7,460
		FOR USE WITH: Lane 3 only. Front Lift, Ripper and Mid-Mount Scarifier functions. Includes the Front Lift Lines, Ripper Lines and Mid-Mount Scarifier Lines. ONLY FOR USE WITH: LIFT GROUP, MANUAL, FRONT RIPPER-SCARIFIER, REAR MID MOUNT SCARIFIER PACKAGE		
L	385-8101	**BASE + 5 (WM,WT,DA1,FL,RIP)**	120	$10,790
		FOR USE WITH: Lane 3 only. Snow Wing Mast, Snow Wing Tilt (41/30 - No Float) functions, Dozer Angle 1, Front LIFT, and Ripper. Includes the Front Lift Lines, Angle 1 Lines, and Ripper Lines. ONLY FOR USE WITH: SNOW ARRANGEMENT MOUNT, SNOW WING, FRAME READY LIFT GROUP, MANUAL, FRONT RIPPER-SCARIFIER, REAR		
L	385-8103	**BASE + 6(WM,WT,DA1,DA2,FL,RIP)**	130	$13,350
		FOR USE WITH: Lane 3 only. Ripper, Dozer Angle 1, Dozer Angle 2, Front Lift, Snow Wing Mast and Snow Wing Tilt (41/30 - No Float) functions. Includes the Front Lift Lines, Dozer Angle 2 Lines and Ripper Lines. ONLY FOR USE WITH: SNOW ARRANGEMENT MOUNT, SNOW WING, FRAME READY LIFT GROUP, MANUAL, FRONT RIPPER-SCARIFIER, REAR		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

HYDRAULIC VALVE PART NUMBERS (Cont.)

L	**481-8610**	**BASE+6(WM,WT+F,DA1,DA2,FL,RIP)**.	130	**$13,620**

FOR USE WITH: Lane 3 only.
Ripper, Dozer Angle 1, Dozer Angle 2, Front Lift, Snow Wing Mast and Snow Wing Tilt (72/72 + Float) functions. Includes the Front Lift Lines, Dozer Angle 2 Lines and Ripper Lines.
ONLY FOR USE WITH: SNOW ARRANGEMENT
MOUNT, SNOW WING, FRAME READY
LIFT GROUP, MANUAL, FRONT
RIPPER-SCARIFIER, REAR

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

STARTERS, BATTERIES, & ALTERNATORS

STARTER ARRANGMENT

L	394-3945	**STARTER, ELECTRIC, HEAVY DUTY**	0	NC
		Provides a 1000 Amp. starter		
L	395-3547	**STARTER, ELEC, EXTREME DUTY**	21	$408
		Recommended for Cold weather applications Provides a 1000 Amp. starter		

ELECTRICAL

BRAKE LIGHTS

L	331-6793	**LIGHTS, BRAKE AND BACK-UP**	0	NC
		Provides stationary rear brake lights along with the back-up lights. Does not include front headlights or turn signals CANNOT BE USED WITH: 526-2563 EUROPEAN ARRANGEMENT 394-3871 EUROPEAN AR. W/ROADING (TUV) 308-9370 LIGHTS, FRONT HEADLIGHTS, LOW 308-9371 LIGHTS, FRONT HEADLIGHTS, HIGH 396-1966 SNOW ARRANGEMENT		
L	536-9969	**LIGHTS, ARM, FOLD DOWN**	0	$1,875
		Provides stationary rear brake lights along with the back-up lights, dimmer switch for road lighting, drop-down stop, tail, and rear turn signals and back-up lights. REQUIRES: 308-9370 LIGHTS, FRONT HEADLIGHTS, LOW 308-9371 LIGHTS, FRONT HEADLIGHTS, HIGH INCLUDED IN: 396-1966 SNOW ARRANGEMENT		

ROADING LIGHTS

L	421-7810	**LIGHTS, ROADING, HALOGEN**	0	NC
		Provides six halogen cab roof mounted roading lights.		
L	550-6608	**LIGHTS, ROADING, LED**	0	$1,245
		Provides six LED cab roof mounted roading lights.		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

OPERATOR ENVIRONMENT

CAB EXTERIOR

L	385-9553	**CAB, BASE (STANDARD GLASS)**	0	NC
		INCLUDES: - 150 amp alternator - Standard Glass CANNOT BE USED WITH: SNOW ARRANGEMENT CANNOT BE USED WITH: EUROPEAN ARRANGEMENT CANNOT BE USED WITH: EUROPEAN AR. W/ ROADING (TUV)		
L	385-9554	**CAB, PLUS (STANDARD GLASS)**	35	$1,105
		INCLUDES: - 150 amp alternator - Wiper/washer, rear - Standard Glass		
L	385-9555	**CAB, PLUS (ANTI-ICING GLASS)**	35	$6,630
		INCLUDES: - 270 amp alternator - Wiper/washer, rear - Front glass and RH door glass are heated.		

CAB INTERIOR

L	397-7456	**CAB, BASE (INTERIOR)**	0	NC
		INCLUDES: - Seat, mechanical suspension, cloth - Shade, Sun CANNOT BE USED WITH: SNOW ARRANGEMENT CANNOT BE USED WITH: EUROPEAN ARRANGEMENT CANNOT BE USED WITH: EUROPEAN AR. W/ ROADING (TUV)		
L	397-7457	**CAB, PLUS (INTERIOR)**	45	$3,010
		INCLUDES: - Seat, Air Suspension, Cloth, Heated - Radio,12V, AM/FM, Weatherband, Bluetooth, USB, Aux Input Available to countries with bluetooth certification. Please contact your Cat marketing representative if you have questions. - Fan, defroster, rear window - Converter, Communication (CB) - Shade, Sun		
L	397-7458	**CAB, PREMIUM (INTERIOR)**	80	$4,580
		- Seat, air suspension, cloth; Heated, Ventilated - Radio,12V, AM/FM CD/MP3 Bluetooth, Weatherband, USB, Aux Input XM/Sirius Satellite Available to countries with bluetooth certification. Please contact your Cat marketing representative if you have questions. - Fan, defroster, rear window - Converter, Communication (CB) - Shade, Sun *Recommended for Snow Removal		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

OPERATOR ENVIRONMENT (CONT.)

SEAT BELT

L	394-1492	**SEAT BELT**	0	NC
		Standard 3 inch seat belt		
L	394-1132	**SEAT BELT W/INDICATOR**	5	$193
		Standard 3 inch seat belt with indicator located on display panel		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

TECHNOLOGY PRODUCTS

PRODUCT LINK

Product Link enables the remote transmission of information about the location, operation, and condition of your equipment. Efficiently and effectively monitor the performance of your assets to help keep your jobs on schedule, maintain equipment condition, and reduce the costs of owning and operating your fleet. Availability varies by country - please reference https://Dealer.cat.com/PL/Certification for certified countries. Please contact your Caterpillar marketing representative with questions.

L	464-6804	**PRODUCT LINK, SATELLITE PLE631** . . . . . Product Link Elite series PLE631 uses a satellite network to transmit location, utilization and condition information for viewing in Product Link's remote monitoring web interface. For use in areas with poor or no cellular coverage.	29	**$432**
L	464-6442	**PRODUCT LINK, CELLULAR PLE641** . . . . . Product Link Elite series PLE641 offers expanded coverage including 3G UMTS and CDMA2000 as well as 2G GSM and CDMA cellular networks to transmit location, utilization and condition information f viewing in Product Link-s remote monitoring web interface. Cellular technology provides capabilities for frequent transmission and larger volumes of data.	29	**NC**

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

TECHNOLOGY PRODUCTS (CONT.)

ACCUGRADE

L	362-5222	**NO ACCUGRADE**	0	NC
L	462-7930	**INSTALLATION, ACCUGRADE READY** Allows the Motor Grader to be equipped with either a Cross Slope, Sonic, Laser, GPS, or ATS electronics kit. Provides software, harnesses for sensors, mounting for sensors and blade mast bracket.	90	$4,830

NOTE: Highly recommended to select Advanced Joystick Controls. This will Allow for complete configuration and control when using 3 party grade control systems

L	462-7931	**GRADE CONTROL X SLOPE** Allows the operator to manually control one end of the blade to match the curb or crown while automatically maintaining the desired slope of the blade. This system is used to maintain the crown of a gravel road or the shoulder of a road. Provides cab switches, software, harnesses for sensors, mounting for sensors and blade mast bracket. Accugrade Ready is included in this option REQUIRES: JOYSTICK CONTROLS, ADVANCED INCLUDED IN: 492-3595 CONTROLS, PERFORMANCE BUNDLE	165	$11,060

MOTOR GRADER CONTROLS

L	357-9151	**JOYSTICK CONTROLS, BASIC** Standard joystick controls.	6	NC
L	458-8701	**JOYSTICK CONTROLS, ADVANCED** Provides enhanced functionality while using ACCUGRADE READY or GRADE CONTROL X SLOPE INCLUDES: - Advanced Joysticks - Harness - Films REQUIRED BY: GRADE CONTROL X SLOPE. RECOMMENDED FOR USE WITH: ACCUGRADE READY INCLUDED IN: 492-3595 CONTROLS, PERFORMANCE BUNDLE	8	$2,030

CONTROL AUTO ARTICULATION

L	483-2354	**CONTROL,AUTO ARTICULATION-DEMO** 500 machine hour demo. Improves ease of operation, increases maneuverability and maximizes productivity by automatically matching articulation angle to steering angle. Includes 3 position rocker switch enabling 3 modes; off / forward / both forward and reverse.	0	NC
L	435-2072	**CONTROL,AUTO ARTICULATION-FULL** Improves ease of operation, increases maneuverability and maximizes productivity by automatically matching articulation angle to steering angle. Includes 3 position rocker switch enabling 3 modes; off / forward / both forward and reverse.	0	$1,810

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER
		FUEL SYSTEMS		
L	540-2373	**TANK, FUEL, STANDARD** . . . . . Standard Fuel 105 gallon (398 L)	0	NC
L	553-3677	**TANK, FUEL, FAST FILL** . . . . . Fuel tank is ready to accept fast fill 100 gpm nozzle. Tank capacity is 105 gallons (398 L)	0	$1,410
		COOLING		
		COOLING FAN		
L	542-4660	**FAN, STANDARD** . . . . . Provides a hydraulically driven demand fan	0	NC
L	542-4661	**FAN, REVERSING** . . . . . Provides a hydraulically driven demand fan that can reverse direction to prevent debris build up on the cooling package and engine enclosure. Includes automatic and manual controls for airflow reversal. Recommended for applications with a high content of airborne debris.	0	$3,105
		TIRES, RIMS, AND WHEELS		

Tires listed below include a set of six tires.
****To calculate tire loads with machine attachments, please reference the MG Tire Selection Pocket Guide (media #AEXQ0182), available on the Electronic Sales Library.**
All tire selections should be made with consideration for planned machine attachments (OEM and aftermarket) and their additional weight. Each tire has a maximum load rating that is not to be exceeded. The tire selection should be based on the maximum of all tire position loads on the machine. Assistance for calculating the highest tire load can be found in the Tire Load Worksheet in the back of the Caterpillar Motor Graders Tire Selection Pocket Guide. Failure to abide by the load ratings of the tires without first consulting the local tire supplier representative could result in nullification of the tire warranty.

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

TIRES, RIMS, AND WHEELS (CONT.)

Due to industry-wide tire availability limitations, tire brand and type cannot be guaranteed. Every effort will be made to satisfy your tire choice, but we reserve the right to change to alternate tires. If the tire brand cannot be supplied, the dealer will be contacted to propose alternative tire options. The dealer will need to respond with an alternative tire selection within 72 hours. If no response is provided by the supplier, the order will default to a comparable tire. As a consequence of a tire change the total machine price will be decreased or increased relative to the price of the new tire selection.

The information provided can be used to make a tire selection based on the particular conditions at the site. When available, the tire manufacturer should be consulted regarding proper tire selection.

