

921C/XR

Articulated Wheel Loader



ENGINE

Model Cummins® M11-C270
Type 4-stroke, turbocharged
and aftercooled
Cylinders 6
Bore / Stroke 4.92" x 5.79"
(125 X 147 mm)
Displacement 661 in³ (10.8 L)
Fuel injection Direct
Fuel #2 Diesel
Fuel filter Replaceable, full flow
spin-on cartridge
Air filter Dry type element
w/warning restriction indicator
Radiator
Core type Armor core
Core size area 6.7 ft² (0.62 m²)
Rows of tubes 8
Fan
Style 8 blade pusher
Diameter 24" (610 mm)
Ratio 0.8:1
Engine oil
Pump operating angle ratings
Side-to-side Rated 45°
Fore and aft Rated 45°
Oil filtration Replaceable,
full flow spin-on cartridge
Engine speeds (rpm)
Rated speed, full load 2100
Low idle 850 - 900
High idle, no load 2200 - 2400
Horsepower
Gross 270 (201 kW) @ 2100 rpm
Net 248 (185 kW) @ 2100 rpm
Peak torque @ 1300 rpm
Gross 950 lb·ft (1288 N·m)
Net 926 lb·ft (1255 N·m)
Torque rise 41%

NOTE: Gross horsepower and torque per SAE
J1995. Net horsepower and torque per
SAE J1349.

DRIVETRAIN

Transmission 4F/3R Proportional
w/Electronic Control Module
torque sensing autoshift / manual
shift and modulation
Gears Helical cut
Gear ratios Forward Reverse
1st 3.713 3.713
2nd 2.063 2.063
3rd 1.065 1.065
4th 0.686 NA
Torque converter
Stall ratio 3.08:1
Differential Torque proportioning
w/20% transfer on front
and rear axles
Rear axle oscillation 24° total
Axles Torque proportioning
differential front and rear
Differential ratio 4.625
Planetary ratio 4.94
Final axle ratio 22.85
Planetaries Outboard
Service brakes Hydraulically
actuated maintenance-free
multiple wet disc w/accumulator
to all four wheels
Brake surface area 903 in² per hub
(0.58 m²)
Parking brakes Spring applied
hydraulic release disc on
transmission output shaft
Travel speeds – mph (km/h)
w / 26.5-25 L3 Tires
Forward Reverse
1st 5.1 (8.2) 5.1 (8.2)
2nd 9.0 (14.5) 9.0 (14.5)
3rd 16.6 (26.7) ... 16.6 (26.7)
4th 24.1 (38.8) NA

NOTE: Travel speeds at full engine throttle.

ELECTRICAL

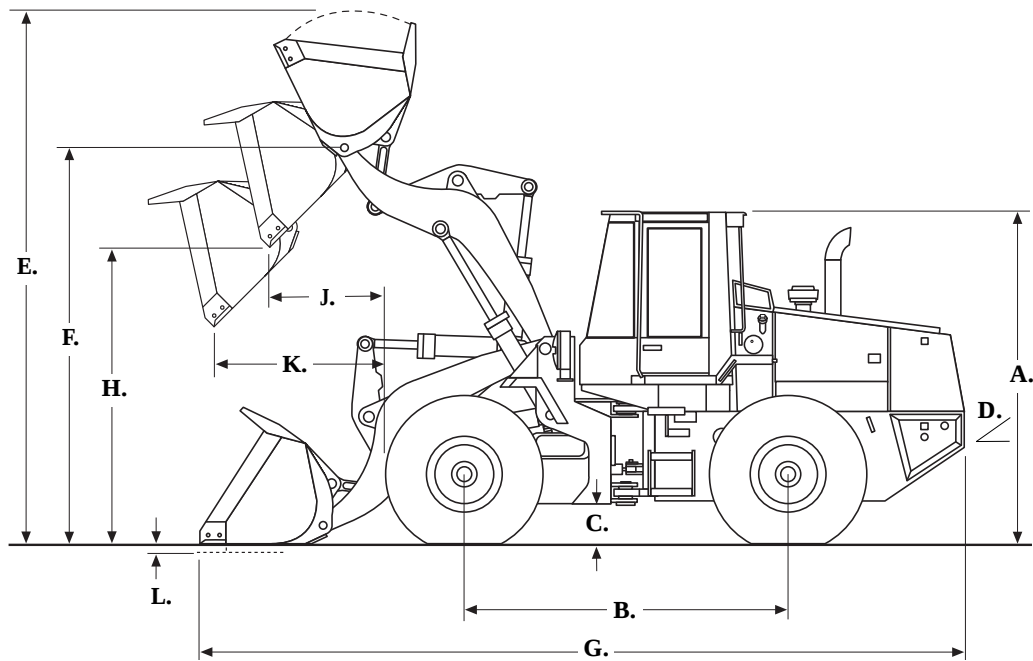
Voltage 24 Volts, negative ground
Alternator 70 amp
Batteries (2) 900 CCA

