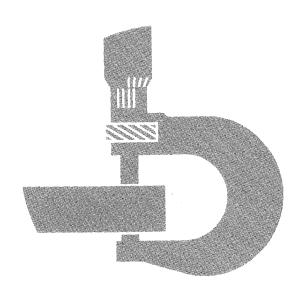
480C Forklift



TECHNICAL MANUAL

480C FORKLIFT TECHNICAL MANUAL TM-1249 (JUN-81)

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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 is used for important safety messages. When you see this symbol, follow the safety message to avoid personal injury.



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Be prepared for an accident or fire.

Know where the first aid kit and fire extinguisher are.

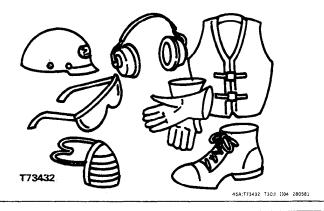
Know how to use them.

Know where to get help.



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Wear safety equipment.



Wear fairly tight clothing.

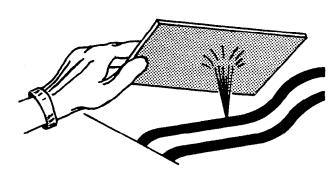


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CAUTION: Escaping fluid under pressure can have sufficient force to penetrate the skin, causing serious injury. Before disconnecting lines, be sure connections are tight and lines, pipes and hoses are not damaged. Use a piece of cardboard or wood,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



KEEP SHOP AND STORAGE AREA CLEAN

Maintenance area should be well-ventilated.

Keep maintenance area clean and dry.

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



FOLLOW SAFE WORKING CONDITIONS

Do not work on the equipment unless you are approved to do so. Then be sure you know the correct procedure.

Do not work on equipment while it is being operated.

Keep hands away from moving parts.

When the engine is running, do not work on equipment unless the procedure is approved.



If you must work on the machine with the engine running, ALWAYS USE TWO service technicians. One must be at the controls. The other must be within sight of the operator.

Put a support under all raised equipment.

If the machine is parked on a slope, use blocks to hold it in place.

Do not lift heavy parts by yourself. Use a hoist or jack.

TAKE CARE! WATCH OUT FOR OTHER PEOPLE IN THE AREA.

When you drill, grind or hammer metal, wear safety glasses.



45A;T32709 N. T81390 T30;I II08 070781

OBSERVE SERVICE PRECAUTIONS

Keep ALL equipment free of dirt and oil.

Clean oil, grease, mud, ice or snow from the operator's station, steps and hand rail.

Do not remove the radiator cap unless the engine is cool. First, loosen the cap slowly to the stop. Then release all pressure in the cooling system before you remove the cap.

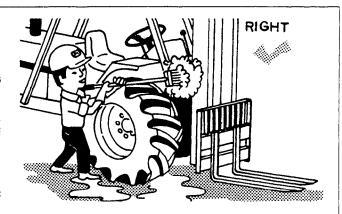
Check the exhaust system regularly for leaks.

Release hydraulic pressure before you work on the hydraulic system.

When you check hydraulic pressure, be sure to use the correct test gauge.

Before you work on the fuel system, close the fuel shutoff valve.

Before you work on the electrical system, or make major repairs, disconnect the battery ground strap.



45A;T81391 T30:I N09 280581

Put blocks under forks if you must work on raised mast or carriage.

Before you work on hydraulic system, release hydraulic pressure.

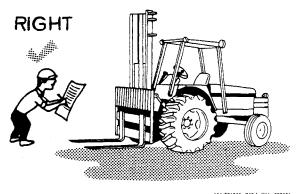
Before you overhaul the forklift or work on the electrical system, disconnect the battery.



CHECK SAFETY EQUIPMENT ON MACHINE

All protective parts (shields, guards, ROPS, etc.) should be in good condition and fastened in place.

Check for leaks in all systems: Air intake system Engine oil system Transmission-hydraulic system Fuel system Cooling system



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AVOID EXPLOSIONS OR FIRE

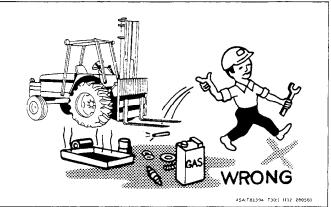
Do not smoke while you fill the fuel tank.

Do not smoke while you work with material that will start on fire easily.

Stop the engine before you fill the fuel tank.

Do not fill fuel tank if engine is hot.

Do not use gasoline or diesel fuel for cleaning parts. Use solvents that will not start on fire.



OBSERVE BATTERY PRECAUTIONS

Do not put metal objects across terminals to check the battery charge.

When you charge a battery, be sure there is enough ventilation.

Keep sparks and flames away from batteries.

Do not smoke near battery.



45A;T27506 T30;I 1113 280581

480C FORKLIFT

(Specifications and design subject to change without notice. Wherever applicable, specifications are in accordance with ICED and SAE Standards. Except where otherwise noted, these specifications are based on a unit equipped with 16.9-24 drive tires, 11L-15 steering tires, pallet fork, and standard equipment.)

