

JOHN DEERE 2510 ROW-CROP AND HI-CROP TRACTORS



JOHN DEERE

OPERATORS MANUAL JOHN DEERE 2510 ROW-CROP AND HI-CROP TRACTORS

OMR38407 G8 English

JOHN DEERE WATERLOO WORKS
OMR38407 G8

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.

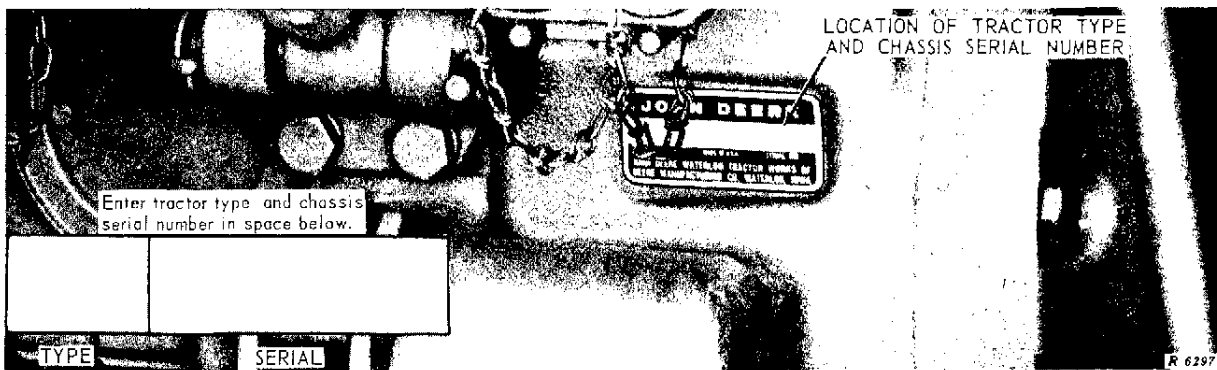
At the time the tractor was delivered, the John Deere dealer discussed with you its safe operation and proper care. However, before putting the tractor to work, read this manual. It contains complete instructions for operating the tractor, caring for it, and taking full advantage of its many time- and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

Information concerning warranty on this equipment appears on your copy of the Delivery Receipt which you should have received from your dealer when the equipment was delivered to you.

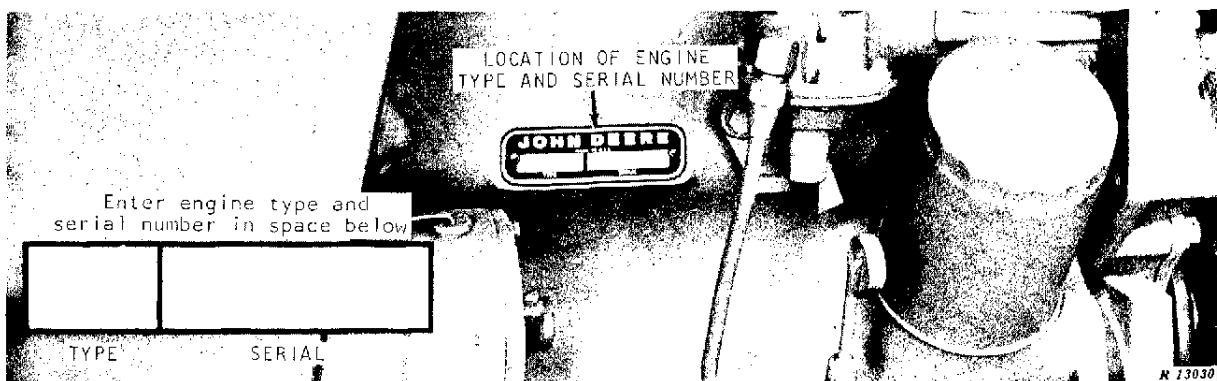
Your John Deere dealer wants to help you get the most value from your tractor. His skilled servicemen can handle every job efficiently. These men are trained in modern service methods; they have all necessary tools and equipment. If new parts are needed, only genuine John Deere parts will be installed. 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.

As a member of the National Safety Council, we are privileged to use the Green Cross for Safety to designate not only our interest in Safety, but to emphasize and call attention to the safety precautions in this manual.



