

**TIER II CERTIFIED**

590 Super M

Series 2 Loader/Backhoe

ENGINE

Model Case 445T/M2 diesel
Type..... 4-stroke, turbocharged
Cylinders 4
Bore/Stroke..... 4.09" x 5.19"
(104 x 132 mm)
Displacement 272 in³ (4.5 L)
Fuel injection..... Direct
Fuel..... Diesel
Fuel filter..... w/water trap
Air intake Cross-flow
Cooling..... Liquid
Engine speeds* (rpm)
Rated speed, full load 2200
Low idle..... 800 - 900
High idle, no load 2380 - 2480
Horsepower
Gross 99 (74 kW) @ 2200 rpm
Net 98 (73 kW) @ 2200 rpm
Maximum torque @ 1400 rpm
Gross..... 294 lb-ft (398 N-m)
Net 289 lb-ft (392 N-m)
Torque rise at rated speed 24%

NOTE: *Engine speeds with standard transmission. Meets federal emission regulations.

ENGINE COOLING

Radiator
Core type Square wave
Core size area..... 487 in² (.315 m²)
Rows of tubes 5
Fan
Style Viscous 9 blade suction
Diameter 19.2" (488 mm)
Ratio 1.35:1
Water pump
Style Integral
Engine oil
Pump..... Deep sump plate cooler
with pressurized
under-piston nozzles
Pump operating angle ratings
Side-to-side Rated 35°
Fore and aft..... Rated 35°
Oil filtration Replaceable,
full-flow cartridge

TIRES

Front
2WD - 14.5/75 x 16.1, 10-ply
4WD - 14 x 17.5, 10-ply
Rear
2/4WD - 21L x 24, 10-ply

POWERTRAIN

Transmission 4-speed
synchromesh with hydraulically
actuated clutches and electric F/R
shuttle control, clutch disconnect
buttons on the transmission shifter
and loader control lever
Gear ratios Forward Reverse
1st..... 5.491 4.550
2nd 3.043 2.522
3rd 1.584 1.313
4th 0.793 0.657
Torque converter
Ratio 2.63
Differential lock..... On-the-go
push-button activation
Front 4WD axle
Differential ratio 2.308
Planetary hub ratio 6.0
Total reduction ratio 13.846
Rear axle
Differential ratio 2.75
Planetary hub ratio 6.0
Total reduction ratio 16.5
Service brakes.. Individually applied,
hydraulically actuated,
maintenance-free, self-adjusting,
inboard mounted, wet disc
Disc area 59.6 in² (.038 m²)
Parking brakes..... Mechanically
applied with electric activation
sensors at each brake
Travel speeds - mph (km/h)
1st 2nd 3rd 4th
Forward 3.5 6.7 13.5 25.5
(5.7) (10.8) (21.7) (41.0)
Reverse..... 4.3 8.1 16.3 30.8
(6.9) (13.0) (26.2) (49.6)

NOTE: Travel speeds at 2324 engine rpm.

ELECTRICAL

Voltage 12 volts, negative ground
Alternator 90 amp
Battery 850 cold-cranking amps
Optional batteries (2) 600
cold-cranking amps
Power plugs..... (2) 30 amps ea.

HYDRAULICS

Pump Gear-type tandem,
transmission driven
Main relief pressure
3050 + 50 - 50 psi @ 42.5 gpm
(210 + 3 - 3 bar @ 161 L/min)
Filtration 7-micron,
full flow replaceable
cartridge on return line,
condition indicator light for filter
Oil cooler Heavy-duty
Loader flow @ rated engine rpm
31.5 gpm @ 3050 psi
(121 L/min @ 210 bar)
Loader control valve Monoblock
single lever control for
lift, tilt and auxiliary hydraulics,
positive hold float and
return-to-dig
Loader auxiliary hydraulics
with full loader flow available
14 to 31.5 gpm
(53 to 119 L/min)
Backhoe flow @ rated engine rpm
42.5 gpm @ 3050 psi
(161 L/min @ 210 bar)

Manual Backhoe Controls

Backhoe Control Valve... Monoblock
open-center, parallel circuits
Boom and dipper, with pilot operated
checks.