Power (@2200 engine rpm): SAE I Gross 56 hp (42 kW) Net 52 hp (39 kW) 55	DIN PS
Net engine flywheel power is for an engine equip with fan, air cleaner, water pump, lubricating oil pu fuel pump, alternator, and muffler. Gross engine po is without fan. Flywheel power ratings are under standard conditions of 500 ft. altitude and 85 temperature and DIN 70 020 standard conditions 760 mm Hg barometer (sea level) and 20 temperature.	ower SAE 5°F.
Engine: John Deere 4-cylinder diesel, valve-in-he 4-stroke cycle Bore and stroke 4.02 x 4.33 in. (102 x 110 r Piston Displacement	mm) 9 L) to 1 V·m)
NACC or AMA (U.S. Tax) horsepower25 Main bearings	5.65 5 filter and
Fan Suc Air cleaner	tion Dry ator
Clutch Disconnect Hand operated, single 10) in.

(254 mm) plate

Transmission8-speed transmission w/hydraulically actuated no-clutch direction reverser.

Gea	r:	Travel	Speeds:	
	mph		kn	n/h
	Fwd.	Rev.	Fwd.	Rev.
1	1.6	1.4	2.6	2.3
2	2.3	2.0	3.7	3.2
3	3.5	3.0	5.6	4.8
4	4.8	4.1	7.7	6.6
5	6.3	5.4	10.1	8.7
6	9.0	7.8	14.5	12.6
7	13.5	11.6	21.7	18.7
8	18.7	16.1	30.1	25.9

Final Drives	Inboard,	planetary
Brakes	Hydraulically actuated,	wet-disk.
Foot-operated individ	lually or simultaneously	'.

Steering	Power (hydrostatic)
Turning radius (brake	
applied w/o fork)	10 ft. 10 in. (3.30 m)
Turning clearance (brake	9
applied w/o fork)	22 ft. 6 in. (6.86 m)
Wheel rotation, max. left	to max. right 3 turns

T30:J III14 280581

Tires:

Drive 16.9-24, 8 ply rating, R4 Steering

19.5L-24, 8 ply rating, R4, low profile,

11L-15, 8 ply rating, F3 7.50/8.00-16,

tubeless

10 ply rating, F3

Wheel Tread (front and rear) 62 in. (1.58 m)

Dimensions:

Reach from center line of drive wheels to front of

Capacities: U.S. Cooling system 3.0 gal.

U.S. Imp. Liters 3.0 gal. 2.5 gal. 11.4

Fuel tank19.5 gal. 16.3 gal. Engine lubrication,

including filter 1.5 gal. 1.3 gal. 5.7 Hydraulic system ...12.5 gal. 10.4 gal. 47.3

SAE Operating Weight (w/required counterweights): 14 ft., 6000-lb capacity11,440 lb. (5190 kg)

21 ft. 6 in., 5000-lb. capacity1,440 lb. (5190 kg) 21 ft. 6 in., 5000-lb. capacity1,310 lb. (5129 kg) 28 ft., 5000-lb. capacity12,160 lb. (5513 kg)

Shipping Weight:

Two 4-ft. (1.22 m) 5000-lb.

(2268 kg) pallet tines 350 lb. (159 kg)

Two 4-ft. (1.22 m), 6000-lb.

(2722 kg) pallet tines 425 lb. (193 kg)

Additional Standard Equipment:

Electric hour meter

Under-hood muffler w/extension and rain cap

Cold weather starting aid

Overhead guard

Hand throttle

Foot throttle

Differential lock

Fenders

Fuel filter

Key switch safety start

Antifreeze

Fuel gauge

Oil pressure indicator light

Alternator charge indicator light

Coolant temperature gauge

Appropriate counterweight

Lights

73.8

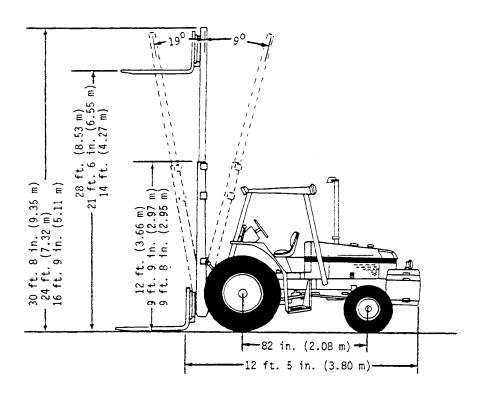
Transistorized voltage regulator

Horn

Air cleaner restriction indicator

Special Equipment:

Engine coolant heater Vandal protection Load backrest extension Parking brake



Operating		Maximum Lifting Height	
Information	14 ft. (4.27 m)	21 ft. 6 in. (6.55 m)	28 ft. (8.53 m)
Max. lift capacity*	4000 lb. 6000 lb. Standard (1815 kg) (2722 kg) and free lift	5000 lb. 4000 lb. (2268 kg) (1815 kg)	5000 lb. (2268 kg)
Lift Capacity at full height*	4000 lb. 6000 lb. (1815 kg) (2722 kg)	2500 lb. 2500 lb. (1134 kg)	1000 lb. (454 kg)
Side-shift3 in. (76 mm) to right and left of center	Yes	Yes	. No
Rate of lift (a 2200 engine rpm (max. load)	52 fpm 15.9 (m/min)	76 fpm (23.2 m/min)	76 fpm (23.2 m/min)
Rate of lift (a 2200 engine rpm (empty)	55 fpm (16.8 m/min)	86 fpm (26,3 m/min)	86 fpm (26.3 m/min)
Rate of drop (max. load)	29 fpm (8.8 m/min)	54 fpm (16.5 m/min)	54 fpm (16.5 m/min)
Rate of drop (empty)	33 fpm (10.1 m/min)	68 fpm (20.7 m/min)	68 fpm (20,7 m/min)

^{*}Measured at 24 in. (610 mm) from heel of fork with load centered

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