



**John Deere**

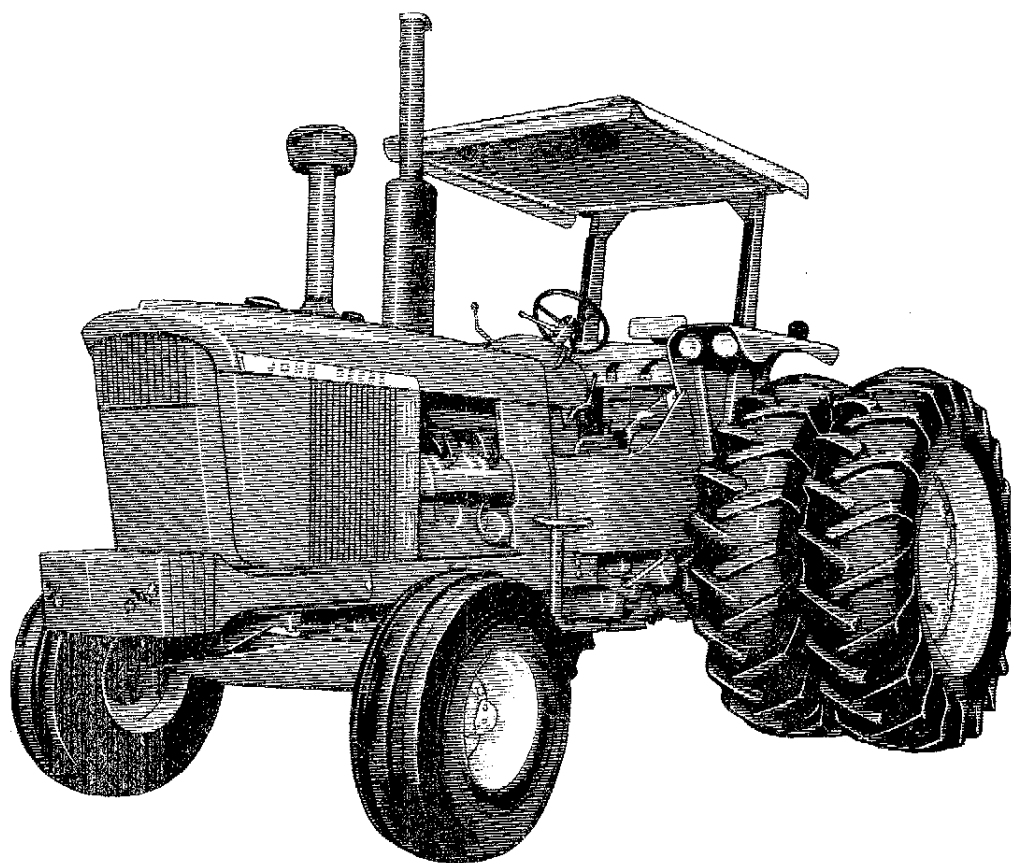
**Operator's Manual**

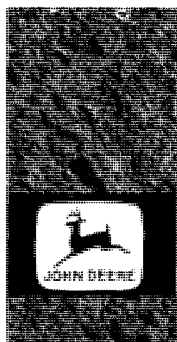
**5020 Tractor**

**OM-R48276**

**(Serial No. 30,001-up)**

**Issue H0**





# 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.

**!** This safety alert symbol identifies important safety messages in this manual. When you see this symbol, be alert to the possibility of personal injury and carefully read the message that follows.

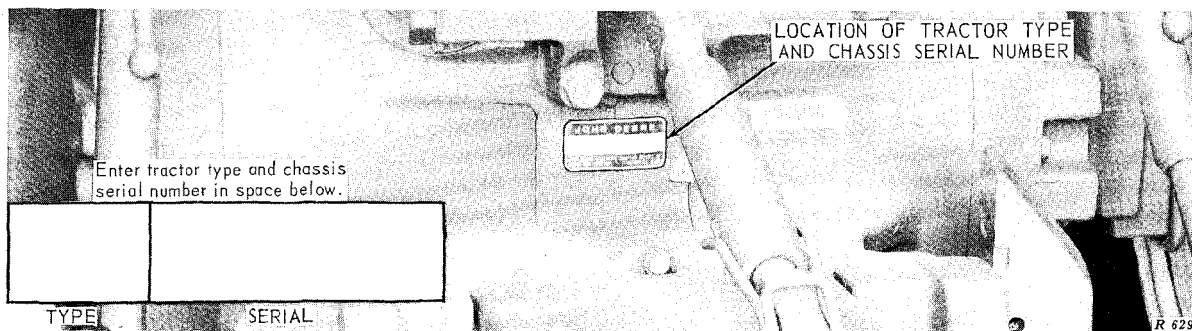
At the time the tractor was delivered, the John Deere dealer discussed with you its safe operation and proper care. However, before putting the tractor to work, read this manual. It contains complete instructions for operating the tractor, caring for it, and taking full advantage of its

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.