Pilot Backhoe Controls

Backhoe Control Valve..... Sectional
closed-center with inlet compensator
and circuits in parallel.

Backhoe auxiliary hydraulics.....

Uni-directional flow, adjustable
variable flow from 0 to 36 gpm
(136L/min)

Control Operation

Manual... Foot switch activated
Pilot Button on left joystick

Bi-Directional flow, variable flow from
0 to 42.5 gpm
(161 L/min) @ rated engine rpm

Control operation

Manual Hand lever
Pilot Buttons on left joystick

OPERATOR ENVIRONMENT

ROPS/FOPS canopy
Key start
Hydrostatic steering
Non-suspension seat w/180° swivel
Hand and foot throttles
Loader control lever w/push-button activation of differential lock and transmission de-clutch
Backhoe foot-swing w/3 lever control
(2) Accessory power plugs (30 amp)
Anti-vandalism covers (canopy only)
Cup holder
Coat hook w/tether strap (cab only)
Interior rearview mirror
2" (51 mm) retractable seat belt
Storage compartment w/lid
Left side storage tray

INSTRUMENTATION

Gauges
Engine water temperature
Converter oil temperature
Fuel
Tachometer/hourmeter
Voltmeter
Warning lights
Air cleaner restriction
Alternator
A/C low/high pressure
Cold start
Engine oil pressure
Hydraulic oil filter bypass
Parking brake
Rear axle fluid temperature sensing system
Low fuel
Audible alarms
Coolant temperature
Engine oil pressure
Parking brake engagement
Shuttle engagement/seat position
Backup alarm
Turn signal indicators
Horn - dual switched front & rear

TURNING DIAMETER

2WD
Brakes on..... 25'0.4" (7.63 m)
Brakes off..... 25'11" (7.90 m)
4WD – engaged
Brakes on..... 26'5" (8.04 m)
Brakes off..... 29'10" (9.08 m)
4WD – disengaged
Brakes on..... 24'8" (7.51 m)
Brakes off..... 25'6" (7.78 m)

OPERATING WEIGHTS

Lightest Configuration
Unit equipped with 2WD, ROPS canopy, non-suspension seat, 93" (2.36 m) general purpose loader bucket, 24" (610 mm) Universal backhoe bucket, standard dipperstick, 21L x 24 rear tires, 14.5/75 x 16.1 front tires, single battery, standard cast stabilizer pads, no operator 15,268 lb (6926 kg)
Heavy Configuration
Unit equipped with 4WD, cab, suspension seat, 93" (2.36 m) 4 IN 1® loader bucket, 24" (610 mm) Universal backhoe bucket, Extendahoe® dipperstick, dual batteries, flip stabilizer pads, no operator 19,578 lb (8881 kg)

Add-on weights

Cab (over canopy) ... +454 lb (206 kg)
Counterweights..... +440 lb (200 kg)
+900 lb (408 kg)
Extendahoe® +270 lb (122 kg)
4WD w/driveshaft guard..... +393 lb (178 kg)

SERVICE CAPACITIES

Fuel tank..... 42.0 gal (159 L)
Hydraulic system
Total 34.25 gal (130 L)
Total w/Extendahoe® 35.75 gal (135.7 L)
Reservoir w/filter.. 14.5 gal (54.9 L)
Reservoir w/o filter... 14.0 gal (53 L)
Transmission
2WD Total system .. 19.5 qt (18.5 L)
4WD Total system .. 22.0 qt (20.8 L)
4WD Front axle
Differential..... 6.9 qt (6.5 L)
Planetaries (each)..... 1.1 qt (1.0 L)
Rear axle
Differential..... 15.0 qt (14.2 L)
Planetaries (each)..... 2.0 qt (2.1 L)
Engine oil w/filter 14.4 qt (13.6 L)
Cooling system
w/heater 19.0 qt (18.0 L)
w/o heater..... 18.3 qt (17.3 L)
Window washer reservoir..... 2.5 qt (2.36 L)

LOADER

Single-lever control for lift and tilt
Positive hold float
Return-to-dig
Automatic self-leveling
In-line, reverse linkage
Dual parallel dump cylinders
Clutch disconnect button on loader control and shift levers
Bucket position indicator

