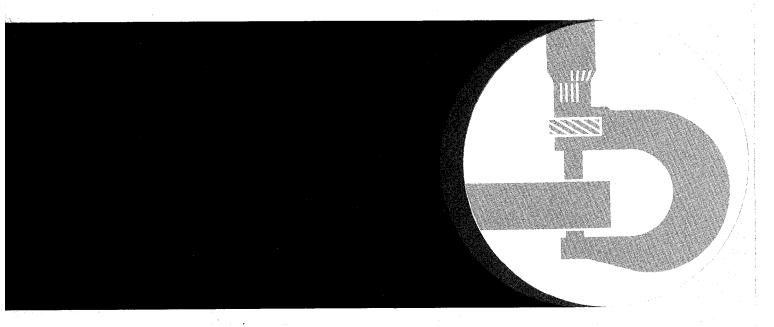
## John Deere JD862 Scraper





## **TECHNICAL MANUAL**

TM-1212

LITHO IN U.S.A. (T) New

JD862 SCRAPER Technical Manual TM-1212 (Sep-84)

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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.

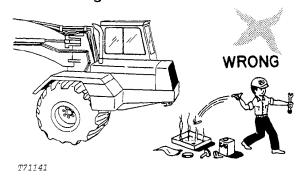
Keep the maintenance area CLEAN AND DRY. Oily and wet floors are slippery. Greasy rags are a fire hazard. Wet spots are dangerous when working with electrical equipment.

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

#### MAINTENANCE WITHOUT ACCIDENT

#### **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 terminals.

Do not let sparks or open flame near batteries.

Do not smoke near battery.

#### Flame Is Not a Flashlight!

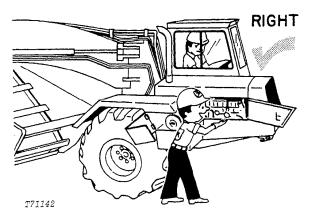
NEVER USE OPEN FLAME AROUND THE MA-CHINE.

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 the engine is cool. 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. Lower the bowl to the ground. Stop the engine. Move the steering wheel 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.

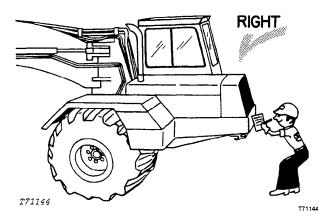
Before working on the electrical system, or making a major overhaul, disconnect the batteries.

#### KNOW EQUIPMENT IS READY!

All parts should be in good condition and fastened in place.

#### CHECK IT OUT!

□ ROLL-OVER PROTECTIVE STRUCTURE□ SEAT BELT, ETC.





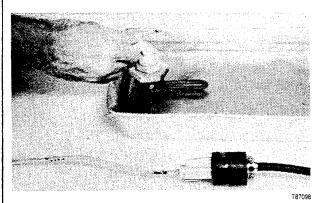
X981

Escaping fluid under pressure can penetreate the skin causing serious injury. Relieve pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure. Keep hands and body away from pinholes and nozzles which eject fluids under high pressure. Use a piece of cardboard or paper to search for leaks. Do not use your hand.

If ANY fluid is injected into the skin, it must be surgically removed within a few hours by a doctor familiar with this type injury or gangrene may result. Avoid possible injury or death from machinery runaway.

Do not start engine by shorting across starter terminals. Machine will start in gear and will move if normal circuitry is bypassed

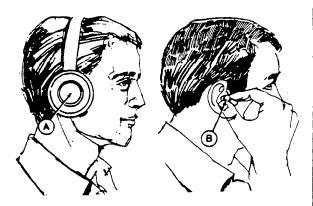
NEVER start engine while standing on ground. Start engine only from operator's seat, with transmission in neutral, direction selector lever in neutral, and park brake applied.



Test coolant heater in liquid only.

Use a heavy-duty grounded cord to connect coolant heater to electrical power.

Do not plug into electrical power unless heating element is immersed in coolant. Sheath could burst and result in personal injury.



X7662

Prolonged exposure to loud noise can cause impairment or loss of hearing. Wear a suitable hearing protective device such as earmuffs (A) or earplugs (B) to protect against objectionable or uncomfortable loud noise.

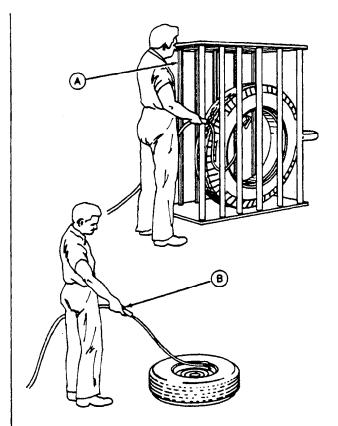
If your machine is equipped with a strating fluid starting aid, remember starting fluid is highly flammable. DO NOT incinerate or puncture a starting fluid container. DO NOT store a starting fluid container in a high-temperature area.



T8492

If your machine has a roll-over protective structure, USE A SEAT BELT.

If your machine does not have a roll-over protective structure, DO NOT USE A SEAT BELT.



Failure to follow proper procedures when mounting a tire on a wheel or rim can produce an explosion which may result in serious injury or death. Do not attempt to mount a tire unless you have the proper equipment and experience to perform the job. Have it done by your John Deere dealer or a qualified tire repair service.

