

John Deere

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MODEL:

850 (S/n 9,001 & Up)

950 (S/n 12,001 & Up)

OPERATOR'S
MANUAL



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JD-O-OMR72588

**850 (SERIAL NO.
009001 -) AND
950 (SERIAL NO.
012001 -)
TRACTORS**

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MANUAL PREVIEW

OPERATORS MANUAL

850 (SERIAL NO. 009001 -) AND 950
(SERIAL NO. 012001 -) TRACTORS

OMR72588 B1 English

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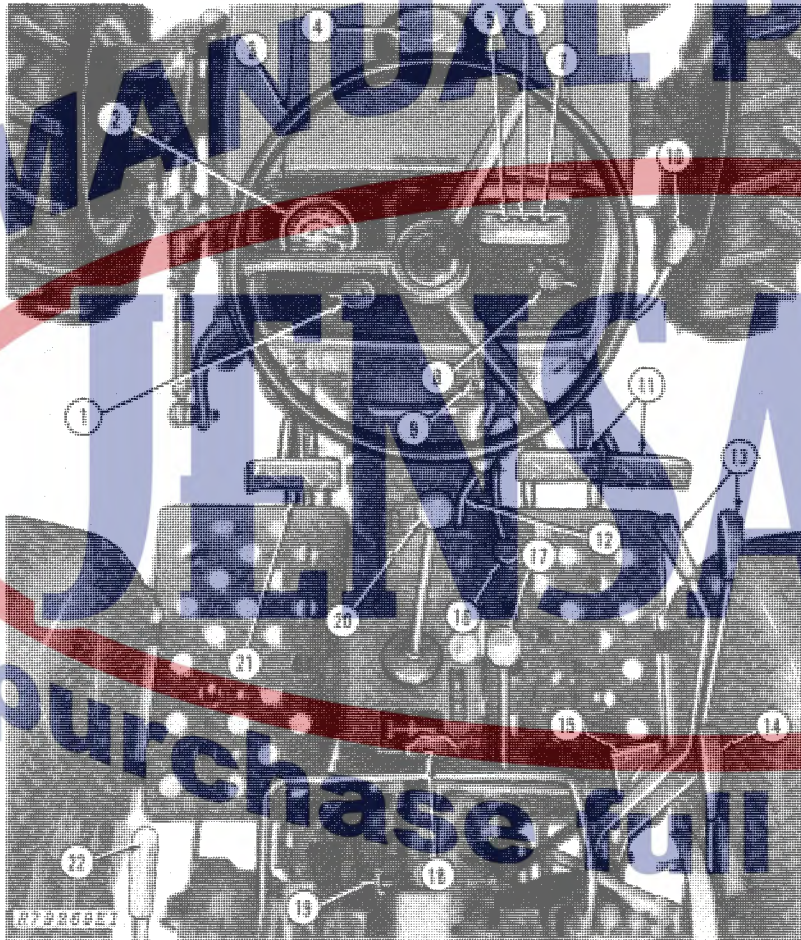
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Controls and Instruments

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CONTROLS

See Page



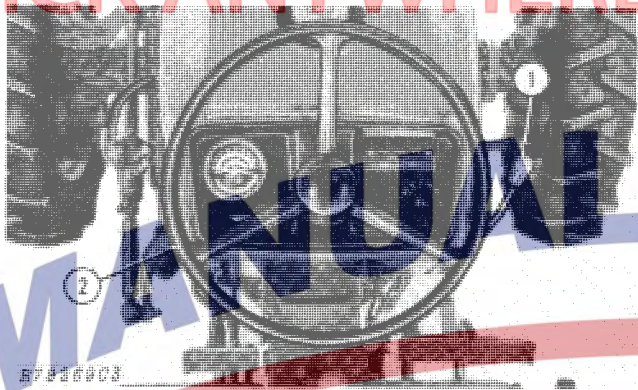
1—Turn Signal Controller	58
2—Speed-hour Meter	7
3—Steering Wheel	
4—Fuel Gauge	7
5—Temperature Indicator Lamp	8
6—Charging System Indicator Lamp	8
7—Oil Pressure Indicator Lamp	8
8—Light Switch	57
9—Key Switch	14
10—Hand Throttle	18
11—Brake Pedals	20
12—Front Wheel Drive Shift Lever	24
13—Remote Cylinder Levers	33
14—Rockshaft Control Lever	27
15—Differential Lock Pedal	23
16—Foot Throttle	18
17—Range Shift Lever	21
18—Hydraulic Stop Valve	26
19—Speed-of-Drop Valve	28
20—Gear Shift Lever	21
21—Clutch Pedal	21
22—PTO Shift Lever	41