APPLICATION SPECIFIC TIRES

L	515-5404	**TIRES,14.0R24 SOIL TRACTION MP**	0	$5,970
		Tire group received will be one of the tire groups listed below: - Bridgestone VKT 1* on 10" x 24" multi-piece rims. - Michelin XGLA2 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	515-5405	**TIRES,17.5R25 SOIL TRACTION MP**	0	$12,440
		Tire group received will be one of the tire groups listed below: - Bridgestone VKT 1* on 14" x 25" multi-piece rims. - Michelin XTLA 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		

BRIDGESTONE

L	252-0722	**TIRES, 14.0R24 BS VUT * L2 MP**	991	$7,250
		Bridgestone VUT 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	249-7841	**TIRES, 17.5R25 BS VKT * D2A MP**	1,620	$13,440
		Bridgestone VKT 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	252-0716	**TIRES, 14.0R24 BS VKT * G2 MP**	1,519	$6,970
		Bridgestone VKT 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	252-0710	**TIRES, 14.0R24 BS VSW * G2 MP**	1,459	$13,320
		Bridgestone VSW 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	310-7332	**TIRES, 17.5R25 BS VSW * G2 MP**	1,698	$18,590
		Bridgestone VSW 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

TIRES, RIMS, AND WHEELS (CONT.)

MICHELIN

L	252-0681	**TIRES,14.0R24 MX XGLA2 * G2 MP**	1,048	$10,860
		Michelin XGLA2 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (7824 lbs) 3550 kg.**		
L	249-7845	**TIRES,14.0R24 MX XSNO+ * G2 MP**	1,261	$14,890
		Michelin XSNO 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (7824 lbs) 3550 kg.**		
L	252-0779	**TIRES,17.5R25 MX XSNO+ * G2 MP**	903	$20,490
		Michelin XSNO+ 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	252-0773	**TIRES, 17.5R25 MX XTLA * L2 MP**	268	$16,110
		Michelin XTLA 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		

GOODYEAR

L	310-7327	**TIRES, GY17.5R25* COMBO MP**	1,200	$20,290
		Goodyear RL2+ 6S on 14" x 25" multi-piece rims THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (7824 lbs) 3550 kg.**		

SHIPPING TIRES

L	440-3434	**TIRES, 17.5 SHIPPING, AWD, MP**	83	$2,250
		FOR USE WITH LANE 3 ONLY Shipping tire for use during shipment of machine only. Solid rubber band mounted on 14" x 25" multi-piece rims. Must be replaced with pneumatic tire before delivering to customer.		
L	448-5584	**TIRES, 14.0 SHIPPING, AWD, MP**	69	$2,000
		FOR USE WITH LANE 3 ONLY Shipping tire for use during shipment of machine only. Solid rubber band mounted on 10" x 24" multi-piece rims. Must be replaced with pneumatic tire before delivering to customer.		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER
		GUARDS		
		Guards		
L	323-6970	**GUARD GP, HITCH**	25	NC
		Standard bottom plate just rear of articulation hitch		
L	368-6239	**ARTICULATION GUARD.**	30	$1,260
		Provides protection for the articulation rods from snow, dirt and Highly recommended for snow removal applications, or below freezing CANNOT BE USED WITH : SOUND SUPRESSION (BOTTOM)		
		FLUIDS		
		ANTIFREEZE		
L	469-8157	**COOLANT, 50/50, -35C (-31F)**	0	NC
		Standard engine coolant		
L	469-8160	**COOLANT, 60/40, -51C (-60F)**	0	$245 NET
		Engine coolant recommended for extreme low temperatures		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

DOCUMENTATION

LANGUAGE SELECTION

NOTE: This part number will provide the language for Messenger and Statement of Conformity

L	**386-1254**	**LANGUAGE, ENGLISH**	0	**NC**

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

DOCUMENTATION (CONT.)

DECAL PACKAGES

NOTE: This part number will provide the films in ANSI or ISO
The word "WARNING" is on picto decals for ANSI.
Symbols only are on picto decals for ISO.

L	**442-9940**	**DECALS, ENGLISH (U.S.)** . . . . . 0 Provides decals as required by ANSI.		**NC**

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

FEATURE PACKAGES

REGIONAL OPTIONAL PACKAGES

L	396-1966	**SNOW ARRANGEMENT**	355	$6,460

INCLUDES:
- LIGHTS, ARM, FOLD DOWN
- MOUNTING, WARNING LIGHT
- TRANSMISSION, AUTOSHIFT

RECOMMENDED: MIRRORS, OUTSIDE HEATED
REQUIRES: MOUNT,SNOW WING,FRAME RDY HAL or LED
LIGHTS, WORKING, PLUS, HALOGEN or LED
HEADLIGHTS,FRONT, HIGH, (HALOGEN OR LED)
HEATER, ENGINE COOLANT, 120V or 240v
STARTER, ELEC, EXTREME DUTY or EXTRM DUTY(TUV)
WEATHER, COLD PLUS
CAB, PLUS (STANDARD GLASS) or (ANTI-ICING GLASS)

WORK TOOL PACKAGES

L	358-9341	**MID MOUNT SCARIFIER PACKAGE**	2,076	$16,290

INCLUDES:
- Mid-mount Scarifier, V-Type with 11 Teeth
- MOUNT, MID-MOUNT SCARIFIER

CANNOT BE USED WITH: Any Front Lift group or
CANNOT BE USED WITH: FENDERS, FRONT, AWD

WORK TOOL PACKAGES-SNOW WING MOUNT

L	390-9182	**MOUNT,SNOW WING,FRAME RDY HAL**	251	$2,295

FOR USE IN LANE 3 ONLY
INCLUDES:
- Snow Wing Mount
- Light, halogen Snow Wing, Right Hand

REQUIRED BY: SNOW ARRANGEMENT

L	551-6546	**MOUNT,SNOW WING,FRAME RDY LED**	0	$2,710

FOR USE IN LANE 3 ONLY
INCLUDES:
- Snow Wing Mount
- Light, LED Snow Wing, Right Hand

REQUIRED BY: Snow Arrangement

LIGHTING PACKAGES

CANNOT MIX HALOGEN AND LED LIGHT PACKAGES

L	395-1966	**LIGHTS, WORKING, BASIC,HALOGEN**	19	$770

INCLUDES:
- Lights, Work, Heel 3X3
- Lights, Work, Midframe Toe 3X3
- Switch, Work Lighting

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

FEATURE PACKAGES (CONT.)

LIGHTING PACKAGES (Cont.)

L	395-1967	**LIGHTS, WORKING, PLUS, HALOGEN**	22	$1,035
		INCLUDES: - Lights, halogen, ripper 3X3 - Lights, halogen, work, heel 3X3 - Lights, halogen, work, midframe toe 3X3 - Switch, work lighting CANNOT BE USED WITH: LIGHTS, ROADING, LED MOUNT,SNOW WING,FRAME RDY LED REQUIRED BY: SNOW ARRANGEMENT		
L	552-7285	**LIGHTS, WORKING, PLUS, LED**	0	$2,590
		INCLUDES: - Lights, LED, ripper 3X3 - Lights, LED, work, heel 3X3 - Lights, LED, work, midframe toe 3X3 - Switch, work lighting CANNOT BE USED WITH: LIGHTS, ROADING, HALOGEN MOUNT,SNOW WING,FRAME RDY HAL REQUIRED BY: SNOW ARRANGEMENT		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

FEATURE PACKAGES (CONT.)

OTHER OPTIONAL ATTACHMENTS

L	338-1132	**LIGHT, LED WARNING STROBE**	5	$605 NI
		Amber high-speed strobe beacon. REQUIRES: MOUNTING, WARNING LIGHT		
L	361-3137	**MOUNTING, WARNING LIGHT**	10	$725
		Provides the bracket for warning beacon light INCLUDED IN: SNOW ARRANGEMENT		
L	396-3515	**TRANSMISSION, AUTOSHIFT**	5	$3,205
		Improves ease of operation and maximizes productivity by automatically shifting the transmission at optimal shift points. REQUIRED BY: EUROPEAN ARRANGEMENT REQUIRED BY: EUROPEAN AR. W/ ROADING (TUV) INCLUDED IN: SNOW ARRANGEMENT		
L	380-3070	**LIGHTS, SERVICE, INTERNAL**	5	$193
		Provides two lights operated by a single manual switch located in the rear enclosure. One light illuminates the engine compartment and the second light illuminates the hydraulic level sight gauge.		

ELECTRICAL

FRONT HEADLIGHTS

L	308-9370	**HEADLIGHTS,FRONT, LOW, HALOGEN**	0	$640
		Provides low bar headlights with front turn signals. CANNOT BE USED WITH: 396-1966 SNOW ARRANGEMENT ANY LED LIGHTING OPTION REQUIRED BY: 526-2563 EUROPEAN ARRANGEMENT 394-3871 EUROPEAN AR. W/ROADING (TUV) 536-9969 LIGHTS, ARM, FOLD DOWN		
L	553-2588	**HEADLIGHTS, FRONT, LOW, LED**	0	$1,365
		Provides low bar LED headlights with front turn signals. CANNOT BE USED WITH: SNOW ARRANGEMENT ANY HALOGEN LIGHTING OPTION REQUIRED BY: LIGHTS,ARM, FOLD DOWN 526-2563 EUROPEAN ARRANGEMENT 394-3871 EUROPEAN AR. W/ROADING (TUV)		
L	308-9371	**HEADLIGHTS,FRONT, HIGH,HALOGEN**	0	$640
		Provides HIGH bar headlights with front turn signals. REQUIRED BY: 526-2563 EUROPEAN ARRANGEMENT 394-3871 EUROPEAN AR. W/ROADING (TUV) 536-9969 LIGHTS, ARM, FOLD DOWN 396-1966 SNOW ARRANGEMENT		
L	553-2589	**HEADLIGHTS, FRONT, HIGH, LED**	0	$1,365
		Provides HIGH bar LED headlights with front turn signals. CANNOT BE USED WITH: ANY HALOGEN LIGHTING OPTION REQUIRED BY: LIGHTS,ARM, FOLD DOWN SNOW ARRANGEMENT 526-2563 EUROPEAN ARRANGEMENT 394-3871 EUROPEAN AR. W/ROADING (TUV)		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

OPERATOR ENVIRONMENT

CAMERA

L	396-3921	**CAMERA, REAR VISION**	15	$2,535
		Provides a 115 degree color camera mounted on the rear of the hood that is connected to a 7 inch (178mm) LCD color display mounted in the cab which shows the view behind the machine. CAN NOT BE USED WITH: EUROPEAN AR. W/ ROADING (TUV) NOTE* EUROPEAN AR. W/ ROADING (TUV) includes front and rear facing cameras		

MIRRORS

L	233-3295	**MIRRORS, OUTSIDE MOUNTED**	32	$495
		Provides two convex mirrors for outside mounting on the left and right cab grab irons. NOTE: The mirrors are wrapped in bubble wrap and rotated toward the doors for protection during shipment. REQUIRED BY: EUROPEAN ARRANGEMENT EUROPEAN AR. W/ ROADING (TUV)		
L	344-0984	**MIRRORS, OUTSIDE HEATED 24V**	33	$670
		Provides mirrors with a 24V heating element to keep mirrors ice free in cold weather operations. NOTE: The mirrors are wrapped in bubble wrap and rotated toward the doors for protection during shipment. REQUIRED BY: EUROPEAN ARRANGEMENT EUROPEAN AR. W/ ROADING (TUV)		