HYDRAULICS

Pump Dual, vane-type tandem
Loader/steering section
Section displacement 8.1 in³ / rev
68 gpm @ 2100 rpm @ 2850 psi
(257 L / min @ 2100 rpm @ 196 bar)
Loader section
Section displacement 4.5 in³ / rev
38 gpm @ 2100 rpm @ 2850 psi
(144 L / min @ 2100 rpm @ 196 bar)
Loader control valve Open-center,
sectional 2-, 3- or 4-spool with
pilot control for lift, tilt
and auxiliary hydraulics,
electromagnetic detents in
float, raise and rollback
Loader auxiliary hydraulics
40 to 106 gpm
(151 to 401 L / min)
Steering Hydraulic center-pivot
articulating w/on-demand oil flow
Flow 68 gpm @ 2100 rpm
@ 2850 psi
(257 L / min @ 2100 rpm @ 196 bar)
Main relief pressure 2850 psi
(196 bar)
Filtration 10.9-micron,
full flow replaceable
cartridge on return line, condition
indicator light for filter
Oil cooler Return line

CYLINDERS

Lift cylinder
Bore diameter 7.0" (178 mm)
Rod diameter 4.0" (102 mm)
Stroke 34.16" (868 mm)
Dump cylinder
Bore diameter 8.0" (203 mm)
Rod diameter 4.0" (102 mm)
Stroke 29.34" (745 mm)



DIMENSIONS

Height to –

A. Top of ROPS cab	140.6" (3.57 m)
Top of steering wheel	111.7" (2.84 m)
Drawbar	47" (1.2 m)
B. Wheelbase	134" (3.4 m)
C. Ground clearance	17.5" (445 mm)
D. Angle of departure	34°
Width –	
Overall* w/o bucket	115.6" (2.94 m)
Centerline tread	87" (2.21 m)
Turning radius* – outside	241.9" (6.14 m)
Turning angle –	
From center	40°
Total angle	80°
Rear axle oscillation, total	24°

NOTE: *Dimensions taken with 26.5-25 20PR L3 tires. Additional dimensions on page 3.

WEIGHT ADJUSTMENTS

Select Options	Weight Adjustment	Tipping Load Adjustment Straight	Tipping Load Adjustment 40° Turn
Rated weight to adjust (see note** below)	50,621 lb (22 961 kg) ..	43,303 lb (19 642 kg) ..	34,556 lb (15 674 kg)
3,300 lb (1497 kg) counterweight			
ILO 4,800 lb (2177 kg) counterweight	-1,525 lb (-692 kg)	-2,993 lb (-1358 kg)	-2,313 lb (-1049 kg)
ROPS canopy	-295 lb (-134 kg)	-224 lb (-102 kg)	-188 lb (-85 kg)
Narrow fenders	-427 lb (-194 kg)	-376 lb (-170 kg)	-306 lb (-139 kg)
26.5-25 L2 tires	-452 lb (-205 kg)	-962 lb (-436 kg)	-1,025 lb (-465 kg)
26.5-25 L4 tires	+1,164 lb (+528 kg) ...	+1,401 lb (+635 kg) ...	+1,400 lb (+635 kg)
26.5-25 L5 tires	+1,592 lb (+722 kg) ...	+2,132 lb (+967 kg) ...	+2,189 lb (+993 kg)
26.5-R25 XHA tires	+460 lb (+208 kg)	+241 lb (+110 kg)	+390 lb (+177 kg)
26.5-R25 XRD1A tires	+1,452 lb (+658 kg) ...	+1,098 lb (+498 kg) ...	+1,098 lb (+498 kg)
705/70R25 XLD 70-1 tires	-12 lb (-5 kg)	-150 lb (-68 kg)	-103 lb (-47 kg)

