

# 4000 and 4020 Tractor (Serial No. 201000-)



JOHN DEERE

## OPERATORS MANUAL

4000 and 4020 Tractor  
(Serial No. 201000-)

OMR46934 Issue L9 English

John Deere Waterloo Works  
OMR46934 Issue L9

LITHO IN U.S.A.  
ENGLISH



# TO THE PURCHASER

Your versatile new John Deere Tractor meets the exacting requirements of modern farming.

Operating ease and comfort, hydraulic power when and where you need it, the ability to match engine power and transmission speed to any job, outstanding economy and dependability, modern styling, and simplicity of lubrication and service are all special features of this great tractor.

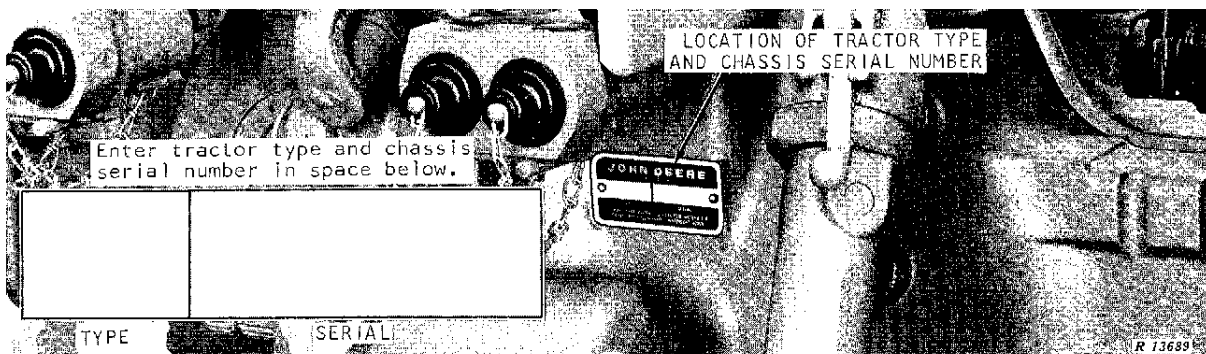
We are confident this modern tractor, combined with equally advanced John Deere tools and implements, will help you to farm better, easier, and more profitably.

At the time the tractor was delivered, the John Deere dealer discussed with you its safe operation and proper care. However, before putting the tractor to work, read this manual. It contains complete instructions for operating the tractor, caring for it, and taking full advantage of its many time- and labor-saving features. After reading the manual, keep it in a convenient place for quick and easy reference if questions arise concerning operation, lubrication, or service.

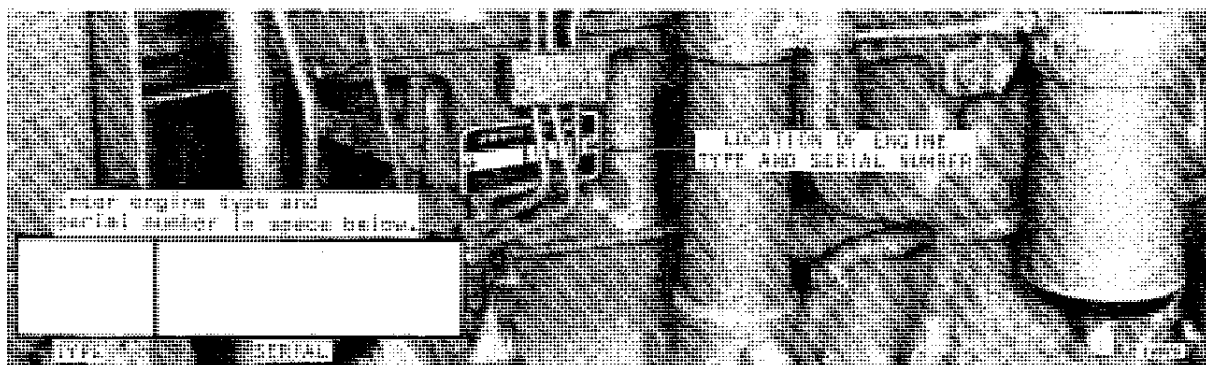
The warranty on this tractor appears on your copy of the Purchase Order which you should have received from your dealer when you purchased the tractor.

