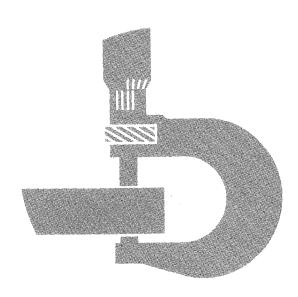
John Deere 762A Scraper



TECHNICAL MANUAL

762A SCRAPER Technical Manual TM-1225 (Jul-84)

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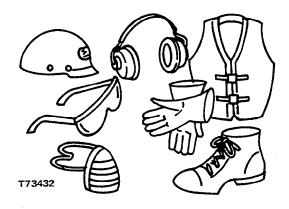
The specifications and design information contained in this manual were correct at the time it was printed. It is John Deere's policy to continually improve and update our machines. Therefore, the specifications and design information are subject to change without notice. Wherever applicable, specifications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

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 you may need, such as:

- •Hard hat
- Safety shoes
- Safety goggles
- Heavy gloves
- Reflector vest
- Hearing 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.

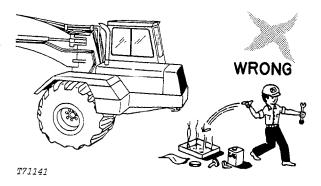
Keep the maintenance area CLEAN AND DRY. Oily and wet floors are slippery. Greasy rags are a fire hazard. When you work with electrical equipment, wet spots are dangerous.

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 you fill the fuel tank.

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

Stop the engine before you fill 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 you charge a battery, be sure there is enough ventilation.



Do not put metal objects across terminals to check the battery charge.

Keep sparks and flames away from batteries.

Do not smoke near battery.

Flame Is Not a Flashlight!

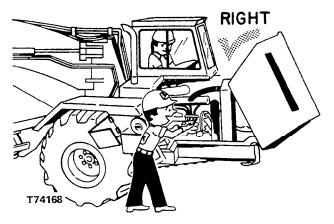
DO NOT USE OPEN FLAME AROUND THE MA-CHINE.

KNOW WHERE A FIRE EXTINGUISHER IS AND HOW TO USE IT.

UNDER ALL MAINTENANCE CONDITIONS—

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

Do not work on equipment while it is being operated.



When the engine is running, do not work on equipment unless the procedure is approved.

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.

Do not 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 a hoist.

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

When you drill, grind, or hammer 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 rail.

When you get a machine ready for storage, remember that inhibitor changes easily into gas and is dangerous. After you add 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 you remove the cap.

Check the exhaust system regularly for leaks.

Release hydraulic pressure before you work on the hydraulic system:

- •Lower the bowl to the ground.
- •Stop the engine.
- •Move the steering wheel until the bowl does not move.

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

Before you work on the fuel system, close the fuel shutoff valve.

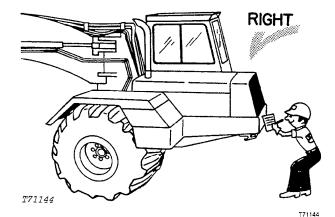
Before you work on the electrical system, or make major repairs, disconnect the battery ground strap.

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.



Carefully inspect all systems for leaks.



X981

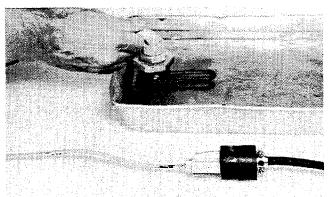
Escaping fluid under pressure can penetrate the skin causing serious injury. Relieve pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure. Keep hands and body away from pinholes and nozzles which eject fluids under high pressure. Use a piece of cardboard 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 injuiry 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.

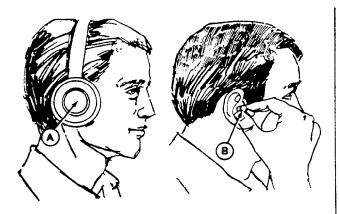


T87098

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.

