

**3020  
TRACTORS  
(SERIAL NO. 68000- )**



**OPERATORS MANUAL  
3020 TRACTORS  
(SERIAL NO. 68000- )**

OMR41753 L7 English

**JOHN DEERE TRACTOR WORKS  
OMR41753 L7**

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.

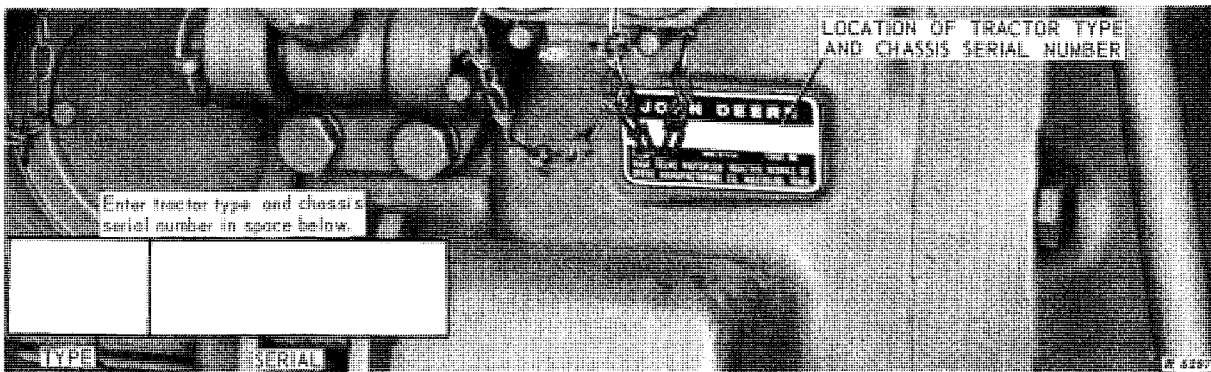
We are confident this modern tractor, combined with equally advanced John Deere tools and implements, will help you to farm better, easier, and more profitably.

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.

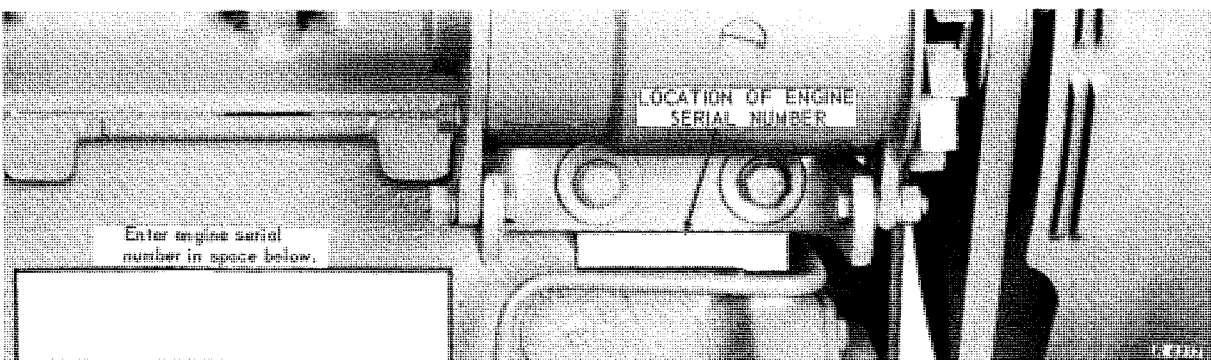
The service policy which you received with your new tractor certifies that the tractor was properly inspected and prepared for delivery by your John Deere dealer. Keep this policy in a safe place and present it to the dealer whenever services which it authorizes are required.

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 tractor type, complete tractor chassis serial number, 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 Tractor Chassis Serial Number*

