

**JOHN DEERE
4000 AND 4020
TRACTORS
(SERIAL NO.
250,001-)**



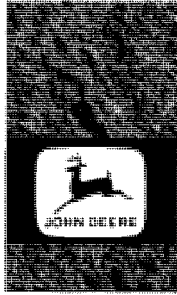
**OPERATORS MANUAL
JOHN DEERE 4000 AND 4020
TRACTORS (SERIAL NO. 250,001-)**

OMR48273 H1 English

**JOHN DEERE TRACTOR WORKS
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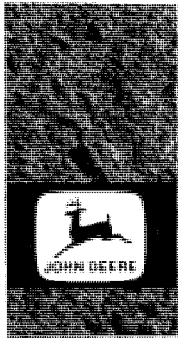
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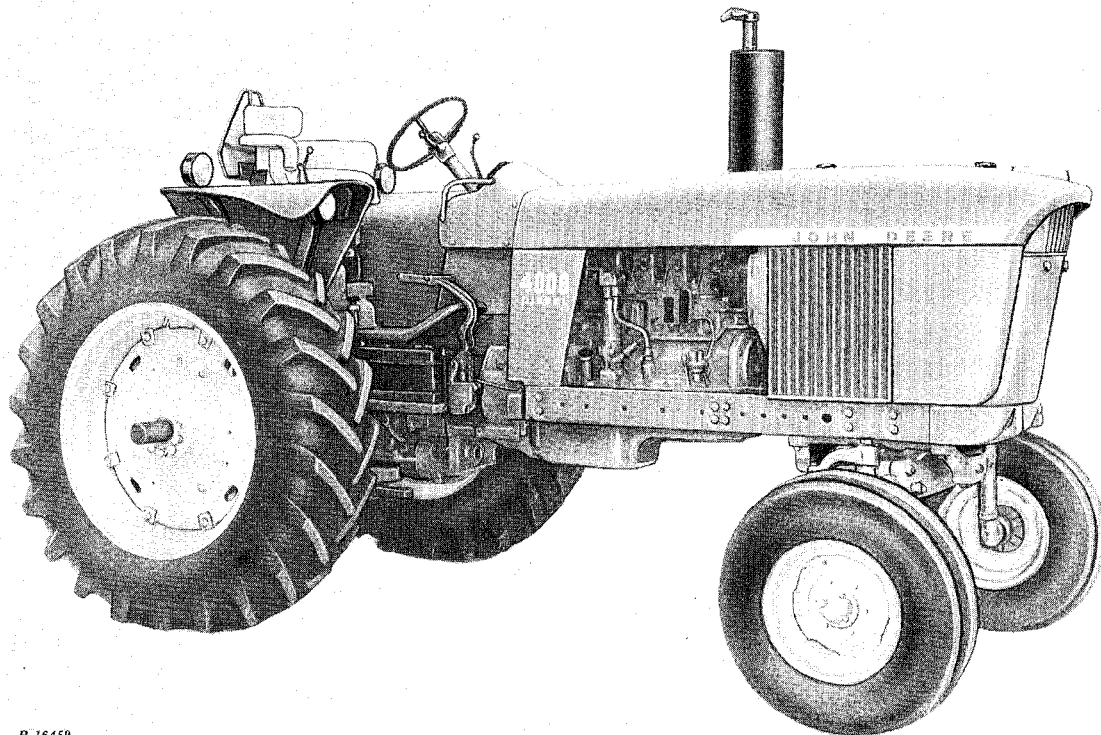
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SPECIFICATIONS