Loader Bucket Sizes

General Purpose Bucket

(w/ lift points and bolt-on cutting edge)

Width	Weight	Struck	Heaped
93"	1,123 lb	1.1 yd ³	1.3 yd ³
(2.36 m)	(509 kg)	(0.84 m ³)	(1.0 m ³)
96"	1,324 lb	1.27 yd ³	1.5 yd ³
(2.44 m)	(601 kg)	(0.97 m ³)	(1.15 m ³)

4 IN 1® Bucket

93"	1,628 lb	1.0 yd ³	1.2 yd ³
(2.36 m)	(738 kg)	(0.76 m ³)	(0.92 m ³)

BACKHOE

Over-center design
Cast, ductile iron boom, and swing tower
Open-center hydraulics - Pro Control System
17, 940 lb-ft (24 370 N-m) swing torque
Case attachment coupler
Foot-swing w/3 lever control
Wing stabilizers w/cleated dirt pad

Backhoe Bucket Sizes

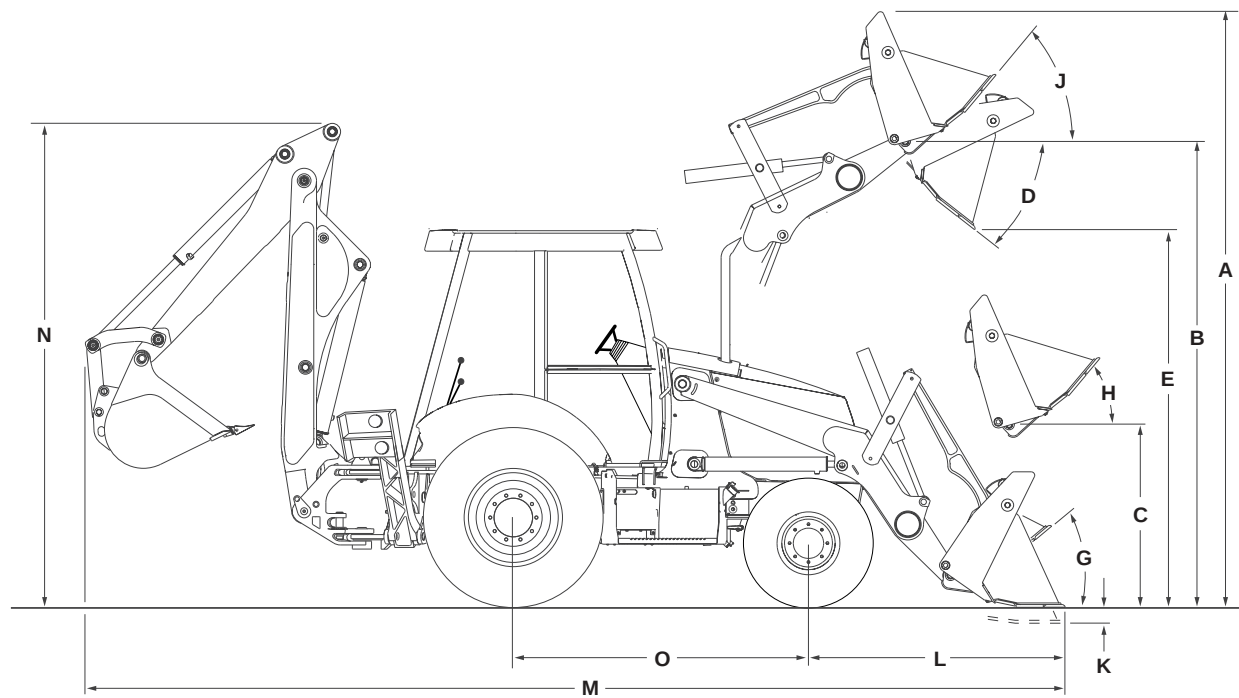
Universal Buckets

Width	Weight	Heaped
12"	290 lb	3.40 ft ³
(305 mm)	(132 kg)	(0.10 m ³)
16"	346 lb	3.60 ft ³
(406 mm)	(157 kg)	(0.10 m ³)
18"	350 lb	5.30 ft ³
(457 mm)	(159 kg)	(0.15 m ³)
24"	413 lb	7.70 ft ³
(610 mm)	(187 kg)	(0.22 m ³)
30"	475 lb	10.20 ft ³
(762 mm)	(215 kg)	(0.29 m ³)
36"	535 lb	12.70 ft ³
(914 mm)	(243 kg)	(0.36 m ³)