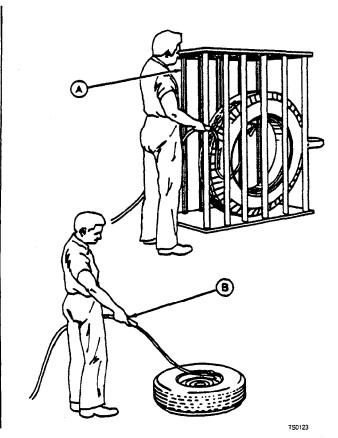
If your machine is equipped with a starting fluid starting aid, remember starting fluid is highly flammable. DO NOT incinerate or puncture a starting fluid container. DO NOT store a starting fluid container in a high-temperature area.



T84920

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 is 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 23.5-25, 16 ply rating tires, ROPS canopy, full fuel tank, 175 lb. (80 kg) operator, and all standard equipment.)

war zere ze, re p., ramig mee, rier e earlopy, ram raer tar	in, 170 ib. (60 kg) operator, and all standard equipment.)
Capacity (SAE heaped): Volume	Differential Lock Foot-operated,
	hydraulically actuated
Total weight of payload 2500 lb./yd.3 (1483 kg/m³) 27,500 lb. (12 474 kg)	Drive Axle. Differential drive; overall ratio 28.94 to 1;
	planetary final drives with 4.7 gpm (0.30 L/s) @ 2100
Power (@ 2100 engine rpm): SAE DIN Gross	engine rpm for axle lubrication and differential lock actuation.
Net 175 hp (130.5 kW) 177.5 PS	
• • • • • • • • • • • • • • • • • • • •	Brakes: Hydraulic, power actuated. An accumulator
Net engine flywheel power is for an engine equipped with fan, air cleaner, water pump, lubricating oil pump,	provides several brake applications after engine is stopped.
fuel pump, alternator, and muffler. Gross engine power is without fan. Flywheel power ratings are under SAE	Tractor Wet-disk between differential
standard conditions of 500 ft. altitude and 85°F tem-	and planetaries. No adjustment needed.
perature and DIN 70 020 standard conditions of 760 mm Hg barometer (sea level) and 20°C temperature.	Scraper Expanding shoe, self-adjusting in wheels. Parking Manually controlled, mechanical, on axle input shaft.
Engine maintains rated horsepower up to 7500 feet	Power Steering: Position-responsive
(2286 m) altitude.	
Engine: John Deere turbocharged and intercooled	Articulated frame hydraulically actuated by dual cylinders.
diesel, 6-cylinder, 4-stroke cycle	
Bore and stroke 4.56x4.75 in. (116x121 mm)	Turning circle
Piston displacement	(180 deg. turn)
Compression ratio	Articulation
Maximum torque @	Tractor Oscillation (total)
1300 rpm 570 lb-ft (773 N·m) (78.8 kg-m)	Hydraulic System:
NACC or AMA (U.S. Tax) horsepower49.9	Main tractor system: Closed-center
Main bearings 7	System pressure 2350 psi (16 203 kPa)
Lubrication Pressure system w/full-flow filter	(165.2 kg/cm²)
Cooling Pressurized w/thermostat and	Operates steering, brakes, and all scraper functions
controlled bypass	except elevator drive.
FanSuction	Main pumpVariable displacement, constant pres-
Aspirated air cleaner w/safety element and	sure; delivers 34.6 gpm (2.18 L/s) @ 2100 engine rpm.
restriction indicator Dry	Main charge pump delivers 13 gpm (0.82 L/s) @ 2100
Electrical system	engine rpm.
Batteries (two 12 volt)	Elevator systemEngine-driven, 4.26 cu. in. (69.8)
180 minutes	cm³) variable displacement, reversible hydrostatic
Torque Converter:	pump delivers 36.6 gpm (2.31 L/s) @ 2100 engine
	rpm.
Two-phase single stage with 2.30 to 1 multiplication	System pressure 5000 psi (34 475 kPa)
ratio, free-wheeling stator lockup clutch and automatic	(351 kg/cm²)
control.	(3= / 119/ 2111)

transmission shift actuation.