TECHNOLOGY PRODUCTS

L	393-6335	**SECURITY SYSTEM, MACHINE**	10	$720
		FOR USE IN LANE 3 ONLY Provides a programmable system to manage access to the machine using special MSS keys. Deters theft, vandalism, and unauthorized use. Programmable features allow the following: * limits operators to selected machines * controls the days and hours equipment may be started * controls access by untrained operators or personnel		
L	458-2072	**STABLE BLADE**	3	$2,470
		Provides sensor and software to automatically reduce engine speed in various applications to reduce machine bounce and scalloping of surface.		
L	492-3595	**CONTROLS, PERFORMANCE BUNDLE**	176	$15,560
		The Auto Articulation in this bundle is an unrestricted version, not limited to 500 hours. INCLUDES: 435-2072 CONTROL,AUTO ARTICULATION-FULL 458-2072 STABLE BLADE 458-8701 JOYSTICK CONTROLS, ADVANCED 462-7931 GRADE CONTROL X SLOPE		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER
		GUARDS		
		GUARDS		
L	367-6905	**GUARD, AXLE HOSE**	15	$1,075
		Provides additional protection to the front axle cylinders, lines, and fittings.		
		NOTE NOT recommended for use with tire chains		
L	366-2459	**GUARD, TRANSMISSION**	310	$3,400
		Provides a steel guard to protect the transmission from ground debris.		
		REQUIRED BY: SOUND SUPRESSION (BOTTOM)		
		INCLUDED IN: EUROPEAN ARRANGEMENT		
		EUROPEAN AR. W/ ROADING (TUV)		
L	377-1602	**SOUND SUPPRESSION (BOTTOM)**	243	$2,095
		Provides two metallic side panels on either side of the transmission guard, enclosing the rear of the machine. This option prevents debris from accumulating on top of the transmission guard and also suppresses sound to meet EU sound regulations.		
		REQUIRES: GUARD, TRANSMISSION		
		REQUIRES: GUARD GP, HITCH		
		INCLUDED IN: EUROPEAN ARRANGEMENT		
		INCLUDED IN: EUROPEAN AR. W/ ROADING (TUV)		
		CANNOT BE USED WITH: ARTICULATION GUARD		
L	546-0262	**SOUND SUPPRESSION, ENGINE ENCL**	0	$1,540
		Suppression panels in engine enclosure doors.		
		INLCUDED IN: EUROPEAN ARRANGEMENT		
		INCLUDED IN: EUROPEAN AR. W/ ROADING		
L	449-7700	**FENDERS, FRONT**	0	$3,795
		Non-metallic front fenders aid in reducing the build-up of mud, snow, or debris. Front fenders are compatible with all Non-AWD tire sizes offered by the factory.		
		** NOT RECOMMENDED FOR USE WITH TIRE CHAINS.		
		CANNOT BE USED WITH: MID MOUNT SCARIFIER PACKAGE		
		CANNOT BE USED WITH: GUARD, AXLE HOSE		
L	515-7410	**FENDERS, REAR**	0	$5,200
		Provides non-metallic rear fenders to aid in reducing the build-up of mud, snow, or debris. Rear fenders are compatible with all MG tire sizes offered by the factory.		
		INCLUDED IN: EUROPEAN AR. W/ ROADING (TUV)		
		** NOT RECOMMENDED FOR USE WITH TIRE CHAINS.		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

OTHER ATTACHMENTS

STARTING AIDS

L	249-5516	**HEATER, ENGINE COOLANT, 120V**	3	**$245**
		Engine coolant heater for 120 volt external power source. REQUIRED BY: SNOW ARRANGEMENT		

CIRCLE DRIVE INJECTOR GREASE

L	521-3250	**KIT, CIRCLE SAVER**	0	**$238**
		Remote Circle Drive Greasing point (Zerk). Located top of drawbar for easy servicing of circle drive gear. Helps the pinion maintain its lubrication caused by lack of grease in this component.		

WORK TOOLS

WORK TOOLS

L	360-5074	**MOUNT, MID-MOUNT SCARIFIER**	131	**$1,520**
		Brackets welded to front frame for future installation of midmount scarifier. INCLUDED IN: SCARIFIER, MID-MOUNT V-TYPE NOTE: This is the mounting only and does not include the scarifier. RECOMMENDED: Hydraulics with a mid-mount scarifier (MMS) function NOTE: If you intend to purchase the mid-mounted scarifier, please note that the actual scarifier cannot be attached to the machine at same time as the Lift Group, Hydraulic, Front		
L	367-6880	**COUNTERWEIGHT**	885 0	**$3,200** **$3,200 NI**
		NOTE NOT INSTALLED option is only for use with Miscellaneous orders using 0P-2975 160M3 AWD MISC MATERIAL Front mounted.Recommended when machine is not equipped with front or rear mounted work tool attachments to provide additional blade performance capability. NOTE:This cannot be used in conjunction with push plate, front lift work tools,or the 'installed' hydraulic front lift. It can be used with a not installed hydraulic front lift NOT RECOMMENDED FOR USE WITH: RIPPER-SCARIFIER, REAR CANNOT BE USED WITH: PUSH PLATE CANNOT BE USED WITH: LIFT GROUP, MANUAL, FRONT (Installed)		
L	367-6842	**PUSH PLATE, COUNTERWEIGHT**	2,822 2,822	**$5,640** **$5,640 NI**
		NOTE NOT INSTALLED option is only for use with Miscellaneous orders using 0P-2975 160M3 AWD MISC MATERIAL Front mounted. Recommended when machine is equipped with rear ripper/scarifier and other rear mounted attachments. NOTE: This cannot be used in conjunction with counterweight, any front lift work tools,or the 'installed' hydraulic front lift. It can be used with a not installed hydraulic front lift CANNOT BE USED WITH: COUNTERWEIGHT CANNOT BE USED WITH: LIFT GROUP, MANUAL, FRONT (Installed)		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

WORK TOOLS (CONT.)

WORK TOOLS (Cont.)

L	312-2204	**LIFT GROUP, MANUAL, FRONT**	1,500 1,500	**$11,030** **$11,030 NI**

Front hydraulic lift without any work tool attached.
Note: This Front Lift Group has manual locking pins.

INSTALLED COMPATIBILITY:
REQUIRES: MOUNTING, FRONT LIFT
REQUIRES: Hydraulics control part number that has front lift (FL) function
REQUIRED, to use Front Scarifiers
CANNOT BE USED WITH: PUSH PLATE
CANNOT BE USED WITH: COUNTERWEIGHT
CANNOT BE USED WITH: MID MOUNT SCARIFIER PACKAGE

(The Installed Manual Lift Group can be attached to the machine at the sametime as the mounting for the mid-mount scarifier, but not the actual scarifier itself).

NOTE: A Not-Installed Manual Lift Group can be ordered with an INSTALLED Push Plate or Counterweight. The not-installed lift group will be skidded, banded and shipped with the unit.

NOT INSTALLED COMPATIBILITY:
REQUIRES: MOUNTING, FRONT LIFT
REQUIRES: Hydraulics control part number that has front lift (FL) function

L	359-3925	**LIFT GROUP, FRONT MOUNTING**	10	**$442**

Two mounting plates welded to both sides of the front frame for factory or future installation of Front Lift.
REQUIRED BY: LIFT GROUP, MANUAL, FRONT

L	387-8664	**LINES, RIPPER, ADDITIONAL**	8	**$426**

For use with rear mounted auxiliary functions. Provides two hydraulic hoses with one end bundled at the rear of the machine and the other end bundled at the rear valve bank in front of the cab.
REQUIRES: Ripper Function
FOR USE WITH: BASE + 1 (RIP)
FOR USE WITH: BASE + 2 (FL, RIP)
FOR USE WITH: BASE+3 (FL,DA1,RIP)
FOR USE WITH: BASE+4 (WM,WT-FLOAT,FL,RIP)
FOR USE WITH: BASE+4 (WM,WT,FL,RIP) NOFLT
FOR USE WITH: BASE+3 (FL,MMS,RIP)
FOR USE WITH: BASE+5 (WM,WT,DA1,FL,RIP)
FOR USE WITH: BASE+6 (WM,WT,DA1,DA2,FL,RIP)

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

GROUND ENGAGING TOOLS

GROUND ENGAGING TOOLS

P	**8J-1434**	**TOOTH, STRAIGHT**	67 67	**$805** **$805 NI**
		NOTE AVAIALABLE for use as NOT INSTALLED ONLY with Miscellaneous order for RIPPER-SCARIFIER, REAR using 0P-2975 160M3 AWD MISC MATERIAL Ripper tooth group for rear ripper. Includes one straight shank with ripper tooth. Recommended order quantity of 2 ONLY FOR USE WITH:		
P	**4K-3330**	**SHANKS/TEETH, RIPPER/SCARIFIER**	152 152	**$1,404** **$1,404 NI**
		NOTE AVAIALABLE for use as NOT INSTALLED ONLY with Miscellaneous order for RIPPER-SCARIFIER, REAR using 0P-2975 160M3 AWD MISC MATERIAL Nine shanks for ripper and scarifier combination. Utilizes the scarifier shank positions on a ripper and scarifier combination. Will work with a midmount scarifier ONLY FOR USE WITH: RIPPER/SCARIFIER		

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

FIELD INSTALLED ATTACHMENTS

Please refer to the Caterpillar Work Tools Price List (WT-MG)
for Motor Grader work tools.

Available Through Parts Distribution

Reference numbers below are kits used to upgrade existing motor graders with new features or technology

463-6258 KIT, JOYSTICK,ADVANCED CONTROL
Improves operational efficiency when utilizing ACCUGRADE or GRADE CONTROL X SLOPE.
Estimated install Hours: 2.5
Special Instructions: REHS8847

442-8145 KIT, ACCUMULATOR, BLADE LIFT
Provides hydraulic lines for base functions and accumulators for the blade lift. Allows approximately 1-3" of vertical blade travel to reduce impact loads. Nitrogen/oil accumulators activated by electric switch.
Estimated install Hours: 8
Special Instructions: REHS4230

466-5233 KIT, EXTENSIONS, MIRROR HEATED
9" extension from Current Mirror, adds 2 additional mirrors 1 for front visibility and 1 rear visibility. Heated to keep free of ice and snow in cold weather
Estimated install Hours: 2

466-5255 KIT, EXTENSIONS, MIRROR STD
9" extension from Current Mirror, adds 2 additional mirrors, 1 for front visibility and 1 rear visibility
Estimated install Hours: 2

524-8603 KIT,LEFT HAND BLADE EXTENSION
24" x 24" x 7/8" - Left Hand Blade Extension Kit for use with 12 ft. and 14 ft. Basic Moldboards.
Estimated install Hours: 1.5

524-8604 KIT,LEFT HAND BLADE EXTENSION
24" x 27" x 1" - Left Hand Blade Extension Kit for use with 14 ft. Plus Moldboard.
Estimated install Hours: 1.5

524-8605 EXTENSION, BLADE, 24" RH
24" x 24" x 7/8" - Right Hand Blade Extension Kit for use with 12 ft. and 14 ft. Basic Moldboards.
Estimated install Hours: 1.5

524-8606 EXTENSION, BLADE, 24" RH
24" x 27" x 1" - Right Hand Blade Extension Kit for use with 14 ft. Plus Moldboard.
Estimated install Hours: 1.5

524-8607 KIT, SPARE RIM
14" x 25" AWD MP Spare Rim - for use on rear of AWD Machine
Estimated install Hours: 0.5

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	LIST PRICE AT DEALER

FIELD INSTALLED ATTACHMENTS (CONT.)

Available Through Parts Distribution (Cont.)