NOTE: **Unit equipped with Z-Bar loader arms, 4.75 yd³ (3.63 m³) general purpose pin on bucket, 26.5-25 20PR L3 tires, ROPS cab with heater, 4,800 lb (2177 kg) counterweight, standard batteries, wide front and rear fenders, full fuel and 175 lb (79 kg) operator. Adjust select options from rated weight.

PERFORMANCE DATA

	4.75 yd ³ (3.63 m ³)	4.75 yd ³ (3.63 m ³)	4.75 yd ³ (3.63 m ³)
921C Z-Bar	Bucket Only	Bucket w/Bolt-on Edge	Bucket w/Teeth
SAE bucket capacity – struck.....	3.81 yd ³ (2.91 m ³).....	4.02 yd ³ (3.07 m ³).....	3.81 yd ³ (2.91 m ³).....
Heaped	4.75 yd ³ (3.63 m ³).....	5.0 yd ³ (3.82 m ³).....	4.75 yd ³ (3.63 m ³).....
Bucket width – outside.....	120" (3.05 m)	120" (3.05 m)	122.3" (3.10 m).....
Inside	116.7" (2.96 m).....	116.7" (2.96 m).....	116.7" (2.96 m).....
Bucket weight	3,537 lb (1604 kg)	4,172 lb (1892 kg)	3,855 lb (1749 kg)
E. Operating height – fully raised w/spillguard.....	221.9" (5.64 m)	221.9" (5.64 m)	221.9" (5.64 m)
F. Hinge pin height – fully raised	168.7" (4.28 m)	168.6" (4.28 m)	168.6" (4.28 m)
G. Overall length – bucket level on ground	336.8" (8.55 m)	341.0" (8.66 m)	347.9" (8.84 m)
Dump angle – fully raised	50°	50°	50°
H. Dump height – fully raised, 45° dump	123.9" (3.15 m)	120.7" (3.07 m).....	115.8" (2.94 m).....
J. Bucket reach – fully raised, 45° dump	43.2" (1.1 m)	44.5" (1.13 m)	49.0" (1.24 m)
K. Bucket reach – 7'0" (2.13 m) height, 45° dump ..	68.8" (1.75 m)	68.9" (1.75 m)	71.1" (1.81 m)
Operating load – SAE.....	17,279 lb (7838 kg)	16,872 lb (7653 kg)	17,071 lb (7743 kg)
Maximum material density – SAE ..	3,638 lb/yd ³ (2158 kg/m ³)... ..	3,374 lb/yd ³ (2002 kg/m ³)... ..	3,594 lb/yd ³ (2132 kg/m ³).....
Tipping load – SAE			
Straight	43,305 lb (19 643 kg)	42,481 lb (19 269 kg)	42,885 lb (19 452 kg)
40° turn	34,558 lb (15 675 kg)	33,745 lb (15 306 kg)	34,142 lb (15 487 kg)
Lift capacity –			
Full height	26,420 lb (11 984 kg)	25,845 lb (11 723 kg)	26,135 lb (11 855 kg)
Maximum reach	37,952 lb (17 215 kg)	37,295 lb (16 917 kg)	37,622 lb (17 065 kg)
Ground.....	46,109 lb (20 911 kg)	45,333 lb (20 559 kg)	45,731 lb (20 740 kg)
Breakout force – dump cylinder	50,275 lb (22 804 kg)	46,391 lb (21 039 kg)	49,583 lb (22 491 kg)
Maximum rollback –			
Ground.....	39°	40°	40°
Carry position	43°	43°	43°
@ Maximum reach	67°	67°	67°
@ Full height	63°	63°	63°
L. Dig depth.....	1.2" (30 mm)	2.4" (61 mm)	2.8" (71 mm)
Maximum grading angle w/bucket – back dragging	62°	62°	63°
Loader clearance circle	531.9" (13.51 m)	534.5" (13.58 m)	540.8" (13.74 m)
921C XR			
E. Operating height – fully raised w/spillguard.....	243.6" (6.19 m)	243.6" (6.19 m)	243.6" (6.19 m)
F. Hinge pin height – fully raised	190.4" (4.84 m)	190.3" (4.83 m)	190.3" (4.83 m)
G. Overall length – bucket level on ground	358.9" (9.12 m)	362.9" (9.22 m)	369.8" (9.39 m)
Dump angle – fully raised	45°	45°	45°
H. Dump height – fully raised, 45° dump	145.6" (3.70 m)	142.4" (3.61 m)	137.5" (3.49 m)
J. Bucket reach – fully raised, 45° dump	46.2" (1.17 m)	47.6" (1.21 m)	52.1" (1.32 m)
K. Bucket reach – 7'0" (2.13 m) height, 45° dump ..	87.9" (2.23 m)	88.1" (2.24 m)	90.7" (2.3 m)
Operating load – SAE.....	13,623 lb (6179 kg)	13,230 lb (6001 kg)	13,422 lb (6088 kg)
Maximum material density – SAE ..	2,868 lb/yd ³ (1701 kg/m ³)... ..	2,646 lb/yd ³ (1570 kg/m ³)... ..	2,826 lb/yd ³ (1676 kg/m ³).....
Tipping load – SAE			
Straight	33,896 lb (15 375 kg)	33,105 lb (15 016 kg)	33,492 lb (15 192 kg)
40° turn	27,245 lb (12 358 kg)	26,460 lb (12 002 kg)	26,843 lb (12 176 kg)
Lift capacity –			
Full height	24,403 lb (11 069 kg)	23,810 lb (10 800 kg)	24,107 lb (10 935 kg)
Maximum reach	32,808 lb (14 881 kg)	32,131 lb (14 574 kg)	32,468 lb (14 727 kg)
Ground	37,210 lb (16 875 kg)	36,434 lb (16 523 kg)	36,811 lb (16 694 kg)
Breakout force – dump cylinder	50,434 lb (22 877 kg)	46,577 lb (21 123 kg)	49,792 lb (22 581 kg)
Loader clearance circle	552.4" (14.03 m)	555.3" (14.1 m)	562.1" (14.28 m)

NOTE: Performance data unit equipped with 26.5-25 20PR L3 tires, ROPS cab w/ heater and A/C, 4,800 lb (2177 kg) counterweight, standard batteries, wide

