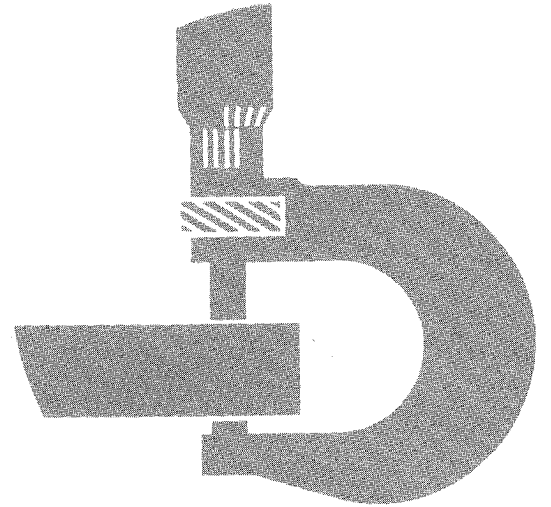


444C Loader



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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SAFETY AND YOU



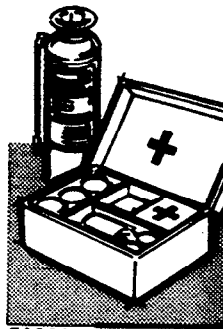
CAUTION: This safety symbol followed by the word "caution" identifies important safety messages in this manual and on the loader or compactor. When you see this symbol, be alert to the possibility of personal injury and carefully read the message that follows.



T27999N

02A:T27999 N T09:1102 160181

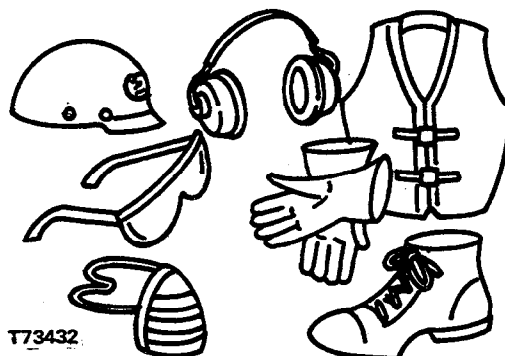
Be prepared if an accident or fire should occur. Know where the first aid kit and the fire extinguishers are located - know how to use them.



T27504N

02A:T27504 N T09:1103 160181

Wear safety equipment.



T73432

02A:T73432 T09:1104 160181

Introduction and Safety Information

Wear fairly tight clothing.



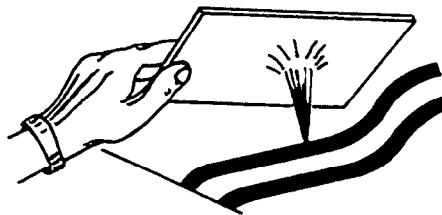
T23672

02A:T45672 R T09:1105 160181



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.



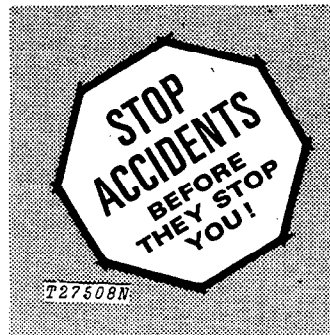
02A:T45794 T09:1117 090281

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 T09:1107 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.

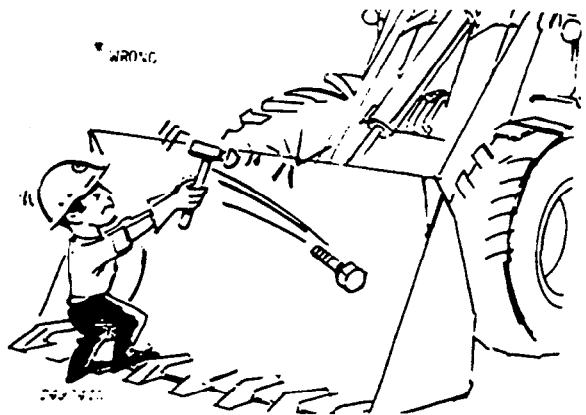
Always lower bucket before working on it.

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.



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.