524-8608 **KIT, SPARE RIM**
14" x 25" AWD MP Spare Rim - for use on front of AWD Machine
Estimated install Hours: 0.5

524-8609 **KIT, SPARE RIM**
10" x 24" AWD MP Spare Rim - for use on rear of AWD Machine
Estimated install Hours: 0.5

524-8610 **KIT, SPARE RIM**
10" x 24" AWD MP Spare Rim - for use on front of AWD Machine
Estimated install Hours: 0.5

488-2192 **KIT, CIRCLE SAVER**
Circle Saver
Estimated install Hours: 0.5
Special Instructions: REHS4230

434-1068 **KIT, FENDERS, FRONT**
12/140/160M3 AWD Front Fender Kit

434-1066 **KIT, FENDERS, REAR**
160M3 Rear Fender Kit

380-3889 **KIT, HEATED GLASS, RH DOOR**
Right Hand Heated Door Glass
Special Instructions: REHS7154

380-3885 **KIT, HEATED GLASS,WIDE FRONT**
Wide Front Heated Glass
Special Instructions: REHS7155

380-3886 **KIT, HEATED GLASS,NARROW FRONT**
Narrow Front Heated Glass
Special Instructions: REHS7155

473-5233 **KIT, STORAGE, CAB**
12/140/160M3 Cab Storage Kit

PACKING

MACHINE PACKING (Must Select One)

0P-0251	**DOMESTIC TRUCK**	0	**NC**
0P-6645	**BUNDLED, LESS TIRES** Ships less tires. Rims ship on a separate skid.	0	**$1,175 NET**

ATTACHMENT PACKING

0P-0210	**PACK, DOMESTIC TRUCK** Use for miscellaneous material orders.	0	**NC**
0P-1935	**BUNDLED FRONT LIFT GROUP** Required when ordering the Not Installed Lift Group,Manual,Front REQUIRED BY: LIFT GROUP, MANUAL, FRONT NI	0	**$1,175**

160M3 MOTOR GRADER
PIRACICABA, BRAZIL

	Ship Weight lbs	LIST PRICE AT DEALER

Standard Equipment:

POWERTRAIN

Air cleaner, dual stage dry type radial seal with service indicator and automatic dust ejector
Air-to-air after cooler (ATAAC)
Belt, serpentine, automatic tensioner
Brakes, oil disc, four-wheel, hydraulic
Demand fan, hydraulic
Differential, lock/unlock, Automatic
Drain, engine oil, ecology
Electronic over-speed protection
Engine:
-C9 with ACERT technology, diesel with automatic engine derate and idle control.
-EPA/ARB tier 4 final & EU stage
-IV certified engine & aftertreatment
Parking brake, multi-disc, sealed and oil cooled.
Sediment drain, fuel tank.
Tandem drive
Transmission, 8 speed forward and 6 speed reverse, power shift, direct drive
VHP plus (Variable Horse Power Plus)

ELECTRICAL

Alarm, back-up
Alternator, 150 ampere, sealed
Batteries, maintenance free, heavy duty, 1125 CCA
Breaker panel, ground accessible
Electrical hydraulic valves
Electrical system, 24V
Grade control ready (cab harness, software, electrical hydraulic valves, bosses and brackets)
Lights, reversing
Lights, roading, roof-mounted
Lights, stop and tail, LED
Starter, electric

OPERATOR ENVIRONMENT

Air Conditioning with heater
Articulation, automatic return to center
Centershift pin indicator
Display, digital speed and gear
Doors, left and right side with wiper
Gauge, machine level
Gauges (analog) inside the cab (includes fuel, articulation, engine coolant temp, engine RPM, and hydraulic oil temp, DEF/AdBlue)
Joystick, adjustable armrests
Joystick gear selection, hydraulic power steering hydraulic controls (right/left, blade lift w/ float position, blade sideshift and tip, circle drive, centershift, front wheel lean and articulation and steering)
Lights, night time cab
Messenger operator information system
Meter, hour, digital
Mirror, inside rearview, wide angle
Power Port, 12V
Radio Ready, Entertainment
ROPS cab, sound suppressed
- 69dB(A) - ISO 6394
Seat,cloth-covered, comfort suspension
Storage area for cooler/lunchbox
Throttle control, electronic
Windows laminated glass:
-Fixed front with intermittent wiper
-Side and rear (3)
Windows tempered:
-Left and right side wipers
-Rear with intermittent wiper
Cab storage

SAFETY AND SECURITY

Clutch, circle drive slip
Doors, 2 engine compartment, (two left hand, two right hand) locking
Doors, 2 service, left and right locking
Ground level engine shutdown
Hammer (emergency exit)
Horn, electric
Lockout, hydraulic implement (for roading and servicing)
Seat belt, retractable 76.2 (3")
Secondary steering
Tandem walkway/guards

TIRES, RIMS, AND WHEELS

A partial allowance for tires on 254mm x 609.6mm (10" x 24") multi-piece rims is included in the base machine price and weight.

FLUIDS

Antifreeze
Extended life coolant -35C/-30F

OTHER STANDARD EQUIPMENT

Accumulators -brake -dual certified
Drawbar,6 shoe w/replaceable wear strips
Fluid check, ground level
Fuel tank, 398 liters (105 gallon)
Ground level fueling
DEF/AdBlue tank, 21 liters (5.5 gallon)

160M3 MOTOR GRADER
PIRACICABA, BRAZIL

	Ship Weight lbs	LIST PRICE AT DEALER

OTHER STANDARD EQUIPMENT (CONT.)

Hydraulic lines for base functions
Pump, hydrailic, high capacity
(98cc / 15 cu in)
Radiator, cleanout access
(both sides with swing doors)
SOS ports - engine -hydraulic
-transmission -coolant -fuel
Tandem walkway/guards
Tool box
Debris guard

160M3 MOTOR GRADER PIRACICABA, BRAZIL	Ship Weight lbs	LIST PRICE AT DEALER

Lane 2 is reserved for the Base Order Management Program.
Please use Lane 2 when placing orders that are part of the Base Order Management Program.

160M3 MOTOR GRADER PIRACICABA, BRAZIL		Ship Weight lbs	LIST PRICE AT DEALER
384-4273	**160M3 MOTOR GRADER**	38,131	**$412,720**
	LANE 3 - AVAILABLE FROM AVAILABLE FROM PIRACICABA FACTORY		
0P-2980	**160M3 MISC MATL**	0	**NC**
	AVAILABLE FROM PIRACICABA FACTORY		

Only reference numbers that have the text
"ALSO AVAILABLE ON A MISCELLANOUS ORDER" can be used on a MISC order.

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

LANE SELECTION

	0P-9002	LANE 2 ORDER Only for dealers enrolled in the Base Orders Manamement (BOM) program.	0	NC
	0P-9003	LANE 3 ORDER	0	NC

REGIONAL PACKAGES

L	385-9294	GLOBAL ARRANGEMENT Provides standard brake accumulators. For use in temperatures above -18C CANNOT BE USED WITH: WEATHER, COLD PLUS	0	NC
L	385-9297	GLOBAL ARRANGEMENT,LOW AMBIENT Provides brake accumulators for low ambient temperatures below -18C CANNOT BE USED WITH: EU dealers CANNOT BE USED WITH: WEATHER, STANDARD	0	NC

PERFORMANCE PACKAGES

MOLDBOARDS

L	349-3046	MOLDBOARD, 12′ INCLUDES: - Moldboard 12’ x 24" x 7/8" (3658mm x 610mm x 22mm) - Curved Cutting Edge, 6" X 5/8" (152mm x 16mm) - End Bits, Standard, Without Overlay	0	NC
L	349-3047	MOLDBOARD, 14′ BASIC INCLUDES: - Moldboard 14’ x 24" x 7/8" (4267mm x 610mm x 22mm) - Curved Cutting Edge, 8" x 3/4" (203mm x 19mm) - End Bits, Standard, Without Overlay	347	$1,140
L	349-3048	MOLDBOARD, 14′ PLUS INCLUDES: - Moldboard 14’ x 27" x 1" (4267mm x 686mm x 25mm) - Curved Cutting Edge, 8" x 3/4" (203mm x 19mm) - End Bits, Standard, With Overlay	650	$2,710
L	350-0678	MOLDBOARD, 16 FT INCLUDES: - Moldboard 16’ x 27" x 1" (4877mm x 686mm x 25mm) - Curved Cutting Edge, 8" x 3/4" (203mm x 19mm) - End Bits, Standard, With Overlay	1,040	$7,080

WORK TOOLS

L	393-4882	NO HITCH	0	NC
L	337-7510	HITCH, TOWING	0	$540

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

PERFORMANCE PACKAGES (CONT.)

WORK TOOLS (Cont.)

L	324-0889	**RIPPER/SCARIFIER**	2,120	$20,380
		NOTE NOT INSTALLED option is only for use with Miscellaneous orders using 0P-2972 160M3 MISC MATERIAL Hydraulic, rear mounted ripper with three straight ripper shanks. Can accommodate two additional ripper shanks and nine scarifier teeth which must be ordered separately. REQUIRES: A hydraulics control part number that has a ripper function. INCLUDES: Ripper Mounting		
L	539-6894	**RIPPER, SNOW WING READY**	0	$23,830
		FOR USE IN LANE 3 ONLY Hydraulic, rear mounted ripper with three straight ripper shanks. Includes the mount for the Caterpillar Mastless Snow Wing on the right side of the ripper backplate. Can accommodate two additional ripper shanks, nine scarifier teeth, and the Caterpillar Mastless Snow wing which must be ordered separately. CANNOT BE USED WITH: Legacy Snow Wings		

WEATHER PACKAGES

L	353-3316	**WEATHER, STANDARD**	0	NC
		Recommended for year around use when typical ambient temperature range is 0 degrees C (32 degrees F) to 43 degrees C (110 degrees F) and operating at altitude below 1220 m (4000 feet). INCLUDES: - Batteries, Heavy Duty - 1125 CCA - Oil, Hydraulic, 10W FOR USE WITH: GLOBAL ARRANGEMENT FOR USE WITH: EUROPEAN ARRANGEMENT FOR USE WITH: EUROPEAN AR. W/ ROADING (TUV) CANNOT BE USED WITH: GLOBAL ARRANGEMENT,LOW AMBIENT		
L	394-4521	**COLD WEATHER PACKAGE**	0	$760
		Recommended for year around use when typical ambient temperature range is 0 degrees C (32 degrees F) to 43 degrees C (110 degrees F) and operating at altitude below 1220 m (4000 feet). INCLUDES: - Starting Aid, Ether - Batteries, Extreme Duty -1400 CCA - Oil, Hydraulic, 10W FOR USE WITH: GLOBAL ARRANGEMENT FOR USE WITH: GLOBAL ARRANGEMENT,LOW AMBIENT FOR USE WITH: CANADIAN ARRANGEMENT FOR USE WITH: EUROPEAN ARRANGEMENT FOR USE WITH: EUROPEAN AR. W/ ROADING (TUV)		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

PERFORMANCE PACKAGES (CONT.)

WEATHER PACKAGES (Cont.)

L	394-4522	**COLD WEATHER PLUS PACKAGE**	38	$3,005

REQUIRES:
STARTER, ELECTRIC, HEAVY DUTY or STARTER, ELEC, HEAVY DUTY(TUV)
Recommended for year around use when typical ambient temperature range is -40 degrees C (-40 degrees F) to 40 degrees C (104 degrees) or operating at altitude above 1220 m (4000 feet).
INCLUDES:
- Starting Aid, Ether
- Cold Start; Transmission oil and fan brake bypass
- Batteries, Extreme Duty -1400 CCA
- Oil, Hydraulic, Cold, 0W

REQUIRES:
HEATER, ENGINE COOLANT, 120V or HEATER, ENGINE COOLANT, 240V
REQUIRED BY: SNOW ARRANGEMENT
FOR USE WITH: GLOBAL ARRANGEMENT,LOW AMBIENT
FOR USE WITH: CANADIAN ARRANGEMENT
FOR USE WITH: EUROPEAN ARRANGEMENT
FOR USE WITH: EUROPEAN AR. W/ ROADING (TUV)
CANNOT BE USED WITH: GLOBAL ARRANGEMENT

ACCUMULATORS

L	305-2927	**LINES,STANDARD W/O ACCUMULATOR**	0	NC

Provides hydraulic lines for base functions

L	358-9338	**ACCUMULATORS, BLADE LIFT**	170	$4,665

Provides hydraulic lines for base functions and accumulators for the blade lift. Allows approximately 1-3" of vertical blade travel to reduce impact loads. Nitrogen/oil accumulators activated by electric switch.
CANNOT BE USED WITH: Canadian Dealers.

PRECLEANER

L	380-6774	**PRECLEANER, NON SY-KLONE**	0	NC

Includes dust ejector for medium to heavy dust environments.

L	380-6775	**PRECLEANER, SY-KLONE**	5	$750

Recommended for environments with large degris (leaves, chips, large grass, etc.)

POWERTRAIN

OIL CHANGE

L	324-5328	**DRAIN, GRAVITY, ENGINE OIL**	0	NC

Standard engine oil drain

L	501-1163	**DRAIN, HIGH SPEED, ENGINE OIL**	0	$286

High speed engine oil drain. Requires pump at service location to be attached to coupling receiver for high speed flow.
HSO drain can also manual/gravity drain.

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS

NOTE: Optional Control Locations

Caterpillar offers many attachment hydraulic controls to operate work tools. Depending on which hydraulic part number is selected, the operating electro-hydraulic switches may include the auxiliary pod, mini-joystick located on the auxiliary pod, and/or the ripper control pod.