High Capacity Buckets

Width	Weight	Heaped
24"	450 lb	8.50 ft ³
(610 mm)	(204 kg)	(0.24 m ³)
30"	517 lb	10.60 ft ³
(762 mm)	(235 kg)	(0.3 m ³)

NOTE: Turning diameter dimensions curb to curb w/general purpose bucket.



LOADER DIMENSIONS

General Purpose Bucket 4 IN 1® Bucket

A. Overall operating height – fully raised	14'2" (4.32 m)	14'6" (4.43 m)
Height to –		
B. Bucket hinge pin fully raised.....	11'5" (3.47 m).....	11'5" (3.47 m)
C. Bucket hinge pin @ SAE carry	13.7" (349 mm).....	14.9" (379 mm)
D. Dump angle @ full height.....	45°	45°
E. Dump clearance @ full height, 45° dump –		
Bucket.....	9'0" (2.75 m)	9'2" (2.78 m)
Clam open.....	NA	9'10" (3.0 m)
F. Dump reach @ full height, 45° dump –		
Bucket	27.5" (699 mm)	25.9" (659 mm)
Clam open.....	NA	11.5" (293 mm)
Bucket rollback –		
G. @ groundline	40°	40°
H. @ SAE carry	45°	45°
J. @ full height.....	Adjustable	Adjustable
K. Digging depth below grade –		
Bucket flat.....	3.8" (96 mm)	4.3" (109 mm)
Clam open (dozing)	NA	1.7" (42 mm)
L. Reach from front axle centerline – bucket on ground	77.6" (1.97 m).....	75.2" (1.91 m)
Lift capacity to full height	7,327 lb (3323 kg)	7,437 lb (3373 kg)
Breakout force –		
Lift cylinders.....	10,729 lbf (47 725 N) ..	10,294 lbf (45 790 N)
Dump cylinders	10,980 lbf (48 841 N) ..	12,004 lbf (53 396 N)
Bucket cutting edge width.....	93" (2.36 m).....	93" (2.36 m)
Maximum grading angle	116°	116°
Maximum clam opening.....	NA	38.3" (972 mm)
Moldboard height	NA	36.8" (934 mm)
Raising time to full height	4.7 sec.....	4.7 sec
Bucket dumping time.....	1.2 sec.....	1.2 sec
Lowering time –		
Power down	2.8 sec.....	2.8 sec
Return-to-dig.....	3.1 sec.....	3.1 sec
Clam –		
Open time	NA.....	2.3 sec
Close time	NA.....	2.3 sec

NOTE: Loader dimensions taken with 4WD.

DIMENSIONS

		Standard Backhoe	Extendahoe®	
			Retracted	Extended
M.	Overall transport length –			
	General purpose bucket.....	23'7" (7.13 m)	23'7" (7.19 m)	NA
	4 IN 1® bucket.....	22'7" (6.88 m)	22'8" (6.91 m)	NA
	Overall transport width.....	7'9" (2.36 m)	7'9" (2.36 m)	NA
	Height –			
	To top of canopy.....	8'11" (2.73 m)	8'11" (2.73 m)	8'11" (2.73 m)
	To top of cab.....	8'10" (2.69 m)	8'10" (2.69 m)	8'10" (2.69 m)
	To top of exhaust stack.....	8'7" (2.62 m)	8'7" (2.62 m)	8'7" (2.62 m)
N.	Transport.....	11'2" (3.41 m)	11'7" (3.54 m)	NA
	Ground clearance at backhoe frame.....	14.6" (371 mm)	14.8" (375 mm)	14.8" (375 mm)
	Angle of departure.....	23°	23°	23°
	Front wheel tread –			
	2WD.....	72.6" (1.84 m)	72.6" (1.84 m)	NA
	4WD.....	73.4" (1.86 m)	73.4" (1.86 m)	NA
	Rear wheel tread.....	69.9" (1.78 m)	69.9" (1.78 m)	NA
O.	Wheelbase –			
	2WD.....	84" (2.13 m)	84" (2.13 m)	NA
	4WD.....	84.5" (2.15 m)	84.5" (2.15 m)	NA

NOTE: Dimensions taken with 21L x 24 rear tires and 14.5/75L x 16.1 front tires except that data marked 4WD is taken with 14 x 17.5 front tires.