Record Tractor Chassis Serial Number

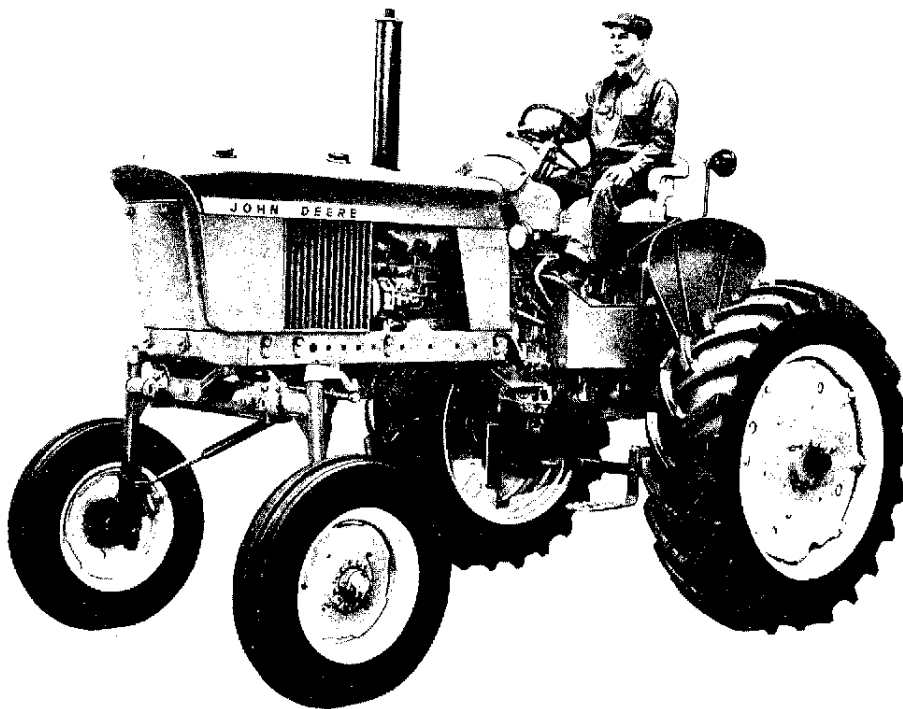


Record Engine Serial Number



CONTENTS

	Page
SPECIFICATIONS	2
CONTROLS AND INSTRUMENTS	4
OPERATION	5
SAFETY RULES	40
FUELS AND LUBRICANTS	42
LUBRICATION AND PERIODIC SERVICE	45
SERVICE	57
TRACTOR STORAGE	72
TROUBLE SHOOTING	73
INDEX	78



R 6217

*John Deere 2510 Hi-Crop Tractor with Diesel Engine and
Power Shift Transmission*



SPECIFICATIONS

HORSEPOWER:*

Observed at PTO (Syncro-Range)	Diesel 54.96 h.p.	Gasoline 53.74 h.p.
Observed at PTO (Power Shift)	50.66 h.p.	49.57 h.p.

ENGINE:

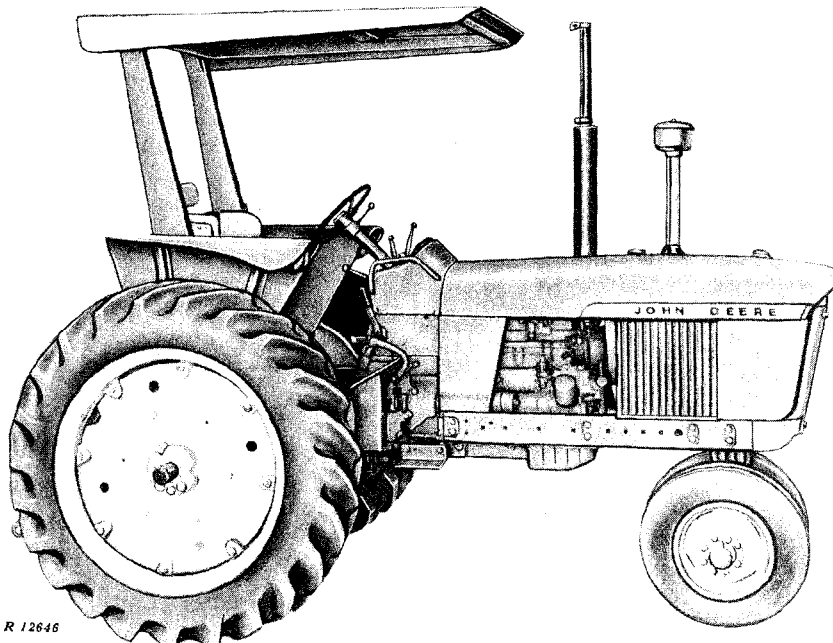
Type	4-cylinder, in-line, valve-in-head	
Engine speeds:		
Idle for engine shut-off.	**425 rpm
Normal slow idle.	800 rpm	800 rpm
Working range	1500 to 2500 rpm	1500 to 2500 rpm
Bore and stroke	3.86 in. x 4.33 in.	3.86 in. x 3.86 in.
Displacement.	202 cu. in.	180 cu. in.
Compression ratio	16.3 to 1	7.5 to 1
Firing order	1-3-4-2	1-3-4-2
Intake valve clearance.	0.014 in.	0.014 in.
Exhaust valve clearance	0.018 in.	0.022 in.
Injection pump timing	TDC
Distributor timing (2500 rpm engine speed).	"S" mark
Distributor point gap.	0.020 in.
Spark plug gap.	0.025 in.

