

# John Deere

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MODEL:

401-B

Tractor Loader

SERVICE  
MANUAL



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JD-S-TM1091

**John Deere**

**JD401-B**

**Tractor and  
Loader**

**MANUAL PREVIEW**

**TECHNICAL MANUAL**

**John Deere JD401-B Tractor and  
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ENGLISH**



## JD401-B Tractor and Loader Technical Manual

TM-1091 (Jan-79)

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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.



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## Section 10 GENERAL

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### Group 5 GENERAL MACHINE 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 14.9-24, 6 ply rating rear tires; 7.50/8.00-16, 6 ply rating front tires; 3/4 cu. yd. (0.57 m<sup>3</sup>) bucket; and standard equipment.)

#### Power (@ 2,500 engine rpm):

|       | SAE              | DIN     |
|-------|------------------|---------|
| Gross | 66 hp (49.2 kW*) |         |
| Net   | 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.

\*In the International System of Units (SI), power is expressed in kilowatts (kW).

**Engine:** 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 cm<sup>3</sup>)

Compression ratio 16.2 to 1

Maximum torque @ 1,300 rpm 160 lb-ft  
(217 Nm) (22.1 kg-m)

NAOC or AMA (U.S. Tax) horsepower 25.65

Main bearings 5

Lubrication Pressure system with full flow filter

Cooling Pressurized with thermostat and  
fixed bypass

Fan Suction

Air cleaner Dry

Electrical system 12 volt with alternator

Battery (12 volt) reserve capacity 110 minutes

**Engine Clutch** Foot-operated, single 11 in.  
(279 mm; plate without reverser, 10 in. (254 mm) plate  
with reverser.

**Transmission** Constant mesh, 8 forward speeds, 4  
reverse with helical gears and sliding collars; mechanical  
shuttle. Optional hydraulic direction reverser provides  
8 speeds forward and 8 reverse; hydraulic wet  
clutches, no clutching required.

**Gear** **Travel Speeds:**

|   | Fwd. | Rev. | Fwd. | Rev. |
|---|------|------|------|------|
| 1 | 1.3  | 1.6  | 2.1  | 2.6  |
| 2 | 1.9  | 2.2  | 3.1  | 3.5  |
| 3 | 2.9  | 3.3  | 4.7  | 5.3  |
| 4 | 4.0  | 4.7  | 6.4  | 7.6  |
| 5 | 5.3  | 6.3  | 8.5  | 10.1 |
| 6 | 7.6  | 9.0  | 12.2 | 14.5 |
| 7 | 11.2 | 13.5 | 18.0 | 21.7 |
| 8 | 15.7 | 18.7 | 25.3 | 30.1 |



**Final Drives** ..... Inboard, planetary

**Brakes**...Hydraulically-actuated, fully enclosed wet-disk. Self-equalizing. Foot-operated individually or simultaneously.

**Steering** ..... Manual

Turning radius (brake applied) .. 10 ft. 7 in. (3.23 m)

Loader clearance circle, dia.  
(brake applied) ..... 35 ft. 6 in. (10.85 m)

Number of turns, far left to far right ..... 3.3

**Hydraulic System:** Closed-center

Max pressure ..... 2350 psi (162 bar)

Loader control ..... 2-lever

Pump...Piston, constant pressure, variable-displacement, 13 gpm (49 L/min) @ 2500 engine rpm

**Hydraulic**

**Cylinders:**                      **Bore**                      **Stroke**

Boom ..... 2.25 in. (57 mm)    33.28 in. (845 mm)

Bucket ..... 2.25 in. (57 mm)    24.36 in. (624 mm)

Cylinder rods ..... Ground, heat-treated,  
chrome-plated, polished

Boom cylinder rods ..... 1.5 in. (38 mm) dia.

Bucket cylinder rods ..... 1.25 in. (32 mm) dia.

**Tires:**

**Front**

**Rear**

Turf ..... 27-9.50-15,                      18.4-16A,

6 ply rating,                      6 ply rating, R3

I1 Terra-tires

27-9.50-15,

10 ply rating,

I1 Terra-tires

Utility ..... 11L-15,                      14.9-24,

8 ply rating, F3                      6 ply rating, R4

7.50/8.00-16,                      14.9-24,

6 ply rating F3                      6 ply rating, R1

16.9-24,

6 ply rating, R3

17.5L-24,

8 ply rating, R4

**Front Axle** ..... Swept-back, adjustable

**Wheel Treads** (dependent on tires and front axle):

Front ..... 49 to 74 in. (1.25 to 1.88 m)

Rear ..... 48 to 76 in. (1.22 to 1.93 m)

**Dimensions:**

Height to top of hood ..... 4 ft. 7 in. (1.40 m)

Overall height to top of muffler ..... 6 ft. 7 in. (2.01 m)

Overall height to top of canopy ..... 7 ft. 2 in. (2.18 m)

Overall width w/60 in. tread width 6 ft. 3 in. (1.90 m)

Overall length ..... 15 ft. 11 in. (4.85 m)