4.75 yd³ (3.63 m³)	5.0 yd³ (3.82 m³)	5.0 yd³ (3.82 m³)	5.0 yd³ (3.82 m³)
Bucket w/Segmented Teeth	Bucket Only	Bucket w/Bolt-on Edge	Bucket w/Teeth
..... 4.02 yd ³ (3.07 m ³).....	4.38 yd ³ (3.35 m ³).....	4.6 yd ³ (3.52 m ³).....	4.38 yd ³ (3.35 m ³).....
..... 5.0 yd ³ (3.82 m ³).....	5.0 yd ³ (3.82 m ³).....	5.25 yd ³ (4.01 m ³).....	5.0 yd ³ (3.82 m ³).....
..... 122.3" (3.11 m).....	120.0" (3.05 m).....	120.0" (3.05 m).....	122.3" (3.11 m).....
..... 116.7" (2.96 m).....	116.7" (2.96 m).....	116.7" (2.96 m).....	116.7" (2.96 m).....
..... 4,335 lb (1966 kg).....	3,698 lb (1677 kg).....	4,333 lb (1965 kg).....	4,335 lb (1966 kg).....
..... 221.8" (5.63 m).....	230.6" (5.86 m).....	230.6" (5.86 m).....	230.6" (5.86 m).....
..... 168.6" (4.28 m).....	168.7" (4.28 m).....	168.6" (4.28 m).....	168.6" (4.28 m).....
..... 348.0" (8.84 m).....	337.8" (8.58 m).....	342.0" (8.69 m).....	348.0" (8.84 m).....
..... 50°.....	50°.....	50°.....	50°.....
..... 115.7" (2.94 m).....	123.2" (3.13 m).....	120" (2.94 m).....	115.7" (2.94 m).....
..... 49.0" (1.24 m).....	43.9" (1.12 m).....	45.2" (1.15 m).....	49.0" (1.24 m).....
..... 71.1" (1.81 m).....	69.2" (1.76 m).....	69.3" (1.76 m).....	71.1" (1.81 m).....
..... 16,772 lb (7608 kg).....	17,315 lb (7854 kg).....	16,905 lb (7668 kg).....	16,945 lb (7686 kg).....
..... 3,354 lb/yd ³ (1990 kg/m ³)...	3,463 lb/yd ³ (2055 kg/m ³) ..	3,220 lb/yd ³ (1910 kg/m ³) ...	3,389 lb/yd ³ (2011 kg/m ³).....
..... 42,278 lb (19 177 kg).....	43,491 lb (19 727 kg).....	42,659 lb (19 350 kg).....	42,743 lb (19 388 kg).....
..... 33,544 lb (15 215 kg).....	34,631 lb (15 708 kg).....	33,810 lb (15 336 kg).....	33,890 lb (15 372 kg).....
..... 25,695 lb (11 655 kg).....	26,199 lb (11 884 kg).....	25,626 lb (11 624 kg).....	25,597 lb (11 611 kg).....
..... 37,128 lb (16 841 kg).....	37,827 lb (17 158 kg).....	37,169 lb (16 860 kg).....	37,177 lb (16 863 kg).....
..... 45,144 lb (20 473 kg).....	45,686 lb (20 719 kg).....	44,931 lb (20 377 kg).....	45,028 lb (20 421 kg).....