Your John Deere dealer wants to help you get the most value from your tractor. His skilled servicemen can handle every job efficiently. These men are trained in modern service methods; they have all necessary tools and equipment. If new parts are needed, only genuine John Deere parts will be installed. These parts are exact duplicates of the originals, made from the same patterns and of the same high-quality materials.

When in need of new parts, be prepared to furnish your dealer with the tractor type, complete tractor chassis serial number, engine type, and complete engine serial number. For ready reference, locate and record the above information in the spaces provided in the illustrations below.



*Tractor Type and Chassis Serial Number*

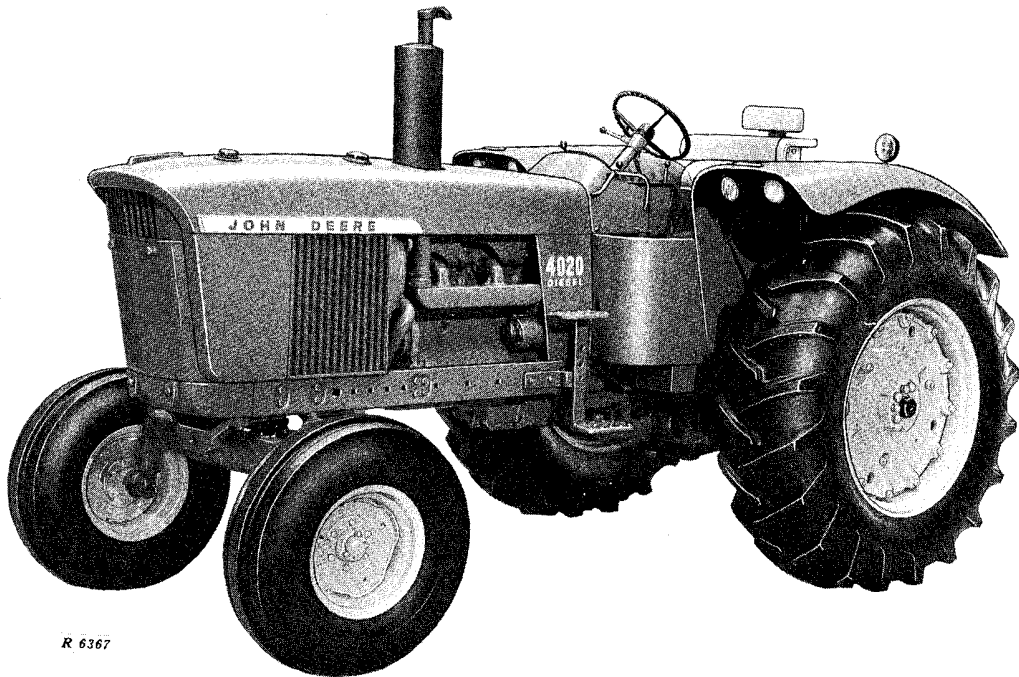


*Engine Type and Serial Number*



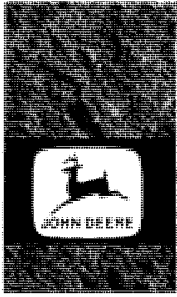
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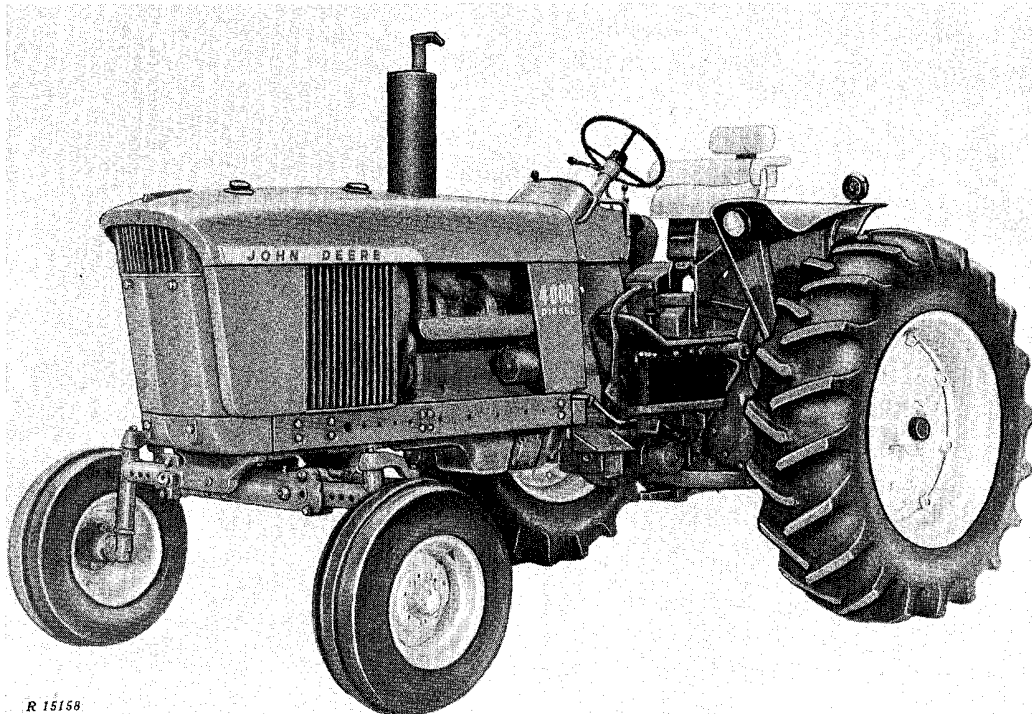
*John Deere 4020 Standard Tractor with Diesel Engine*



# SPECIFICATIONS

	Diesel	Gasoline	LP-Gas
<b>HORSEPOWER (Measured at the PTO):*</b>			
4020 with Syncro-Range Transmission . . . . .	94.88 h.p.	96.66 h.p.	94.57 h.p.
4020 with Power Shift Transmission . . . . .	95.83 h.p.	95.66 h.p.	90.48 h.p.
4000 Tractor . . . . .	96.89 h.p.		
<b>ENGINE:</b>			
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.	360 cu. in.	360 cu. in.
Compression ratio . . . . .	16.5 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 . . . . .		0.016 in.	0.016 in.
Spark plug gap . . . . .		0.025 in.	0.015 in.
<b>ELECTRICAL SYSTEM:</b>			
Electrical system voltage . . . . .	12 volts	12 volts	12 volts
Batteries (see page 72) . . . . .	Two (connected in series)	One	One

\*Maximum observed PTO horsepower at 2200 engine rpm.



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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

Maximum pressure . . . . . 2250 psi

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

**GROUND SPEEDS** . . . . . See page 13

**FRONT WHEEL TREAD** . . . . . See page 18

**REAR WHEEL TREAD:**

Regular and offset wheels . . . . . See page 19