Overall length w/3-point hitch ..... 17 ft. (5.18)

Wheelbase ..... 79.4 in. (2.02 m)

Ground clearance

(under front axle) ..... 1 ft. 5 in. (430 mm)

Ground clearance, min. .... 11 in. (279 mm)

**Capacities:**

**U.S.**

**Liters**

Cooling system ..... 3 gal.    11.4

Fuel tank ..... 19.5 gal.    73.8

Engine lubrication, including

filter ..... 6 qt.    5.7

Transmission-hydraulic

system ..... 10 gal.    37.9

**Additional Standard Equipment:**

Oil pressure indicator light

Alternator charge indicator light

Coolant temperature gauge

Key switch safety start

Cushioned seat

Vertical muffler with rain cap

Transistorized voltage regulator

Fenders

Anti-freeze

Two-position disk rear wheels

3/4 cu. yd. (0.57 m<sup>3</sup>) loader bucket

Air cleaner restriction indicator

Cold weather starting aid

Rear PTO (continuous "live" or

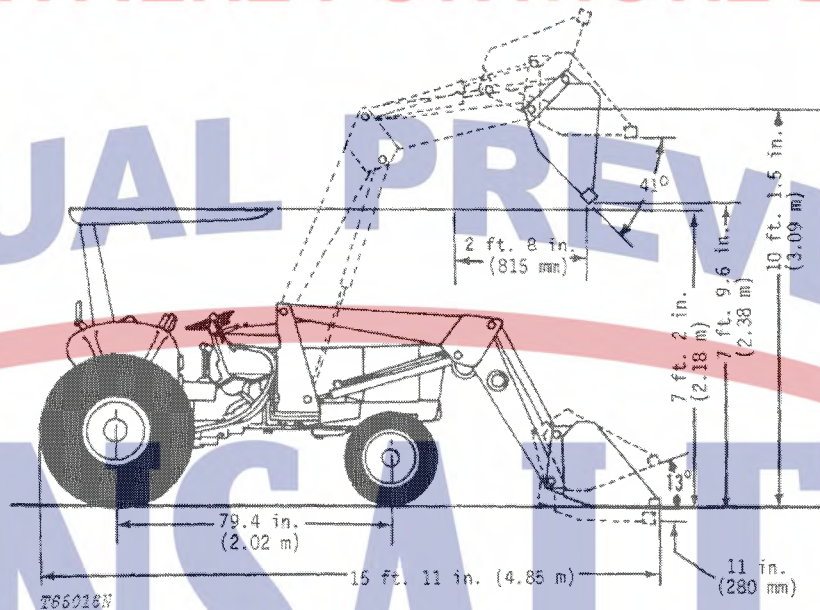
independent 540 rpm)

Speed hour meter

Horn

**SAE Operating Weight** ..... 6280 lb. (2 849 kg)

CLICK ANYWHERE **DIMENSIONS** FOR MORE DETAILS



## Special Equipment

- Batteries (2) reserve capacity: 220 minutes
- Cigar lighter
- Deluxe seat
- Differential lock
- Fixed front axle
- Foot throttle
- Front grille guard
- Fuel gauge
- Hydraulic direction reverser
- Lights
- Mid PTO (1,000 rpm "live," w/rear PTO)
- Muffler extension (vertical muffler)
- Parking brake
- Power steering
- Rear muffler
- Remote hydraulic cylinder
- ROPS and seat belt, w/ or w/o canopy
- Single or dual remote-cylinder control w/quick-connect couplers
- Swinging drawbar
- 3-inch seat belt
- 3-point hitch (Category 1 or 2 w/sway blocks and regular or short links)
- Tool box

## LOADER SPECIFICATIONS

|                 |                                    |                   |
|-----------------|------------------------------------|-------------------|
| <b>Buckets:</b> | <b>Nominal Heaped Capacity</b>     | <b>Width</b>      |
|                 | 3/4 cu. yd. (0.57 m <sup>3</sup> ) | 73.8 in. (1.58 m) |

**Operating Information:**

|                                  |                               |
|----------------------------------|-------------------------------|
| Breakout force                   | 4000 lb. (17.92 kN) (1814 kg) |
| Lifting capacity, full height    | 2500 lb. (1134 kg)            |
| Raising time to full height      | 5.1 sec.                      |
| Bucket dump time                 | 2.9 sec.                      |
| Lowering time (power)            | 3.0 sec.                      |
| Rollback time                    | 2.6 sec.                      |
| Float-down time                  | 6.1 sec.                      |
| Minimum recommended rear ballast | 2000 lb. (910 kg)             |

Rear muffler  
Remote hydraulic cylinder  
ROPS and seat belt, w/ or w/o canopy  
Single or dual remote-cylinder control w/quick-connect  
couplers  
Swinging drawbar  
3-inch seat belt  
3-point hitch (Category 1 or 2 w/sway blocks and  
ballast..... 2000 lb. (910 kg)

CLICK ANYWHERE FOR MORE DETAILS