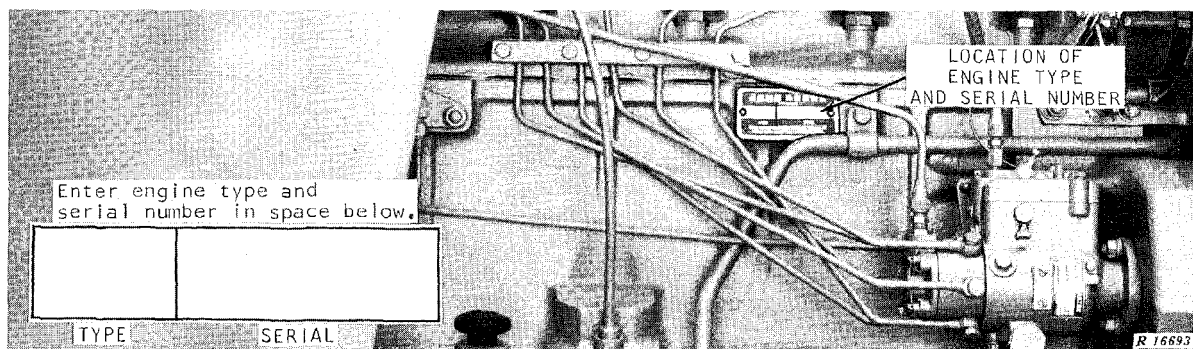
The warranty on this tractor appears on your copy of the purchase order which you should have received from your dealer when you purchased the tractor.

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 Chassis Serial Number*

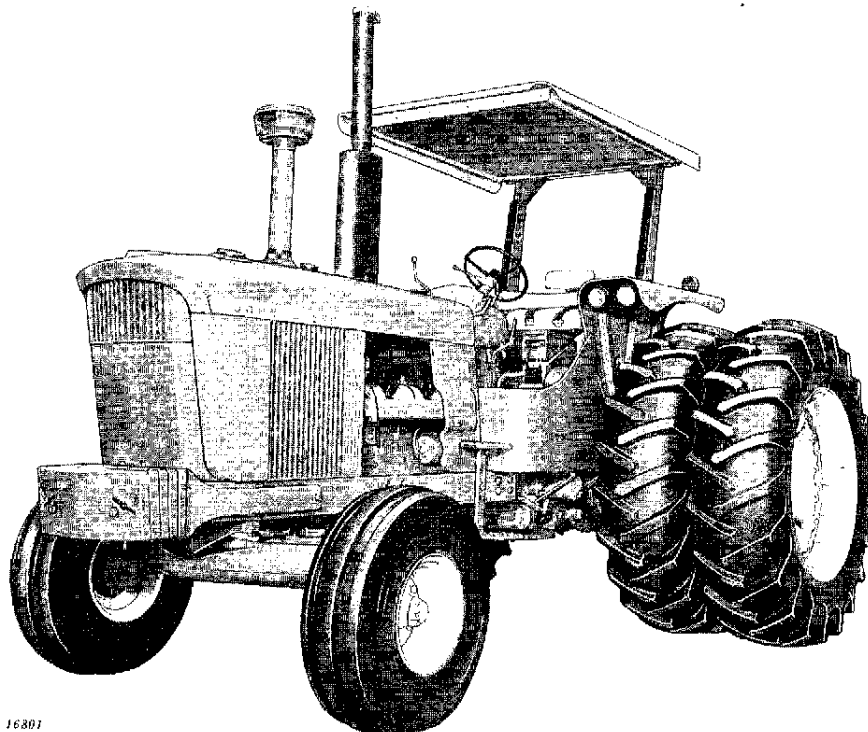


*Engine Serial Number*



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R 16301

*John Deere 5020 Row-Crop Diesel Tractor with Roll-Gard, Canopy, and Double Rear Wheels*



# SPECIFICATIONS

## \*HORSEPOWER:

Measured at the PTO . . . . . 141.34

## ENGINE:

Type . . . 6-cylinder, in-line, valve-in-head

Engine Speeds:

Slow idle . . . . . 800 rpm

Working range . . . . . 1500 to 2200 rpm

Maximum transport speed . . . . 2500 rpm

Bore and stroke . . . . . 4-3/4 in. x 5 in.

Displacement . . . . . 531 cu. in.

Compression ratio . . . . . 16.5 to 1

Firing order . . . . . 1-5-3-6-2-4

Valve clearance . . . . . intake 0.018 in.  
exhaust 0.028 in.

Injection pump timing . . . . . TDC

## CAPACITIES:

Fuel tank . . . . . 68 U.S. gals.

Crankcase (with filter change). 20 U.S. qts.

Transmission-hydraulic system 16 U.S. gals.

Cooling system (add  
2 U.S. qts. for cab heater) . . . 33 U.S. qts.