Double wheels . . . . . See page 21

**FRONT TIRES\*\*\***

4000 tractor . . . . . 9.5L-15, 6-ply

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

4020 standard tractor . . . . . 7.50-18, 6-ply

**REAR TIRES\*\*\***

4000 tractor . . . . . 16.9-34, 6-ply

4020 row-crop tractor . . . . . 18.4-34, 8-ply

4020 standard tractor . . . . . 18.4-34, 6-ply

**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:**

	Not Air Conditioned	Air Conditioned
Blower capacity . . . . .	290 cfm	560 cfm
Heater capacity . . . . .	20,000 btu/hr	22,000 btu/hr

Interior height (to roof) . . . . .	60.5 in.	60.5 in.
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Interior width (window frame to window frame) . . . . .	50 in.	50 in.
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Interior length (window frame to window frame) . . . . .	62 in.	62 in.
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Exterior width at fender well . . . . .	36.4 in.	36.4 in.
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Exterior cab height (tires at loaded radius) . . . . .	110.2 in.	112.0 in.
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**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):

4020 tractor:	Row-Crop	Standard
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Diesel . . . . .	8,555 lbs.	8,185 lbs.
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Gasoline . . . . .	8,305 lbs.	7,935 lbs.
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LP-Gas . . . . .	8,490 lbs.	8,120 lbs.
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4000 tractor:

Diesel . . . . .	7,670 lbs.
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Gasoline . . . . .	7,420 lbs.
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\*8 U.S. qts. on Hi-Crop Tractors.

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

\*\*\*Additional tires available for special purposes.

Specifications and design subject to change without notice.

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