Detailed tire mounting instructions, including necessary safety precautions, are contained in John Deere Fundamentals of Service (FOS) Manual 55, Tires and Tracks, available through your John Deere dealer. Such information also available from the Rubber Manufacturers Association and from tire manufacturers.

A—Use a Safety Cage if Available B—DO NOT Stand Over Tire. Use a Clip-On Chuck and Extension Hose.

# Group III GENERAL SPECIFICATIONS

(Specifications and design subject to change without notice. Wherever applicable, specifications are in accordance with ICED and SAE Standards. Except where otherwise noted, these specifications are based on a unit equipped with 26.5-25, 24 ply rating tires, ROPS canopy, full fuel tank, 175 lb. (80 kg) operator, and all standard equipment.)

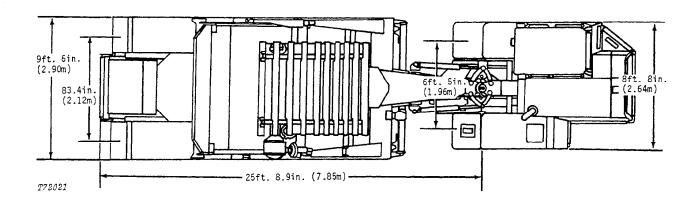
	Capacity (SAE heaped):         Volume	Torque Converter: Two phase, single stage with a 2.84 to 1 multiplication ratio, free-wheeling stator lock-up clutch and automatic control  Differential Lock		
	Power (@ 2100 engine rpm): SAE DIN	hydraulically actuated		
	Gross	<b>Drive Axle</b> Differential drive; over-all ratio 22.22 to 1; planetary final drives with 4.4 gpm (0.28 L/s) for lubrication and differential lock actuation		
		Brakes: Hydraulic, power actuated. An accumulator provides several brake applications after engine is stopped.		
	perature and DIN 70 020 standard conditions of 760 mm Hg barometer (sea level) and 20°C temperature. Engine maintains rated horsepower up to 7500 feet (2 290 m) altitude.	Tractor Wet-disk between differential and planetaries. No adjustment needed.  Scraper Expanding shoe, self-adjusting in wheels. Parking Manually controlled, mechanical, on sale insult short.		
	*In the International System of Units (SI), power is expressed in kilowatts (kW).	axle input shaft.  Power Steering: Position-responsive		
	Engine: John Deere turbocharged and intercooled diesel, 6-cylinder, 4-stroke cycle Bore and stroke	Articulated frame hydraulically actuated by dual cylinders.  Turning circle (180 deg. turn)		
		Filtration All systems are protected by replaceable filters.  Main hydraulic system 10-micron filters Elevator system		

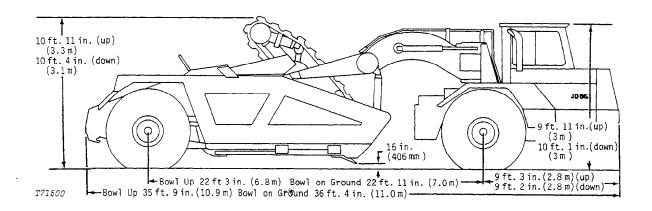
Hydraulic Cylinders: Lift (2) 5 in. ( Sliding floor (1) 5.25 in. (	(127 mm) 20 (133 mm) 38.8	in. (986 mm)
Ejector gate (2) 3 in. Steering (2) 4 in. (Piston rods Ground, Ipolished	(102 mm) 25.9	in. (658 mm)
Lift and steering cylinder Sliding floor cylinder Ejector gate cylinders .	2.5 in.	(64 mm) dia.
Elevator: Reversible, hydroplanetary reduction Number of flights Spacing of flights Width of flights Speed (@ 2100 engine rp Length (top to bottom)		in. (318 mm) in. (1.98 m) in. (73 m/min)
<b>Bowl:</b> Heavy-gauge ste construction. Sliding floor Cutting edge retracts. Indeadjustable.	rides on heat-	treated rails.
Cutting Edge: 8 ft. 9.9 tions, reversible and repl Each section is adjustabl Center section 1x13x End sections	aceable, high-c e vertically 2 77.9 in. (25x33	carbon steel. in. (51 mm). 0x1979 mm)

26.5-29, steel-cord radials 26.5-25, 24 ply rating, E2 26.5-29, 26 ply rating, E3 26.5-29, steel-cord radials		
Capacities: U.S.	IMP.	Liters
Cooling system 15 gal.	12.5 gal.	56.8
Fuel tank 113 gal.	94.4 gal.	429
Engine lubrication,		
including filter 31 qt.	25.8 qt.	29.3
Transmission case		
and filter 19 gal.	15.8 gal.	71.9
Differential case 7.5 gal.	6.2 gal.	28.4
Hydraulic reservoir 24 gal.	20.0 gai.	90.8
Elevator gear case 8 qt.	6.7 qt.	7.6
Weight Distribution:	lb.	kg
Empty: Drive axle		14 538
Scraper axle		7 774
Total		22 312
Loaded: Drive axle		20 140
Scraper axle		20 316
Total	89,189	40 456

Tires:

#### JD862 SCRAPER DIMENSIONS





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