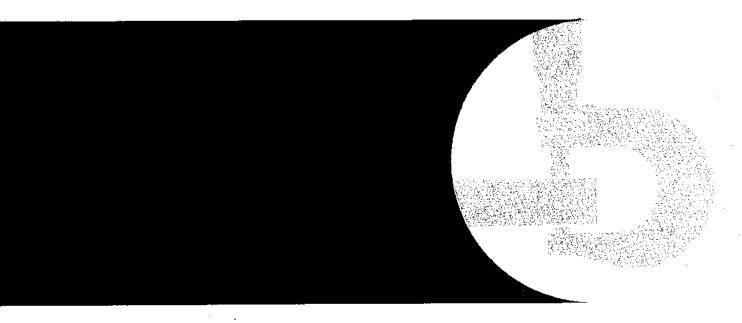
## John Deere JD862 Scraper





**TECHNICAL MANUAL** 

TM-1212

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

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The specifications and design information contained in this manual were correct at the time it was printed. It is John Deere's policy to continually Improve and update our machines. Therefore, the specifications and design information are subject to change without notice. Wherever applicable, specifications and design information are in accordance with SAE and ICED standards.

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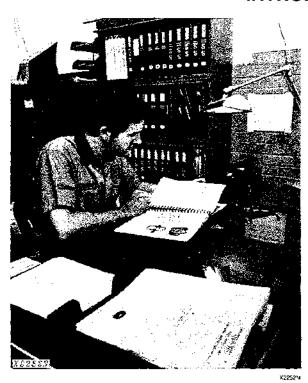
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### Group II

# INTRODUCTION AND SAFETY INFORMATION INTRODUCTION



Use FOS Manuals for Reference

This technical manual is part of a twin concept of service:

The two kinds of manuals work as a team to give you both the general background and technical details of shop service.

#### •FOS Manuals—for reference

Fundamentals of Service (FOS) Manuals cover basic theory of operation, fundamentals of trouble shooting, general maintenance, and basic types of failures and their causes. FOS Manuals are for training new personnel and for reference by experienced service technicians.



When a service technician should refer to a FOS Manual for more information, a FOS symbol like the one at the left is used in the technical manual.

#### ·Technical Manuals—for actual service

Technical Manuals are concise service guides for specific machines. Technical manuals are on-the-job guides containing only the vital information needed by an experienced service technician.

Litho in U.S.A.



Use Technical Manuals for Actual Service

This technical manual was written for you—an experienced service technician. Keep it in a permanent binder in the shop where it is handy. Read it when you need to know correct service procedures or specifications.

Some features of this manual:

- · Inside front cover "Table of Contents".
- Section 1 Contents, safety information, general specifications, general services and fuels and lubricants.
- Sections 1 through 42 Removal, repair, testing (components removed), installation, and adjustment.
- Section 90 Detailed explanation of system operation, diagnosis, visual inspection, testing, and adjustments.
- Specifications are listed and illustrated at the end of each section.

## 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!

Pian 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!

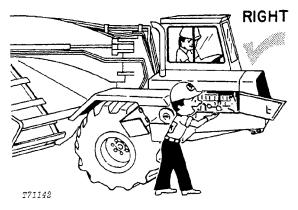
NEVER USE OPEN FLAME AROUND THE MACHINE.

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.
- RIGHT T71144



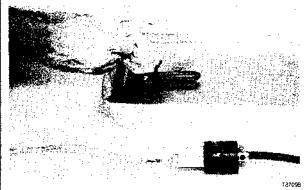
X981

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.

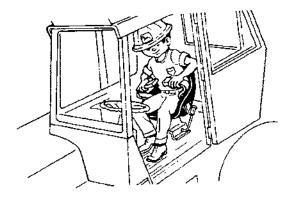
Do not plug into electrical power unless heating element is immersed in coolant. Sheath could burst and result in personal injury.



×766

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.