*\*Above horsepower figure is official at 2200 engine rpm.*

## GROUND SPEEDS:\*\*

1st . . . . . 1.7 mph

2nd . . . . . 2.6 mph

3rd . . . . . 3.5 mph

4th . . . . . 4.5 mph

5th . . . . . 5.6 mph

6th . . . . . 7.3 mph

7th . . . . . 9.4 mph

8th . . . . . 15.4 mph

1st reverse . . . . . 3.4 mph

2nd reverse . . . . . 5.4 mph

CLUTCH: . . . . Heavy-duty, two 12-in. plates,  
foot operated

LUBRICATION SYSTEM: . . . Force-feed pres-  
surized with full-flow oil filter

## FUEL SYSTEM:

Type . . . . . Direct injection

Injection pump type . . . . . Inlet metering,  
distributing type

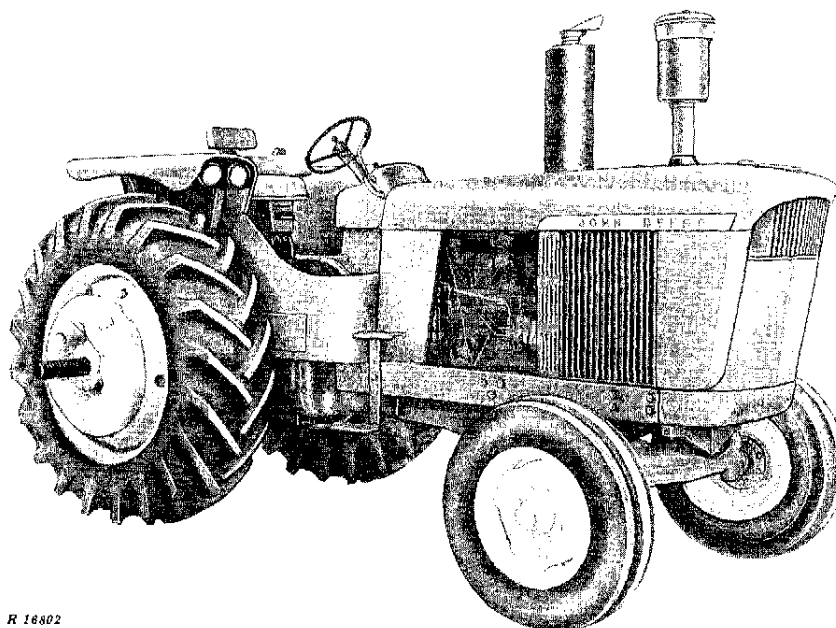
Air cleaner . . . . . Dry type

## COOLING SYSTEM:

Type . . . Pressurized with centrifugal pump

Engine temperature control . . . Two heavy-  
duty thermostats

*\*\*Calculated at 1900 rpm engine speed with 24.5-32 tires.*



R 16802

John Deere 5020 Row-Crop Diesel Tractor

**ELECTRICAL SYSTEM:**

Type. . . . . 12-volt, negative grounded  
 Batteries. . . . . Two 6-volt, 87-plate, 204  
                                 ampere-hour, group 6T3A,  
                                 tractor-type, connected in series

**TRANSMISSION:**

Type. . . . . Syncro-Range, constant-mesh  
 Gear selections. . . 8 forward and 2 reverse  
 Shifting. . . . . 4 stations, synchronized  
                                 shifting within stations

**POWER TAKE-OFF:**

Type. . . . . Independent  
 Speed (1900 engine rpm). . . . . 1010 rpm  
 PTO ahead of drawbar hitch point. . . 16 in.  
 PTO shaft above ground. . . . . 25-1/2 in.

PTO CLUTCH. . . . . Hydraulically power ac-  
                                 tuated, hand-operated

**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

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

Standard. . . . . 11.00-16, 8-ply  
 Row-Crop. . . . . 9.50-20, 8-ply

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

Standard. . . . . 24.5-32, 10-ply  
 Row-Crop. . . . . 18.4-38, 12-ply

FRONT WHEEL TREAD. . . . . See page 12

REAR WHEEL TREAD. . . . . See page 14

**DIMENSIONS:****Standard (Fixed tread front axle):**

Wheel base. . . . . 104 in.  
 Over-all length. . . . . 172.3 in.  
 Over-all height. . . . . 98.3 in.  
 Height to steering wheel. . . . . 82.4 in.  
 Width. . . . . Regular wheel, 95.8 in.  
 Drawbar clearance. . . . . 16 in.  
 Turning radius. . . . . 12 ft. 6 in.

**Row-Crop (81.5-inch tread front axle):**

Wheel base. . . . . 102 to 106 in.  
 Over-all length. . . . . 172.3 in.  
 Over-all height. . . . . 98.3 in.  
 Height to steering wheel. . . . . 82.4 in.  
 Over-all width. . . . . 108.4 in.  
 Turning radius. . . . . 13 ft.

**TRACTOR CAB:**

	Not Air Conditioned	Air Conditioned
Blower capacity . . .	290 cfm	560 cfm
Heater capacity . . .	20,000 btu/hr.	22,000 btu/hr.
Exterior cab height (tires at loaded radius)	107.3 in.	115.0 in.

**SHIPPING WEIGHT (With equipment for  
average field service):**

Standard . . . . .	15,600 lbs.
Row-Crop . . . . .	14,480 lbs.

\*\*\*Additional tire sizes available.

(Specifications and design subject to change without notice.)

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