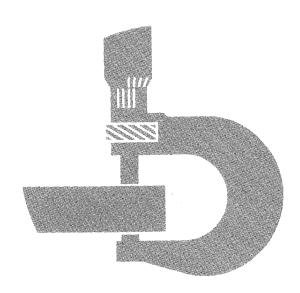
444C Loader



TECHNICAL MANUAL

444C LOADER TECHNICAL MANUAL TM-1227 (FEB-84)

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All information, illustrations and specifications contained in this technical manual are based on the latest information available at the time of publication. The right is reserved to make changes at any time without notice. Wherever applicable, specifications and design information are in accordance with SAE and ICED standards.

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A JOHN DEERE ILLUSTRUCTION
Previous Edition

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INTRODUCTION

This technical manual is part of a twin concept of service.

FOS Manuals - for reference.

Technical Manuals - for actual service.

The two kinds of manuals work as a team to give you both the general background and technical details of shop service.

Fundamentals of Service (FOS) Manuals cover basic theory of operation, fundamentals of troubleshooting, general maintenance, and basic types of failures and their causes. FOS Manuals are for training new personnel and for reference by experienced technicians.

Technical Manuals are concise service guides for a specific machine. Technical manuals are on-the-job guides containing only the vital information needed by an experienced service technician.

Some features of this technical manual:

John Deere ILLUSTRUCTION format emphasizing more detailed pictures and a minimum use of words.

Detailed repair procedures outlined in individual section.

System diagnostic testing detailed in separate section.

Table of contents of all sections at the front of the manual and a listing of all groups and headings at the front of each section.

Special tools and specifications listed at the front of each group they are used in.

Special tools illustrated in numerical order at end of manual.

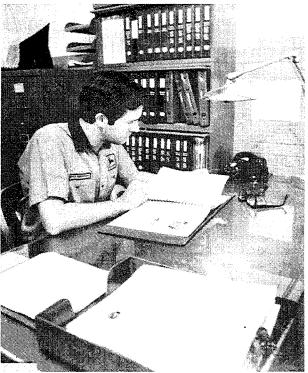
Alphabetical listing of all major components, specifications, and special tools.

General specifications, lubrication requirements, and a summation of safety rules.

This technical manual was planned and written for you - an experienced service technician. Keep it in a permanent binder in the shop where it is handy. Refer to it whenever in doubt about correct service procedures or specifications.

Using the technical manual as a guide will reduce error and costly delay. It will also assure you the best in finished service work.





02A;X2253N, X2252N T09;III16 090281

SAFETY AND YOU



CAUTION: This safety symbol followed by the word "caution" identifies important safety messages in this manual and on the loader or compactor. When you see this symbol, be alert to the possibility of personal injury and carefully read the message that follows.

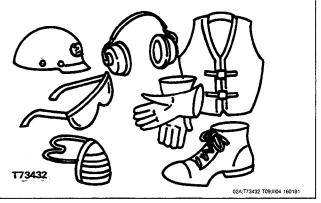


Be prepared if an accident or fire should occur. Know where the first aid kit and the fire extinguishers are located - know how to use them.



02A;T27504 N T09;III03 160181

Wear safety equipment.



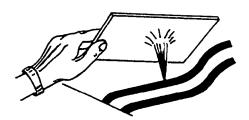
I-II-02 Litho in U.S.A. TM-1227 (Dec-80) Wear fairly tight clothing.





CAUTION: Escaping fluid under pressure can have sufficient force to penetrate the skin, causing serious injury. Before disconnecting lines, be sure to relieve pressure. Before applying pressure, be sure connections are tight and lines, pipes and hoses are not damaged. Use a piece of cardboard or wood, rather than hands, to search for leaks.

If injured by escaping fluid, see a doctor at once. Serious infection or reaction can develop if proper medical treatment is not administered immediately.



02A;T45794 T09;III17 090281

KEEP SHOP AND STORAGE AREA CLEAN

Maintenance area should be adequately vented.

Keep maintenance area clean and dry.

Store flammable materials in a cool and well-vented area out of reach of unauthorized personnel.



02A;T27508 N T09;III07 160181

FOLLOW SAFE WORKING CONDITIONS

Perform work on equipment only if authorized to do so.

Follow recommended procedures.

Do not service equipment while it is being operated or engine is running.

Always use two service technicians - one, the operator at the controls, the other checking within sight of the operator.

Keep hands away from moving parts.

Support all raised equipment.

Do not work under raised bucket.

Always lower bucket before working on it.

If machine is on an incline, block it securely.

Use hoisting equipment for lifting heavy parts.

Wear safety glasses when drilling, grinding or hammering metal.

Do not use open flame around machine.





2A;T32709 N, T49041 N T09;III08 19018

OBSERVE SERVICE PRECAUTIONS

Keep all equipment free of dirt and oil.

Remove oil, grease, mud, ice, or snow from floor of operator's compartment or steps.

Do not remove radiator filler cap until coolant temperature is below the boiling point. Then loosen cap slowly to relieve pressure before removing.

Check exhaust system periodically for excessive leakage.

Relieve hydraulic pressure before working on hydraulic system.

Use the correct test group when checking hydraulic pressure.

Discharge accumulators completely before recharging or servicing.



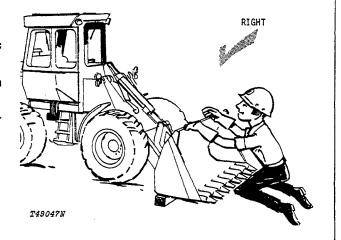
02A;T49043N T09;III14 090281

OBSERVE REPAIR PRECAUTIONS

Relieve hydraulic pressure before working on hydraulic system.

Disconnect batteries before repairing the electrical system or performing a major overhaul.

Securely block bucket before changing cutting edges. Wear gloves when working with sharp edges.



02A:T49047 N T09;III15 090281

CHECK SAFETY EQUIPMENT ON MACHINE

Check that all protective devices (guards, canopies, shields, ROPS, seat belts, etc.) are installed and secured on machine.

Inspect machine carefully for leakage from lines, hoses and fittings.