..... 49,197 lb (22 312 kg).....	49,154 lb (22 296 kg).....	45,398 lb (20 592 kg).....	49,289 lb (22 357 kg).....
..... 40°.....	39°.....	40°.....	40°.....
..... 43°.....	43°.....	43°.....	43°.....
..... 67°.....	67°.....	67°.....	67°.....
..... 63°.....	63°.....	63°.....	63°.....
..... 2.8" (71 mm).....	1.2" (30 mm).....	2.4" (61 mm).....	2.8" (71 mm).....
..... 63°.....	62°.....	62°.....	63°.....
..... 540.8" (13.74 m).....	532.5" (13.53 m).....	535.1" (13.59 m).....	540.8" (13.74 m).....
..... 243.5" (6.18 m).....	252.3" (6.41 m).....	252.3" (6.41 m).....	252.3" (6.41 m).....
..... 190.3" (4.83 m).....	190.3" (4.83 m).....	190.3" (4.83 m).....	190.3" (4.83 m).....
..... 369.8" (9.39 m).....	359.9" (9.14 m).....	363.9" (9.24 m).....	369.8" (9.39 m).....
..... 45°.....	45°.....	45°.....	45°.....
..... 137.4" (3.49 m).....	144.9" (3.68 m).....	141.7" (3.6 m).....	137.4" (3.49 m).....
..... 52.1" (1.32 m).....	46.9" (1.19 m).....	48.3" (1.23 m).....	52.1" (1.32 m).....
..... 90.7" (2.3 m).....	88.3" (2.24 m).....	88.6" (2.25 m).....	90.7" (2.3 m).....
..... 13,133 lb (5957 kg).....	13,624 lb (6180 kg).....	13,228 lb (6000 kg).....	13,262 lb (6016 kg).....
..... 2,627 lb/yd ³ (1558 kg/m ³)...	2,725 lb/yd ³ (1617 kg/m ³) ..	2,520 lb/yd ³ (1495 kg/m ³) ...	2,652 lb/yd ³ (1574 kg/m ³).....
..... 32,908 lb (14 927 kg).....	33,937 lb (15 394 kg).....	33,139 lb (15 032 kg).....	33,209 lb (15 063 kg).....
..... 26,265 lb (11 914 kg).....	27,247 lb (12 359 kg).....	26,457 lb (12 001 kg).....	26,524 lb (12 031 kg).....
..... 23,656 lb (10 730 kg).....	24,194 lb (10 974 kg).....	23,603 lb (10 706 kg).....	23,582 lb (10 697 kg).....
..... 31,960 lb (14 497 kg).....	32,701 lb (14 833 kg).....	32,022 lb (14 525 kg).....	32,040 lb (14 533 kg).....
..... 36,243 lb (16 437 kg).....	36,878 lb (16 725 kg).....	36,113 lb (16 378 kg).....	36,184 lb (16 410 kg).....
..... 49,406 lb (22 410 kg).....	49,310 lb (22 367 kg).....	45,581 lb (20 672 kg).....	49,498 lb (22 452 kg).....
..... 562.1" (14.28 m).....	553.0" (14.05 m).....	556.0" (14.12 m).....	562.1" (14.28 m).....

