

Technical Manual

John Deere 762 Scraper

John Deere Dubuque Works TM-1135



Litho in U.S.A.

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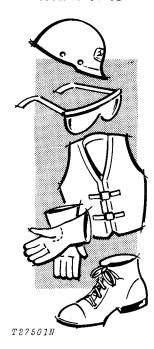
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MAINTENANCE WITHOUT ACCIDENT WORK SAFELY



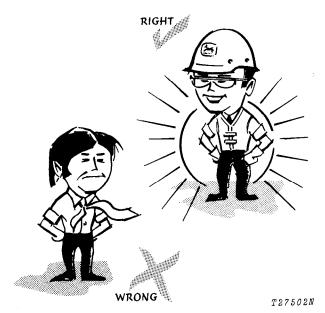
This safety symbol is used for important safety messages. When you see this symbol, follow the safety message to avoid personal injury.

EVERY EMPLOYER HAS A SAFETY PROGRAM. KNOW WHAT IT IS!



See your shop supervisor for specific instructions on a job, and the safety equipment required.

For instance, you may need: Hard hat, safety shoes, safety goggles, heavy gloves, reflector vests, ear protectors, respirator.



BE ALERT!

Plan ahead — work safely — know how to use a first aid kit and a fire extinguisher — and where to get assistance.



Maintenance Area

Make sure the maintenance area has enough ventilation.

Keep the maintenance area CLEAN AND DRY. Oily and wet floors are slippery. Greasy rags are a fire hazard. Wet spots are dangerous when working with electrical equipment.

Keep starting aids in a cool, well-ventilated place, out of reach of unauthorized personnel.

MAINTENANCE WITHOUT ACCIDENT

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AVOID FIRE HAZARDS -

Fuel Is Dangerous!



Do not smoke while putting fuel in the fuel tank.

Do not smoke while working with material that will start on fire easily.

Stop the engine before filling the fuel tank.

Do not use gasoline or diesel fuel for cleaning parts. Use solvents that will not start on fire.

Battery Gas Is Highly Flammable!

When charging batteries, be sure there is enough ventilation.



Do not check the battery charge by putting metal objects across the posts.

Do not let sparks or open flame near batteries.

Do not smoke near battery.

Flame Is Not a Flashlight!

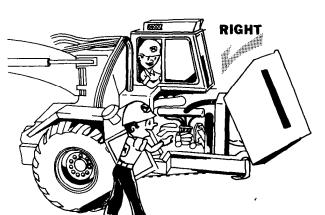
NEVER USE OPEN FLAME AROUND THE MA-CHINE.

KNOW WHERE FIRE EXTINGUISHERS ARE KEPT!

UNDER ALL MAINTENANCE CONDITIONS -

Do not work on the equipment unless you are approved to do so. Then be sure you know the safe and correct procedure.

Never work on equipment while it is being operated.



When the engine is running, avoid working on equipment.

If you must work on the machine with the engine running, ALWAYS USE TWO service technicians. One must be at the controls. The other must be within sight of the operator.

KEEP HANDS AWAY FROM MOVING PARTS.

Put a support under all raised equipment.

Never work under a raised bowl.

Lower the bowl to the ground.

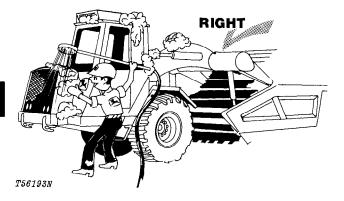
If the machine is on a slope, use blocks to hold it in place.

Do not lift heavy parts by yourself. Use hoisting equipment for this.

TAKE CARE! WATCH OUT FOR OTHER PEOPLE IN THE AREA.

When drilling, grinding, or hammering metal, wear safety glasses.

BE CAREFUL DURING SERVICE AND REPAIR



Keep ALL equipment free of dirt and oil.

Clean oil, grease, mud, ice or snow from the operator's station, steps and hand rails.

When getting the engine ready for storage, remember that inhibitor changes easily into gas and is dangerous. After adding the inhibitor, seal and tape openings. When you are not using the inhibitor, keep the can tightly closed.

Do not remove the radiator cap unless you can hold your hand on the radiator tank. First, loosen the cap slowly to the stop. Then release all pressure in the cooling system before removing the cap.

Check the exhaust system regularly for leaks.

Release hydraulic pressure before working on the hydraulic system. Stop the engine. Lower the bowl to the ground. Move the control levers until the bowl does not move.

When checking hydraulic pressure, be sure to use the correct test gauge.

Before working on the fuel system, close the fuel shutoff valve.