02A;T32708 N T09;III11 190181

AVOID EXPLOSIONS OR FIRE

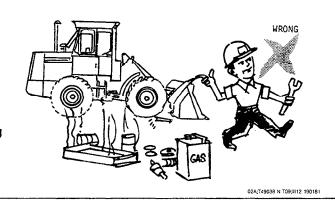
Do not smoke while refueling.

Do not smoke while handling highly flammable materials.

Shut off engine when refueling.

Use care in refueling if engine is hot.

Use good commercial, nonflammable solvents for cleaning parts.



OBSERVE BATTERY PRECAUTIONS

Provide adequate ventilation when charging batteries.

Do not place metal objects across posts to check charge.

Do not smoke near battery.

Do not allow sparks or open flame near battery.



02A;T27506 N T09;III 13 190181

444C LOADER

(Specifications and design subject to change without notice. Wherever applicable, specifications are in accordance with ICED and SAE Standards. Except where otherwise noted, specifications are based on a machine equipped with all standard equipment, 15.5-25, 8 ply loader-tread tires, ROPS cab, full fuel tank, and 175 lb [79 kg] operator.)

Power (@2400 engine		DIN			
Gross					
Net engine flywheel power is for an engine equipped with fan, air cleaner, water pump, lubricating oil pump, fuel pump alternator and muffler. The gross engine power is without fan. Flywheel power ratings are under SAE standard conditions of 500-ft. altitude and 85°F temperature and DIN 70 020 conditions of 760 mm Hg barometer (sea level) and 20°C temperature. No derating is required up to 5,000 ft. (1500 m) altitude.					
Bore and stroke Piston displacement Compression ratio	Engine: John Deere diesel; 6-cylinder, 4-stroke cycle. Bore and stroke4.02 x 4.33 in. (102 x 110 mm) Piston displacement				
(31.5 kg-m) (ACT option) 244 lb-ft (331 N·m) (33.8 kg/m) Torque rise					
controlled bypass Fan: w/o air conditioner Blower w/air conditioner Suction Air cleaner w/restriction indicator Dry Electrical system 12-volt w/alternator Batteries (two 12-volt) 25 amps at 80°F (27°C) Reserve capacity: 170 min. ea. Alternator 62 amp					
Torque Converter:					
Type Torque multiplication		5.44 to 1			
Transmission Power Shift planetary					
Forward Speeds 1 2 3 4	mph 0-2.9 2.9-6.5 0-11.0 11.0-24.6	km/h 0-4.7 4.7-10.5 0-17.7 17.7-39.6			
Reverse Speeds 1 2	0-3.9 3.9-8.8	0-4.7 6.3-14.2			
Note: Shift from 1st to 2nd and 3rd to 4th is automatic.					

Diff	erer	ntial	s:
------	------	-------	----

Drive Axles ...Inboard-mounted planetary gears to each wheel. Front axle fixed. Rear axle oscillates 22-degrees total. [13.5-in. (343 mm) vertical travel at center of tire].

Brakes:

Service Power-actuated, 4-wheel inboard mounted, wet-disk. Foot operated by either pedal. Left pedal also disconnects transmission.

Parking 10 x 1.5 in. (254 x 38 mm) expanding shoe on transmission output shaft, foot-operated. Includes transmission disconnect. Warning light on instrument panel. Warning buzzer.

Steering Full power steering. Frame articulated 80° by two hydraulic cylinders.

Cylinder Size:

Stroke	
Bore	
Rod diameter	
Turning radius	Measured to center line of
outside tire	13 ft. 10 in. (4.22 m)

Hydraulic Systems:

Loader functions ...Independent transmission driven gear pump delivers 40.0 gpm (2.52 L/s) at 600 psi (4137 kPa)(42.2 kg/cm²) and 2400 engine rpm. 2250 psi (15 514 kPa)(158.2 kg/cm²) relief-valve pressure setting.

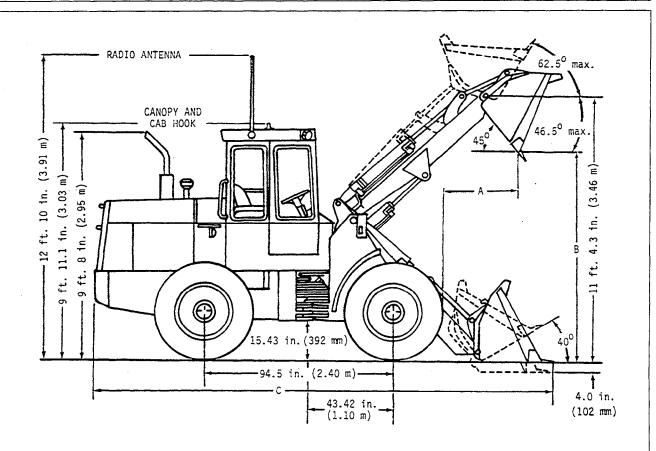
ControlSingle-lever;dual hydraulic valve. Optional triple hydraulic valve with separate lever. Steering and brakes .. Engine-driven, 8-piston, variable-displacement pump delivers 20.6 gpm (1.30 L/s) at 1800 engine rpm and 2000 psi (13 790 kPa) (140.6 kg/cm²). Maximum system pressure is 2400 psi (16 548 kPa)(168.7 kg/cm²)

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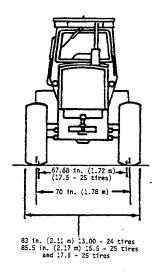
General Specifications

