

John Deere

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MODEL:

**2510 Row-Crop &
Hi-Crop Tractors**

**OPERATOR'S
MANUAL**



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**JOHN DEERE
2510 ROW-CROP AND
HI-CROP TRACTORS**

MANUAL PREVIEW

**OPERATORS MANUAL
JOHN DEERE 2510 ROW-CROP AND
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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

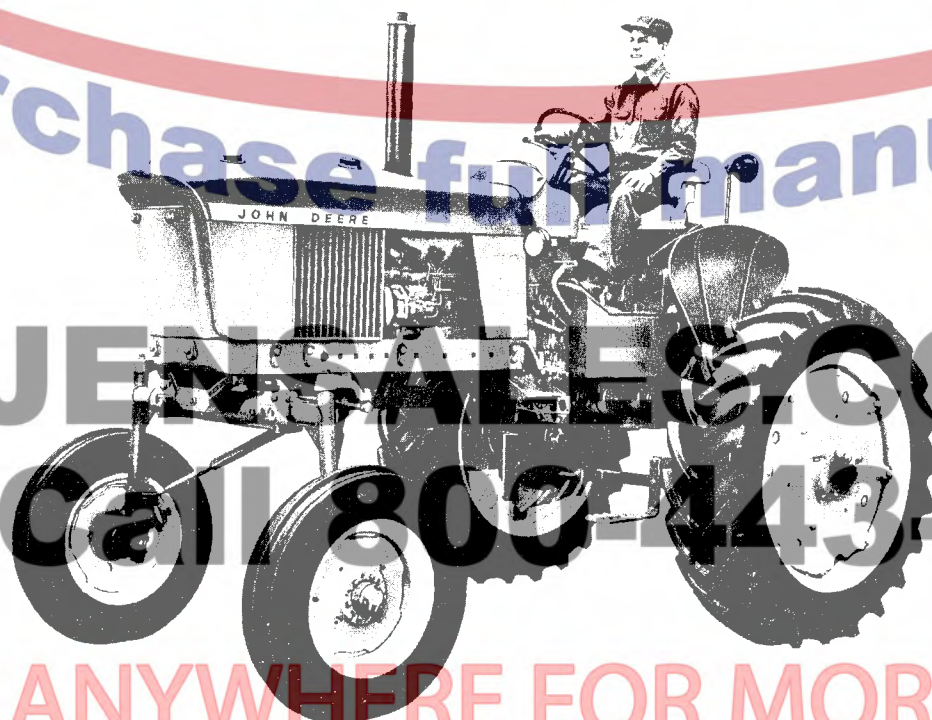
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R 6217

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

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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

SYNCRANGE 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

Specifications and design subject to change without notice.

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:

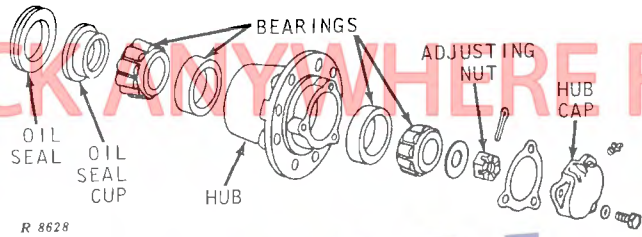
	Row-Crop	Hi-Crop
Diesel	6350 lbs.	7380 lbs.
Gasoline	6200 lbs.	7230 lbs.

**Additional tires available for special purposes.



R 6216

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

Cleaning and Packing Bearings

Front Wheel Bearings (Double Front Wheel, Roll-O-Matic, or Wide Front Axle)

Disassemble and clean all parts of the hub and spindle. Inspect the bearings and replace them if they are worn. If three deep grooves are worn in the seal cup, have the oil seal and oil seal cup replaced.

Pack the bearings with wheel bearing grease. Pack the oil seal lips with SAE multipurpose-type grease. Install the wheels and adjust the front wheel bearings.

SINGLE FRONT WHEEL**Adjusting Bearings**

Back off the bearing lock plate screw and the axle nut. Then tighten the bearing adjusting nut until a slight drag is felt when the wheel is rotated. Back the nut off and lock the adjustment in the closest notch with the lock plate screw. Tighten the axle nut. The wheel should still rotate with a slight drag. If adjustment is correct, bend corner of lock plate against axle nut.