CYLINDERS

	Bore Diameter	Rod Diameter	Stroke
Loader			
Lift (2).....	3.5" (89 mm)	1.75" (44.5 mm)	30.2" (766 mm)
Bucket (2).....	3.25" (83 mm)	1.75" (44.5 mm)	20.6" (522 mm)
4 IN 1® clam (2).....	3.0" (76 mm)	1.75" (44.5 mm)	9.1" (231 mm)
Backhoe			
Boom.....	5.5" (139.7 mm)	2.5" (63 mm)	38.4" (976 mm)
Dipperstick.....	5.5" (139.7 mm)	2.75" (69.9 mm)	22.2" (564.2 mm)
Bucket.....	3.75" (95 mm)	2.75" (69.9 mm)	34.3" (872 mm)
Extendahoe®.....	3.0" (76 mm)	1.75" (44.5 mm)	48.0" (1.22 m)
Swing (2).....	4.0" (101.6 mm)	2.0" (50.8 mm)	11.5" (292 mm)
Stabilizer (2).....	5.0" (127 mm)	2.25" (57.2 mm)	20.4" (519.4 mm)
Steering			
2WD.....	2.75" (69.9 mm)	1.5" (38.1 mm)	6.7" (170 mm)
4WD.....	2.48" (63 mm)	1.5" (38.1 mm)	9.53" (242 mm)

BACKHOE LIFT CAPACITIES

Boom and Dipper Lift Capacities are rated per SAE J31 and are 87% of the maximum hydraulic lift force available with the specified options.

Boom Lift	Standard Backhoe		Extendahoe®			
	Distance from swing pivot (m)	Backhoe lift capacity - lb (kg)	Retracted		Extended	
			Distance from swing pivot (m)	Backhoe lift capacity - lb (kg)	Distance from swing pivot (m)	Backhoe lift capacity - lb (kg)
+18' (5.48 m)						1,940 (880)
+16' (4.87 m)		2,870 (1302)			13'6" (4.11)	2,200 (998)
+14' (4.27 m)	9'9" (2.97)	3,590 (1628)	10'8" (3.25)	3,310 (1501)	15'5" (4.70)	2,300 (1043)
+12' (3.66 m)	12'1" (3.69)	3,670 (1665)	12'9" (3.89)	3,280 (1488)	16'10" (5.13)	2,420 (1098)
+10' (3.05 m)	13'8" (4.16)	3,670 (1665)	14'2" (4.32)	3,410 (1547)	17'11" (5.46)	2,370 (1075)
+8' (2.44 m)	14'8" (4.47)	3,620 (1642)	15'2" (4.62)	3,330 (1510)	18'9" (5.72)	2,420 (1098)
+6' (1.83 m)	15'3" (4.65)	3,550 (1610)	15'11" (4.85)	3,390 (1538)	19'3" (5.87)	2,420 (1098)
+4' (1.22 m)	15'8" (4.77)	3,460 (1569)	16'3" (4.96)	3,280 (1488)	19'7" (5.97)	2,310 (1048)
+2' (0.61 m)	15'10" (4.82)	3,370 (1529)	16'4" (4.98)	3,210 (1456)	19'8" (5.99)	2,290 (1039)
Ground Level	15'7" (4.75)	3,330 (1510)	16'1" (4.91)	3,120 (1415)	19'6" (5.94)	2,260 (1025)
-2' (0.61 m)	15'1" (4.60)	3,250 (1474)	15'8" (4.77)	3,010 (1365)	19'2" (5.84)	2,230 (1012)
-4' (1.22 m)	14'4" (4.37)	3,110 (1411)	14'11" (4.55)	2,950 (1338)	18'6" (5.64)	2,220 (1007)
-6' (1.83 m)	13'2" (4.01)	3,040 (1379)	13'9" (4.19)	2,850 (1293)	17'8" (5.38)	2,140 (971)
-8' (2.44 m)	11'5" (3.48)	2,960 (1343)	12'2" (3.71)	2,840 (1288)	16'6" (5.03)	2,110 (957)
-10' (3.05 m)	8'9" (2.67)	2,960 (1343)	9'10" (2.99)	2,810 (1275)	14'10" (4.52)	2,090 (948)
-12' (3.66 m)		2,930 (1329)	5'8" (1.72)	2,880 (1306)	12'9" (3.89)	2,180 (989)
-14' (4.27 m)					9'9" (2.97)	2,240 (1016)
-15' (4.57 m)					6'0" (1.83)	2,490 (1129)
Dipper Lift						
+16' (4.87 m)					12'10" (3.91)	2,810 (1275)
+14' (4.27 m)	9'5" (2.87)	4,800 (2177)	10'2" (3.10)	4,850 (2200)	14'0" (4.27)	2,940 (1334)
+12' (3.66 m)	10'7" (3.23)	5,290 (2399)	11'2" (3.40)	5,310 (2409)	14'7" (4.45)	3,080 (1397)
+10' (3.05 m)	11'0" (3.35)	5,580 (2531)	11'6" (3.50)	5,510 (2500)	14'9" (4.50)	3,100 (1406)
+8' (2.44 m)	10'7" (3.23)	5,750 (2608)	11'2" (3.40)	5,720 (2595)	14'8" (4.47)	3,150 (1429)
+6' (1.83 m)	9'4" (2.84)	5,630 (2554)	10'1" (3.08)	5,740 (2604)	14'0" (4.27)	3,190 (1447)
+4' (1.22 m)	6'0" (1.83)	6,490 (2944)	7'4" (2.23)	6,590 (2989)	12'9" (3.89)	3,290 (1492)