Hydraulic Cylinders: Bore Stroke Boom, two 5.25 in. 22.5 in. (571 mm) Bucket, one 5.25 in. 25.30 in. (133 mm) (643 mm) Cylinder rods Ground, heat-treated, chrome plated, polished. Boom and bucket cylinder rods				
Boom, two (1.23 mm) (571 mm) Bucket, one (1.23 mm) (671 mm) Bucket, one (1.23 mm) (671 mm) Cylinder rods Ground, heat-treated, chrome plated, polished. Boom and bucket cylinder rods	Hydraulic Cylinders:	Bore	Stroke	Key switch
Cigar lighter Combination disconnect Cigar lighter Cigar lighter Cigar lighter Combination disconnect Cigar light	·	5.25 in.	22.5 in.	Pushbutton safety start
Bucket, one (1.25 in. (25.30 in. (33 mm) (643 mm) Cylinder rods . Ground, heat-treated, chrome plated, polished. Boom and bucket cylinder rods 2.25 in. (57 mm) dia. Tiros: Tiros: Tiros: Tiros: Tiros: Special Equipment: 15.5-25, 8-ply-rating, L2 loader tread 15.5-25, 12-ply-rating, L2 loader tread 17.50-25, 12-ply rating, L2 loader tread 17.50-25,	•	(133 mm)	(571 mm)	Cigar lighter
Cylinder rods Ground, heat-treated, chrome plated, polished. Boom and bucket cylinder rods	Bucket, one	•	•	Transistorized voltage regulator
Cylinder rods Ground, heat-treated, chrome plated, polished. Boom and bucket cylinder rods			(643 mm)	Engine side shields w/locks
polished. Boom and bucket cylinder rods	Cylinder rods .Gr		` '	Transmission disconnect
Combination tail and brake lights Combination tail and brake lights	•		, ,	
Tires: 15.5-25, 8-ply-rating, L2 loader tread 15.5-25, 12-ply-rating, L2 loader tread 13.00-24, 8 ply-rating, L2 loader tread 13.00-24, 8 ply-rating, L2 loader tread 17.50-25, 12-ply rating, L2 loader tread 18.00-24, 8 ply-rating, L2 loader tread 18.00-25, 12-ply rating, L2 loader tread 18.00-26, 18-ply rating, L2 loader tread loader tread loader 18.00-26, 18-ply rating, L2 load				
Tires: 15.5-25, 8-ply-rating, L2 loader tread 15.5-25, 12-ply-rating, L2 loader tread 13.00-24, 8 ply-rating, L2 loader tread 17.50-25, 12-ply rating, L2 loader tread 18.50-25, 12-ply rating, L2 loader tread list listurent panel cover w/lock 18.50-25, 12-ply rating light sapple suspension seat vilock 18.50-25, 12-ply rating light sapple suspension feat rating aid articulation transport lock 18.50-25, 12-ply rating light sapple suspension seat, vinyl or cloth 18.50-25, 12-ply rating light sapple suspension seat, vinyl or cloth 18.50-25, 12-ply rating light sapple	boom and baonor	oyao. 1000 11		-
Transmission case and filters .40 qt. 33.3 qt. 37.9 Front and Rear differential .17 qt. 14.2 qt. 16.1 Loader hydraulic sump			(, , , , , , , , , , , , , , , , , , ,	
15.5-25, 12-ply-rating, L2 loader tread 13.00-24, 8 ply-rating, L2 loader tread 17.50-25, 12-ply rating, L2 loader tread 18.50-25, 12-ply rating, L2 loader tread 18.50-25, 12-ply rating, L2 loader tread 18.50-25, 12-ply rating laider 18.50-25, 12-ply rating		I O la salam troa	4	·
13.00-24, 8 ply-rating, G2 grader tread 17.50-25, 12-ply rating, L2 loader tread 17.50-25, 12-ply rating, L2 loader tread 17.50-25, 12-ply rating, L2 loader tread Wheel Treads: Front and rear				
17.50-26, 12-ply rating, L2 loader tread Wheel Treads: Front and rear				Dome light
Wheel Treads: Front and rear				
Front and rear	17.50-25, 12-ply ra	ating, L2 loader tr	ead	
Capacities U.S. Imp. Liters Cooling system .25 qt. 20.8 qt. 23.7 Fuel tank				
Capacities U.S. Imp. Liters Cooling system25 qt. 20.8 qt. 23.7 Fuel tank40 gai. 33.3 gal. 151.4 Crankcase11 qt. 9.2 qt. 10.4 Crankcase, including filter12 qt. 10.0 qt. 11.4 Transmission	Front and rear		70 in. (1.78 m)	Automatic return to dig
Capacities U.S. Imp. Liters Cooling system 25 qt. 20.8 qt. 23.7 Fuel tank 40 gai. 33.3 gal. 151.4 Crankcase 11 qt. 9.2 qt. 10.4 Crankcase, in- cluding filter 12 qt. 10.0 qt. 11.4 Transmission case and filters 40 qt. 33.3 qt. 37.9 Front and Rear differential 17 qt. 14.2 qt. 16.1 Loader hydraulic sump 56 qt. 46.7 qt. 53.0 Additional Standard Equipment: Adjustable cushioned seat with belt Engine side shields Front fenders Gauges Transmission oil temperature Transmission oil pressure Fuel Coolant temperature Engine oil pressure Electric hourmeter Voltmeter Instrument panel warning lights Parking brake Hydraulic filter bypass In an drifterer Hand grips Fixed drawbar Fixed drawbar Antifreeze Precleaner Cold weather starting aid Anticulation transport lock Low-maintenance batteries Special Equipment: ROPS canopy Adjustable suspension seat, vinyl or cloth Heater for canopy For ROPS cab: Air conditioner Radio—AM Mirrors Reverse warning alarm Triple hydraulic valve for loader Bucket teeth Auxilary bottom guard License plate bracket Automatic boom height control SMV emblem Auxiliary cutting edges Flashing and turn signal lights Rear-axle disconnect Hydraulic front differential lock Auxiliary spill guard Altitude-compensating turbocharger				