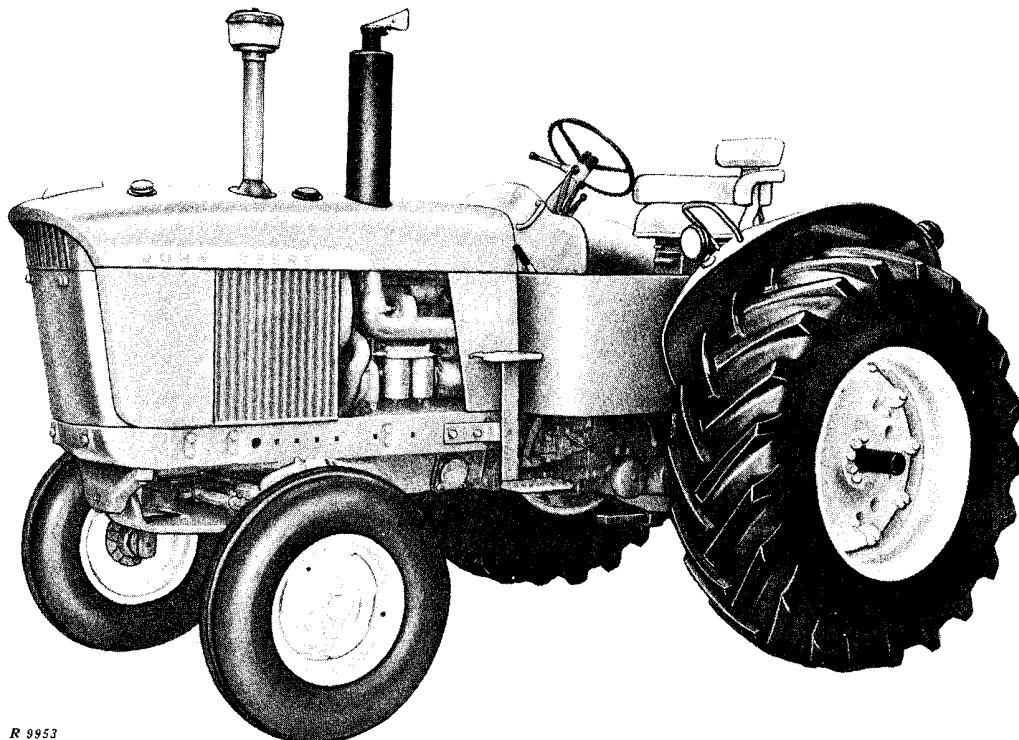


*Engine Serial Number*



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R 9953

*John Deere 3020 Standard Tractor with Diesel Engine and  
Power Shift Transmission*



# SPECIFICATIONS

<b>HORSEPOWER (observed):</b>	<b>Diesel</b>	<b>Gasoline</b>	<b>LP-Gas</b>
PTO (Synchro-Range Transmission)* . . . . .	70 h.p.	70 h.p.	70 h.p.
PTO (Power-Shift Transmission)** . . . . .	65 h.p.	64 h.p.	64 h.p.
Drawbar (Power-Shift Transmission)** . . . . .	57 h.p.	55 h.p.	56 h.p.

**ENGINE:**

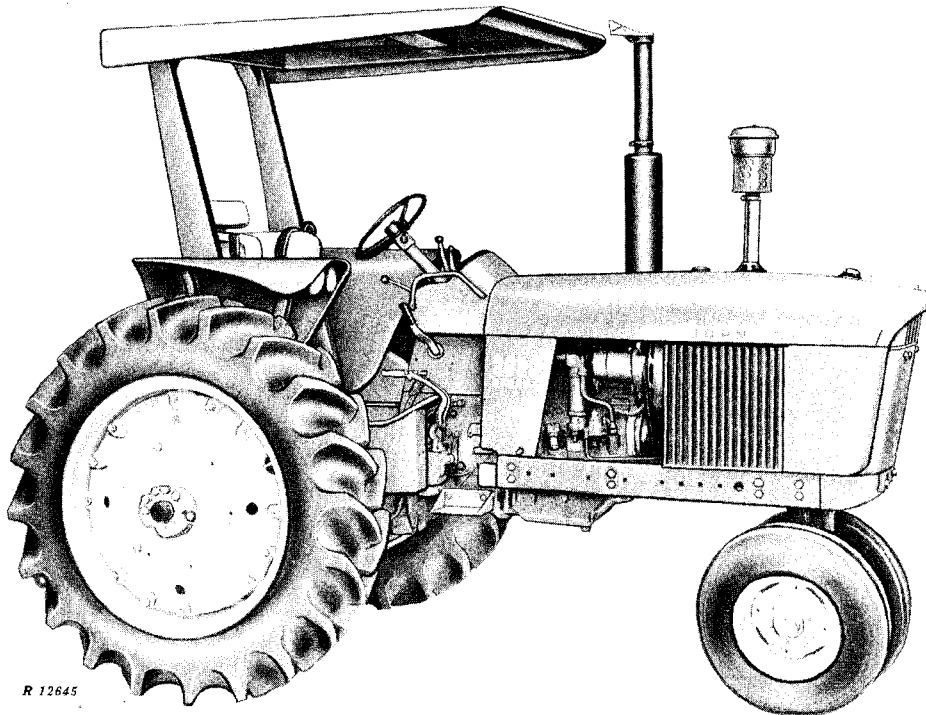
Type . . . . .	4-cylinder, in-line, valve-in-head		
Engine speeds:			
Idle for engine shutoff . . . . .		420 rpm	500 rpm
Normal slow idle . . . . .	600 rpm	650 rpm	650 rpm
Working range . . . . .	1500 to 2500 rpm	1500 to 2500 rpm	1500 to 2500 rpm
Bore and stroke . . . . .	4-1/4 in. x 4-3/4 in.	4-1/4 in. x 4 in.	4-1/4 in. x 4 in.
Displacement . . . . .	270 cu. in.	227 cu. in.	227 cu. in.
Compression ratio . . . . .	16.5 to 1	7.5 to 1	9.0 to 1
Firing order . . . . .	1-3-4-2	1-3-4-2	1-3-4-2
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 (see page 64 for engine speed) . . . . .		20° BTDC	25° BTDC
Distributor point gap . . . . .		0.022 in.	0.022 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

\* Maximum observed PTO horsepower at 2500 engine rpm (factory observed).