ont and rear fenders, full fuel and 175 lb (79 kg) operator. Specifications per SAE J732, J1234, J695, J742 and J818.

INSTRUMENTATION

Electronic Information Center
Displays / Gauges –
Speedometer
Tachometer
Direction selected F-N-R
Transmission modes –
Auto shift / Manual shift
Gear selected
Gear position
Turn signal indicator
Engine coolant temperature
Engine oil pressure
Fuel level
Transmission oil temperature
Hydraulic oil temperature
Voltmeter
Hourmeter
Indicator lights –
Beacon*
Work lights
Loader control lockout
Low coolant
Brake pressure
Master indicator
Auxiliary steering*
Parking brake
Air conditioning*
Hydraulic oil filter
Transmission filter
Air filter
Audible alarms –
Caution alarm
Critical alarm
Backup alarm
Horn

NOTE: *If equipped with option.

OPERATOR ENVIRONMENT

ROPS canopy
Key start
Articulated power steering
w/tilt column
Fully adjustable, vinyl suspension
seat
Foot throttle
2-Lever loader control w/wrist rest
Cup holder
Coat hook
(2) Interior rear-view mirrors
2" (51 mm) retractable seat belt
Storage tray behind seat
Lunch box retainer strap

LOADER

Z-bar loader linkage
2-lever control for lift and tilt
Positive hold float
Automatic return-to-dig
Automatic height control
Automatic return-to-travel
Brake pedal transmission disconnect
Bucket position indicator

CYCLE TIME

Raise w/rated bucket load..... 6.2 sec
Dump w/rated bucket load..... 1.5 sec
Lower (empty)
Power down 4.9 sec
Float down 3.7 sec

SERVICE CAPACITIES

Fuel tank 104 gal (393.7 L)
Hydraulic system
Total 61.5 gal (232.8 L)
Reservoir w/filter 33 gal (125 L)
Transmission
Service w/filter 7.5 gal (28.4 L)
Front and rear axle
Differential (each) ... 9.6 gal (36.3 L)
Planetaries (each) 3.6 gal (13.6 L)
Total axle (each) 16.8 gal (63.6 L)
Engine oil w/filter 39 qt (36.9 L)
Cooling system 12.5 gal (47.3 L)