Cooling system25 qt. 20.8 qt. 23.7 Fuel tank40 gai. 33.3 gal. 151.4 Crankcase11 qt. 9.2 qt. 10.4 Crankcase, in- cluding filter12 qt. 10.0 qt. 11.4 Transmission case and filters40 qt. 33.3 qt. 37.9 Front and Rear differential17 qt. 14.2 qt. 16.1 Loader hydraulic sump56 qt. 46.7 qt. 53.0 Additional Standard Equipment: Adjustable cushioned seat with belt Engine side shields Front fenders Gauges Transmission oil temperature Transmission oil temperature Transmission oil pressure Fuel Coolant temperature Engine oil pressure Electric hourmeter Voltmeter Instrument panel warning lights Parking brake Hydraulic filter bypass Fixed drawbar Antifreeze Precleaner Coold weather starting aid Articulation transport lock Low-maintenance batteries Special Equipment: ROPS canopy Adjustable suspension seat, vinyl or cloth Heater for canopy For ROPS cab: Air conditioner Radio—AM Mirrors Reverse warning alarm Triple hydraulic valve for loader Bucket teeth Triple hydraulic valve for loader Bucket teeth Auxiliary bottom guard License plate bracket Automatic boom height control SMV emblem Auxiliary cutting edges Flashing and turn signal lights Rear-axle disconnect Hydraulic front differential lock Auxiliary spill guard Articulation transport lock Low-maintenance batteries Cold weather starting aid Articulation transport lock Low-maintenance batteries Articulation transport lock Low-maintenance batteries FROPS canopy Adjustable suspension seat, vinyl or cloth Heater for canopy For ROPS cab: Air conditioner Radio—AM Mirrors Reverse warning alarm Triple hydraulic valve for loader Bucket teeth Auxiliary bottom guard License plate bracket Automatic boom height control SMV emblem Auxiliary spill guard Auxiliary spill guard Altitude-compensating turbocharger				-
Crankcase	Cooling system .	25 qt. 20.8	•	
Crankcase, including filter	Fuel tank		•	Antifreeze
cluding filter	Crankcase	11 qt. 9.2 (qt. 10.4	Precleaner
cluding filter				Cold weather starting aid
case and filters . 40 qt. 33.3 qt. 37.9 Front and Rear differential17 qt. 14.2 qt. 16.1 Loader hydraulic sump56 qt. 46.7 qt. 53.0 Additional Standard Equipment: Adjustable cushioned seat with belt Engine side shields Front fenders Gauges Transmission oil temperature Transmission oil pressure Fuel Coolant temperature Engine oil pressure Electric hourmeter Voltmeter Instrument panel warning lights Parking brake Hydraulic filter bypass Special Equipment: ROPS canopy Adjustable suspension seat, vinyl or cloth Heater for canopy For ROPS cab: Air conditioner Radio—AM Mirrors Reverse warning alarm Triple hydraulic valve for loader Bucket teeth Auxilary bottom guard License plate bracket Automatic boom height control SMV emblem Auxiliary cutting edges Flashing and turn signal lights Hydraulic front differential lock Auxiliary spill guard Altitude-compensating turbocharger	cluding filter	12 qt. 10.0	qt. 11.4	
Front and Rear differential . 17 qt. 14.2 qt. 16.1 Loader hydraulic sump 56 qt. 46.7 qt. 53.0 Additional Standard Equipment: Adjustable cushioned seat with belt Engine side shields Front fenders Gauges Transmission oil temperature Transmission oil pressure Fuel Coolant temperature Engine oil pressure Electric hourmeter Voltmeter Instrument panel warning lights Parking brake Hydraulic filter bypass Special Equipment: ROPS canopy Adjustable suspension seat, vinyl or cloth Heater for canopy For ROPS cab: Air conditioner Radio—AM Mirrors Reverse warning alarm Triple hydraulic valve for loader Bucket teeth Auxilary bottom guard License plate bracket Automatic boom height control SMV emblem Auxiliary cutting edges Flashing and turn signal lights Parking brake Hydraulic filter bypass Altitude-compensating turbocharger	Transmission			•
Rear differential17 qt. 14.2 qt. 16.1 Loader hydraulic sump	case and filters	40 qt. 33.3	qt. 37.9	
Rear differential17 qt. 14.2 qt. 16.1 Loader hydraulic sump	Front and			Special Equipment:
Loader hydraulic sump	Rear differential	17 qt. 14.2	qt. 16.1	-
sump	Loader hydraulic			
Additional Standard Equipment: Adjustable cushioned seat with belt Engine side shields Front fenders Gauges Transmission oil temperature Transmission oil pressure Fuel Coolant temperature Engine oil pressure Electric hourmeter Voltmeter Instrument panel warning lights Parking brake Hydraulic filter bypass Air conditioner Radio—AM Mirrors Reverse warning alarm Triple hydraulic valve for loader Bucket teeth Auxilary bottom guard License plate bracket Automatic boom height control SMV emblem Auxiliary cutting edges Flashing and turn signal lights Hydraulic front differential lock Auxiliary spill guard Altitude-compensating turbocharger	sump	56 qt. 46.7	qt. 53.0	· · · · · · · · · · · · · · · · · · ·
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Parking brake Auxiliary spill guard Hydraulic filter bypass Altitude-compensating turbocharger	· ·			
Hydraulic filter bypass Altitude-compensating turbocharger	•	warning lights		
Thinks of the second of the se				
Loader nydraulic system indicator light Emergency steering			liabt	
	Loader hydraulic	system indicator	iignt	Emergency steering