	Diesel	Gasoline	LP-Gas
HORSEPOWER (Measured at the PTO):			
4020 with Syncro-Range Transmission	94.88 h.p.*	96.66 h.p.*	96 h.p.**
4020 with Power Shift Transmission	95.83 h.p.*	95.66 h.p.*	95 h.p.**
4000 Tractor	96.89 h.p.*	96 h.p.**	
ENGINE:			
Type		6-cylinder, in-line, valve-in-head	
Engine speeds:			
Normal slow idle	800 rpm	800 rpm	800 rpm
Working range	1500 to 2200 rpm	1500 to 2200 rpm	1500 to 2200 rpm
Maximum transport speed	2500 rpm	2500 rpm	2500 rpm
Bore and stroke	4-1/4 in. x 4-3/4 in.	4-1/4 in. x 4-1/4 in.	4-1/4 in. x 4-1/4 in.
Displacement	404 cu. in.	362 cu. in.	362 cu. in.
Compression ratio	17.0 to 1	7.75 to 1	9.0 to 1
Firing order	1-5-3-6-2-4	1-5-3-6-2-4	1-5-3-6-2-4
Intake valve clearance	0.018 in.	0.015 in.	0.015 in.
Exhaust valve clearance	0.018 in.	0.028 in. (hot)	0.028 in. (hot)
Injection pump timing	TDC		
Distributor timing (at 2000 rpm)		20° BTDC	25° BTDC
Distributor point gap		0.022 in.	0.022 in.
Spark plug gap		0.025 in.	0.015 in.
ELECTRICAL SYSTEM:			
Electrical system voltage	12 volts	12 volts	12 volts
Batteries (see page 72)	Two (connected in series)	One	One

*Maximum observed horsepower at 2200 engine rpm in official tests.
 **Factory observed horsepower.



R 16459

John Deere 4000 Row-Crop Tractor with Diesel Engine and Syncro-Range Transmission

COOLING SYSTEM:

Type Pressurized with centrifugal pump

Engine temperature control . . . Heavy-duty thermostat

LUBRICATION SYSTEM Force-feed pressurized type with full-flow oil filter

CAPACITIES:

Fuel tank Diesel and gasoline—34 U.S. gals.
LP-Gas—(80% full) 45 U.S. gals.

Crankcase (includes filter) . . . Diesel* - 12 U.S. qts.
Gasoline and LP-Gas - 8 U.S. qts.

Transmission-hydraulic system**:
Syncro-Range Dry system—13 U.S. gals.
At service intervals—10 U.S. gals.

Power Shift Dry System—17 U.S. gals.
At service intervals—14 U.S. gals.

Cooling system (add 2 U.S. qts. for cab heater) 24 U.S. qts.

Hi-crop final drive housings 1-3/4 U.S. qts.

Belt pulley 2-1/2 U.S. pints

SYNCRO-RANGE TRANSMISSION:

Type Syncro-Range, constant Mesh

Gear selections 8 forward and 2 reverse

Shifting (4000 tractor) 4 stations, forward speeds synchronized within stations

Shifting (4020 tractor) . . . 4 stations, synchronized shifting within stations

POWER SHIFT TRANSMISSION:

Type Planetary gears, hydraulically actuated wet disk clutches and brakes

Gear selection 8 forward and 4 reverse

Shifting Hydraulic power shifting controlled by speed selector

POWER FRONT-WHEEL DRIVE:

Type Hydraulic motor driven with planetary gear reduction in wheel hub, uses pressure oil from hydraulic system

Torque Low (series connected) and high (parallel connected)

Controls Solenoid-operated control valves, synchronized with transmission controls

POWER TAKE-OFF:

Type Independent rear power take-off. Stub shafts used for rear dual speed PTO speed conversion. Mid power take-off available on 4020 tractors.

Speed (1900 engine rpm) Mid—1000 rpm
Dual speed rear—540 or 1000 rpm
Single speed rear—1000 rpm

HYDRAULIC SYSTEM:

Type Closed center, constant pressure. Includes power steering, power brakes, and implement control

Standby pressure 2250 psi

BRAKES Hydraulically power actuated, disk-type, operating in oil

BRAKES Hydraulically power actuated, disk-type, operating in oil

GROUND SPEEDS See page 12

FRONT WHEEL TREAD See page 16

REAR WHEEL TREAD:

Regular and offset wheels See page 18

Double wheels See page 20

FRONT TIRES***

4000 tractor 9.5L-15, 6-ply rating

4020 row-crop tractor 7.50-15, 6-ply rating

4020 standard tractor 7.50-18, 6-ply rating

REAR TIRES***

4000 tractor 16.9-34, 6-ply rating

4020 row-crop tractor 18.4-34, 6-ply rating

4020 standard tractor 18.4-34, 6-ply rating

DIMENSIONS:

	Row-Crop	Standard
Wheelbase	97-1/2 or 100-1/4 in.	89 or 100-1/4 in.

