

# JOHN DEERE 4020 TRACTOR



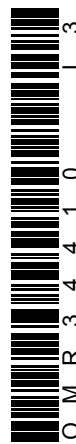
JOHN DEERE

## OPERATORS MANUAL JOHN DEERE 4020 TRACTOR

OMR34410 L3 English

**OMR34410 L3**

LITHO IN THE 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.

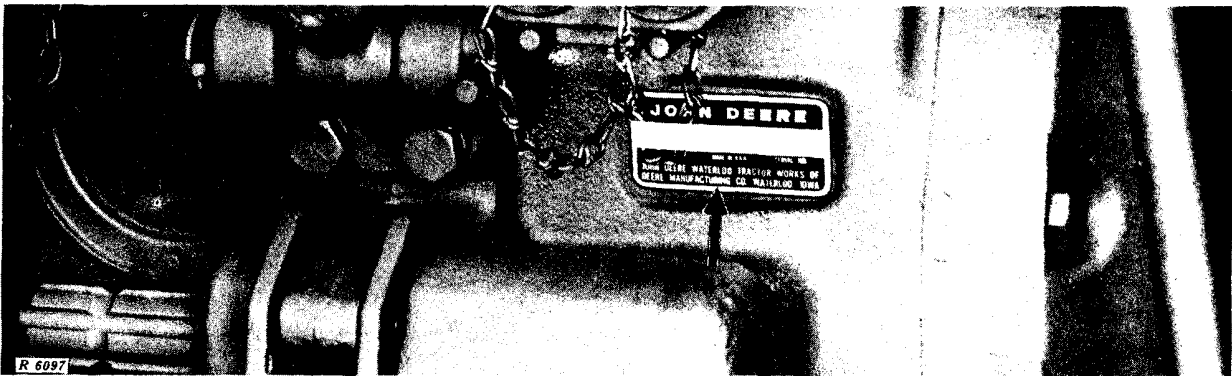
We are confident this modern tractor, combined with equally advanced John Deere tools and implements, will help you to farm better, easier, and more profitably.

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.

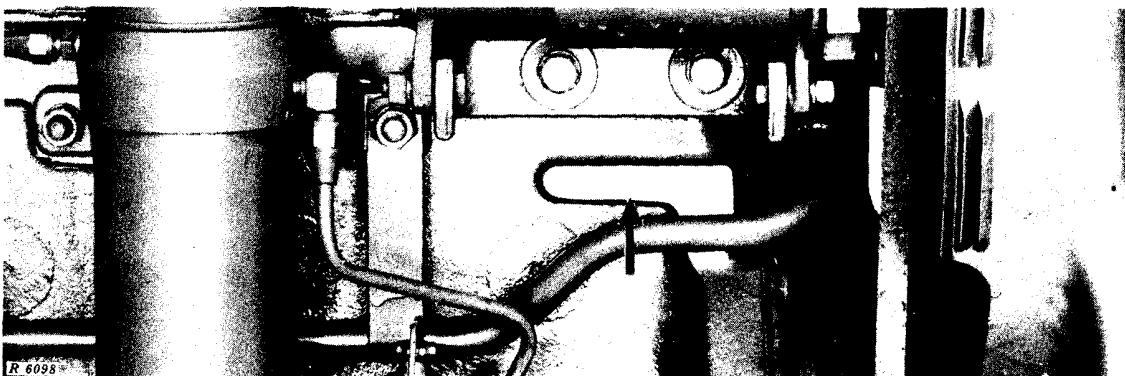
The service policy which you received with your new tractor certifies that the tractor was properly inspected and prepared for delivery by your John Deere dealer. Keep this policy in a safe place and present it to the dealer whenever services which it authorizes are required.

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.

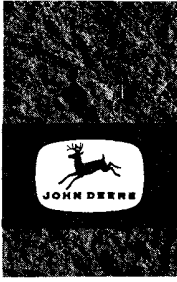
When in need of new parts, be prepared to furnish your dealer with the engine serial number, the tractor chassis serial number, and the tractor series number. For ready reference, locate and record the serial numbers in the spaces provided in the following illustrations.