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DUOKETO	DIMENSIONS		
BUCKETS	A	В	С
1-1/2 cu. yd.	32.9 in.	9 ft. 1.2 in.	19 ft.
(1.15 m³)	(836 mm)	(2.77 m)	(5.80 m)
1-3/4 cu. yd. (1.34 m³)	34.33 in.	8 ft. 11.6 in.	19 ft. 2.4 in.
	(872 mm)	(2.73 m)	(5.85 m)
3 cu. yd.	41.83 in.	8 ft. 4.1 in.	20 ft. 1 in.
(2.29 m³)	(1062 mm)	(2.54 m)	(6.12 m)
1-1/2 cu. yd.	33.5 in.	8 ft. 5.7 in.	19 ft. 11.0 in.
multipurpose (1.15 m³)	(847 mm)	(2.58 m)	(6.07 m)



02A;T79070 T79071T09;HH03 B 200181

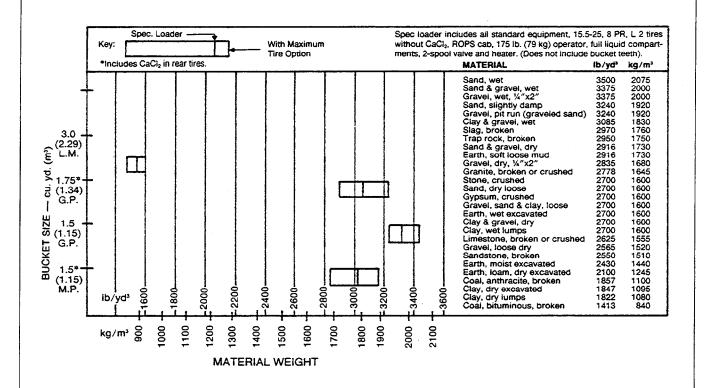
OPERATING	BUCKET				
INFORMATION	General purpose	General purpose	Light materials	Multipurpose	
Capacity, heaped, SAE	1-1/2 cu. yd.	1-3/4 cu. yd.	3 cu. yd.	1-1/2 cu. yd.	
	(1.15 m³)	(1.34 m³)	(2.29 m³)	(1.15 m³)	
Capacity, struck, SAE	1.22 cu. yd.	1.42 cu. yd.	2.49 cu. yd.	1.23 cu. yd.	
	(0.93 m³)	(1.09 m³)	(1.90 m³)	(0.94 m³)	
Bucket width	88 in.	92 in.	96 in.	88 in.	
	(2.23 m)	(2.34 m)	(2.44 m)	(2.23 m)	
Bucket weight	1190 lb.	1470 lb.	1920 lb.	2122 lb.	
	(540 kg)	(667 kg)	(871 kg)	(962 kg)	
Breakout force, J732C	16,985 lb.	15,680 lb.*	11,245 lb.	14,620 lb.	
SAE Standard using bucket	(75.5 kN)	(69.74 kN)	(52.02 kN)	(65.03 kN)	
hinge pin as pivot point	(7704 kg)	(7112 kg)	(5101 kg)	(6632 kg)	
Tipping load, straight max. reach	12,985 lb.	14,035 lb.*	12,230 lb.	10,840 lb.	
	(5890 kg)	(6306 kg)	(5547 kg)	(4917 kg)	
Tipping load, 40-deg. full turn	11,253 lb.	12,135 lb.	10,500 lb.	9270 lb.	
SAE	(5105 kg)	(5504 kg)	(4763 kg)	(4205 kg)	
Tipping load, 35-deg. turn	11,650 lb.	12,570 lb.	10,890 lb.	9630 lb.	
	(5280 kg)	(5700 kg)	(4940 kg)	(4940 kg)	
Circle diameter or turning clearance outside the bucket	32 ft.	32 ft. 2 in.	33 ft. 3 in.	32 ft. 6 in.	
	(9.76 m)	(9.80 m)	(10.13 m)	(9.91 m)	
Loader operating weight	18,315 lb.	19,535 lb.*	19,045 lb.	19,251 lb.	
	(8308 kg)	(8861 kg)	(8639 kg)	(8732 kg)	

 $^{^{\}star}$ Operating weight and specification with 1-3/4 cu. yd. (1.34 m³) bucket includes 75 % fill of CaCl $_{\circ}$ solution in rear tires. * SAE operating load specification for wheel loaders will not exceed 50% of the SAE full turn tipping load.

Add (+) or deduct (-) lb. (kg) as indicated for loader equipped with:	Loader Operating Weight	Tipping Load Straight	Tipping Load, 40-deg. Full Turn, SAE
Less ROPS cab	715 lb.	-600 lb.	560 lb.
	(324 kg)	(272 kg)	(254 kg)
ROPS canopy in lieu of ROPS cab	-275 lb.	-215 lb.	-205 lb.
	(125 kg)	(98 kg)	(93 kg)
13.00-24, 8-ply-rating, grader tread tires	+380 lb.	+250 lb.	-215 lb.
	(172 kg)	(113 kg)	(98 kg)
17.50-25, 12-ply-rating, loader tread tires	+645 lb.	+420 lb.	+365 lb.
	(292 kg)	(190 kg)	(166 kg)
Air conditioning	+70 lb.	+125 lb.	+105 lb.
	(32 kg)	(57 kg)	(48 kg)
Auxiliary cutting edge	+120 lb.	155 lb.	155 lb.
	(54 kg)	(70 kg)	(70 kg)
Auxiliary spill guard	+110 lb.	-75 lb.	75 lb.
	(50 kg)	(34 kg)	(34 kg)

All standard equipment and 15.5-25, 8-ply-rating tires	1-1/2 cu. yd. (1.15 m³) General purpose	1-3/4 cu. yd.* (1.34 m³) General purpose	3 cu. yd. (2.29 m³) Light materials	1-1/2 cu. yd (1.15 m³) Multipurpose
Loader less cab or canopy	3135	2910	1460	2570
	(1860)	(1727)	(866)	(1525)
Loader with canopy	3240	3000	1510	2660
	(1922)	(1780)	(896)	(1578)
Loader with cab	3300	3050	1540	2720
	(1958)	(1810)	(914)	(1614)

^{*}Standard operating weight plus 75% fill of CaCl, solution in rear tires.



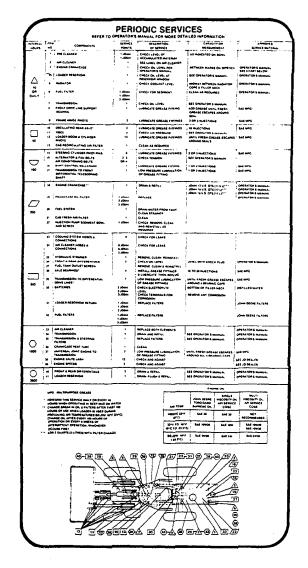
General	Snach	fications
General	Speci	acauons

Litho in U.S.A. I-III-06 TM-1227 (Dec-80)

GENERAL INFORMATION

Refer to the periodic service chart located on the inside of the left engine side shield when servicing the loader.

Your operator's manual contains more detailed information on servicing the loader.



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LUBRICANTS

Engine Oils

Use John Deere TORQ-GUARD SUPREME® engine

Use John Deere TORQ-GARD SUPREME SAE 10W-20 oil or equivalent during the first 100 hours of operation for break-in.

Oils other than John Deere TORQ-GARD SUPREME must have one of the following specifications.

Single Viscosity Oils

Multi-Viscosity Oils

API Service CD/SC MIL-L-2104C Series 3

API Service CC/SE

MIL-L-46152

Oil and Air Temperatures

	John Deere	Othe	r Oils
Air Temperature	TORQ-GARD SUPREME Oil	Single Vis- cosity Oil	Multi-Vis- cosity Oil
Above 32°F (0°C)	SAE 30	SAE 30	Not recom- mended
10°F to 32°F (23°C to 0°C)	SAE 10W-20	SAE 10W	SAE 10W-30
Below10°F (23°C)	SAE 5W-20	SAE 5W	SAE 5W-20

If you use SAE 5W-20 or SAE 5W oil, your engine may use more oil. Check the oil level regularly.