Over-all length	152-3/4 in.	152-3/4 in.
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Over-all height		
4020 tractor	90-3/4 in.	90-3/8 in.
4000 tractor	89-1/4 in.	

Height to steering wheel:		
4020 tractor	79-7/8 in.	79-3/8 in.
4000 tractor	78-3/8 in.	

Width (regular axle)	89-5/8 in.	89-5/8 in.
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Turning radius	110 or 128 in.	115 or 132 in.
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TRACTOR CAB:

Blower capacity 560 cfm

Heater capacity 22,000 btu/hr

Exterior width at roof 50.1 in.

Exterior width at fender 67.4 in.

Exterior cab height to roof 105.2 in.

Exterior cab height to condenser housing 112.9 in.

SHIPPING WEIGHT (Syncro-Range Tractors equipped for average field service, less fuel and ballast. Add 375 pounds if tractor has Power Shift transmission. Add approx. 1000 lbs. if equipped with Power Front-Wheel Drive):

	Row-Crop	Standard
4020 tractor:		
Diesel	8,555 lbs.	8,185 lbs.
Gasoline	8,305 lbs.	7,935 lbs.
LP-Gas	8,490 lbs.	8,120 lbs.

4000 tractor:	
Diesel	7,670 lbs.
Gasoline	7,420 lbs.

*8 U.S. qts. on Hi-Crop Tractors.

**Add approx. 4-1/2 gals. if equipped with Power Front Wheel Drive.

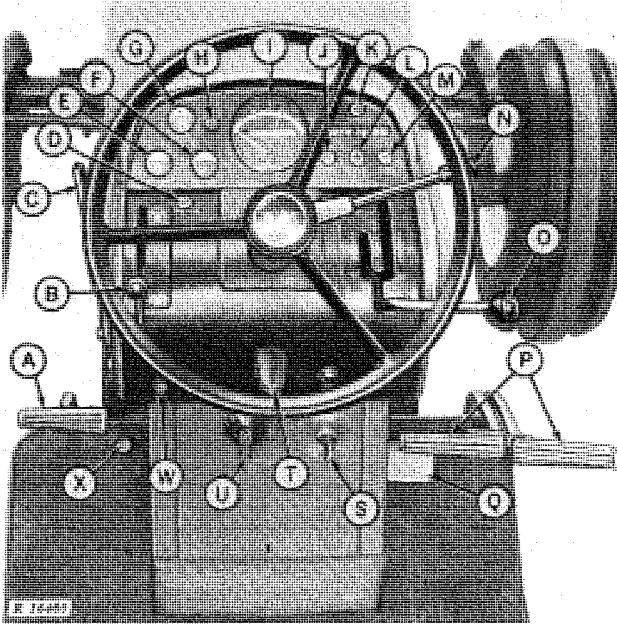
***Additional tires sizes available.

Specifications and design subject to change without notice.