\*\* Above observed horsepower figures are official at 2500 engine rpm.



R 12645

John Deere 3020 Row-Crop Tractor with Diesel Engine and Power Shift Transmission  
Equipped with Roll-Gard, Canopy, and Seat Belt

**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-- 29 U.S. gals.

LP-Gas (80% full)-- 33.6 U.S. gals.

Crankcase . . . . . Dry system-- 9 U.S. qts.

At service intervals-- 8 U.S. qts.

Transmission-hydraulic system:

Synco-Range . . . . . Dry system-- 11 U.S. gals.

At service intervals-- 8 U.S. gals.

Power Shift . . . . . Dry system-- 14 U.S. gals.

At service intervals-- 11 U.S. gals.

Oil-bath air cleaner . . . . Diesel-- 4 U.S. pints

Gasoline and LP-Gas-- 2-1/4 U.S. pints

Cooling system . . . . . 19 U.S. qts.

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

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

**SYNCO-RANGE TRANSMISSION:**

Type . . . . . Synco-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 selections . . . . . 8 forward and 4 reverse

Shifting . . . . . Hydraulic, powershifting controlled by speed selector

**POWER TAKE-OFF:**

Type . . . . . Independent PTO with front and mid power take-off. Stub shafts used for rear PTO speed conversion on dual speed PTO.

Speed (2100 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 12

**FRONT TIRES\*\***

Row-crop . . . . . 6.00 - 16, 6-ply

Standard . . . . . 7.50 - 16, 6-ply

**REAR TIRES\*\***

Row-crop . . . . . 15.5 - 38, 6-ply

Standard . . . . . 18.4 - 30, 6-ply

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

**REAR WHEEL TREAD:**

Regular and offset wheels . . . . . See page 18

Double wheels . . . . . See page 19

**DIMENSIONS**

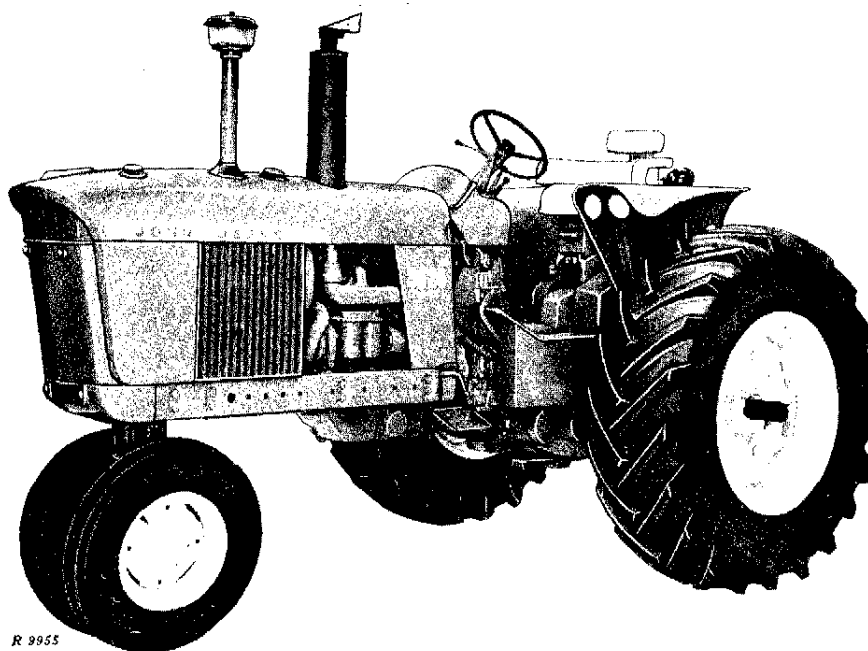
	Row-Crop	Standard
Wheel base	90 in.	81-1/2 or 92-3/4 in.
Over-all length	138-1/2 in.	138-1/2 in.
Over-all height	87-1/2 in.	85-3/4 in.
Height to steering wheel	75-1/2 in.	75-7/8 in.
Width (regular axle)	89-5/8 in.	89-5/8 in.
Turning radius	101 in.	111 in.

**SHIPPING WEIGHT** (With equipment for average field service, less fuel and ballast. Add 225 lbs. if tractor has Power Shift transmission:

	Row-Crop	Standard
Diesel	7342 lbs.	7857 lbs.
Gasoline	7139 lbs.	7654 lbs.
LP-Gas	7300 lbs.	7729 lbs.

\*\*Additional tires available for special purposes.

*Specifications and design subject to change without notice.*



R 9955

John Deere 3020 Row-Crop Tractor with Diesel Engine and Power Shift Transmission

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