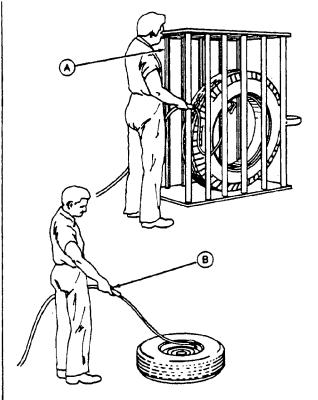
If your machine is equipped with a strating fluid starting aid, remember starting fluid is highly flammable. DO NOT incinerate or puncture a starting fluid container. DO NOT store a starting fluid container in a high-temperature area.



184925

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  |  |  |
| 1 | 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                             |  |  |
|   |  | <b>Brakes:</b> Hydraulic, power actuated. An accumulator provides several brake applications after engine is stopped.   |  |  |
|   |  | Tractor Wet-disk between differential and planetaries. No adjustment needed.  Scraper Expanding shoe, self-adjusting in wheels. Parking Manually controlled, mechanical, on axle input shaft. |  |  |
|   | *In the International System of Units (SI), power is expressed in kilowatts (kW).                  | 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)   |  |  |
|   |  | Transmission  |  |  |
|   |  |   |  |  |

| Hydraulic Cylinders:                                   | Bore           | Stroke               |
|--|----------------|----------------------|
| Lift (2) 5 in.   |                |                      |
| Sliding floor (1) 5.25 in.                             |                |                      |
| Ejector gate (2) 3 ir                                  |                |                      |
| Steering (2)4 in.                                      | (102 mm) 2     | 25.9 in. (658 mm)    |
| Piston rods Ground, polished                           |                |                      |
| Lift and steering cylind                               |                |                      |
| Sliding floor cylinder                                 |                |                      |
| Ejector gate cylinders                                 | 1.7            | 5 in. (44 mm) dia.   |
| Elevator: Reversible, hydrolanetary reduction          | Irostatic driv | e with heavy-duty    |
| Number of flights                                      |                | 23                   |
| Spacing of flights                                     | 12             | 2.52 in. (318 mm)    |
| Width of flights                                       | 6              | 5 ft. 6 in. (1.98 m) |
| Speed (@ 2100 engine r                                 | pm) . 0-24     | 0 fpm (73 m/min)     |
| Length (top to bottom) .                               |                |                      |
| <b>Bowl:</b> Heavy-gauge st construction. Sliding floo | r rides on h   | heat-treated rails.  |
| Cutting edge retracts. Incadjustable.                  | lependent a    | xles are vertically  |
| Cutting Edge: 8 ft. 9 tions, reversible and rep        |                |                      |
| Each section is adjustat                               |                |                      |
| Center section 1x13:                                   |                |                      |
| End sections 1x  |                |                      |
|  |                |                      |

| Tires:   |                    |           |        |
|----------|--------------------|-----------|--------|
| 26.5-29, | steel-cord radials |           |        |
|          | 24 ply rating, E2  |           |        |
|          | 26 ply rating, E3  |           |        |
|          | steel-cord radials |           |        |
| 20.0-20, | Steel-cold radials |           |        |
| Capaciti | es: U.S.           | IMP.      | Liters |
| Cooling: | system 15 gal.     | 12.5 gal. | 56.8   |
|          | κ 113 gal.         | 94.4 gal. | 429    |
|          | ubrication,        | ŭ         |        |
|          | ing filter         | 25.8 qt.  | 29.3   |
|          | ssion case         |           |        |
|          | ter 19 gal.        | 15.8 gal. | 71.9   |
|          | ial case 7.5 gal.  | _         | 28.4   |
|          | reservoir 24 gal.  |           | 90.8   |
| -        | _                  |           | 7.6    |
| Elevator | gear case 8 qt.    | 0.7 qt.   | 7.0    |
| Wainha I | Nintribution.      | 16        | le m   |
|          | Distribution:      | !b.       | kg     |
| Empty:   |                    |           | 14 538 |
|          | Scraper axle       | 17,139    | 7 774  |
|          | Total              | 49,189    | 22 312 |
| Loaded:  | Drive axle         | 44,400    | 20 140 |
|          | Scraper axle       | 44,789    | 20 316 |
|          | Total              |           | 40 456 |
|          |                    |           |        |

#### JD862 SCRAPER DIMENSIONS