ELECTRICAL SYSTEM:

Starter and alternator voltage.	12 volts	12 volts
Lights and accessory voltage	12 volts	12 volts
12-volt battery, 78-plate, 75 amp-hour.	Two	One

*Maximum horsepower observed in official tests at 2500 engine rpm.

**Disregard if carburetor is equipped with electrical fuel shut-off solenoid.



R 12646

John Deere 2510 Row-Crop Tractor with Diesel Engine and Power Shift Transmission, Equipped with Roll-Gard and Canopy

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 -- 26 U.S. gals.

Crankcase (includes filter) -- 7 U.S. qts.

Transmission-hydraulic system:

Syncro-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.

Cooling system -- 14 U.S. qts.

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

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

SYNCR-O-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 controlled by speed selector

POWER TAKE-OFF:

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

Speed (2100 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

Hi-crop 7.50 - 20, 6-ply

REAR TIRES**

Row-crop 13.6 - 38, 6-ply

Hi-crop 13.6 - 38, 6-ply

FRONT WHEEL TREAD See page 16

REAR WHEEL TREAD:

Regular and offset wheels See page 18

DIMENSIONS

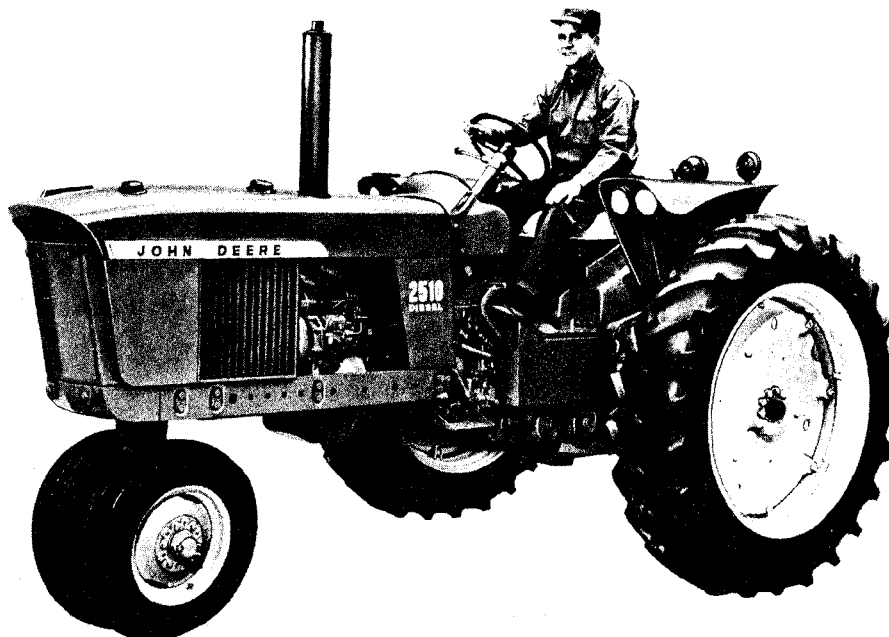
	Row-Crop	Hi-Crop
Wheel base	90 in.	92.8 in.
Over-all length	140 in.	140 in.
Height to steering wheel	74.4 in.	89.9 in.
Width (regular axle)	86.2 in.	95.4 in.
Turning radius	108 in.	148 in.

SHIPPING WEIGHT (With equipment for average field service, less fuel and ballast.) Subtract 255 lbs. if tractor has Syncro-Range transmission:

	Row-Crop	Hi-Crop
Diesel	6350 lbs.	7380 lbs.
Gasoline	6200 lbs.	7230 lbs.

**Additional tires available for special purposes.

Specifications and design subject to change without notice.



R 6216

John Deere 2510 Row-Crop Tractor with Diesel Engine, Power Shift Transmission, and Roll-O-Matic

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