

655 CRAWLER LOADER

32,900 lb (12 687 kg)

Transport Height.....	101.5 in. (3.09 m)
Transport Length.....	18 ft 3 in. (5.56 m)
Machine Width.....	7 ft 1 in. (2.1 m)

ENGINE.....John Deere 300 Series

Number of Cylinders and Displacement.....	6 cylinders, 414 cu in. (6.8 L)
Air Intake System.....	Turbocharged
Bore and Stroke.....	4.19 x 5 in. (106 x 127 mm)
Net hp at 2100 rpm.....	110 SAE hp (82 kW) DIN 82 kW
Maximum Torque at 1300 rpm.....	345 lb-ft (468 N•m)
Nozzle Opening Pressure:	
New.....	3700 ± 50 psi (25 510 ± 345 kPa)
Used.....	3500 ± 50 psi (24 135 ± 345 kPa)
Valve Clearance (Cold):	
Intake.....	0.014 in. (0.36 mm)
Exhaust.....	0.018 in. (0.46 mm)
Oil Pressure at Fast Idle.....	50 ± 15 psi (345 ± 105 kPa)
Static Injection Pump Timing.....	Timing lines aligned w/ flywheel located at TDC
Dynamic Injection Pump Timing at Rated Load rpm*.....	15 + 0 - 1° BTDC
Speeds:	
Slow idle.....	975—1000 rpm (disconnected clutch engaged)
Fast Idle.....	2275—2300 rpm (disconnected clutch engaged)
Full Load Rating.....	2100 rpm
Cylinder Pressure Hot (Min).....	350 psi (2415 kPa) cranking w/ injectors removed
Turbo Boost Pressure at Full Load Rating.....	9—12 psi (62—83 kPa)
Flywheel Teeth.....	129

Note: *For latest information, see Dealer Technical Assistance Center (DTAC) Solution K000413.

TRANSMISSION

Model and Speeds.....	Hydrostatic: variable speed forward and reverse
Charge Pressure in Neutral.....	260—340 psi (1795—2345 kPa)
High Pressure Relief.....	6100—6500 psi (42 100—44 820 kPa) in forward and reverse
Oil Cooler Bypass Valve.....	40 psi (275 kPa)
Maximum Engine rpm Pulldown.....	1800 rpm

HYDRAULIC SYSTEM—Open-Center

Pump Size.....	6.88 cu in. (112.7 cm ³)
Pump Flow (Min):	
New.....	54 gpm (204.7 L/min)
Used.....	49.5 gpm (187.6 L/min) at 2250 psi (15 515 kPa) and 2300 rpm

RELIEF VALVE SETTINGS

System Relief Valve:	
Loader.....	2250 + 175 - 0 psi (15 515 + 1210 - 0 kPa)
Circuit Relief Valves:	
Auxiliary Lift and Lower.....	2750 + 225 - 0 psi (18 960 + 1550 - 0 kPa)
Boom Lift and Lower.....	2750 + 225 - 0 psi (18 960 + 1550 - 0 kPa)
Bucket Dump.....	2750 + 225 - 0 psi (18 960 + 1550 - 0 kPa)
Bucket Rollback.....	2750 + 225 - 0 psi (18 960 + 1550 - 0 kPa)

Continued on next page

CYCLE TIMES (At Fast Idle and Hot Oil)

Boom Lower (Float)	3.2 sec
Boom Raise	5.8 sec
Bucket Dump	1.3 sec

LUBRICANTS

See front of this book for the codes [].

CAPACITIES

	U.S.	Imp.	Metric
Engine:			
Cooling System [N]	7 gal	5.8 gal	26.5 L
Crankcase w/ Filter [E]	20 qt	16.7 qt	18.9 L
Final Drive, each:			
1st reduction [J]	5.375 gal	4.5 gal	20.3 L
2nd reduction [J]	3.5 gal	2.9 gal	13.2 L
Splitter [M]	1.5 gal	1.3 gal	5.7 L
Hydraulic System [C]	18 qt	15.0 qt	17.0 L
Hydrostatic Drive [L]	33 gal	27.5 gal	124.9 L
Fuel Tank	73 gal	60.8 gal	276.3 L