

John Deere 3020 Row Crop Utility and Grove and Orchard Tractors



OPERATORS MANUAL

John Deere 3020 Row Crop Utility and Grove and Orchard Tractors

OMR34407 K3 English



John Deere Waterloo Works OMR34407 K3

> LITHO IN U.S.A. (REVISED) ENGLISH



TO THE PURCHASER

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

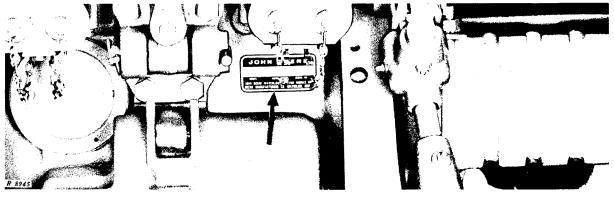
Operating ease and comfort, hydraulic power when and where you need it, the ability to match engine power and transmission speed to any job, outstanding economy and dependability, modern styling, and simplicity of lubrication and service are all special features of this great tractor.

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.

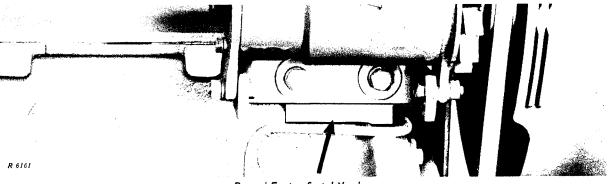
At the time the tractor was delivered, the John Deere dealer discussed with you its safe operation and proper care. However, before putting the tractor to work, read this manual. It contains complete instructions for operating the tractor, caring for it, and taking full advantage of its many time- and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



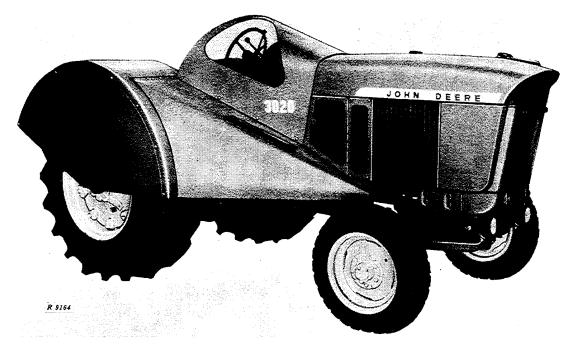
Record Engine Serial Number



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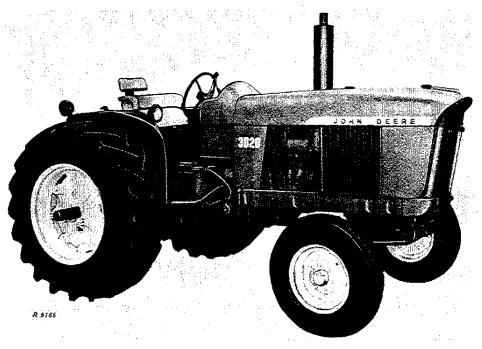
John Deere 3020 Grove and Orchard Tractor with Gasoline Engine



SPECIFICATIONS

| HORSEPOWER: * | Diesel | Gasoline | LP-Gas** |
|--|------------------------------------|-------------------|-------------------|
| PTO (observed) | 65 h.p. | 64 h.p. | 64 h.p. |
| Drawbar (observed) | 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 | 14° BTDC | • • • • • • • • • | |
| Distributor timing (see page 64 for | | | |
| engine speed) | · · · · · · · · · | 20° BTDC | 25° BTDC |
| Distributor point gap | • • • • • • <i>• •</i> | 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 |

*Above observed horsepower figures are official at 2500 engine rpm. **Available for Row-Crop Utility Tractors only.



John Deere 3020 Row-Crop Utility Tractor with Gasoline Engine and Syncro-Range Transmission

Specification 3

| COOLING SYSTEM: | | | |
|---|--|--|--|
| Type Pressurized with centrifu- gal 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. | | | |
| | | | |
| | | | |
| · · · · · · · · · · · · · · · | | | |
| Transmission-hydraulic system: | | | |
| Syncro-Range Dry System - 11U.S.gals. | | | |
| At service intervals – 8U.S. gals. | | | |
| Power Shift Dry System – 14U.S.gals. | | | |
| At service intervals – 11U.S. gals. | | | |
| Air cleaner Diesel- 4U.S. pints | | | |
| Gasoline and LP-Gas-2-1/4U.S. pints | | | |
| Cooling system | | | |
| Belt pulley | | | |
| 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 selections 8 forward and 4 reverse | | | |
| Shifting Hydraulic, powershifting control- | | | |
| led 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 con- | | | |
| version | | | |
| Speed (1900 engine rpm) Front-1000 rpm | | | |
| Dual speed rear-540 or 1000 rpm | | | |
| Single speed rear-1000 rpm | | | |
| bingle speed lear-root pin | | | |

Specifications and design subject to change without notice.

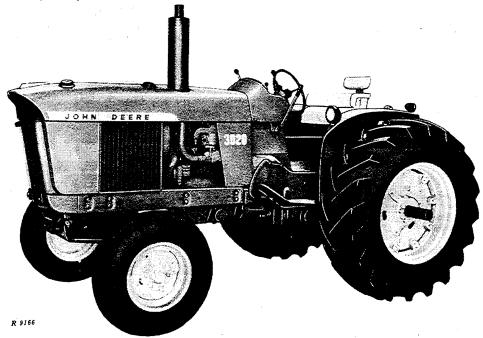
*Available for Row-Crop Utility Tractors Only.

| HYDRAULIC SYSTER | м: | | | |
|----------------------------------|--|-----------------|--|--|
| Туре | sure. Include ing, power b plement contr | | | |
| Maximum pressure | e <i>.</i> | 2250 psi | | |
| BRAKES | Hydraulically po disk-type, ope: | | | |
| GROUND SPEEDS . | | . See page 12 | | |
| FRONT TIRES** | 6 | .50 - 16, 6-ply | | |
| REAR TIRES** Row-Crop Utility | | | | |
| FRONT WHEEL TREAD See page 16 | | | | |
| REAR WHEEL TREAD See page 17 | | | | |
| DIMENSIONS | Row-Crop Utility | Orchard | | |
| Wheel base | 81-1/2 or 92-3/4 in. | 81-1/2 in. | | |
| Over-all length | 138-1/2 in. | 139 in. | | |
| Over-all height | 85-1/2 in. | 68 in. | | |
| Height to steer- | | | | |
| ing wheel | 66-1/2 in. | 65-1/2 in. | | |
| Width (regular | | | | |
| axle) | 89-5/8 in. | 81 in. | | |
| Turning radius | 120 in. | 120 in. | | |
| | With equipment for aver | | | |

ice, less fuel and ballast. Add 330 lbs. if tractor has Power Shift transmission:

| | Row-Crop Utility | Orchard |
|----------|------------------|-----------|
| Diesel | 7399 lbs. | 6481 lbs. |
| Gasoline | 7204 lbs. | 6360 lbs. |
| LP-Gas* | 7374 lbs. | |

**Additional tires available for special purposes.



John Deere 3020 Row-Crop Utility Tractor with Gasoline Engine and Syncro-Range Transmission Thank you so much for reading. Please click the "Buy Now!" button below to download the complete manual.



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