BACKHOE OPERATIONAL DATA

	Standard Backhoe		Extendahoe®	
			Retracted	Extended
Digging depth –				
Maximum	15’11” (4.85 m).....	15’11” (4.85 m).....	19’11” (6.07 m)	
Maximum w/hi-capacity bucket ...	16’4” (4.98 m)	16’4” (4.98 m).....	20’4” (6.20 m)	
2’ (610 mm) flat bottom.....	15’10” (4.83 m)	15’10” (4.83 m)	19’10” (6.05 m)	
8’ (2.44 m) flat bottom.....	14’11” (4.55 m).....	14’11” (4.55 m)	19’2” (5.84 m)	
Overall reach from –				
Rear axle centerline.....	23’3” (7.09 m)	23’3” (7.09 m)	27’2” (8.28 m)	
Swing pivot	19’8” (5.99 m)	19’8” (5.99 m)	23’7” (7.19 m)	
Loading height	11’5” (3.48 m).....	11’5” (3.48 m)	13’9” (4.19 m)	
Loading reach – dipper retracted	9’6” (2.90 m)	9’6” (2.90 m)	12’9” (3.89 m)	
Swing arc.....	180°	180°	180°	
Bucket rotation –				
#1 position.....	164°	164°	164°	
#2 position.....	200°	190°	190°	
Stabilizer spread – operating.....	11’1” (3.38 m).....	11’1” (3.38 m).....	11’1” (3.38 m)	
Digging force –				
Bucket cylinder	14,718 lbf (65 469 N).....	14,718 lbf (65 469 N).....	14,718 lbf (65 469 N)	
Dipper cylinder	8,449 lbf (37 583 N).....	8,449 lbf (37 583 N).....	5,999 lbf (26 685 N)	
	w/bucket @ 50°	w/bucket @ 50°	w/bucket @ 51°	

Leveling angle

maximum slope that backhoe

will make vertical cut 12° 12° 12°

NOTE: Lift capacities apply straight to the rear of prime mover. Equipped with 24" (610 mm) Universal H.D. trenching bucket and Case coupler except as noted.

