

John Deere

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MODEL:

380, 480-A & 480-B

Forklifts

**SERVICE
MANUAL**



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JD-S-TM1060

**John Deere JD380,
JD480-A, and JD480-B
Forklifts**

MANUAL PREVIEW

TECHNICAL MANUAL

**John Deere JD380, JD480-A, and
JD480-B
Forklifts**

TM1060 (01MAR84) English

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JD380, JD480-A and JD480-B Forklifts

TECHNICAL MANUAL

TM-1060 (Mar-84)

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The specifications and design information contained in this manual were correct at the time this machine was manufactured. It is John Deere's policy to continually improve and update our machines. Therefore, the specifications and design information are subject to change without notice. Wherever applicable, specifications and design information are in accordance with SAE and ICED standards.

Section 10 GENERAL

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Group 5[®] SPECIFICATIONS

(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 (@ 2500 engine rpm):	SAE	DIN
Gross (JD380)	46 hp (34.3 kW)	
Net (JD380)	43 hp (32.1 kW)	45.7 PS
Gross (JD480-B)	66 hp (49.2 kW)	
Net (JD480-B)	62 hp (46.2 kW)	65.9 PS

Net engine flywheel power is for an engine equipped with fan, air cleaner, water pump, lubricating oil pump, fuel pump, alternator, and muffler. 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 standard conditions of 760 mm Hg barometer (sea level) and 20°C temperature.

Engine: (JD380) John Deere 3-cylinder diesel, valve-in head, 4-stroke cycle
Bore and stroke 3.86x4.33 in. (98x110 mm)
Displacement 152 cu. in. (2491 cm³)
Compression ratio 16.2 to 1
Max. torque
@ 1,300 rpm 110 lb-ft (149 Nm) (15.2 kg-m)
NACC or AMA (U.S. Tax) horsepower 17.88
Main bearings 4

(JD480-B) John Deere 4-cylinder diesel, valve-in-head, 4-stroke cycle
Bore and stroke 4.02x4.33 in. (102x110 mm)
Piston displacement 219 cu. in. (3588 cm³)
Compression ratio 16.2 to 1
Maximum torque
@ 1,300 rpm 160 lb-ft (217 Nm) (22.1 kg-m)
NACC or AMA (U.S. Tax) horsepower 25.65
Main bearings 5

SAE Operating Weight (w/required counterweights):

JD380:

10 ft. 6 in., 4000-lb. capacity . . . 9020 lb. (4091 kg)
14 ft., 4000-lb. capacity 9185 lb. (4166 kg)
21 ft. 6 in., 4000-lb. capacity 10,245 lb. (4647 kg)
28 ft., 4000-lb. capacity 11,290 lb. (5121 kg)

JD480-B:

14 ft., 6000-lb. capacity 10,980 lb. (4980 kg)
21 ft. 6 in., 5000-lb. capacity 10,845 lb. (4919 kg)
28 ft., 5000-lb. capacity 11,690 lb. (5303 kg)

Shipping Weight:

Two 4-ft. (1.22 m) pallet tines
(JD380) 350 lb. (159 kg)
Two 4-ft. (1.22 m)
5000-lb. (2268 kg) pallet tines
(JD480-B) 350 lb. (159 kg)
Two 4-ft. (1.22 m), 6000-lb.
(2722 kg) pallet tines
(JD480-B) 425 lb. (193 kg)

Operating Information (JD380)	Maximum Lifting Height			
	10 ft. 6 in. (3.20 m)	14 ft. (4.27 m)	21 ft. 6 in. (6.55 m)	28 ft. (8.53 m)
Max. lift capacity*	4000 lb. (1814 kg)	4000 lb. (1814 kg)	4000 lb. (1814 kg)	4000 lb. (1814 kg)
Lift capacity at full height*	4000 lb. (1814 kg)	4000 lb. (1814 kg)	2500 lb. (1134 kg)	1000 lb. (454 kg)
Side-shift . . . 3 in. (76 mm) to right and left center	Yes	Yes	Yes	No
Rate of lift @ 2500 engine rpm (max. load)	57 fpm (17.4 m/min)	57 fpm (17.4 m/min)	83 fpm (25.3 m/min)	83 fpm (25.3 m/min)
Rate of lift @ 2500 engine rpm (empty)	61 fpm (18.6 m/min)	61 fpm (18.6 m/min)	95 fpm (29.0 m/min)	95 fpm (29.0 m/min)
Rate of drop (max. load)	29 fpm (8.8 m/min)	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)	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

Operating Information (JD480-B)	Maximum Lifting Height		
	14 ft. (4.27 m)	21 ft. 6 in. (6.55 m)	28 ft. (8.53 m)
Max. lift capacity*	6000 lb. (2722 kg)	5000 lb. (2268 kg)	5000 lb. (2268 kg)
Lift capacity at full height*	6000 lb. (2722 kg)	2500 lb. (1134 kg)	1000 lb. (454 kg)
Side-shift . . . 3 in. (76 mm) to right and left of center	No	Yes	No
Rate of lift @ 2500 engine rpm (max. load)	57 fpm (17.4 m/min)	83 fpm (25.3 m/min)	83 fpm (25.3 m/min)
Rate of lift @ 2500 engine rpm (empty)	61 fpm (18.6 m/min)	95 fpm (29.0 m/min)	95 fpm (29.0 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