Transmission, Steering, and Brake System Oil

Above -20°F (-29°C), use John Deere Hydraulic Oil Type J14C, or an equivalent.

If temperatures are below -20° (-29°C), use John Deere HY-GARD Winter Grade Transmission and Hydraulic Oil (J20B).

John Deere HY-GARD Winter Grade Transmission and Hydraulic Oil (J20B) must not be used at sustained temperatures above 32°F (0°C).

Hydraulic and Differential Oils

Use John Deere HY-GARD® Transmission and Hydraulic Oil (J20B) or equivalent.

Grease

Use a SAE Multi-Purpose Grease containing 3-5% molybdenum disulfide for all grease fittings except axle bearings (Preferred).

You may also use:

- •John Deere Multi-Purpose Grease or equivalent.
- •SAE Multi-Purpose Grease

Use John Deere High Temperature Grease for axle bearings.

You may also use:

•SAE Multi-Purpose High Temperature Grease for temperatures above 150°F (66°C).

NOTE: John Deere High Temperature Grease may be used for all grease applications on the loader.

Storing and Handling Lubricants

Store lubricants in clean containers in an area protected from dust, moisture and other contamination.

When handling lubricants, use clean container.

T09;IIV06 210682

Section 01 WHEELS

CONTENTS

GROUP 0110 - POWERED WHEELS AND FASTENINGS

Special Tools	0110-01
Specifications	
Loader Wheel	0110-01
Loader Wheel Assembly	
Remove	0110-01
Install	0110-03

T09;010002 270782

SPECIAL TOOLS

NOTE: Order tools from your SERVICE-GARD™ Catalog, unless otherwise indicated.

Number

Heavy Duty Wheel Lift

D-05019ST D-24206WK

Shop Stand

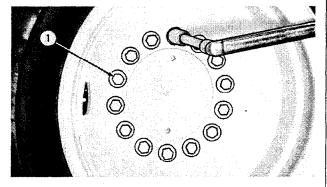
Use

Remove and install wheels

Supports the unit while removing wheels

LOADER WHEEL SPECIFICATION

1. Cap screw torque ... (410 \pm 40 N.m) 300 \pm 30 lb-ft



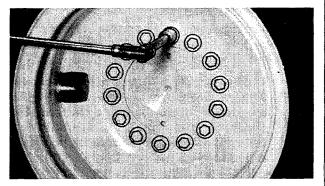
17A:T79309 T09:011020 030381

REMOVE LOADER WHEEL ASSEMBLY



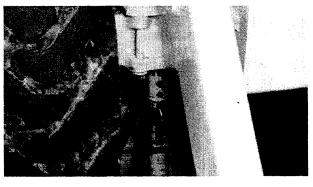
CAUTION: A loader wheel weighs approximately (807 kg) 1780 lbs.

1. Loosen cap screws before lifting off the ground.



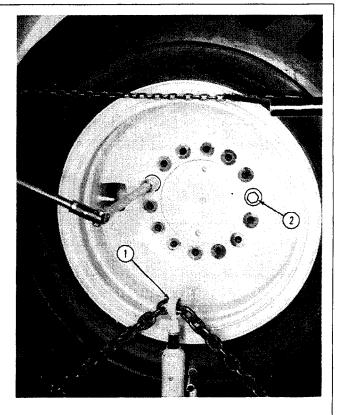
17A;T79310 T09;011021 030381

- 2. Lift the wheel off the ground using a service jack or hoist of at least (9000 kg) 10-Ton capacity.
- 3. Support the axle housing using a shop stand of at least (9000 kg) 10-Ton capacity.



17A;T79311 T09;011022 030381

- 4. Support wheel with the D-05019ST Wheel Lift (1). Fasten safety chain around the upper portion of tire.
- 5. Remove the cap screws (2). Pull wheel assembly away from axle.



17A;T79312 T09;011023 030381

REMOVE LOADER TIRE

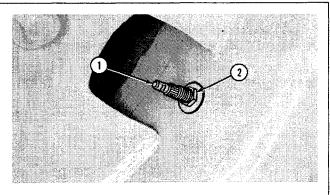
1. The tire can be removed without removing the wheel from the loader. See the John Deere Off-The-Road Tire Maintenance Manual to remove the tire from the wheel.



CAUTION: Failure to follow proper procedures when demounting a tire from a wheel or rim can produce an explosion which may result in serious bodily injury. DO NOT attempt to demount a tire unless you have the proper equipment and experience to perform the job safely. Have it done by a qualified tire repair service.

T09;011006 231280

- 2. Always completely deflate the tire by removing the valve core (1) from valve before attempting any demounting operation. Check the valve stem by running a probe through it to make sure the valve stem is not plugged. Remove valve nut (2).
- 3. Inspect all parts for damage; replace parts as necessary.



17A;T79313 T09;011024 030381

INSTALL LOADER TIRE



CAUTION: Failure to follow proper procedures when mounting a tire on a wheel or rim, can produce an explosion which may result in serious bodily injury. DO NOT attempt to mount a tire unless you have the proper equipment and experience to perform the job safely. Have it done by a qualified tire repair service.

NOTE: See the John Deere Off-The-Road Tire Maintenance Manual to mount the tire on the wheel.

1. Make sure all parts are clean and free from rust or grease before assembly.

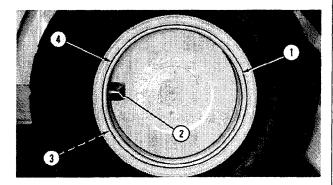
T09;011008 231280

- 2. To prevent slipping of the wheel under load, the inside and outside of wheel (1) must be free of paint, rust, oil, grease, dirt or other foreign material before installation.
- 3. Instal valve stem (2) in rim base and tighten valve core housing finger tight.
- 4. Put John Deere Non-Soap Lubricating Grease, or an equivalent, on threads of pipe cap (if equipped). Install pipe cap on valve stem shield.



CAUTION: Serious bodily injury can occur from explosion when mounting and inflating tires if safe procedures are not followed.

