

JOHN DEERE 4520 ROW-CROP TRACTOR



JOHN DEERE

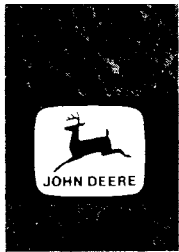
OPERATORS MANUAL JOHN DEERE 4520 ROW-CROP TRACTOR

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JOHN DEERE TRACTOR WORKS
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LITHO IN THE 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.

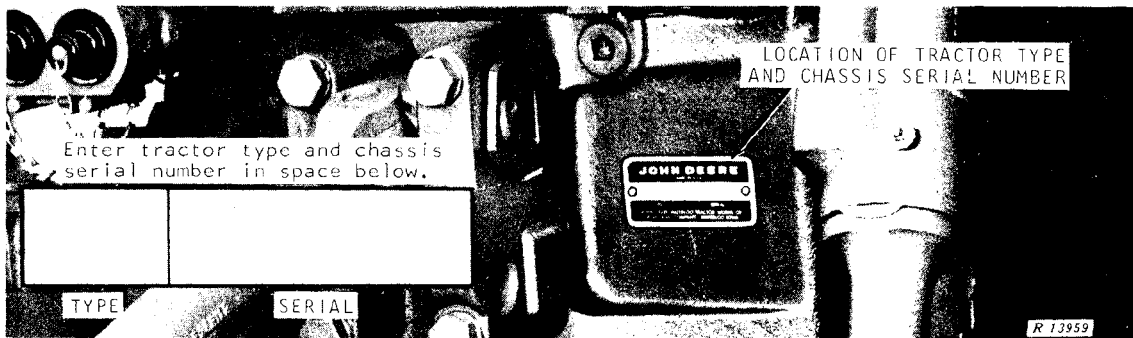
We are confident this modern tractor, combined with equally advanced John Deere tools and implements, will help you to farm better, easier, and more profitably.

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.

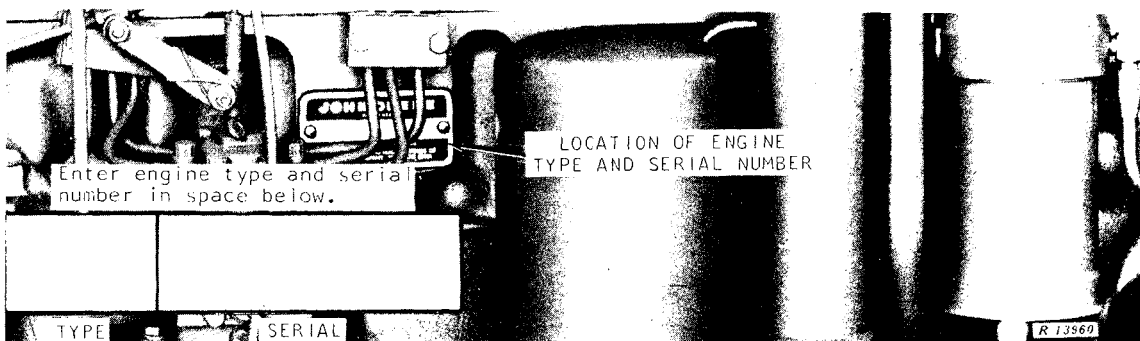
The warranty for this tractor appears on your copy of the purchase order which you should have received from your dealer when you purchased the tractor.

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 Tractor Chassis Serial Number



Engine Type and Engine Serial Number



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SPECIFICATIONS

HORSEPOWER:*

Observed at PTO (Syncro-Range) . . . 120 hp.

Observed at PTO (Power Shift) . . . 114 hp.

ENGINE:

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

Engine Speeds:

Slow idle 800 rpm

Working range 1500 to 2200 rpm

Maximum transport speed . . . 2500 rpm

Bore and stroke 4-1/4 in. x 4-3/4 in.

Displacement 404 cu. in.

Compression ratio 15.7 to 1

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

Valve clearance In.-0.018 in.

Ex.-0.028 in.

Injection pump timing TDC

LUBRICATION SYSTEM: . . Force-feed pressurized 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

Temperature control Heavy-duty thermostat

CAPACITIES:

Fuel tank 50 U.S. gals.

Cooling system 28 U.S. qts.

Crankcase (with filter change) 16 U.S. qts.

Transmission-hydraulic system:

Syncro-Range Transmission 18 U.S. gals.

Power Shift Transmission . 16 U.S. gals.

SYNCRO-RANGE TRANSMISSION:

Type Syncro-Range, constant mesh

Clutch Heavy-duty, 14-3/4 in. plate, foot operated

Gear selections . . . 8 forward and 2 reverse

Shifting 4 stations, synchronized shifting within stations

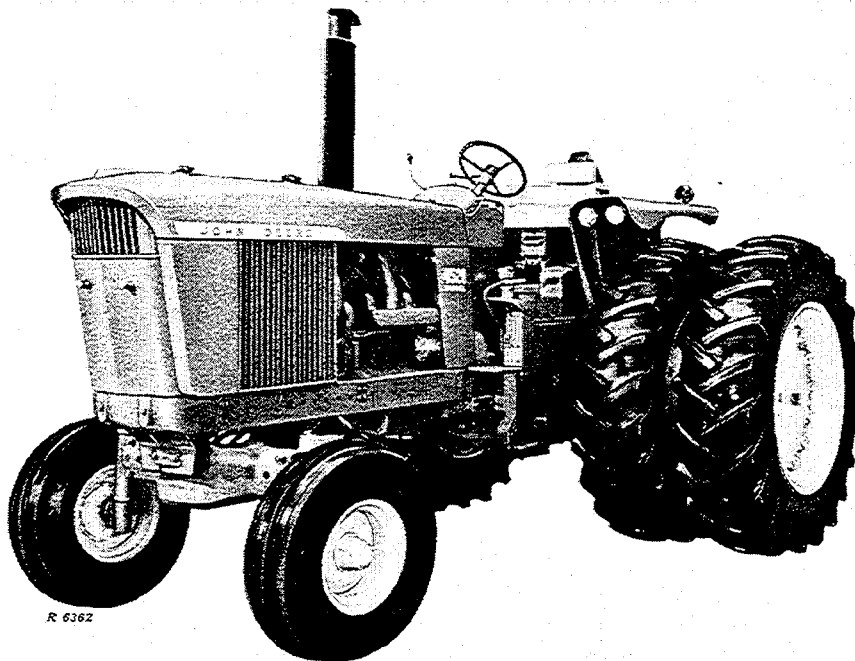
POWER SHIFT TRANSMISSION:

Type Planetary gears, hydraulically actuated wet disk clutches and brakes

Gear selections . . . 8 forward and 4 reverse

Shifting Hydraulic, powershifting controlled by speed selector

*Above horsepower figures are factory observed at 2200 engine rpm.



Row-Crop Tractor with Turbocharged Diesel Engine, Syncro-Range Transmission and Double Rear Wheels

POWER TAKE-OFF

Type Independent PTO with mid and rear power take-off controlled by hand-operated clutch lever

Clutch:

Syncro-Range . . . One dry-disk, hydraulically actuated

Power Shift Multiple disk, wet clutch hydraulically actuated

Speed (1900 engine rpm). 1000 rpm

PTO ahead of drawbar hitch point . . . 16 in.

HYDRAULIC SYSTEM:

Type Closed center, constant pressure. Includes power steering, power brakes, implement control, and transmission and differential lubrication.

Maximum pressure 2250 psi

BRAKES Hydraulically power actuated, disk-type operating in oil

ELECTRICAL SYSTEM:

Type 12-volt, negative grounded

Batteries Two, 6-volt, 75-plate 172-ampere-hour, 3 EH type, connected in series

Alternator 12-volt, 55-amp, with integral transistorized regulator

FRONT TIRES* 10.00-16, 6-ply

REAR TIRES* 20.8-38, 10-ply

FRONT WHEEL TREAD:

10.00-16 tire 57-1/2 to 83-1/4 in.

REAR WHEEL TREAD:

20.8-38 tire, regular axle . . . 63 to 108 in.

GROUND SPEEDS See page 11

DIMENSIONS:

Wheel base 106-1/2 in.

Over-all length 170-3/4 in.

Over-all height 106 in.

Height to steering wheel 87 in.

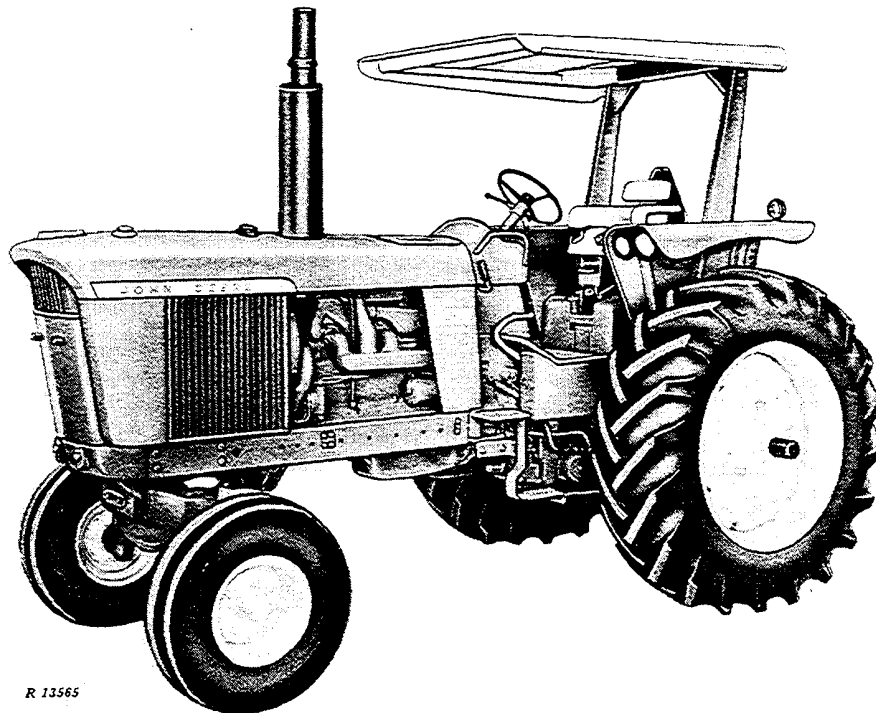
Over-all width 95-7/8 in.

Turning radius 151 in.

SHIPPING WEIGHT (With equipment for average field service, less fuel and ballast). Subtract 670 lbs. if equipped with Syncro-Range transmission. Add 575 lbs. if equipped with Roll-Gard.

Row-Crop 12,285 lbs.

**Additional tire sizes available. (Specifications and design subject to change without notice.)*



R 13565

Row-Crop Tractor with Turbocharged Diesel Engine, Power Shift Transmission and Roll-Gard

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