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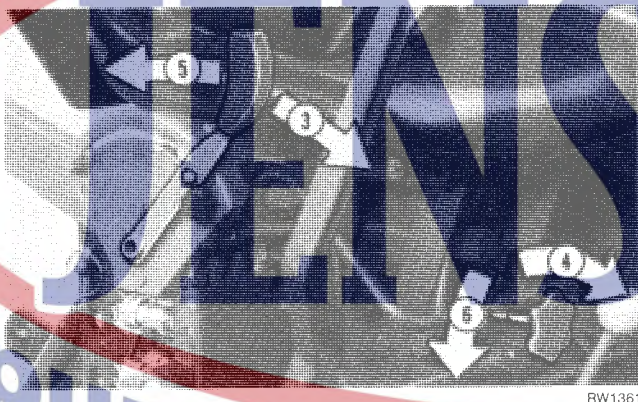
HYDRAULIC SYSTEM WARM-UP (TRACTORS EQUIPPED WITH HYDRAULIC FILTER)



Hydraulic system may be slow to function when tractor is started in cold weather. This is because cold oil will not flow easily through the filter.

Hydraulic system will function normally when oil warms up. Warm-up time can be shortened as follows:

1. Start engine and idle at about 1000 rpm.
2. Turn and hold steering wheel full to the left.



3. Push rockshaft control lever fully forward to lower rockshaft.

4. Close hydraulic stop valve.

IMPORTANT: Stop valve is used only for special operations. Do not normally operate tractor with valve closed. Oil will overheat causing damage to hydraulic pump.

5. Pull rockshaft control lever back. This forces oil past a pressure relief valve, warming it in the process.

6. When hydraulic pipes become warm to touch, open stop valve for normal operation.

IMPORTANT: To prevent damaging hydraulic pump, do not exceed two to three minutes warm-up time.

TRANSMISSION OIL HEATER



A transmission-hydraulic oil heater (A) is available from your John Deere dealer.

CAUTION: To avoid shock, always use a three-wire, heavy-duty electrical cord, and be sure it is properly grounded.

Connect heater to a 115-volt electrical outlet. The heater requires about one hour to warm up oil.

Lighting and Signals

LIGHTING

Light Switch

The tractor light switch has five positions:

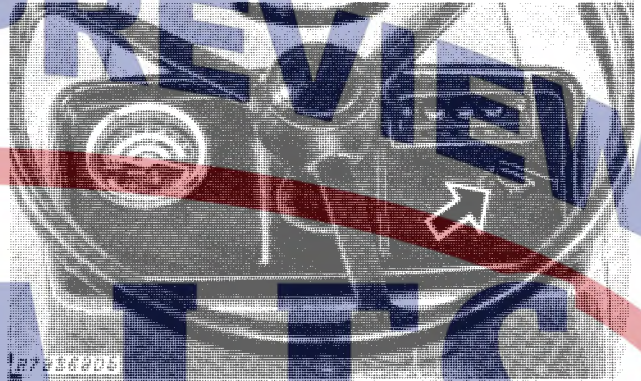
OFF—To turn off all lights.

W—To turn on warning lamps. (For highway driving during daytime.)

F—To turn on bright head lamps and rear flood lamp. (For field use ONLY. Do not use on roads, as lamp might blind or confuse other drivers.)

H1—To turn on bright head lamps, tail lamps, and warning lamps. (For highway driving during daytime or nighttime.)

H2—Same as H1, except head lamps are dim.



Head Lamps

Dual-beam head lamps (A) are switched on by "H1", "H2", and "F" positions.

Always dim head lamps, by turning switch to "H2", before meeting another vehicle.

Be sure head lamps are properly adjusted, as instructed on page 60.

Tail Lamp

Red tail lamp (D) is switched on by "H1" and "H2" positions.

Be sure tail lamp lens is clean before driving on a road, so other drivers can see it easily.