Before working on the electrical system, or making a major overhaul, disconnect the batteries.

KNOW EQUIPMENT IS READY!

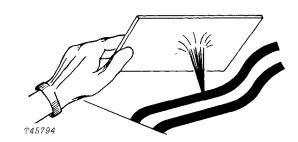
Check all guards, shields, and safety bars. Every one must be in place and tight.

CHECK IT OUT!

- ☐ GUARDS
- ☐ SHIELDS
- □ SAFETY BARS
- □ ROLL-OVER PROTECTIVE STRUCTURES
- ☐ SEAT BELTS, ETC.



Carefully inspect all systems for leaks.



Use a piece of cardboard or wood, rather than hands, to search for suspected leaks.

Escaping fluid under pressure can penetrate the skin.

If injured by escaping fluid, see a doctor at once.

element and restriction indicator

Group III GENERAL SPECIFICATIONS

(Specifications and design are subject to change without notice. Wherever applicable, specifications are in accordance with SAE Standards. Except where otherwise noted, these specifications are based on a unit equipped with 23.5-25, 16-ply-rating tires and standard equipment.)

Capacity (SAE heaped): Volume	Differential Lock		
	Drive Axle Differential drive; over-all ratio 17.98 to 1; planetary final drives		
Power (@ 2100 engine rpm): SAE DIN Gross	Brakes: Hydraulic, power actuated. Tractor and scraper brakes are operated simultaneously. An accumulator provides several brake applications after engine is stopped. Tractor		
000 m) altitude. *In the International System of Units (SI), power is expressed in kilowatts (kW).	Power Steering: Position-responsive with hydraulic follow-up. Turning circle (180 deg. turn) 30 ft. (9.14 m)		
Engine: John Deere Turbocharged diesel, 6-cylinder,	Angle of steer right or left90 deg.		
4-stroke cycle	Tractor Oscillation (total) 27 deg.		
Bore and stroke	Hydraulic Systems: Main tractor system: Closed-center System pressure . 2250 psi (155 bar) (158 kg/cm²) Operates steering, brakes, differential lock and all scraper functions except elevator drive. Main pump Variable displacement, constant pressure delivers 34.6 gpm (131 L/min) @ 2100 rpm. Main charge pump delivers 13 gpm (49 L/min) @ 2142 rpm. Elevator system Engine-driven 4.26 cu. in. (69.8 cm³) variable displacement, reversible hydrostatic pump delivers 36.6 gpm (138.5 L/min) @ 2142 rpm. System pressure 5000 psi (34,500 kPa) (351 kg/cm²) Filtration All systems are protected by replaceable filters. Main hydraulic system 10 micron filters		
o-phase, single-stage torque converter with lockup tch and Power Shift transmission (5 speeds forward reverse). Stall ratio is 1.82 to 1.	Elevator system 10 micron filters Transmission 40 micron filters Engine 25 micron filters Air cleaner Dry-type with safety		

Hydraulic Cylinders:	Bore	Stroke	
Lift (two)	4.5 in <i>.</i>	18 in.	
	(114 mm)	(457 mm)	
Sliding floor (one)	5.25 in.	30.1 in.	
	(133 mm)	(765 mm)	
Ejector gate (two)	2.5 in.	34.8 in.	
	(64 mm)	(884 mm)	
Steering (two)			
	(89 mm)	(658 mm)	
Piston rods Ground, he polished	eat-treated, chi	rome-plated,	
Lift and steering cylinders	2	in. (51 mm)	
Sliding floor cylinders	2.25	in. (57 mm)	
Ejector gate cylinders	1.50	in. (38 mm)	
Elevator Reversible, hydrostatic-drive with triple gear reduction			
Number of flights		18	
Spacing of flights	12.44 i	n. (316 mm)	
Width of flights	5 ft. 6.9	9 in. (1.7 m)	
Speed (variable)0 to	236 fpm (0 to	o 72 m/min)	
Length (top to bottom)	9 ft. (6 in. (2.9 m)	

Bowl...Heavy gauge steel with reinforcing and box construction. Sliding floor rides on heat-treated, replaceable rails. Cutting edge retracts with sliding floor. Independent axles are vertically adjustable.