NOTE: Auxiliary controls that can have float

Auxiliary Pod Controls

```
INDEX = Index Finger (front lift)(float capability)
MID = Middle Finger(dozer angle 1)
RING = Ring Finger (dozer angle 2)
LITTLE= Little Finger (float capability)
```

NOTE: Mini-Joystick

```
 Fore/Aft
     .
    / \
     |
<--------->  Left/Right (float capability)
     |
    \ /
     .
```

NOTE: Ripper Control Pod

```
RH1   =  Front Lift (float capability)
RH2   =  Ripper-Scarifier Control
RHD   =  Ripper Handle Dual Switch (RH1 & RH2)
```

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

NOTE: Common Functions

COMMON FUNCTIONS:

Base = 8 functions: right and left blade lift, circle turn, drawbar center shift, blade side shift, blade tip, front wheel lean, frame articulation.

```
     FL      = Front Lift (moves front work tools up/down)
     DA1     = Dozer Angle 1 (angles front blade left OR right)
     DA2     = Dozer Angle 2 (angles front blade left AND right)
     RIP     = Rear Mounted Ripper (moves ripper up/down)
     MMS     = Mid-Mounted Scarifier
     WM      = Wing Mast
     WT      = Wing Tilt
     Float   = Built-in feature of valve section that opens both the
               work ports to tank. The external forces (weight of the
               work ports to tank. The external forces (weight of the
                implement) allows free movement of the implement.
     Flow Rate=Provides maximum rate of fluid flow from the specific
                work port.  B/A represents the maximum flow rate in
                Port B/Port A* in LPM (liters per minute).

 *NOTE: Each valve section has two work ports (Port A and Port B).
     Port A:  Used to either raise implement or move implement to the
     right or for clockwise rotation of the implement.
     Port B:  Used to either lower implement or move implement to the
     left or for counter-clockwise rotation of the implement.
```

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

HYDRAULIC VALVE LOCATIONS

This illustration shows the factory installed switch location for each function by hydraulic part number.

Part Number	MINI-JOYSTICK Front Aft	MINI-JOYSTICK Left/ Right Float	MINI-JOYSTICK Index with Float	AUXILIARY POD Mid	AUXILIARY POD Ring	AUXILIARY POD Little	RIPPER POD RHD RH1	RIPPER POD RHD RH2
242-5056								
385-8094								RIPPER
Float:								N
Flow rate:								49/49
354-4113								MID-MOUNT SCARIFIER
Float:								Y
Flow Rate:								25/36
309-9848							FR.LIFT	
Float:							Y	
Flow Rate:							46/60	
385-8095							FR.LIFT	RIPPER
Float:							Y	N
Flow rate:							46/60	49/49
395-2008	MAST	TILT	FR.LIFT					
Float:	N	N	Y					
Flow rate:	72/72	41/30	46/60					
385-8096			FR.LIFT	DA1				RIPPER
Float:			Y	N				N
Flow rate:			46/60	72/72				49/49
385-8099	MAST	TILT	FR.LIFT					RIPPER
Float:	N	Y	Y					N
Flow rate:	72/72	74/86	46/60					49/49
385-8100	MAST	TILT	FR.LIFT					RIPPER
Float:	N	N	Y					N
Flow rate:	72/72	41/30	46/60					49/49
395-2009	MAST	TILT	FR.LIFT	DA1	MID-MOUNT SCARIFIER			
Float:	N	N	Y	N	N			
Flow rate:	72/72	41/30	46/60	72/72	25/36			

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

HYDRAULIC VALVE LOCATIONS LANE 3 ONLY

Part Number	MINI-JOYSTICK Front Aft	MINI-JOYSTICK Left/ Right Float	AUXILIARY POD Index with Float	AUXILIARY POD Mid	AUXILIARY POD Ring	AUXILIARY POD Little	RIPPER POD RH1	RIPPER POD RH2
385-8097			FR.LIFT	MID-MOUNT SCARIFIER				RIPPER
Float:			Y	N				N
Flow rate:			46/60	25/36				49/49
385-8101	MAST	TILT	FR.LIFT	DA1				RIPPER
Float:	N	N	Y	N				N
Flow rate:	72/72	41/30	46/60	72/72				49/49
385-8103	MAST	TILT	FR.LIFT	DA1	DA2			RIPPER
Float:	N	N	Y	N	N			N
Flow rate:	72/72	41/30	46/60	72/72	72/72			49/49
481-8610	MAST	TILT	FR.LIFT	DA1	DA2			RIPPER
Float:	N	Y	Y	N	N			N
Flow rate:	72/72	74/86	46/60	72/72	72/72			49/49

HYDRAULIC VALVE PART NUMBERS

L	242-5056	**HYDRAULICS, BASE** . . . . . 0 Base hydraulic system includes machine articulation, wheel lean, left and right blade lift with independent float, drawbar centershift, circle drive, blade sideshift and tip.		NC
L	385-8094	**BASE + 1 (RIP)**. . . . . 21 Ripper function. Includes the Ripper Lines. ONLY FOR USE WITH: RIPPER-SCARIFIER, REAR		$2,300
L	354-4113	**BASE + 1 (MMS)** . . . . . 21 Mid-Mount Scarifier function. Includes the Mid-Mount Scarifier Lines. ONLY FOR USE WITH: MID MOUNT SCARIFIER PACKAGE		$2,300
L	309-9848	**BASE + 1 (FL)**. . . . . 18 Front Lift function. Includes the Front Lift Lines. ONLY FOR USE WITH: LIFT GROUP, MANUAL, FRONT		$1,890
L	385-8095	**BASE + 2 (FL,RIP)** . . . . . 37 Ripper and Front Lift functions. Includes the Front Lift Lines and Ripper Lines. ONLY FOR USE WITH: LIFT GROUP, MANUAL, FRONT RIPPER-SCARIFIER, REAR		$4,085
L	395-2008	**BASE + 3 (WM,WT-NOFLOAT,FL)** . . . . . 60 Front Lift, Snow Wing Mast, and Snow Wing Tilt ONLY FOR USE WITH: SNOW ARRANGEMENT LIFT GROUP, MANUAL, FRONT		$6,540
L	385-8096	**BASE + 3 (FL,DA1,RIP)** . . . . . 67 Ripper, Front Lift and Angle functions. Includes the Front Lift Lines Dozer Angle 1 Lines, and Ripper Lines. ONLY FOR USE WITH: LIFT GROUP, MANUAL, FRONT RIPPER-SCARIFIER, REAR		$7,460

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

HYDRAULIC VALVE PART NUMBERS (Cont.)

L	385-8099	**BASE + 4 (WM,WT-FLOAT,FL,RIP)**	85	$8,960
		Ripper, Front Lift, Snow Wing Mast and Snow Wing Tilt (74/86 with float) functions. Includes the Front Lift Lines and Ripper Lines. ONLY FOR USE WITH: SNOW ARRANGEMENT LIFT GROUP, MANUAL, FRONT RIPPER-SCARIFIER, REAR		
L	385-8100	**BASE + 4 (WM,WT,FL,RIP) NOFLT**	85	$8,700
		Ripper, Front Lift, Snow Wing Mast and Snow Wing Tilt (41/30 - No Float) functions. Includes the Front Lift Lines and Ripper Lines. ONLY FOR USE WITH: SNOW ARRANGEMENT LIFT GROUP, MANUAL, FRONT RIPPER-SCARIFIER, REAR		
L	395-2009	**BASE + 5 (WM,WT,DA1,FL,MMS)**	120	$10,790
		Snow Wing Mast, Snow Wing Tilt (41/30 - No Float) functions, Dozer Angle 1, Front LIFT, and Mid-Mount Scarifier Includes the Front Lift Lines, Angle 1 Lines, and Mid-Mount Scarifier Lines. ONLY FOR USE WITH: SNOW ARRANGEMENT LIFT GROUP, MANUAL, FRONT MID MOUNT SCARIFIER PACKAGE		

HYDRAULIC VALVE PART NUMBERS LANE 3 ONLY

L	385-8097	**BASE+3 (RIP, MMS, FL)**	67	$7,460
		FOR USE IN LANE 3 ONLY Front Lift, Ripper and Mid-Mount Scarifier functions. Includes the Front Lift Lines, Ripper Lines and Mid-Mount Scarifier Lines. ONLY FOR USE WITH: LIFT GROUP, MANUAL, FRONT RIPPER-SCARIFIER, REAR MID MOUNT SCARIFIER PACKAGE		
L	385-8101	**BASE + 5 (WM,WT,DA1,FL,RIP)**	120	$10,790
		Snow Wing Mast, Snow Wing Tilt (41/30 - No Float) functions, Dozer Angle 1, Front LIFT, and Ripper. Includes the Front Lift Lines, Angle 1 Lines, and Ripper Lines. ONLY FOR USE WITH: SNOW ARRANGEMENT MOUNT, SNOW WING, FRAME READY LIFT GROUP, MANUAL, FRONT RIPPER-SCARIFIER, REAR		
L	385-8103	**BASE + 6(WM,WT,DA1,DA2,FL,RIP)**	130	$13,350
		FOR USE WITH: Lane 3 only. Ripper, Dozer Angle 1, Dozer Angle 2, Front Lift, Snow Wing Mast and Snow Wing Tilt (41/30 - No Float) functions. Includes the Front Lift Lines, Dozer Angle 2 Lines and Ripper Lines. ONLY FOR USE WITH: SNOW ARRANGEMENT MOUNT, SNOW WING, FRAME READY LIFT GROUP, MANUAL, FRONT RIPPER-SCARIFIER, REAR		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

HYDRAULICS (CONT.)

HYDRAULIC VALVE PART NUMBERS (Cont.)

L	481-8610	**BASE + 6(WM,WT + F,DA1,DA2,FL,RIP)**	130	$13,620
		FOR USE IN LANE 3 ONLY Ripper, Dozer Angle 1, Dozer Angle 2, Front Lift, Snow Wing Mast and Snow Wing Tilt (72/72 + Float) functions. Includes the Front Lift Lines, Dozer Angle 2 Lines and Ripper Lines. ONLY FOR USE WITH: SNOW ARRANGEMENT MOUNT, SNOW WING, FRAME READY LIFT GROUP, MANUAL, FRONT RIPPER-SCARIFIER, REAR		

STARTERS, BATTERIES, & ALTERNATORS

STARTER ARRANGMENT

L	394-3945	**STARTER, ELECTRIC, HEAVY DUTY**	0	NC
		Provides a 1000 Amp. starter		
L	395-3547	**STARTER, ELEC, EXTREME DUTY**	21	$408
		Recommended for Cold weather applications Provides a 1000 Amp. starter		

ELECTRICAL

BRAKE LIGHTS

L	331-6793	**LIGHTS, BRAKE AND BACK-UP**	0	NC
		Provides stationary rear brake lights along with the back-up lights. Does not include front headlights or turn signals CANNOT BE USED WITH: 526-2563 EUROPEAN ARRANGEMENT 394-3871 EUROPEAN AR. W/ROADING (TUV) 396-1966 SNOW ARRANGEMENT 553-2588 HEADLIGHTS, FRONT, LOW, LED or 553-2589 HEADLIGHTS, FRONT, HIGH, LED or 308-9370 HEADLIGHTS,FRONT, LOW, HALOGEN or 308-9371 HEADLIGHTS,FRONT, HIGH,HALOGEN		
L	536-9969	**LIGHTS, ARM, FOLD DOWN**	0	$1,875
		Provides stationary rear brake lights along with the back-up lights, dimmer switch for road lighting, drop-down stop, tail, and rear turn signals and back-up lights. REQUIRES: 553-2588 HEADLIGHTS, FRONT, LOW, LED or 553-2589 HEADLIGHTS, FRONT, HIGH, LED or 308-9370 HEADLIGHTS,FRONT, LOW, HALOGEN or 308-9371 HEADLIGHTS,FRONT, HIGH,HALOGEN INCLUDED IN: 396-1966 SNOW ARRANGEMENT		

ROADING LIGHTS

L	421-7810	**LIGHTS, ROADING, HALOGEN**	0	NC
		Provides six halogen cab roof mounted roading lights.		
L	550-6608	**LIGHTS, ROADING, LED**	0	$1,245
		Provides six LED cab roof mounted roading lights.		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

OPERATOR ENVIRONMENT

CAB EXTERIOR

L	385-9553	**CAB, BASE (STANDARD GLASS)**	0	NC
		INCLUDES: - 150 amp alternator - Standard Glass CANNOT BE USED WITH: SNOW ARRANGEMENT CANNOT BE USED WITH: EUROPEAN ARRANGEMENT CANNOT BE USED WITH: EUROPEAN AR. W/ ROADING (TUV)		
L	385-9554	**CAB, PLUS (STANDARD GLASS)**	35	$1,105
		INCLUDES: - 150 amp alternator - Wiper/washer, rear - Standard Glass		
L	385-9555	**CAB, PLUS (ANTI-ICING GLASS)**	35	$6,630
		INCLUDES: - 270 amp alternator - Wiper/washer, rear - Front glass and RH door glass are heated.		