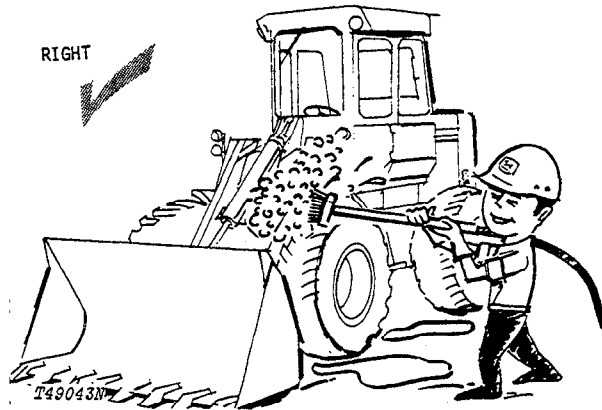
Do not remove radiator filler cap until coolant temperature is below the boiling point. Then loosen cap slowly to relieve pressure before removing.

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.



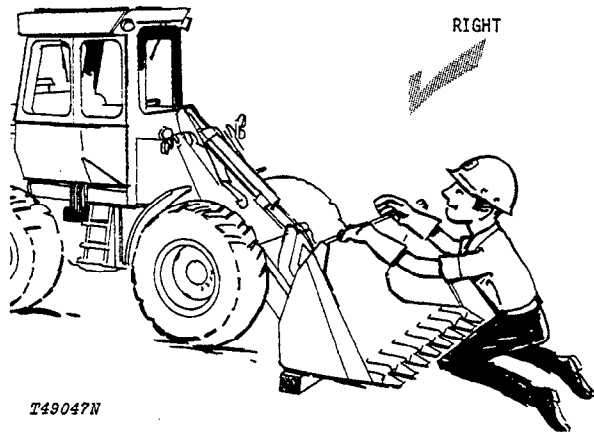
02A:T49043N T09:III14 090281

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 T08: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.

X WRONG



T32708N

02A:T32708 N T09:III11 190181

AVOID EXPLOSIONS OR FIRE

Do not smoke while refueling.

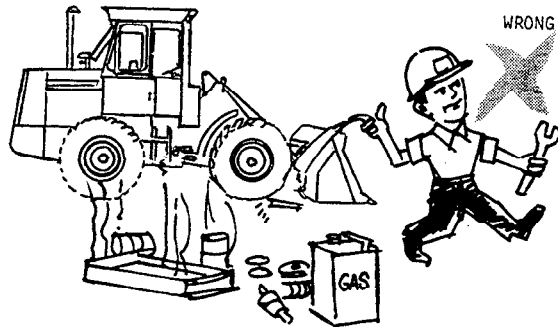
Do not smoke while handling highly flammable materials.

Shut off engine when refueling.

Use care in refueling if engine is hot.

Use good commercial, nonflammable solvents for cleaning parts.

WRONG



02A:T49038 N T09:III12 190181

OBSERVE BATTERY PRECAUTIONS

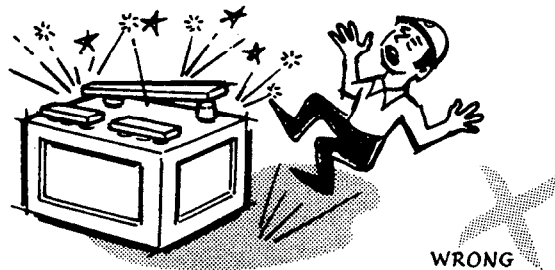
Provide adequate ventilation when charging batteries.

Do not place metal objects across posts to check charge.

Do not smoke near battery.

Do not allow sparks or open flame near battery.

WRONG



02A:T27505 N T09:III13 190181

General Specifications

Hydraulic Cylinders:	Bore	Stroke
Boom, two	5.25 in. (133 mm)	22.5 in. (571 mm)
Bucket, one	5.25 in. (133 mm)	25.30 in. (643 mm)
Cylinder rods	.Ground, heat-treated, chrome plated, polished.	
Boom and bucket cylinder rods	..... 2.25 in. (57 mm) dia.	

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, G2 grader tread
 17.50-25, 12-ply rating, L2 loader tread

Wheel Treads:

Front and rear 70 in. (1.78 m)

Capacities	U.S.	Imp.	Liters
Cooling system	.. 25 qt.	20.8 qt.	23.7
Fuel tank	..... 40 gal.	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
 Loader hydraulic system indicator light