STANDARD EQUIPMENT

OPERATOR'S COMPARTMENT

See page 2

ENGINE

Case 445T/M2 turbocharged diesel
Integral crank driven balancer
Automatic fan belt tensioner
Viscous fan drive
Integral engine oil cooling
Fuel filter w/water trap
KKSBB starter timing control
Dual element air cleaner
with integral pre-cleaner
90 amp alternator
850 CCA 12-volt battery
Heavy-duty radiator w/deaeration
bottle
Non-spark-arresting muffler

OPTIONAL EQUIPMENT

OPERATOR'S COMPARTMENT

Cab with –
Heater
Defroster
Dome light
Wipers, front and rear
Tinted glass
Floor mat
Side window partial hold open
Inside release for side windows
Operator Convenience Package
Tilt wheel
Windshield washer w/adjust-
able nozzles (front & rear)
Sun visor
Deluxe Cab Package
Operator Convenience Package
PLUS
Vinyl-covered interior
Radio-ready kit w/antenna and
speakers
Reduced sound level to 72 dB(A)
Vinyl or cloth-covered mechanical
suspension seat
Air Ride suspension seat
3" (76 mm) retractable seat belt
Cab air-conditioning, 100% filtered
air, in-cab filter access, 8
adjustable roof vents, 2 floor
vents, w/heater
Ride Control
Cab right door

LOADER

See page 2

BACKHOE

See page 2

POWERTRAIN

2WD
4F/4R Power shuttle synchromesh
transmission
Torque converter
Transmission de-clutch
Electro-hydraulic differential lock
Hydrostatic steering
Wet disc brakes
Remote lube front axle pivot

HYDRAULICS

2-spool loader control valve
6-spool backhoe control valve
Heavy-duty oil cooler

OTHER

Forward tilt engine hood
Replaceable, molded front bumpers
Front/rear tie downs
Reflective logos
Lights - Cab and Canopy
2 Rear tail/stop
2 Front flashers/turn
2 Rear flashers/turn
4 Front & 4 rear adjustable
halogen lights (55 w)

Canopy Convenience Package

Front windshield w/wiper &
washer
85 dB(A) sound
Floor mat
Sun visor

LOADER

Hydraulic attachment coupler
Attachment auxiliary hydraulics
Buckets (see page 2)

BACKHOE

Case hydraulic coupler
Buckets (see page 2)
Extendahoe®
Two-lever control
Pilot Operated Control System
Fingertip Proportional
Electrohydraulic stabilizer controls.
Thumb operated Proportional
Electrohydraulic Extendahoe
control
Thumb operated horn button
Thumb operated Auxiliary
Hydraulic Control
Infinitely Adjustable Towers
In-Cab Switchable "Excavator to
Backhoe" control pattern change
Stabilizer pads
Flip-over
Rubber pad
Front counterweights
440 lb (200 kg)
900 lb (408 kg)

ENGINE

Cold weather grid heater starting aid
Dual, 12-volt, 600CCA batteries
Exhaust aspirated air cleaner

POWERTRAIN

4WD w/outboard planetary drive,
on-the-go push-button activation
and 14 x 17.5 front tires
Powershift transmission with
Autoshift (4WD unit only)

HYDRAULICS

Auxiliary backhoe uni-directional
hydraulics
Auxiliary backhoe bi-directional
hydraulics
Hand lever operated for manual
controls
Button operated for pilot controls

OTHER

Outside breakaway mirror
Rear fender extension
Tool box
Special paint

CASE CONSTRUCTION EQUIPMENT CONTACT INFORMATION

NORTH AMERICA/MEXICO:

700 STATE STREET
RACINE, WISCONSIN 53404

LATIN AMERICA:

AV. GENERAL DAVID SARNOFF 2237
32210 – 900 CONTAGEM – MG
BELO HORIZONTE BRAZIL

EUROPE/AFRICA/MIDDLE EAST:

18, PLACE DES NYMPHEAS
ZI PARIS NORD 11 95915
ROISSY CDG CEDEX FRANCE

ASIA PACIFIC:

31-67 KURRAJONG ROAD
ST. MARY'S
NEW SOUTH WALES 2760 AUSTRALIA

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

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IMPORTANT: Case, LLC reserves the right to
change these specifications without notice and
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