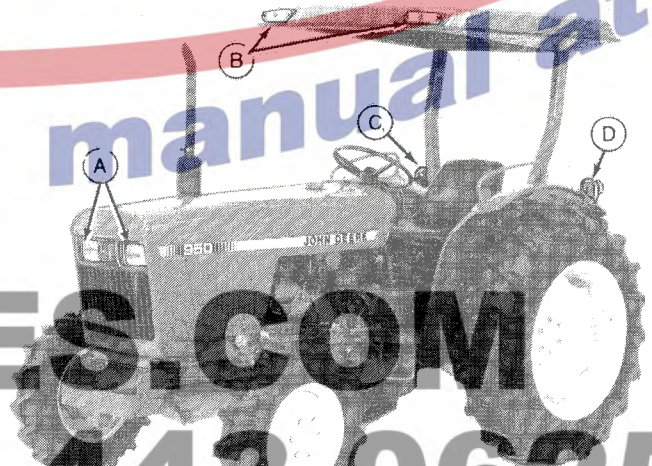
Flood Lamp



CAUTION: When operating on a road, move switch to "H" position. Never use flood lamps or any lights which would blind or confuse other drivers.

Rear flood lamp (C) is switched on by "F" position.

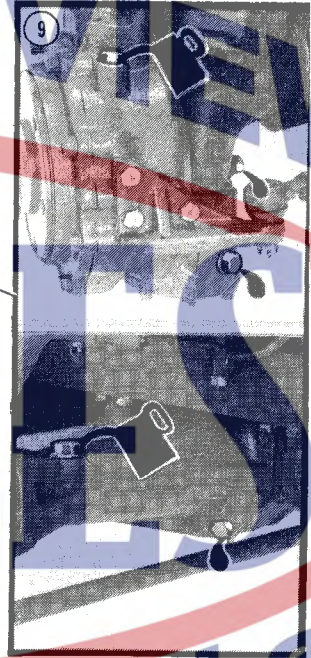
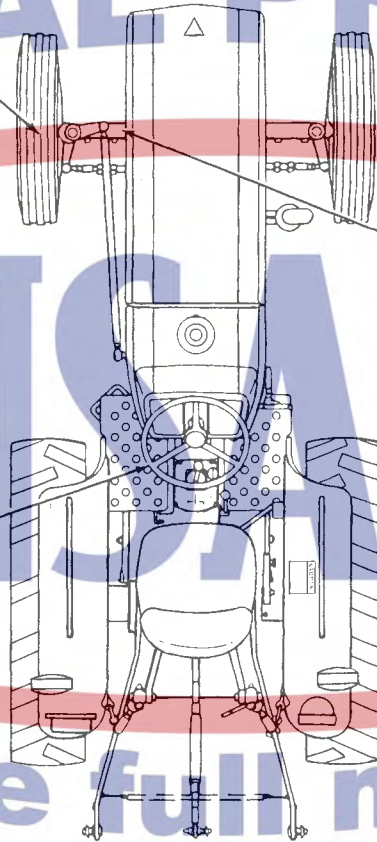
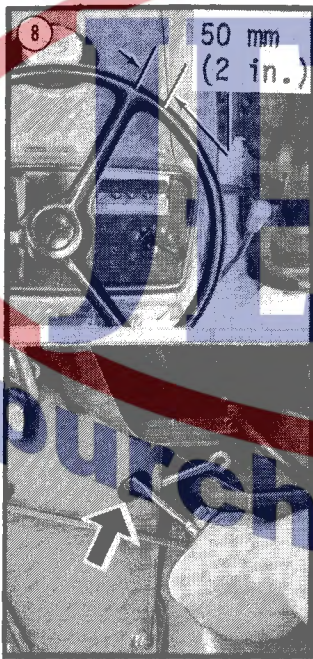
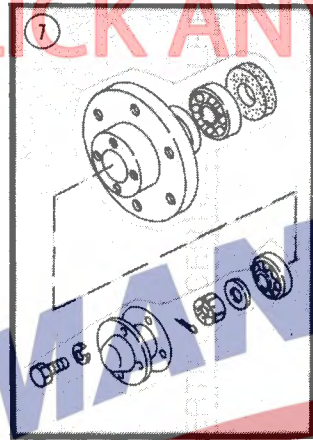
By loosening mounting bolts, you can turn flood lamp to shine wherever light is most needed. Tighten bolts securely.