CAB INTERIOR

Bluetooth radio technology enables the use of a hands free function such as listening to music and making phone calls.
Authorization varies by country, please contact your Cat marketing representative with questions or click on the link below:
https://dealer.cat.com/en/products/technology.html

L	397-7456	**CAB, BASE (INTERIOR)**	0	NC
		INCLUDES: - Seat, mechanical suspension, cloth - Shade, Sun CANNOT BE USED WITH: SNOW ARRANGEMENT CANNOT BE USED WITH: EUROPEAN ARRANGEMENT CANNOT BE USED WITH: EUROPEAN AR. W/ ROADING (TUV)		
L	397-7457	**CAB, PLUS (INTERIOR)**	45	$3,010
		INCLUDES: - Seat, Air Suspension, Cloth, Heated - Radio,12V, AM/FM, Weatherband, Bluetooth, USB, Aux Input Available to countries with bluetooth certification. Please contact your Cat marketing representative if you have questions. - Fan, defroster, rear window - Converter, Communication (CB) - Shade, Sun		
L	397-7458	**CAB, PREMIUM (INTERIOR)**	80	$4,580
		- Seat, air suspension, cloth; Heated, Ventilated - Radio,12V, AM/FM CD/MP3 Bluetooth, Weatherband, USB, Aux Input XM/Sirius Satellite Available to countries with bluetooth certification. Please contact your Cat marketing representative if you have questions. - Fan, defroster, rear window - Converter, Communication (CB) - Shade, Sun *Recommended for Snow Removal		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

OPERATOR ENVIRONMENT (CONT.)

SEAT BELT

L	394-1492	**SEAT BELT**	0	NC
		Standard 3 inch seat belt		
L	394-1132	**SEAT BELT W/INDICATOR**	5	$193
		Standard 3 inch seat belt with indicator located on display panel		

TECHNOLOGY PRODUCTS

PRODUCT LINK

Product Link enables the remote transmission of information aboutntly the location, operation, and condition of your equipment. Efficiently and effectively monitor the performance of your assets to help keep your jobs on schedule, maintain equipment condition, and reduce the costs of owning and operating your fleet. Availability varies byon country - please reference https://Dealer.cat.com/PL/Certification for certified countries. Please contact your Caterpillar marketing representative with questions.

L	464-6804	**PRODUCT LINK, SATELLITE PLE631**	29	$432
		Product Link Elite series PLE631 uses a satellite network to transmit location, utilization and condition information for viewing in Product Link's remote monitoring web interface. For use in areas with poor or no cellular coverage.		
L	464-6442	**PRODUCT LINK, CELLULAR PLE641**	29	NC
		Product Link Elite series PLE641 offers expanded coverage including 3G UMTS and CDMA2000 as well as 2G GSM and CDMA cellular networks to transmit location, utilization and condition information f viewing in Product Link-s remote monitoring web interface. Cellular technology provides capabilities for frequent transmission and larger volumes of data.		

ACCUGRADE

L	362-5222	**NO ACCUGRADE**	0	NC
L	462-7928	**INSTALLATION, ACCUGRADE READY**	90	$4,830
		Allows the Motor Grader to be equipped with either a Cross Slope, Sonic, Laser, GPS, or ATS electronics kit. Provides software, harnesses for sensors, mounting for sensors and blade mast bracket.		

NOTE: Highly recommended to select Advanced Joystick Controls. This will Allow for complete configuration and control when using 3 party grade control systems

L	462-7929	**GRADE CONTROL X SLOPE**	165	$11,060
		Allows the operator to manually control one end of the blade to match the curb or crown while automatically maintaining the desired slope of the blade. This system is used to maintain the crown of a gravel road or the shoulder of a road. Provides cab switches, software, harnesses for sensors, mounting for sensors and blade mast bracket. Accugrade Ready is included in this option REQUIRES: JOYSTICK CONTROLS, ADVANCED INCLUDED IN: 492-3594 CONTROLS, PERFORMANCE BUNDLE		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

TECHNOLOGY PRODUCTS (CONT.)

MOTOR GRADER CONTROLS

L	357-9151	**JOYSTICK CONTROLS, BASIC**	6	NC
		Standard joystick controls.		
L	458-8701	**JOYSTICK CONTROLS, ADVANCED**	8	$2,030
		Provides enhanced functionality while using ACCUGRADE READY or GRADE CONTROL X SLOPE INCLUDES: - Advanced Joysticks - Harness - Films REQUIRED BY: GRADE CONTROL X SLOPE. RECOMMENDED FOR USE WITH: ACCUGRADE READY INCLUDED IN: 492-3594 CONTROLS, PERFORMANCE BUNDLE		

CONTROL AUTO ARTICULATION

L	483-2354	**CONTROL,AUTO ARTICULATION-DEMO**	0	NC
		500 machine hour demo. Improves ease of operation, increases maneuverability and maximizes productivity by automatically matching articulation angle to steering angle. Includes 3 position rocker switch enabling 3 modes; off / forward / both forward and reverse.		
L	435-2072	**CONTROL,AUTO ARTICULATION-FULL**	0	$1,810
		Improves ease of operation, increases maneuverability and maximizes productivity by automatically matching articulation angle to steering angle. Includes 3 position rocker switch enabling 3 modes; off / forward / both forward and reverse.		

FUEL SYSTEMS

L	540-2373	**TANK, FUEL, STANDARD**	0	NC
		Standard Fuel 105 gallon (398 L)		
L	553-3677	**TANK, FUEL, FAST FILL**	0	$1,410
		Fuel tank is ready to accept fast fill 100 gpm nozzle. Tank capacity is 105 gallons (398 L)		

COOLING

COOLING FAN

L	542-4660	**FAN, STANDARD**	0	NC
		Provides a hydraulically driven demand fan		
L	542-4661	**FAN, REVERSING**	0	$3,105
		Provides a hydraulically driven demand fan that can reverse direction to prevent debris build up on the cooling package and engine enclosure. Includes automatic and manual controls for airflow reversal. Recommended for applications with a high content of airborne debris.		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

TIRES, RIMS, AND WHEELS

Tires listed below include a set of six tires.
****To calculate tire loads with machine attachments, please reference the MG Tire Selection Pocket Guide (media #AEXQ0182), available on the Electronic Sales Library.**
All tire selections should be made with consideration for planned machine attachments (OEM and aftermarket) and their additional weight. Each tire has a maximum load rating that is not to be exceeded. The tire selection should be based on the maximum of all tire position loads on the machine. Assistance for calculating the highest tire load can be found in the Tire Load Worksheet in the back of the Caterpillar Motor Graders Tire Selection Pocket Guide. Failure to abide by the load ratings of the tires without first consulting the local tire supplier representative could result in nullification of the tire warranty.

Due to industry-wide tire availability limitations, tire brand and type cannot be guaranteed. Every effort will be made to satisfy your tire choice, but we reserve the right to change to alternate tires. If the tire brand cannot be supplied, the dealer will be contacted to propose alternative tire options. The dealer will need to respond with an alternative tire selection within 72 hours. If no response is provided by the supplier, the order will default to a comparable tire. As a consequence of a tire change the total machine price will be decreased or increased relative to the price of the new tire selection.

The information provided can be used to make a tire selection based on the particular conditions at the site. When available, the tire manufacturer should be consulted regarding proper tire selection.

APPLICATION SPECIFIC TIRES

L	515-5399	**TIRES,14.0R24 SOIL TRACTION MP**	0	$5,970
		Tire group received will be one of the tire groups listed below: - Bridgestone VKT 1* on 10" x 24" multi-piece rims. - Michelin XGLA2 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	515-5400	**TIRES,17.5R25 SOIL TRACTION MP**	0	$12,450
		Tire group received will be one of the tire groups listed below: - Bridgestone VKT 1* on 14" x 25" multi-piece rims. - Michelin XTLA 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

TIRES, RIMS, AND WHEELS (CONT.)

Bridgestone

L	252-0714	**TIRES, 14.0 R24 BS VKT * G2**	1,540	**$6,970**
		Bridgestone VKT 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	252-0720	**TIRES, 14.0R24 BS VUT * L2 MP**	1,012	**$7,250**
		FOR USE IN LANE 3 ONLY Bridgestone VUT 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	252-0775	**TIRES, 17.5R25 BS VKT * D2A MP**	1,810	**$13,450**
		Bridgestone VKT 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	252-0708	**TIRES, 14.0R24 BS VSW * G2 MP**	1,481	**$13,320**
		FOR USE WITH LANE 3 ONLY Bridgestone VSW 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	310-7331	**TIRES, 17.5R25 BS VSW * G2 MP**	1,888	**$18,590**
		Bridgestone VSW 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		

Michelin

L	252-0701	**TIRES,14.0R24 MX XSNO+ * G2 MP**.....	1,282	**$14,890**
		FOR USE IN LANE 3 ONLY Michelin XSNO 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (7824 lbs) 3550 kg.**		
L	252-0679	**TIRES,14.0R24 MX XGLA2 * G2 MP**	1,069	**$10,860**
		Michelin XGLA2 1* on 10" x 24" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (7824 lbs) 3550 kg.**		
L	252-0777	**TIRES,17.5R25 MX XSNO+ * G2 MP**.....	1,093	**$20,490**
		FOR USE IN LANE 3 ONLY Michelin XSNO+ 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	252-0771	**TIRES, 17.5R25 MX XTLA * L2 MP**	1,371	**$16,110**
		FOR USE IN LANE 2 ONLY Michelin XTLA 1* on 14" x 25" multi-piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	254-7904	**TIRES,14.0R24 MX XGLA2 * G2 SP**	709	**$7,290**
		Michelin XGLA 1* on 9" x 24" single piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (7824 lbs) 3550 kg.**		
L	254-7971	**TIRES, 17.5R25 MX XTLA * L2 SP**	979	**$11,910**
		FOR USE IN LANE 2 ONLY Michelin XTLA 1* on 13" x 25" single piece rims. THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

TIRES, RIMS, AND WHEELS (CONT.)

Goodyear

L	310-7325	**TIRE, 17.5R25 GY RL2+6S 1*SP**	100	$20,590
		Goodyear RL2+ 6S on 13" x 25" multi-piece rims THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		
L	310-7326	**TIRE, 17.5R25 GY RL2+6S 1*MP**	1,200	$20,290
		Goodyear RL2+ 6S on 14" x 25" multi-piece rims THE TIRE MANUFACTURER DOES NOT RECOMMEND THIS TIRE FOR INDIVIDUAL TIRE LOADS EXCEEDING (8045 lbs) 3650 kg.**		

SHIPPING TIRES

L	440-3433	**TIRES, 17.5 SHIPPING, MP**	274	$2,250
		FOR USE WITH LANE 3 ONLY Shipping tire for use during shipment of machine only. Solid rubber band mounted on 14" x 25" multi-piece rims. Must be replaced with pneumatic tire before delivering to customer.		
L	448-5577	**TIRES, 14.0 SHIPPING, MP**	90	$2,000
		FOR USE WITH LANE 3 ONLY Shipping tire for use during shipment of machine only. Solid rubber band mounted on 10" x 24" multi-piece rims. Must be replaced with pneumatic tire before delivering to customer.		

GUARDS

Guards

L	323-6970	**GUARD GP, HITCH**	25	NC
		Standard bottom plate just rear of articulation hitch		
L	368-6239	**ARTICULATION GUARD**	30	$1,260
		Provides protection for the articulation rods from snow, dirt and Highly recommended for snow removal applications, or below freezing CANNOT BE USED WITH : SOUND SUPRESSION (BOTTOM)		

FLUIDS

ANTIFREEZE

L	469-8157	**COOLANT, 50/50, -35C (-31F)**	0	NC
		Standard engine coolant		
L	469-8160	**COOLANT, 60/40, -51C (-60F)**	0	$245 NET
		Engine coolant recommended for extreme low temperatures		

CAB ANTIFREEZE

	0P-1939	**ANTIFREEZE WINDSHIELD WASHER**	0	NC
		For use with machines with cab.		