*Record Tractor Chassis Serial Number*

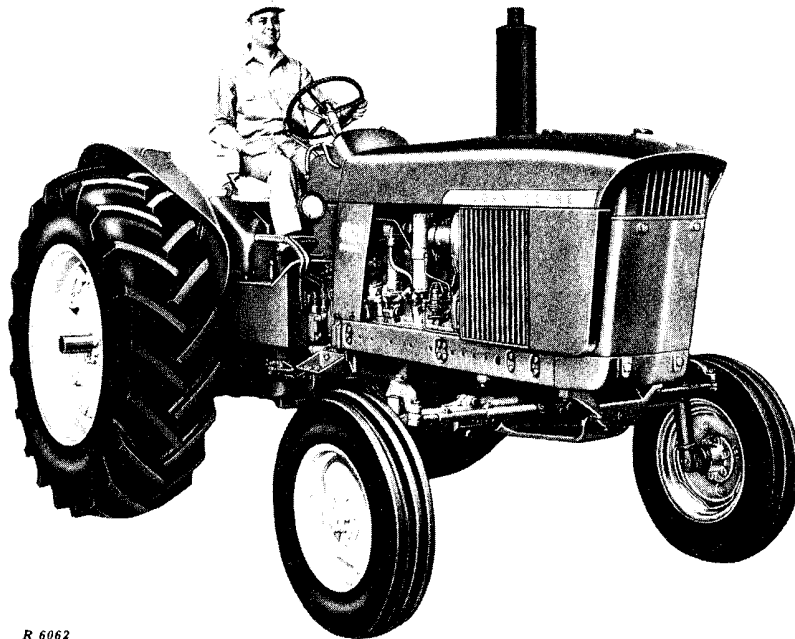


*Record Engine Serial Number*



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R 6062

*John Deere 4020 Standard Tractor with Diesel Engine*



# SPECIFICATIONS

<b>HORSEPOWER (2200 engine rpm):*</b>	Diesel	Gasoline	LP-Gas
PTO (observed) . . . . .	91 h.p.	88 h.p.	90 h.p.
Drawbar (observed) . . . . .	78 h.p.	75 h.p.	79 h.p.

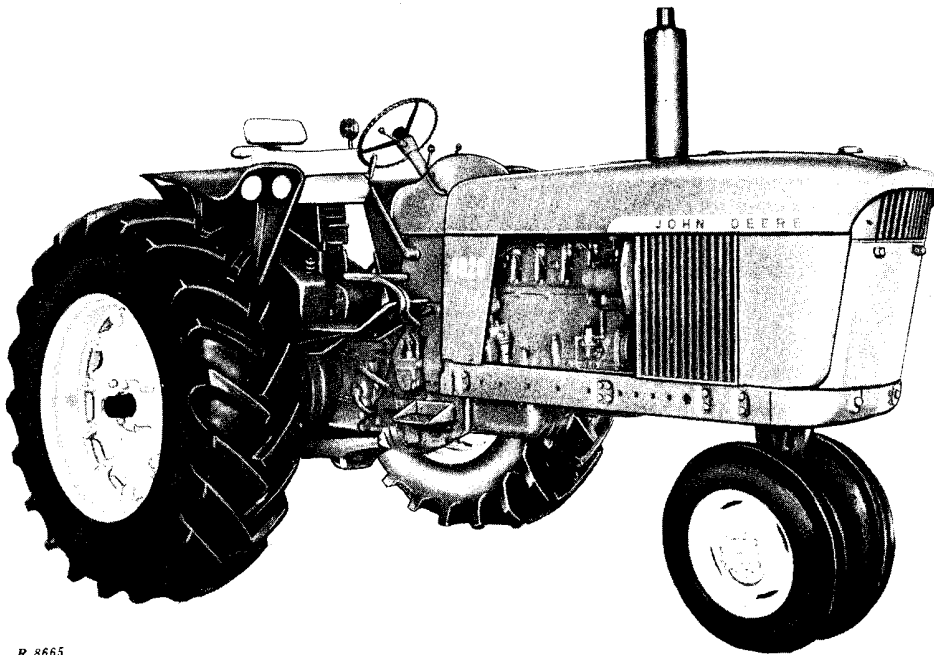
**ENGINE:**

Type . . . . .	6-cylinder, in-line, valve-in-head		
Engine speeds:			
Idle for engine shutoff . . . . .		420 rpm	500 rpm
Normal slow idle . . . . .	600 rpm	650 rpm	650 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 in.	4-1/4 in. x 4 in.
Displacement . . . . .	404 cu. in.	340 cu. in.	340 cu. in.
Compression ratio . . . . .	16.5 to 1	7.5 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.	0.028 in.
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.