Cleaning and Packing Bearings

Disassemble and clean all parts of the hub and spindle. Inspect the bearings and felt washers



Adjusting Single Front Wheel Bearing

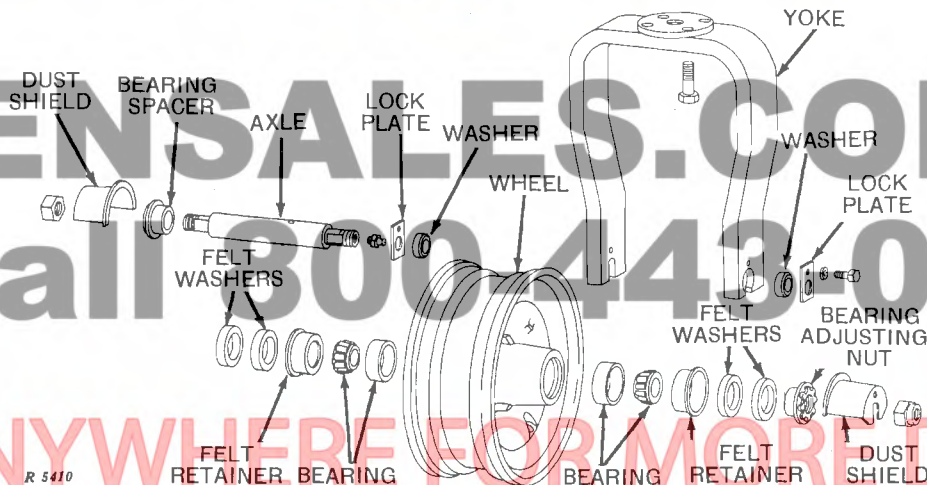
and replace them if they are worn. Use new felt washers when installing new bearings.

Pack the bearings with wheel bearing grease. Assemble the wheel and install it on the tractor. Adjust the front wheel bearings.

ROLL-GARD

When installing a Roll-Gard, tighten the bolts with sufficient torque to hold the lower plate evenly against both axle housings. Then in a diagonal sequence, tighten the bolts to 50 ft-lbs torque. Retighten the bolts in the same sequence to 300 ft-lbs torque. After a few hours service, **RETIGHTEN** the bolts and keep them tight.

IMPORTANT: A tractor roll-over may place a severe stress on the Roll-Gard structure. Therefore, re-use of the Roll-Gard is not recommended if its upright beams, cross-bar, or attaching parts have been bent, buckled or stretched.



Single Front Wheel

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INDEX

a

Adapter, ether starting fluid	7
Adjusting headlights	23
Air cleaner	48, 51
Alternator	66, 67
Antifreeze	64
Axle, front	17, 50
Axle, rear	18, 50, 52, 56

b

Ballast	21
Batteries	8, 52, 65, 76
Belt pulley	39, 53, 55
Belt, fan	67
Bleeding brakes	70
Bleeding fuel system	59
Bleeding remote hydraulic cylinder	33
Blocks, sway	27, 31
Brakes	16, 70, 77
Breakaway couplers	33, 34
Breaker, circuit	68
Breaking in engine	10, 45
Bulbs	68

c

Calcium chloride weight	22
Carburetor	60
Center link	28, 30, 31
Choke	6
Cigarette lighter	68
Circuit breaker	68
Clevis, drawbar	36
Clutch lever, power take-off	37
Clutch pedal	52, 69
Cold weather service	64
Cold weather starting aids	7
Collar, lift link	29
Control systems, implement	25
Cooler, oil	64
Cooling system service	56, 63
Couplers, breakaway	33, 34
Cowl	57
Crankcase oil heater	8
Cylinder, remote hydraulic	32, 77

d

Dash lamp	23
"Depth" control	25, 26
Differential lock	15
Draft links	28, 30, 31
Drawbar	35, 36
Driven pulley size	39

e

Electrical outlet socket	24, 68
Electrical system service	65
Electrolyte level	65
Engine break-in	10, 45
Engine choke knob	6
Engine disconnect lever	8
Engine idling	9
Engine speeds	9, 54
Engine starting	5, 6
Engine stopping	10
Ether starting aid	7

f

Fenders	22
Final drive housings, Hi-Crop	52, 56
"Float" adjustment, lift link	29
"Float" adjustment, remote cylinder ..	32
Foot throttle	9
Front axle	17, 50
Front couplers	34
Front end weight	21
Front PTO	37
Front rockshaft	35
Front wheel bearings	50, 56, 70
Front wheel toe-in	17
Front wheel tread width	16, 17
Fuel	42
Fuel filters	58
Fuel injectors	59
Fuel pump	50, 53, 58
Fuel system service	58, 59
Fuel tank	43, 58
Fuse	68