FUEL ANTIFREEZE

	0P-3978	**FUEL ANTIFREEZE, -25C (-13F)**	0	NC
		Provides fuel (diesel) antifreeze protection down to -25C (-13F)		

USE	REF NO.	LANE 2 / 3 MANDATORY	Ship Weight lbs	LIST PRICE AT DEALER

DOCUMENTATION

LANGUAGE SELECTION

NOTE: This part number will provide the language for Messenger and Statement of Conformity

L	386-1254	LANGUAGE, ENGLISH	0	NC

DECAL PACKAGES

NOTE: This part number will provide the films in ANSI or ISO The word "WARNING" is on picto decals for ANSI. Symbols only are on picto decals for ISO.

L	442-9940	DECALS, ENGLISH (U.S.) Provides decals as required by ANSI.	0	NC

INSTRUCTIONS

CAB ANTIFREEZE

	0P-1939	ANTIFREEZE WINDSHIELD WASHER For use with machines with cab.	0	NC

FUEL ANTIFREEZE

	0P-3978	FUEL ANTIFREEZE, -25C (-13F) Provides fuel (diesel) antifreeze protection down to -25C (-13F)	0	NC

USE	REF NO.	LANE 2 / 3 OPTIONAL	Ship Weight lbs	LIST PRICE AT DEALER

FEATURE PACKAGES

REGIONAL OPTIONAL PACKAGES

L	396-1966	**SNOW ARRANGEMENT**	355	$6,460

INCLUDES:
361-3137 MOUNTING, WARNING LIGHT
396-3515 TRANSMISSION, AUTOSHIFT
536-9969 LIGHTS, ARM, FOLD DOWN
RECOMMENDED: MIRRORS, OUTSIDE HEATED
REQUIRES: 395-3547 STARTER, ELEC, EXTREME DUTY or
395-3745 STARTER, ELEC, EXTRM DUTY(TUV) and
394-4524 COLD WEATHER PLUS PACKAGE AWD and
385-9554 CAB, PLUS (STANDARD GLASS) or
385-9555 CAB, PLUS (ANTI-ICING GLASS) or
397-7457 CAB, PLUS (INTERIOR) or
397-7458 CAB, PREMIUM (INTERIOR) and
395-2008 BASE + 3 (WM, WT-NOFLOAT, FL) or
385-8099 BASE + 4 (WM, WT-FLOAT, FL, RIP) or
385-8100 BASE + 4 (WM, WT, FL, RIP) NOFLT or
395-2009 BASE + 5 (WM, WT, DA1, FL, MMS) or
385-8101 BASE + 5 (WM, WT, DA1, FL, RIP) or
385-8103 BASE + 6 (WM, WT, DA1, DA2, FL, RIP) or
481-8610 BASE + 6 (WM, WT+F, DA1, DA2, FL, RIP) and
390-9182 MOUNT,SNOW WING,FRAME RDY HAL or
551-6546 MOUNT,SNOW WING,FRAME RDY LED and
395-1967 LIGHTS, WORKING, PLUS, HALOGEN or
552-7285 LIGHTS, WORKING, PLUS, LED and
553-2588 HEADLIGHTS, FRONT, LOW, LED or
553-2589 HEADLIGHTS, FRONT, HIGH, LED or
308-9370 HEADLIGHTS,FRONT, LOW, HALOGEN or
308-9371 HEADLIGHTS,FRONT, HIGH,HALOGEN

WORK TOOL PACKAGES

L	358-9341	**MID MOUNT SCARIFIER PACKAGE**	2,076	$16,290

INCLUDES:
- Mid-mount Scarifier, V-Type with 11 Teeth
- MOUNT, MID-MOUNT SCARIFIER
CANNOT BE USED WITH: Any Front Lift group or
CANNOT BE USED WITH: FENDERS, FRONT, NON-AWD

WORK TOOL PACKAGES-SNOW WING MOUNT

L	390-9182	**MOUNT,SNOW WING,FRAME RDY HAL**	251	$2,295

INCLUDES:
- Snow Wing Mount
- Light, halogen Snow Wing, Right Hand
REQUIRED BY: SNOW ARRANGEMENT

L	551-6546	**MOUNT,SNOW WING,FRAME RDY LED**	0	$2,710

INCLUDES:
- Snow Wing Mount
- Light, LED Snow Wing, Right Hand
REQUIRED BY: Snow Arrangement

USE	REF NO.	LANE 2 / 3 OPTIONAL	Ship Weight lbs	LIST PRICE AT DEALER

FEATURE PACKAGES (CONT.)

LIGHTING PACKAGES

L	395-1966	**LIGHTS, WORKING, BASIC,HALOGEN**	19	$770
		INCLUDES: - Lights, halogen, Heel 3X3 - Lights, halogen, Midframe Toe 3X3 - Switch, Work Lighting		
L	395-1967	**LIGHTS, WORKING, PLUS, HALOGEN**	22	$1,035
		INCLUDES: - Lights, halogen, ripper 3X3 - Lights, halogen, work, heel 3X3 - Lights, halogen, work, midframe toe 3X3 - Switch, Work Lighting CANNOT BE USED WITH: LIGHTS, ROADING, LED MOUNT,SNOW WING,FRAME RDY LED REQUIRED BY: SNOW ARRANGEMENT		
L	552-7285	**LIGHTS, WORKING, PLUS, LED**	0	$2,590
		INCLUDES: - Lights, LED, ripper 3X3 - Lights, LED, work, heel 3X3 - Lights, LED, work, midframe toe 3X3 - Switch, work lighting CANNOT BE USED WITH: LIGHTS, ROADING, HALOGEN MOUNT,SNOW WING,FRAME RDY HAL REQUIRED BY: SNOW ARRANGEMENT		

OTHER OPTIONAL ATTACHMENTS

L	338-1132	**LIGHT, LED WARNING STROBE**	5	$565
		Amber high-speed strobe beacon. REQUIRES: MOUNTING, WARNING LIGHT		
L	361-3137	**MOUNTING, WARNING LIGHT**	10	$725
		Provides the bracket for warning beacon light INCLUDED IN: SNOW ARRANGEMENT		
L	396-3515	**TRANSMISSION, AUTOSHIFT**	5	$3,205
		Improves ease of operation and maximizes productivity by automatically shifting the transmission at optimal shift points. REQUIRED BY: EUROPEAN ARRANGEMENT REQUIRED BY: EUROPEAN AR. W/ ROADING (TUV) INCLUDED IN: SNOW ARRANGEMENT		
L	380-3070	**LIGHTS, SERVICE, INTERNAL**	5	$193
		Provides two lights operated by a single manual switch located in the rear enclosure. One light illuminates the engine compartment and the second light illuminates the hydraulic level sight gauge.		

USE	REF NO.	LANE 2 / 3 OPTIONAL	Ship Weight lbs	LIST PRICE AT DEALER

ELECTRICAL

FRONT HEADLIGHTS

L	308-9370	**HEADLIGHTS,FRONT, LOW, HALOGEN**	0	$640
		Provides low bar headlights with front turn signals. REQUIRED BY: 526-2563 EUROPEAN ARRANGEMENT 394-3871 EUROPEAN AR. W/ROADING (TUV) 536-9969 LIGHTS, ARM, FOLD DOWN CANNOT BE USED WITH: 396-1966 SNOW ARRANGEMENT		
L	308-9371	**HEADLIGHTS,FRONT, HIGH,HALOGEN**	0	$640
		Provides HIGH bar headlights with front turn signals. REQUIRED BY: 526-2563 EUROPEAN ARRANGEMENT or 394-3871 EUROPEAN AR. W/ROADING (TUV) or 536-9969 LIGHTS, ARM, FOLD DOWN or 396-1966 SNOW ARRANGEMENT		
L	553-2588	**HEADLIGHTS, FRONT, LOW, LED**	0	$1,365
		FOR USE IN LANE 3 ONLY Provides LOW bar LED headlights with front turn signals. CANNOT BE USED WITH: SNOW ARRANGEMENT ANY HALOGEN LIGHTING OPTION REQUIRED BY: LIGHTS,ARM, FOLD DOWN 526-2563 EUROPEAN ARRANGEMENT 394-3871 EUROPEAN AR. W/ROADING (TUV)		
L	553-2589	**HEADLIGHTS, FRONT, HIGH, LED**	0	$1,365
		FOR USE IN LANE 3 ONLY Provides HIGH bar LED headlights with front turn signals. CANNOT BE USED WITH: ANY HALOGEN LIGHTING OPTION REQUIRED BY: LIGHTS,ARM, FOLD DOWN SNOW ARRANGEMENT 526-2563 EUROPEAN ARRANGEMENT 394-3871 EUROPEAN AR. W/ROADING (TUV)		

OPERATOR ENVIRONMENT

CAMERA

L	396-3921	**CAMERA, REAR VISION**	15	$2,535
		Provides a 115 degree color camera mounted on the rear of the hood that is connected to a 7 inch (178mm) LCD color display mounted in the cab which shows the view behind the machine. REQUIRED BY: EUROPEAN ARRANGEMENT CAN NOT BE USED WITH: EUROPEAN AR. W/ ROADING (TUV) NOTE* EUROPEAN AR. W/ ROADING (TUV) includes front and rear facing cameras		

MIRRORS

L	233-3295	**MIRRORS, OUTSIDE MOUNTED**	32	$495
		Provides two convex mirrors for outside mounting on the left and right cab grab irons. NOTE: The mirrors are wrapped in bubble wrap and rotated toward the doors for protection during shipment. REQUIRED BY: EUROPEAN ARRANGEMENT EUROPEAN AR. W/ ROADING (TUV)		

USE	REF NO.	LANE 2 / 3 OPTIONAL	Ship Weight lbs	LIST PRICE AT DEALER

OPERATOR ENVIRONMENT (CONT.)

MIRRORS (Cont.)

L	344-0984	**MIRRORS, OUTSIDE HEATED 24V**	33	$670
		Provides mirrors with a 24V heating element to keep mirrors ice free in cold weather operations. NOTE: The mirrors are wrapped in bubble wrap and rotated toward the doors for protection during shipment. REQUIRED BY: EUROPEAN ARRANGEMENT EUROPEAN AR. W/ ROADING (TUV)		

TECHNOLOGY PRODUCTS

TECHNOLOGY PRODUCTS

L	393-6335	**SECURITY SYSTEM, MACHINE**	10	$720
		FOR USE IN LANE 3 ONLY Provides a programmable system to manage access to the machine using special MSS keys. Deters theft, vandalism, and unauthorized use. Programmable features allow the following: * limits operators to selected machines * controls the days and hours equipment may be started * controls access by untrained operators or personnel		
L	458-2072	**STABLE BLADE**	3	$2,470
		Provides sensor and software to automatically reduce engine speed in various applications to reduce machine bounce and scalloping of surface.		
L	492-3594	**CONTROLS, PERFORMANCE BUNDLE**	176	$15,560
		The Auto Articulation in this bundle is an unrestricted version, not limited to 500 hours. INCLUDES: 435-2072 CONTROL,AUTO ARTICULATION-FULL 458-2072 STABLE BLADE 458-8701 JOYSTICK CONTROLS, ADVANCED 462-7929 GRADE CONTROL X SLOPE		

GUARDS

GUARDS

L	367-6905	**GUARD, AXLE HOSE**	15	$1,075
		Provides additional protection to the front axle cylinders, lines, and fittings. *NOTE* NOT recommended for use with tire chains		
L	366-2459	**GUARD, TRANSMISSION**	310	$3,400
		Provides a steel guard to protect the transmission from ground debris. REQUIRED BY: SOUND SUPRESSION (BOTTOM) INCLUDED IN: EUROPEAN ARRANGEMENT EUROPEAN AR. W/ ROADING (TUV)		

USE	REF NO.	LANE 2 / 3 OPTIONAL	Ship Weight lbs	LIST PRICE AT DEALER

GUARDS (CONT.)

GUARDS (Cont.)