**ELECTRICAL SYSTEM:**

Starter and generator voltage . . . . .	24 volts	12 volts	12 volts
Lights and accessory voltage . . . . .	12 volts	12 volts	12 volts
12-volt battery, 78-plate, 75 amp-hour . . . . .	Two (connected in series)	One	One

*\*Above observed horsepower figures are official at 2200 engine rpm.*



R 8665

*John Deere 4020 Row-Crop Tractor with Gasoline 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 . . . . . Dry system—9 U.S. qts.  
At service intervals—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.
- Air cleaner . . . . . Diesel—4-3/4 U.S. pints  
Gasoline, LP-Gas—2-3/4 U.S. pints
- Cooling system . . . . . 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 . . . . . 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 TAKE-OFF:**

- Type . . . . . Independent PTO with front and rear power take-off.  
Stub shafts used for rear dual speed PTO speed conversion
- Speed (1900 engine rpm) . . . . . Front—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 12**

**FRONT TIRES\*\***

- Row-crop . . . . . 6.00-16, 6-ply
- Standard . . . . . 7.50-18, 6-ply

**REAR TIRES:\*\***

- Row-crop . . . . . 15.5-38, 6-ply
- Standard . . . . . 18.4-34, 6-ply

**FRONT WHEEL TREAD: . . . . . See pages 16 and 17**

**REAR WHEEL TREAD:**

- Regular and offset wheels . . . . . See page 18
- Dual wheels . . . . . See page 20

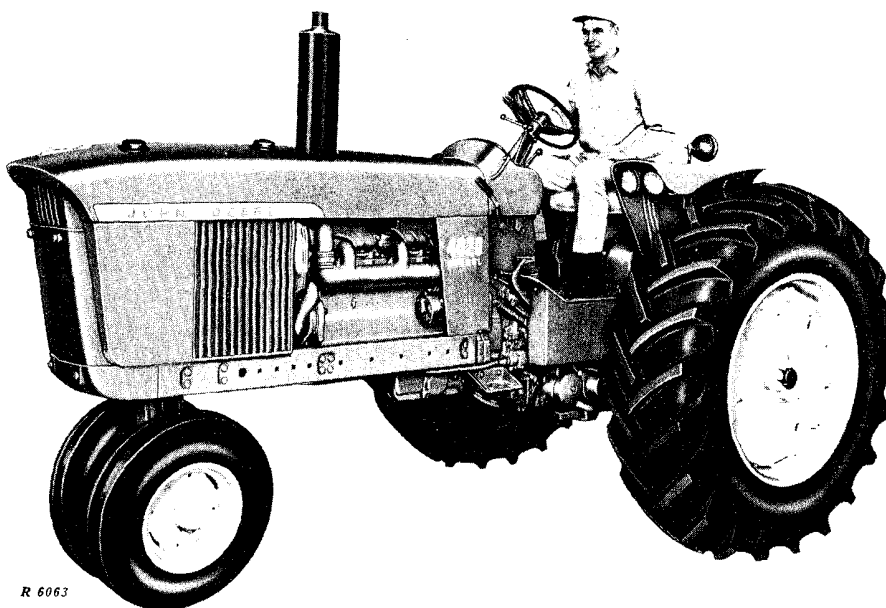
**DIMENSIONS:**

	Row-Crop	Standard
Wheelbase	97-1/2 in.	89 or 100-1/4 in.
Over-all length	151 in.	150-1/8 in.
Over-all height	88-3/4 in.	88-1/4 in.
Height to steering wheel	77-7/8 in.	78-1/2 in.
Width (regular axle)	89-5/8 in.	89-5/8 in.
Turning radius	119 in.	130-1/2 in.

**SHIPPING WEIGHT (Syncro-Range Tractors equipped for average field service, less fuel and ballast. Add 375 pounds if tractor has Power Shift transmission):**

	Row-Crop	Standard
Diesel	8436 lbs.	9044 lbs.
Gasoline	8228 lbs.	8793 lbs.
LP-Gas	8319 lbs.	8918 lbs.

*\*\*Additional tires available for special purposes. Specifications and design subject to change without notice.*



R 6063

John Deere 4020 Row-Crop Tractor with Diesel Engine and Power Shift Transmission

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