R79272N2

- A—Head Lamps
- B—Warning Lamps
- C—Flood Lamp
- D—Tail Lamp

EVERY 600 HOURS OF OPERATION—Continued



R34293

7. **PACK WHEEL BEARINGS.** Unless equipped with front-wheel drive, disassemble front wheel bearings, and clean parts in solvent. Pack bearings in grease specified on page 63. Reassemble and tighten nut until slight drag is felt when wheel is turned. Back nut off to insert cotter pin in first hole.
8. **CHECK STEERING WHEEL FREE TRAVEL.** If free travel exceeds 50 mm (2 in.) at outer rim, reduce it by adjusting steering gear housing. Loosen lock nut and tighten adjusting screw. Reduce free travel to 20 mm (3/4 in.). Tighten lock nut.

9. **CHANGE OIL IN FRONT-WHEEL DRIVE AXLE HOUSING.** On tractors equipped with front-wheel drive, change oil in front axle housing. Remove drain plugs from differential housing, spindle housings, and drive housings (five drain plugs). Drain out oil, and replace plugs.
Remove filler plugs from drive housings and axle housing (three filler plugs). Refill system with SAE 90 gear lubricant specified on page 63. Fill drive housings to level of filler plugs. Fill axle housing to full mark on dipstick, checked with dipstick resting on threads but not screwed down. Capacity is 8 L (7.6 U.S. quarts).

IMPORTANT: Recheck oil level after 30 minutes. Oil flows very slowly through bearings out to spindle housings.

850 TRACTOR

950 TRACTOR

HYDRAULIC SYSTEM:

Type	open center, constant flow	open center, constant flow
Working pressure	13 790 kPa (138 bar) (2000 psi)	13 790 kPa (138 bar) (2000 psi)
Pump	gear pump, driven by engine	gear pump, driven by engine

BRAKES

Type	mechanical dry, internal expanding shoe	mechanical, dry, internal expanding shoe
------	---	--

ELECTRICAL SYSTEM:

Type	12-volt, negative ground	12-volt, negative ground
Battery	one, 12-volt, BCI group 30H, 475 amps cold cranking, 160 minutes reserve capacity	one, 12-volt, BCI group 30H, 475 amps cold cranking, 160 minutes reserve capacity
Alternator	25-amp	25-amp

TIRES AND TREADS:

See page 50

See page 50

DIMENSIONS:

Wheelbase	1630 mm (64 in.)	1750 mm (69 in.)
Overall length	2290 mm (118 in.)	3100 mm (122 in.)
Height to muffler cover*	1870 mm (73.6 in.)	1955 mm (77.0 in.)
Height to top of Roll-Gard Canopy*	2060 mm (81.1 in.)	2130 mm (84.0 in.)
Overall width (minimum tread)	1330 mm (53 in.)	1500 mm (59 in.)
Turning radius	2800 mm (110 in.)	3000 mm (118 in.)

SHIPPING WEIGHT**

1065 kg (2350 lbs.)

1200 kg (2650 lbs.)***

*850 Tractor equipped with 11.2-24 rear tires and 5.00-15 front tires. 950 Tractor equipped with 12.4-28 rear tires and 5.50-16 front tires.

**Equipped for average field service, without fuel and ballast.

***Add 97 kg (214 lbs.) for front-wheel drive.

TRAVEL SPEEDS:*

850 Tractor

950 Tractor

Gear	Rated Engine Speed (2600 rpm)		Standard PTO Speed (2260 rpm)		Rated Engine Speed (2400 rpm)		Standard PTO Speed (2260 rpm)	
	km/h	mph	km/h	mph	km/h	mph	km/h	mph
1	1.3	0.8	1.1	0.7	1.3	0.8	1.2	0.8
2	1.8	1.1	1.6	1.0	1.9	1.2	1.8	1.1
3	2.7	1.7	2.4	1.5	2.8	1.7	2.6	1.6
4	4.0	2.5	3.5	2.2	4.1	2.6	3.9	2.4
5	6.0	3.8	5.2	3.3	6.2	3.9	5.9	3.7
6	8.6	5.4	7.5	4.7	8.9	5.5	8.4	5.2
7	12.7	8.0	11.1	6.9	13.1	8.2	12.3	7.7
8	18.7	11.7	16.3	10.2	19.3	12.1	18.2	11.4
1R	1.8	1.1	1.6	1.0	1.9	1.2	1.8	1.1
2R	8.6	5.4	7.5	4.7	8.9	5.5	8.4	5.2

*850 Tractor equipped with 11.2-24 rear tires. 950 Tractor equipped with 12.4-28 rear tires.