L	377-1602	**SOUND SUPPRESSION (BOTTOM)**	243	$2,095
		Provides two metallic side panels on either side of the transmission guard, enclosing the rear of the machine. This option prevents debris from accumulating on top of the transmission guard and also suppresses sound to meet EU sound regulations. REQUIRES: GUARD, TRANSMISSION REQUIRES: GUARD GP, HITCH INCLUDED IN: EUROPEAN ARRANGEMENT INCLUDED IN: EUROPEAN AR. W/ ROADING (TUV) CANNOT BE USED WITH: ARTICULATION GUARD		
L	546-0262	**SOUND SUPPRESSION, ENGINE ENCL**	0	$1,540
		Suppression panels in engine enclosure doors. INLCUDED IN: EUROPEAN ARRANGEMENT INCLUDED IN: EUROPEAN AR. W/ ROADING		
L	308-7368	**FENDERS, FRONT, NON-AWD**	124	$4,130
		Non-metallic front fenders aid in reducing the build-up of mud, snow, or debris. Front fenders are compatible with all Non-AWD tire sizes offered by the factory. ** NOT RECOMMENDED FOR USE WITH TIRE CHAINS. CANNOT BE USED WITH: MID MOUNT SCARIFIER PACKAGE CANNOT BE USED WITH: GUARD, AXLE HOSE		
L	242-2452	**FENDERS, REAR**	344	$5,200
		Provides non-metallic rear fenders to aid in reducing the build-up of mud, snow, or debris. Rear fenders are compatible with all MG tire sizes offered by the factory. INCLUDED IN: EUROPEAN AR. W/ ROADING (TUV) ** NOT RECOMMENDED FOR USE WITH TIRE CHAINS.		

OTHER ATTACHMENTS

STARTING AIDS

L	249-5516	**HEATER, ENGINE COOLANT, 120V**	3	$245
		Engine coolant heater for 120 volt external power source. REQUIRED BY: SNOW ARRANGEMENT		

CIRCLE DRIVE INJECTOR GREASE

P	521-3250	**KIT, CIRCLE SAVER**	0	$238
		Remote Circle Drive Greasing point (Zerk). Located top of drawbar for easy servicing of circle drive gear. Helps the pinion maintain its lubrication caused by lack of grease in this component.		

USE	REF NO.	LANE 2 / 3 OPTIONAL	Ship Weight lbs	LIST PRICE AT DEALER

WORK TOOLS

WORK TOOLS

L	360-5074	**MOUNT, MID-MOUNT SCARIFIER**	131	**$1,520**
		Brackets welded to front frame for future installation of midmount scarifier. INCLUDED IN: SCARIFIER, MID-MOUNT V-TYPE NOTE: This is the mounting only and does not include the scarifier. RECOMMENDED: Hydraulics with a mid-mount scarifier (MMS) function NOTE: If you intend to purchase the mid-mounted scarifier, please note that the actual scarifier cannot be attached to the machine at same time as the Lift Group, Hydraulic, Front		
L	367-6880	**COUNTERWEIGHT**	885	**$3,200**
			0	**$3,200 NI**
		NOTE NOT INSTALLED option is only for use with Miscellaneous orders using 0P-2972 160M3 MISC MATERIAL Front mounted.Recommended when machine is not equipped with front or rear mounted work tool attachments to provide additional blade performance capability. NOTE:This cannot be used in conjunction with push plate, front lift work tools,or the 'installed' hydraulic front lift. It can be used with a not installed hydraulic front lift NOT RECOMMENDED FOR USE WITH: RIPPER-SCARIFIER, REAR CANNOT BE USED WITH: PUSH PLATE LIFT GROUP, MANUAL, FRONT (Installed)		
L	367-6842	**PUSH PLATE, COUNTERWEIGHT**	2,822	**$5,640**
			2,822	**$5,640 NI**
		NOTE NOT INSTALLED option is only for use with Miscellaneous orders using 0P-2972 160M3 MISC MATERIAL Front mounted. Recommended when machine is equipped with rear ripper/scarifier and other rear mounted attachments. NOTE: This cannot be used in conjunction with counterweight, any front lift work tools,or the 'installed' hydraulic front lift. It can be used with a not installed hydraulic front lift CANNOT BE USED WITH: COUNTERWEIGHT CANNOT BE USED WITH: LIFT GROUP, MANUAL, FRONT (Installed)		

USE	REF NO.	LANE 2 / 3 OPTIONAL	Ship Weight lbs	LIST PRICE AT DEALER

WORK TOOLS (CONT.)

WORK TOOLS (Cont.)

L	312-2204	**LIFT GROUP, MANUAL, FRONT**	1,500 1,500	**$11,030** **$11,030 NI**

Front hydraulic lift without any work tool attached.
Note: This Front Lift Group has manual locking pins.

INSTALLED COMPATIBILITY:
REQUIRES: MOUNTING, FRONT LIFT
REQUIRES: Hydraulics control part number that has front lift (FL) function
REQUIRED, to use Front Scarifiers
CANNOT BE USED WITH: PUSH PLATE
CANNOT BE USED WITH: COUNTERWEIGHT
CANNOT BE USED WITH: MID MOUNT SCARIFIER PACKAGE

(The Installed Manual Lift Group can be attached to the machine at the sametime as the mounting for the mid-mount scarifier, but not the actual scarifier itself).

NOTE: A Not-Installed Manual Lift Group can be ordered with an INSTALLED Push Plate or Counterweight. The not-installed lift group will be skidded, banded and shipped with the unit.

NOT INSTALLED COMPATIBILITY:
REQUIRES: MOUNTING, FRONT LIFT
REQUIRES: Hydraulics control part number that has front lift (FL) function

L	359-3925	**LIFT GROUP, FRONT MOUNTING**	10	**$442**

Two mounting plates welded to both sides of the front frame for factory or future installation of Front Lift.
REQUIRED BY: LIFT GROUP, MANUAL, FRONT

L	387-8664	**LINES, RIPPER, ADDITIONAL**	8	**$426**

For use with rear mounted auxiliary functions. Provides two hydraulic hoses with one end bundled at the rear of the machine and the other end bundled at the rear valve bank in front of the cab.
REQUIRES: Ripper Function
FOR USE WITH: BASE + 1 (RIP)
FOR USE WITH: BASE + 2 (FL, RIP)
FOR USE WITH: BASE+3 (FL,DA1,RIP)
FOR USE WITH: BASE+4 (WM,WT-FLOAT,FL,RIP)
FOR USE WITH: BASE+4 (WM,WT,FL,RIP) NOFLT
FOR USE WITH: BASE+3 (FL,MMS,RIP)
FOR USE WITH: BASE+5 (WM,WT,DA1,FL,RIP)
FOR USE WITH: BASE+6 (WM,WT,DA1,DA2,FL,RIP)

USE	REF NO.	LANE 2 / 3 OPTIONAL	Ship Weight lbs	LIST PRICE AT DEALER

GROUND ENGAGING TOOLS

GROUND ENGAGING TOOLS

P	8J-1434	**TOOTH, STRAIGHT**	67 67	**$805** **$805 NI**
		NOTE AVAIALABLE for use as NOT INSTALLED ONLY with Miscellaneous order for RIPPER-SCARIFIER, REAR using 0P-2972 160M3 MISC MATERIAL Ripper tooth group for rear ripper. Includes one straight shank with ripper tooth. Recommended order quantity of 2 ONLY FOR USE WITH: RIPPER/SCARIFIER		
P	4K-3330	**SHANKS/TEETH, RIPPER/SCARIFIER**	152	**$1,404**
		NOTE AVAIALABLE for use as NOT INSTALLED ONLY with Miscellaneous order for RIPPER-SCARIFIER, REAR using 0P-2972 160M3 MISC MATERIAL Nine shanks for ripper and scarifier combination. Utilizes the scarifier shank positions on a ripper and scarifier combination. Will work with a midmount scarifier ONLY FOR USE WITH: RIPPER/SCARIFIER		

FIELD INSTALLED ATTACHMENTS

Please refer to the Caterpillar Work Tools Price List (WT-MG) for Motor Grader work tools.

Available Through Parts Distribution

Reference numbers below are kits used to upgrade existing motor graders with new features or technology

463-6258 KIT, JOYSTICK,ADVANCED CONTROL
Improves operational efficiency when utilizing ACCUGRADE or GRADE CONTROL X SLOPE.
Estimated install Hours: 2.5
Special Instructions: REHS8847

442-8145 KIT, ACCUMULATOR, BLADE LIFT
Provides hydraulic lines for base functions and accumulators for the blade lift. Allows approximately 1-3" of vertical blade travel to reduce impact loads. Nitrogen/oil accumulators activated by electric switch.
Estimated install Hours: 8
Special Instructions: REHS4230

466-5233 KIT, EXTENSIONS, MIRROR HEATED
9" extension from Current Mirror, adds 2 additional mirrors 1 for front visibility and 1 rear visibility. Heated to keep free of ice and snow in cold weather
Estimated install Hours: 2

USE	REF NO.	LANE 2 / 3 OPTIONAL	Ship Weight lbs	LIST PRICE AT DEALER

FIELD INSTALLED ATTACHMENTS (CONT.)

Available Through Parts Distribution (Cont.)

466-5255 **KIT, EXTENSIONS, MIRROR STD**
9" extension from Current Mirror, adds 2 additional mirrors, 1 for front visibility and 1 rear visibility
Estimated install Hours: 2

524-8603 **KIT,LEFT HAND BLADE EXTENSION**
24" x 24" x 7/8" - Left Hand Blade Extension Kit for use with 12 ft. and 14 ft. Basic Moldboards.
Estimated install Hours: 1.5

524-8604 **KIT,LEFT HAND BLADE EXTENSION**
24" x 27" x 1" - Left Hand Blade Extension Kit for use with 14 ft. Plus Moldboard.
Estimated install Hours: 1.5

524-8605 **EXTENSION, BLADE, 24" RH**
24" x 24" x 7/8" - Right Hand Blade Extension Kit for use with 12 ft. and 14 ft. Basic Moldboards.
Estimated install Hours: 1.5

524-8606 **EXTENSION, BLADE, 24" RH**
24" x 27" x 1" - Right Hand Blade Extension Kit for use with 14 ft. Plus Moldboard.
Estimated install Hours: 1.5

524-8607 **KIT, SPARE RIM**
14" x 25" MP Spare Rim
Estimated install Hours: 0.5

524-8609 **KIT, SPARE RIM**
10" x 24" MP Spare Rim
Estimated install Hours: 0.5

488-2192 **KIT, CIRCLE SAVER**
Circle Saver
Estimated install Hours: 0.5
Special Instructions: REHS4230

415-3925 **KIT, FENDERS, FRONT**
12/140/160M3 Tandem Front Fender Kit

434-1066 **KIT, FENDERS, REAR**
160M3 Rear Fender Kit

380-3885 **KIT, HEATED GLASS,WIDE FRONT**
Wide Front Heated Glass
Special Instructions: REHS7155

380-3886 **KIT, HEATED GLASS,NARROW FRONT**
Narrow Front Heated Glass
Special Instructions: REHS7155

473-5233 **KIT, STORAGE, CAB**
12/140/160M3 Cab Storage Kit

PACKING

EXPORT PACKING

0P-2265 **ROLL ON-ROLL OFF** . . . . . 0 **$304 NET**
Machine is driveable with nothing removed.
For sound testing purposes, European units with European arrangements must be ordered in Ro-Ro Configuration.
(Cab or canopy remains mounted.)
REQUIRED BY: EUROPEAN ARRANGEMENT
REQUIRED BY: EUROPEAN AR. W/ ROADING (TUV)

USE	REF NO.	LANE 2 / 3 OPTIONAL	Ship Weight lbs	LIST PRICE AT DEALER

PACKING (CONT.)

EXPORT PACKING (Cont.)

0P-2962 **SHIPPING TIRE FREIGHT OPTION** . . . . . 0 **NC**
This 0P is required when the machine is ordered with the Shipping Tire
This insures the correct trailer is used for shipment preventing
This is informational only and there is no additional charge.
REQUIRED BY: TIRES, 17.5 SHIPPING, MP
TIRES, 14.0 SHIPPING, MP

ATTACHMENT PACKING

0P-6706 **BUNDLE EXPORT PACKING** . . . . . 0 **NC**
This OP should be ordered for miscellaneous orders

SPECIAL INSTRUCTIONS

EXPOSITION MACHINE

0P-2949 **EXPOSITION INSTRUCTION** . . . . . 0 **NC**
This special instruction must be selected whenever dealer is placing
an order for a unit intended for use at expositions and/or trade
fairs