- 5. Before mounting tire on rim, add soap lubricant to beads of the tire and O-ring (3).
- 6. Before adding air to tire, make sure the back ring (4) fits tight against the base all around the circumference.
- 7. Clear the area of all persons.
- 8. Use a pressure-regulating valve with clip-on chuck and extension hose long enough to allow you to stand well to one side and NOT in front of the assembly while inflating.
- 9. Use only recommended air pressure. Pressure over this limit can cause explosion.
- 10. Add air until side flange of tire slides out against the back ring.
- 11. Before completely inflating tire, again make certain the back ring is in its proper groove completely around the rim.



Tire Size	Туре	Ply Rating	Operating Pressure
13.00-24	G2	8	(344.8 kPa) (3.4 bar) 50 psi
15.5-25	L2	8	(310.3 kPa) (3.1 bar) 45 psi
15.5-25	L2	12	(379.2 kPa) (3.7 bar) 55 psi
17.5-25*	L2	12	(379.2 kPa) (3.7 bar) 55 psi

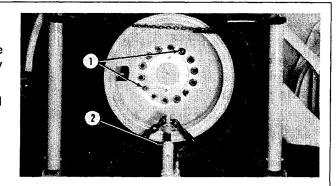
^{*}Use with log loader

12. Check air pressure in all tires with an accurate gauge having (6.89 kPa) (0.07 bar) 1 psi graduations. Be sure that tire pressures are equal for all four tires.

T09:011026 030381

INSTALL LOADER WHEEL ASSEMBLY

- 1. Thoroughly clean the cap screws, washers and the tapped holes in the flanged axle. Use compressed air to dry all parts and tapped holes.
- 2. Install special studs (1) in the flanged axle. The special studs are used as guides for installing loader wheels.
- 3. Use a D-05019ST Wheel Lift (2) to install the wheel.

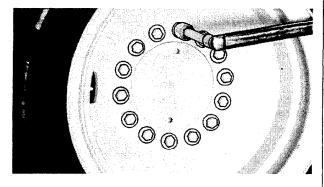


17A;T79315 T09;011027 030381

- 4. Install and tighten cap screws to (203 \pm 20 N.m) 150 \pm 15 lb-ft.
- 5. Lower the loader to the ground.

IMPORTANT: If a power wrench is used, be sure that the cap screws are engaged to prevent stripping. Operate the wrench slowly to prevent thread damage.

6. Cross tighten the cap screws to (410 \pm 40 N.m) 300 \pm 30 lb-ft.



17A:179316 T09:011028 030381

Section 02 AXLES AND SUSPENSION SYSTEMS

CONTENTS

GROUP 0200 - REMOVAL AND INSTALLATION	GROUP 0210 - DIFFERENTIAL OR BEVEL
Special Tools	DRIVE - Continued
Specifications	Differential Cover
Front Differential and Axle 0200-03	Remove
Rear Differential and Axle 0200-03	Disassemble
Front Axle and Differential Assembly	Assemble
Remove	Install
instali	Differential Input Quill
Rear Axle and Differential Assembly	Remove
Remove	Disassemble
Install	Assemble
Adjust	Adjust
7.0,20.	Cone Point
GROUP 0210 - DIFFERENTIAL OR BEVEL DRIVE	Pinion Shaft Preload 0210-23
Special Tools	Install
Specifications	Differential Assembly
Rear Oscillating Support 0210-01	Remove
Bevel Pinion Shaft Rolling Drag	Disassemble
Torque	Assemble
Bevel Pinion Shaft Nut	Instali
Input Quill Oil Seal	Adjust
Input Quill	Differential Preload 0210-41
Ring Gear Bushing	Differential Backlash 0210-42
Right Housing Cover	Test
Left Housing Cover	1000
Differential Housing Preload 0210-04	GROUP 0225 - INPUT DRIVE SHAFTS AND
Differential Housing Rolling	U-JOINTS
Drag Torque	Specifications
Differential Housing Backlash 0210-04	Double Universal Joint 0225-01
Differential Bearing Quill	Universal Joint Drive Shaft 0225-01
Differential Lock Line Connections 0210-05	Support Bearing
Differential Case	Rear Differential Drive Line 0225-02
Differential Case Cover	Double Universal Joint
Front Oscillating Support	Remove
Remove	Disassemble and Inspect 0225-04
Disassemble	Assemble
Assemble	Install
Instail	Support Bearing
Rear Oscillating Support	Remove
Remove	Install
Disassemble	Universal Joint Drive Shaft
Assemble	Remove
Install	Disassemble
	Assemble
	Install

Continued on next page

CONTENTS - Continued

GROUP 0225 - INPUT DRIVE SHAFT AND U-JOINTS - Continued Rear Differential Drive Line Remove	
Disassemble 0225-09 Assemble 0225-10 Install 0225-11	
GROUP 0250 - AXLE SHAFT, BEARINGS, REDUCTION GEARS	
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Specifications	
Axle Shaft	
Axle Housing	
Axle Housing	
Remove	
Disassemble	
Assemble	
Adjust	
Axle Shaft	
Install 0250-14	
Planet Pinion Carrier	
Remove	
Disassemble	
Assemble	

GROUP 0260 - HYDRAULIC SYSTEM	
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Specifications	
Differntial Lock Pressure	
Regulating Valve	0260-01
Differential Lock Pressure Regulating	
Valve	
Remove	0260-02
Install	0260-03
Differential Lock Solenoid Valve	
Remove	0260-05
Install	0260-06

T09;0200 55 270782

SPECIAL TOOLS

NOTE: Order tools from your SERVICE-GARD™ Catalog, unless otherwise indicated.