(Specifications and design subject to change without notice.)

Index

CLICK ANYWHERE FOR MORE DETAILS

	Page		Page
A		G	
Air cleaner.....	80	Greases.....	63
Alternator.....	90	Grille screen.....	86
Annual service.....	76	Ground speeds.....	22,23
Antifreeze.....	87	Guard, PTO.....	40
B		H	
Ballast.....	44	Hand throttle.....	18
Battery.....	88	Head lamps.....	57,59,60
Belt, fan.....	82	Heater, engine coolant.....	16
Bleeding fuel system.....	84	Highway driving.....	57
Brakes.....	20,57,91	Hitch, implement.....	30
Breaking in engine.....	10	Hood.....	79
C		Hydraulic cylinders.....	33
Calcium chloride weight.....	46,48	I	
Center link.....	31	Idling engine.....	15,18
Cold weather service.....	87	Implement Codes.....	47
Cold weather starting aids.....	16	Implement hitch and control systems.....	30
Coolant heater.....	16	Indicator lamps.....	8
Cooling system service.....	86	Inflation charts.....	83
D		Injection pump.....	84
Differential lock.....	23	Instruments.....	7
Draft links.....	25	K	
Drawbar.....	37	Key switch.....	14
Driving at night.....	57	L	
Dual-beam head lamps.....	57,59,60	Lamps.....	59
Dual-element air cleaner.....	80	Leveling implement.....	32
E		Lift links.....	32
Electrical system service.....	88	Light switch.....	59
Engine break-in.....	10	Liquid wheel weight.....	46,48
Engine difficulties.....	96	Lubricants.....	62
Engine idling.....	10	Lubrication:	
Engine speeds.....	18	Axle, front.....	66,67
Engine starting.....	13	Bearings, front wheel.....	74
F		Engine crankcase.....	66,70
Flood lamp.....	59	Front-wheel drive axle.....	69,74
Front weight.....	47	3-point hitch.....	71
Front wheel bearings.....	74	Transmission-hydraulic system.....	69,72,75
Front-wheel drive.....	24	Lubrication, periodic:	
Front wheel toe-in.....	53	Daily or 10-hour.....	66
Front axle tread width.....	50	50-hour.....	67
Fuel.....	61	200-hour.....	70
Fuel filter.....	75	600-hour.....	73
Fuel injectors.....	73	Annual.....	76
Fuel shut-off valve.....	13	Every two years.....	77
Fuel system service.....	84	As required.....	78
Fuses.....	90		

CLICK ANYWHERE FOR MORE DETAILS

	Page
M-N	
Master shield	40
Night driving	57
O	
Oil, lubricating	62

P-Q	
Periodic service	65
Power take-off	40
PTO-driven implement	41
PTO guard	40

R	
Radiator	87
Rear wheel tread width	54,55
Remote hydraulic cylinders	33
Rim position on wheel	54,55
Rockshaft	25
Rockshaft control lever	27

S	
Safety	2
Seat	9
Seat belt	9
Service	72
Service, periodic:	
Air cleaner	70,73,76,78
Battery	68
Brakes	71
Clutch	71
Cooling system	75,76,77
Engine speeds	73
Fire extinguisher	69
Fuel filter	66,70,78
Hydraulic system	69,72,75
Tires	68
Shield, master	40
Shifting transmission	21
Specific gravity test	89

Page	
Specifications	100
Specifications, fuel	61
Specifications, lubricant	62,63,64
Speed-hour meter	7
Speed-of-drop, rockshaft	28
Speed selector	21
Speeds, engine	18
Speeds, ground	22,23
Starter	15
Starting aids, cold weather	16
Starting engine	13
Stop, rockshaft control lever	27
Stopping engine	19
Storage, fuel	61
Storage, tractor	93

T	
Tail lamp	59
Thermo-Start	16
Three-point hitch	30
Tire inflation charts	83
Tire service	83
Toe-in, front wheel	53
Towing tractor	58
Tractor storage	93
Transmission shifting	21
Tread width, front wheel	50
Tread width, rear wheel	54,55
Trouble shooting	96
Tubeless tires	46,48,83
Turn signals	60

W	
Warning lamps	60
Weight, front	47
Weight, rear wheel	44,46
Wheels, front	49,50
Wheels, rear	49,54,55

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