OPERATING WEIGHTS

Z-Bar

Unit equipped with ROPS cab
with heater and A/C, 4,800 lb
(2177 kg) counterweight,
26.5-25 20PR L3 tires, wide
front and rear fenders, 4.75 yd³
(3.63 m³) general purpose loader
bucket, full fuel and 175 lb (79 kg)
operator 50,621 lb (22 961 kg)

XR

Unit equipped with ROPS cab
with heater and A/C, 4,800 lb
(2177 kg) counterweight,
26.5-25 20PR L3 tires, wide
front and rear fenders, 4.75 yd³
(3.63 m³) general purpose loader
bucket, full fuel and 175 lb (79 kg)
operator 51,570 lb (23 392 kg)

STANDARD EQUIPMENT

OPERATOR'S COMPARTMENT

See page 5

ENGINE

Cummins® M11-C270 diesel
Turbocharger and aftercooler
Fuel filter w/water trap
Air intake pre-cleaner
Dual element air cleaner
70 amp alternator
(2) 900 CCA 12-volt batteries
Liquid-cooled radiator
Non spark-arresting muffler

LOADER

See page 5

DRIVETRAIN

4-wheel drive
4F/3R Selectable autoshift / manual shift transmission
Electronic Control Module – Programmable, computer controlled proportional shifting with programmable gear selection
On-board diagnostics
Single lever electronic shift control
Downshift button
Torque converter
Outboard planetary axles
Torque proportioning differentials
Transmission oil cooler
Brake pedal transmission disconnect
Hydraulic wet disc brakes
Electric parking brake
Limp-Home Mode
Fully pressurized lubrication

HYDRAULICS

2-spool loader control valve
Full-flow oil cooler
Flow-amplified, wide-angle steering system
(7) Diagnostic quick couplers

OTHER

Wide front and rear fenders
Lights –
2 Front headlights
2 Front flood
2 Front working
2 Rear tail and stop
2 Rear flood
Front and rear turn signal/flash
4,800 lb (2177 kg) counterweight w/integral clevis type hitch
Articulation locking bar

OPTIONAL EQUIPMENT

OPERATOR'S COMPARTMENT

Cab with –
Pressurized, air filtering
Anti-glare window strip and visor
Defroster
Cloth covered mechanical suspension seat
(2) interior rear-view mirrors
Side windows, partial/fully opening
Dome light
Wipers, rear and intermittent front
Windshield washers, front and rear
Rubber floor mat
Cloth covered air-suspension seat
3" (76 mm) retractable seat belt
Cab heater
Cab air-conditioning w/heater
Radio or radio/cassette
Radio-ready (12- or 24-volt)
Auxiliary power (12-volt)
Lighter (24-volt)
West Coast mirrors
Rotating beacon

ENGINE

Cold weather ether starting aids
Engine block heater

LOADER

Hydraulic attachment coupler
Attachment auxiliary hydraulics
Loader controls –
2-spool, 1-lever
3-spool, 2-lever
3-spool, 3-lever
4-spool, 2-lever
Lever conversion kits –
To 1-, 2- or 3-lever
Buckets (see page 3, 4)

HYDRAULICS

Auxiliary hydraulics
Ride Control
Auxiliary steering
3- or 4-spool loader valves with 2- or 3- lever loader control

TIRES

26.5-25 20PR L2 bias (dirt/traction)
26.5-25 20PR L3 bias (rock)
26.5-25 20PR L4 bias (rock)
26.5-25 20PR L5 bias (rock)
26.5-R25 XHA radial (rock)
26.5-R25 XRD1A radial (rock)
705/70R25 XLD 70-1 radial (rock)

OTHER

Narrow fender package
Special paint
Tie-down brackets
3,300 lb (1497 kg) counterweight
ILO of 4,800 lb (2177 kg) counterweight

NOTE: All specifications are stated in accordance with SAE Standards or Recommended Practices, where applicable.

IMPORTANT: Case Corporation reserves the right to change these specifications without notice and without incurring any obligation relating to such change.

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