CLICK ANYWHERE FOR MORE DETAILS

g

Gap, distributor point	61
Gap, spark plug	62
Greases	44
Grille screen	57, 64
Grounding tractor	39
Ground speeds	12
Guard retainer, PTO	37

h

Hand throttle	9
Headlights	22, 68
Highway driving	24
Hitch bar	29
Hitch, 3-point, Hi-Crop	31
Hitch, universal 3-point	26-30, 77
Hood	57
Hoses, remote hydraulic cylinder	33, 34
Hydraulic pump	8, 77

i-k

Idle mixture, carburetor	60
Idling engine	9
Ignition system service	61, 62
Implement control systems	25
Inching pedal	12
Indicator lights	5, 6, 68
Inflation charts	20
Injection pump	53, 58
Injectors, fuel	58
Instruments	4
Key switch	5, 6, 10

l

Leveling implement	29
Lever latch, engine disconnect	8
Lift links	29, 30, 31
Lift link collar	29
Lights	22, 68
Light switch	23
Liquid wheel weight	22

"Load" control	25
"Load-and-Depth" control	25
Load mixture, carburetor	60
Lubrication:	

Air cleaner	48, 51
Axle, front	50
Bearings, front wheel	50, 56
Bearings, rear axle	50, 56
Charts	45, 46, 47
Distributor	51
Engine crankcase	49, 50, 56
Hi-Crop final drive housing	52, 56
Hi-Crop radius rod pivot	50
PTO clutch	51
Three-point hitch	53
Transmission clutch	52
Transmission-hydraulic system	52, 54, 55
Wide-swing drawbar	50

Lubrication, periodic:

As required	48
Daily or 10-hour	49
200-hour	50
600-hour	53
1200-hour	55
Seasonal	56

m-n-o

Manual bypass valve	33, 76
Master shield	37
Oil cooler, transmission-hydraulic system	64
Oil, lubricating	43
Oil pressure indicator light	5, 6, 68

p-q

Parking tractor	14
Periodic service	45-56
Plugs, spark	54, 62
Power brakes	16, 77
Power Shift transmission	12, 76
Power take-off	37
Power take-off clutch	37, 51
Power take-off clutch lever	37
PTO-driven equipment	38
PTO guard	37
Pre-cleaner and pre-screener	49
Quik-Coupler	30

CLICK ANYWHERE FOR MORE DETAILS

r

Rack and pinion adjustment	18
Radiator	49, 64
Radius rods, Hi-Crop	17, 50
Rate of operation, remote cylinder	33
Rear axle	18, 50, 56
Rear PTO	37
Rear wheel tread width	18-20
Remote cylinder	32, 33, 77
Remote cylinder hoses	33, 34
Remote cylinder operating levers	32
Rim position on wheel	18
Rockshaft	25
Rockshaft control lever	25
Roll-Gard	11, 71

s

Safety rules	40, 41
Screen, side grille	64
Sealed-beam lamps	68
Seasonal service	56
Seat	11
Selective control valve	33
Selector lever	26
Service	57
Service, periodic:	
Air cleaner	48, 51
Batteries	52
Brakes	52
Clutch pedal	52
Cooling system	56
Distributor	51, 53
Engine	54
Fan belt	51
Fuel pump	50, 53
Pre-cleaner	49
Spark plugs	54
Tires	52
Transmission-hydraulic system	52, 54, 55
Valves, intake and exhaust	54
Shield, master	37
Shield, side	57
Shift lever, Syncro-Range	5, 6, 14, 15
Shift quadrant	12, 14
Shifting transmission	12, 14
Spark plugs	54, 62
Specific gravity test	65
Specifications	2
Specifications, fuel	42
Specifications, lubricant	43

Speed-hour meter	12, 45
Speed indicator knob	12
Speed-of-drop, rockshaft	26
Speed-of-shift adjustment	13
Speed selector	12, 15
Speeds, engine	9, 54
Speeds, ground	12
Starter	67, 76
Starting aids, cold weather	7
Starting engine	5, 6
Stop, adjustable, remote cylinder	34
Stop, rockshaft, control lever	25
Stopping engine	10
Storage, battery	52, 65, 76
Storage, fuel	42
Storage, tractor	72
Stub shaft, power take-off	38
Sway blocks	27, 31
Syncro-Range transmission	14

t

Taillight	22, 68
Thermostat	63
Three-point hitch, Hi-Crop	31
Three-point hitch, universal	26-30
Tire inflation charts	20
Tire service	52, 70
Toe-in, front wheel	17
Towing tractor	15
Tow lever	15
Transmission clutch	52, 69
Transmission-hydraulic system	25, 32, 52, 54, 55, 56, 64, 76
Transmission oil pressure gauge	5, 6, 8, 13
Transmission oil temperature gauge	13
Transmission shifting	12, 14
Tread width, front wheel	16, 17
Tread width, rear wheel	18-20
Trouble shooting	73

v w

Valve clearance	54, 69
Warning lamps	23, 24, 68
Water temperature gauge	4, 10
Weight front end and side	21
Weight, rear wheel	21, 22
Wheels, front	16, 50, 56, 70
Wheels, rear	18, 50, 56