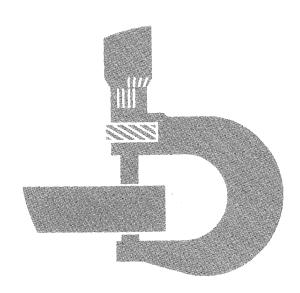
# 444C Loader



# **TECHNICAL MANUAL**

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

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### **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.

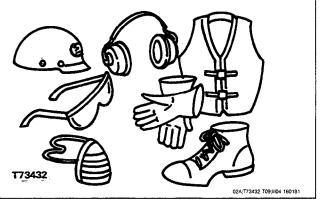


Be prepared if an accident or fire should occur. Know where the first aid kit and the fire extinguishers are located - know how to use them.



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Wear safety equipment.



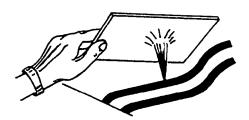
**I-II-02** Litho in U.S.A. TM-1227 (Dec-80) Wear fairly tight clothing.





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.



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### **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.

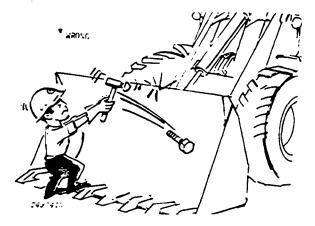
If machine is on an incline, block it securely.

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.



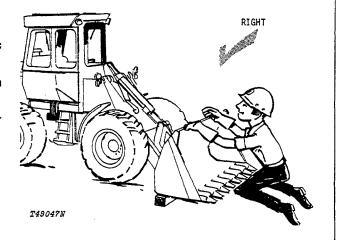
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### **OBSERVE REPAIR PRECAUTIONS**

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**

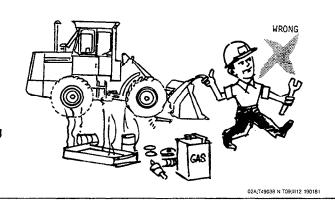
Do not smoke while refueling.

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.						
Engine: John Deere diesel; 6-cylinder, 4-stroke cycle. Bore and stroke4.02 x 4.33 in. (102 x 110 mm) Piston displacement						
(ACT option) 244 lb-ft (331 N·m) (33.8 kg/m)  Torque rise 22 percent (ACT option) 31 percent NACC or AMA (U.S. Tax) horsepower 38.8 Lubrication Pressure system w/full-flow filter Cooling Pressurized w/thermostat and 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:						
TypeTwin turbine Torque multiplication 5.44 to 1						
Transmission	Power S	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.

Control .........Single-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	•		,	Work lights, front flood, rear
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 load			2.25 in.	
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 baoker	oyao. 1000 7771		
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	<b></b>		(	Heater/defroster or heater/defroster and pressurizer
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 laider 18.50-25, 12-ply rating				
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	iting, L2 loader trea	a	
Capacities U.S. Imp. Liters Cooling system .25 qt. 20.8 qt. 23.7 Fuel tank				Fuel filter
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				<del>-</del>
Crankcase	Cooling system	25 qt. 20.8 qt		
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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Engine side shields Front fenders Gauges Triple hydraulic valve for loader Bucket teeth Transmission oil temperature Transmission oil pressure Fuel Coolant temperature Engine oil pressure Electric hourmeter Voltmeter Instrument panel warning lights Parking brake Hydraulic filter bypass  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 Hear-axle disconnect Hydraulic front differential lock Auxiliary spill guard Altitude-compensating turbocharger		• •		Radio-AM
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Transmission oil pressure  Fuel  Coolant temperature  Engine oil pressure  Electric hourmeter  Voltmeter  Instrument panel warning lights  Parking brake  Hydraulic filter bypass  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	•			Bucket teeth
Fuel Coolant temperature Engine oil pressure Electric hourmeter Voltmeter Instrument panel warning lights Parking brake Hydraulic filter bypass  Automatic boom height control SMV emblem Auxiliary cutting edges Flashing and turn signal lights Flashing and turn signal lights Rear-axle disconnect Hydraulic front differential lock Auxiliary spill guard Altitude-compensating turbocharger		•		Auxilary bottom guard
Coolant temperature  Engine oil pressure  Electric hourmeter  Voltmeter  Instrument panel warning lights  Parking brake  Hydraulic filter bypass  Auxiliary cutting edges  Flashing and turn signal lights  Rear-axle disconnect  Hydraulic front differential lock  Auxiliary spill guard  Altitude-compensating turbocharger		pressure		License plate bracket
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Electric hourmeter  Voltmeter  Instrument panel warning lights  Parking brake  Hydraulic filter bypass  Flashing and turn signal lights  Rear-axle disconnect  Hydraulic front differential lock  Auxiliary spill guard  Altitude-compensating turbocharger				
Voltmeter Rear-axle disconnect Instrument panel warning lights Hydraulic front differential lock Parking brake Auxiliary spill guard Hydraulic filter bypass Altitude-compensating turbocharger				
Instrument panel warning lights  Parking brake  Hydraulic filter bypass  Hydraulic filter bypass  Altitude-compensating turbocharger		er		
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Hydraulic filter bypass Altitude-compensating turbocharger	•	varning lights		
Thinks of the second of the se				
Loader nydraulic system indicator light Emergency steering				
	Loader hydraulic	system indicator lig	ΠL	Emergency steering

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