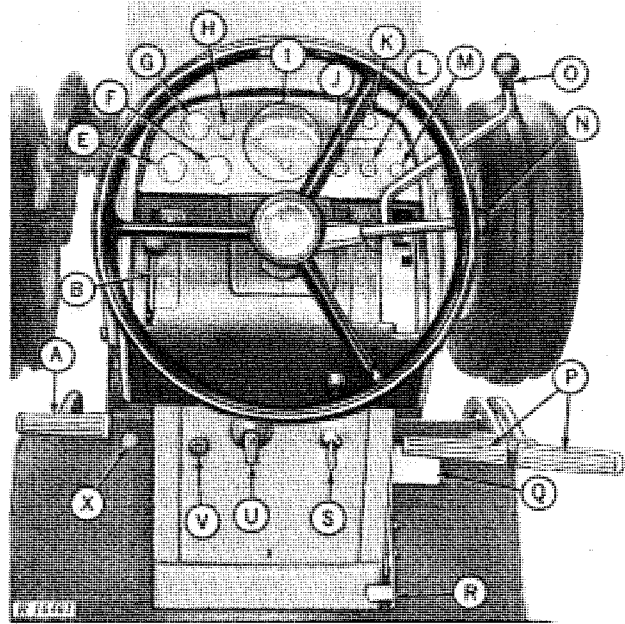
CONTROLS AND INSTRUMENTS

Before attempting to operate your new tractor, become familiar with the location and purpose of its controls and instruments. Additional information will be found on the page number following the control or instrument. Worldwide graphic symbols are used to assist identification and operation. See the inside back cover of this manual.

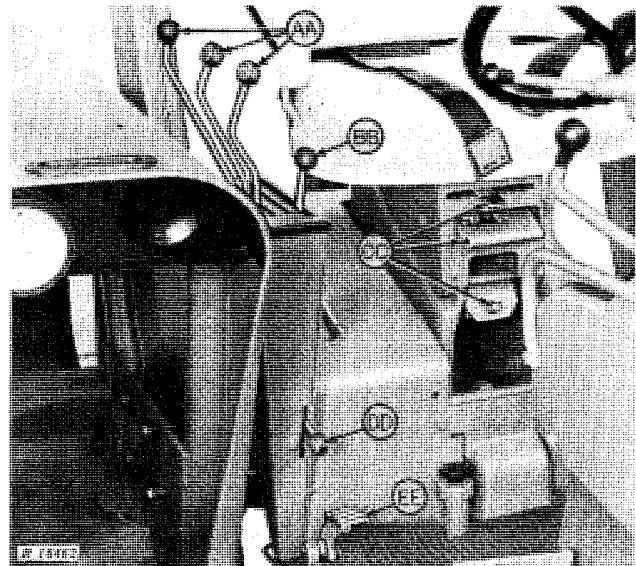


Tractor with Diesel Engine and Power Shift Transmission

- A - Clutch Pedal (Synco-Range Tractors, page 13)
Inching Pedal (Power Shift Tractors, page 12)
- B - Power Take-Off Clutch Lever (page 41)
- C - Engine Disconnect Lever (Power Shift Tractors, page 8)
- D - Transmission Oil Filter Indicator Light (Power Shift Tractors, page 13)
- E - Transmission Oil Temperature Gauge (page 13)
- F - Coolant Temperature Gauge
- G - Fuel Gauge
- H - Speed Indicator Knob (page 12)
- I - Speed-Hour Meter (pages 12 and 50)
- J - Alternator Indicator Light (pages 5 and 6)
- K - Hi-Beam Indicator Light (page 24)
- L - Air Cleaner Indicator Light (pages 5 and 6)
- M - Oil Pressure Indicator Light (pages 5 and 6)
- N - Hand Throttle (page 9)
- O - Shift Lever (Synco-Range Tractors, page 13)
Speed Selector (Power Shift Tractors, page 12)
- P - Brake Pedals (page 16)
- Q - Foot Throttle (page 9)
- R - Starting Pedal (page 9)
- S - Key Switch (pages 5, 6, and 10)
- T - Ether Starting Fluid Adapter (Diesel Tractors, page 7)
- U - Light Switch (page 25)
- V - Engine Choke Knob (Gasoline Tractors, page 6)
- W - Disconnect Lever Latch (Power Shift Tractors, page 8)
- X - Dimmer Switch (page 25)



Tractor with Gasoline Engine and Synco-Range Transmission



- AA - Remote Cylinder Operating Levers (page 36)
- BB - Rockshaft Control Lever (page 27)
- CC - Seat Controls (page 11)
- DD - Rockshaft Selector Lever (page 28)
- EE - Differential Lock Pedal (page 16)

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