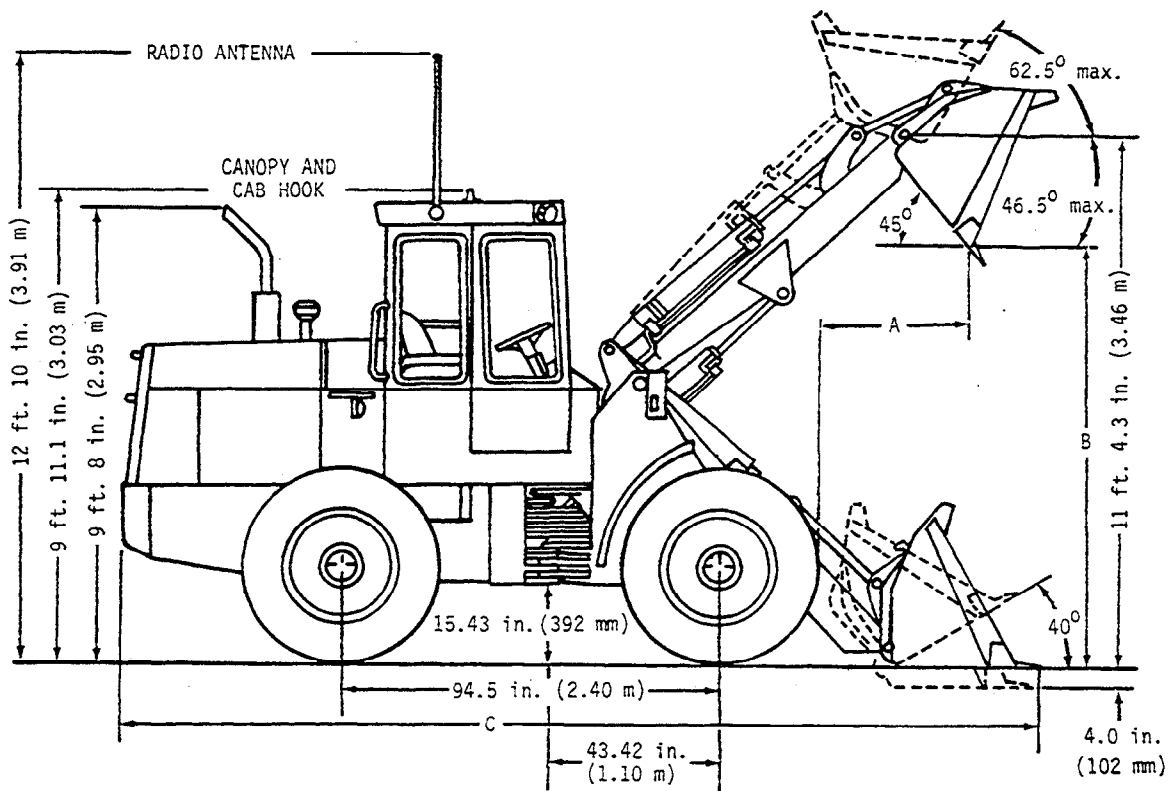
Key switch
 Pushbutton safety start
 Cigar lighter
 Transistorized voltage regulator
 Engine side shields w/locks
 Transmission disconnect
 Work lights, front flood, rear
 combination tail and brake lights
 ROPS cab
 Heater/defroster or heater/defroster and pressurizer
 Front and rear windshield wipers
 Windshield washer
 Dome light
 Instrument panel cover w/lock
 Horn
 Fuel filter
 Automatic return to dig
 Rear bottom guard
 Hand grips
 Fixed drawbar
 Antifreeze
 Precleaner
 Cold weather starting aid
 Articulation transport lock
 Low-maintenance batteries

Special Equipment:

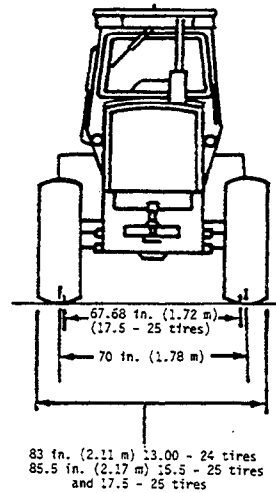
ROPS canopy
 Adjustable suspension seat, vinyl or cloth
 Heater for canopy
 For ROPS cab:
 Air conditioner
 Radio—AM
 Mirrors
 Reverse warning alarm
 Triple hydraulic valve for loader
 Bucket teeth
 Auxiliary bottom guard
 License plate bracket
 Automatic boom height control
 SMV emblem
 Auxiliary cutting edges
 Flashing and turn signal lights
 Rear-axle disconnect
 Hydraulic front differential lock
 Auxiliary spill guard
 Altitude-compensating turbocharger
 Emergency steering

T09:III122 290782

General Specifications



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



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