Number

Name

Use

D-01182AA

Shop Stands

Supports the unit while removing differentials

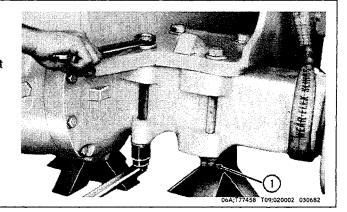
or

D-24206WK

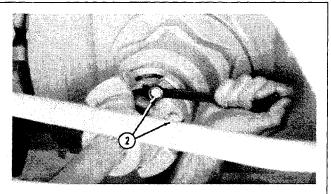
T09;020001 171280

FRONT DIFFERENTIAL AND AXLE SPECIFICATIONS

1. Nuts torque (600 \pm 60 N·m) 445 \pm 45 lb-ft



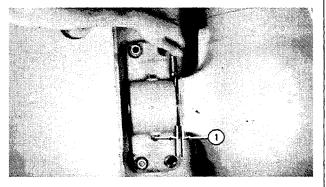
2. Cap screws torque(68 \pm 7 N·m) 50 \pm 5 lb-ft



06A;T77400 T09;020056 090281

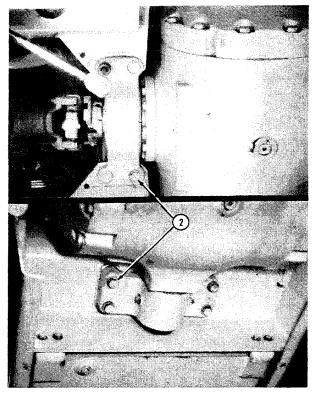
REAR DIFFERENTIAL AND AXLE SPECIFICATIONS

1. Install shims to give an end play clearance of (0.03 to 0.46 mm) 0.001 to 0.018 in.



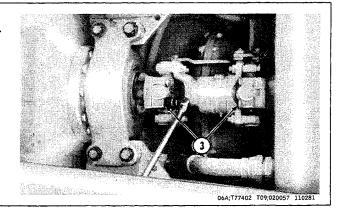
06A;T77394 T09;020004 030682

2. Cap screws and nuts torque



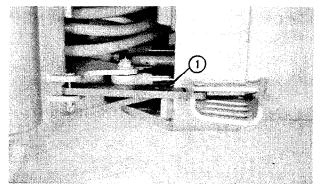
06A;T77459 T09;020005 030682

3. Cap screws torque (68 \pm 7 N·m) 50 \pm 5 lb-ft.



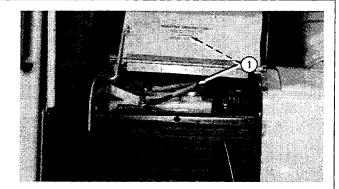
FRONT AXLE AND DIFFERENTIAL ASSEMBLY - PUT SHOP STANDS UNDER LOADER FRAME

- 1. Lift loader boom as high as possible. Put a support with a rated capacity of approximately (1772 kg) 3900 lbs. under bucket and boom.
- 2. Stop the engine.
- 3. Operate the steering valve, brake valve and loader control valve to release hydraulic pressure in the systems. Put loader control lever into float position.
- 4. Install lock bar (1).



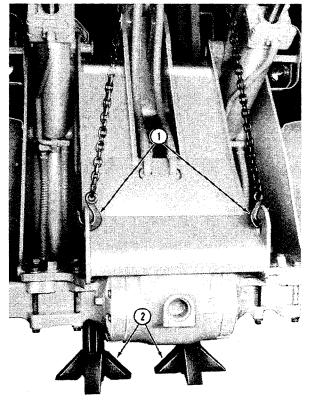
00 1 775010 T00 000007 00100

5. Disconnect battery ground cables (1).



06A;T78321 T09;020058 110281

- 6. Remove bottom guard (if equipped).
- 7. Fasten a chain hoist (1) to the loader frame hooks and lift the front of the machine.
- 8. Put D-00182AA (shown) or D-24206WK Shop Stands (2) under loader frame. Lower machine onto shop stands.
- 9. Remove wheels (Group 0110).



06A;T77460 T09;020059 110281

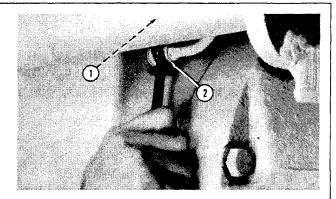
DISCONNECT HYDRAULIC LINES AND DRIVE SHAFT



CAUTION: Escaping hydraulic oil under pressure can have sufficient force to penetrate the skin, causing serious injury. Before disconnecting lines, be sure to relieve pressure. Before applying pressure, be sure connections are tight and lines, pipes, and hoses are not damaged. Use a piece of cardboard or wood, rather than hands, to search for leaks.

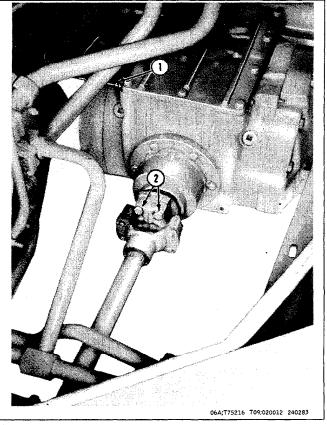
If injured by escaping oil, see a doctor at once. Serious infection or reaction can develop if proper medical treatment is not administered immediately.

1. Disconnect hydraulic brake line (1) and differential lock return hose (2).



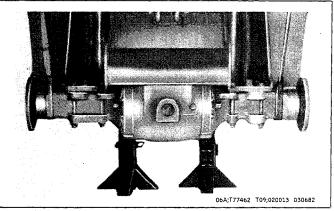
06A;T77461 T09;020011 240383

- 2. Disconnect differential lock inlet line (1).
- 3. Close all openings with caps and plugs to keep dirt from entering the hydraulic system.
- 4. Remove four cap screws (2) to disconnect drive shaft from input quill.

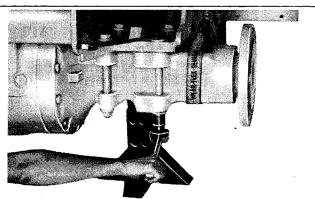


LOWER DIFFERENTIAL AND AXLE ASSEMBLY

- 1. Remove drain plug to drain approximately (22.5 L) 6 gal. of oil from differential.
- 2. Put a lifting strap (1) around each axle housing.

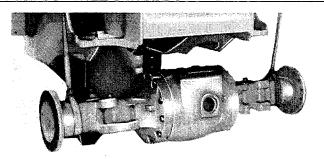


3. Put tension on straps and remove eight bolts and nuts.



06A;T77463 T09;020014 171280

4. Lower axle and differential as an assembly.



06A;T77464 T09;020015 171280

Thank you very much for your reading.

Please Click Here
Then Get More
Information.