Cutting Edge... 7 ft. 6 in. (2.29 m) wide; 3 sections, reversible and replaceable, high-carbon steel. Each section is adjustable vertically 2 in. (51 mm). Center section...0.75x10x54 in. (19x254x1 372 mm) End sections.....0.75x10x18 in. (19x254x457 mm)

Tires:

23.5, 16-ply-rating, E2 23.5-25, 16-ply-rating, E3 23.5-25, steel-cord radials

Capacities	U.S. Gallons	Liters
Cooling system	9	34.1
Fuel tank		272.5
Engine lubrication, including		
filter	5.5	20.8
Transmission case and		
filter	12	45.4
Differential case	5.5	20.8
Hydraulic reservoir	7.5	28.4
Elevator gear case	4.25	16.2

Additional Standard Equipment:

Gauges:
Tachometer
Hour meter
Speedometer
Oil pressure
Coolant temperature
Transmission pressure
Converter temperature
Hydrostatic charge
pressure
Indicators
Turn signal
Alternator
Brake pressure
Parking brake
High beam
Hydraulic filter
Cold weather starting
aid

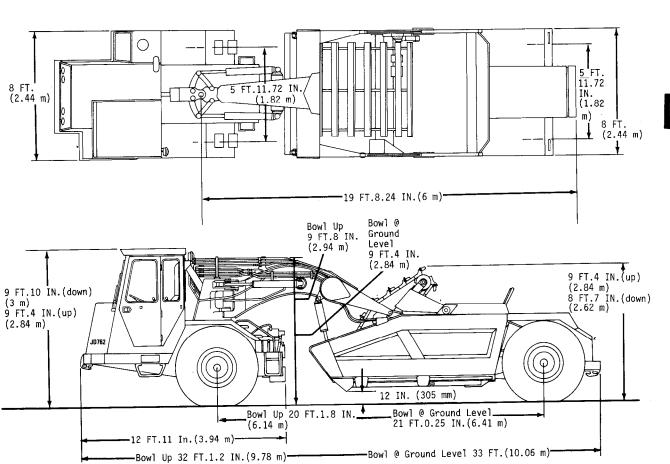
Fenders (tractor and scraper) Horn Driving lights Transmission bottom guard Independent, adjustable scraper axles Foot throttle Differential lock Vandal protection Muffler Reverse warning horn Central lube system ROPS canopy with seatbelt and tether straps Bucket seat Windshield with wiper Regular side cutters Engine coolant conditioner-filter

Weight I	Distribution:	lb.	kg
Empty:	Drive axle	22,310	10 120
	Scraper axle	12,140	5 507
	Total	34,450	15 627
Loaded:	Drive axle	31,110	14 111
	Scraper axle	30,840	13 989
	Total	61,950	28,100

Special Equipment:

Teeth for cutting edge ROPS cab Air conditioning Cab heater Extended side cutters Ejector gate spill screen Mud flaps for scraper wheels

JD762 SCRAPER DIMENSIONS



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Group IV

PREDELIVERY, DELIVERY, AND AFTER-SALE SERVICES

TEMPORARY STORAGE

After receiving your scraper from the factory and before putting the machine into temporary storage, make the following checks and perform the services:

For information on storage over 30 days, see your JD762 Operator's Manual.

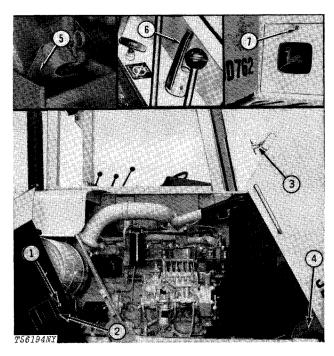
- 1. Check the battery electrolyte level. Charge the battery, if necessary.
- 2. Check the level of the coolant in the radiator. The coolant must be in the sight glass when the engine is off and cold.
 - 3. Fill the fuel tank.
- 4. Check the crankcase oil level. Oil must be between marks on the dipstick after the engine has been stopped for 10 minutes.
- 5. Release hydraulic pressure by stopping the engine, lowering the bowl, and operating the control levers until the bowl does not move.

PREDELIVERY SERVICE

The service technician must carefully check and service the machine before the dealer delivers it to the customer. When the customer receives a machine that is correctly prepared, the customer is well-satisfied. For these reasons, correct predelivery service is very important to the dealer and the customer.

Use the following list when getting a unit ready for delivery to the customer.

1. Service Equipment



- 1—Service Door Lock
- 2—Service Door Latch Handle
- 3—Rubber Hook
- 4—Hood Latch
- 5—Transmission Dipstick Lock
- 6—Hood Release Lock
- 7—Front Access Door Lock

Fig. 1-Service Equipment

Use the ignition key to check the operation of the service door lock (1), front access door lock (7), hood release lock (6), and transmission dipstick lock (5). Lubricate if necessary.

Check the operation of the service door latch (2), hood rubber hook (3), and hood latch (4).

Service equipment checked

Yes No

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