Transmission:

modulation.

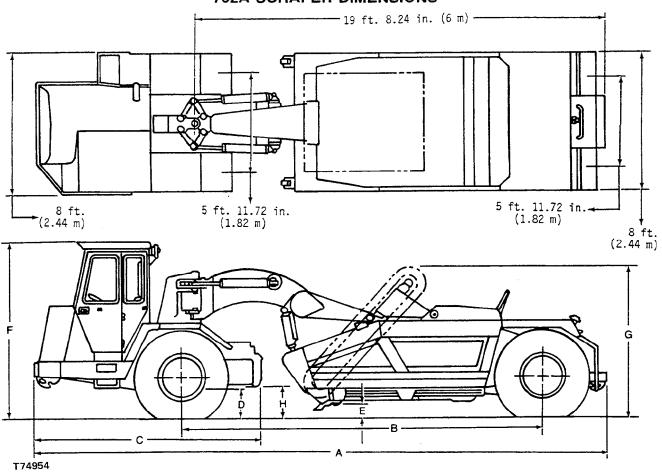
Planetary Power-Shift, 6 forward, 1 reverse speeds. Microprocessor controlled, fully automatic shift with

Gear pump24 gpm (1.5 L/s) @ 2100 rpm for transmission lubrication, torque converter charge and

replaceable filters. Elevator system 10 micron filters Elevator system 10 micron filters Elevator system 10 micron filters Transmission 10 micron filters Engine 25 micron filters Differential 25 micron filters And hoses 23 qt. 19.1 qt. 21.8 Hyd. system w/hyd. filter and hoses 23 qt. 19.1 qt. 21.8 Hyd. system w/hyd. filter and hoses 23 qt. 19.1 qt. 21.8 Hyd. system w/hyd. filter and elevator filter 12 qd. 10.0 gal. 45.4 Elevator gaarcase 13 qt. 10.8 qt. 12.6 Additional Standard Equipment: Cigar lighter Deluxe suspension seat Cold weather starting aid Fenders (tractor and scraper) Horizontal muffler Indicator warning lights: Paul Number of flights 15 ft. 6.9 in. (1.7 m) Speed (variable) 55 ft. 6.9 in. (1.7 m) Speed (variable) 60 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. (19xz54x1372 mm)
Elevator system 10 micron filters Transmission 10 micron filters Engine 25 micron filters Differential 10 micron filters Differential 10 micron filters Differential 11 micron filters Differential 12 micron filters Differential 13 gal. 10.8 gal. 49.0 Differential case w/filter and elevator filter and hoses 23 qt. 19.1 qt. 21.8 Hydraulic Cylinders: Bore Lift (2) 4.5 in. (114 mm) 18 in. (457 mm) Sliding floor (1) 5.25 in. (133 mm) 30.1 in. (765 mm) Ejector gate (2) 2.5 in. (64 mm) 34.8 in. (884 mm) Steering (2) 3.5 in. (89 mm) 25.89 in. (658 mm) Piston rods Ground, heat-treated, chrome plated, polished Lift and steering cylinders 2.25 in. (57 mm) Ejector gate cylinders 1.50 in. (38 mm) Elevator: Reversible, hydrostatic-drive with triple gear reduction Number of fliights 5. 12.44 in. (316 mm) Width of fliights 5. 12.44 in. (316 mm) Width of fliights 5. 12.44 in. (316 mm) Width of fliights 5. 10 236 fpm (15-72 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). Contor sections 0.75 xty10x64 in. (1492/54/1372 mm)
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gear reduction Number of flights
Number of flights
Spacing of flights
Width of flights 5 ft. 6.9 in. (1.7 m) Speed (variable) 50 to 236 fpm (15-72 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). Contor section 0.75x10x54 in (19x254x1372 mm) Hydrostatic charge pressure Speedometer Tachometer Transmission lube pressure Transmission oil pressure Transmission oil temperature Weight Distribution: Ib. kg
Speed (variable) 50 to 236 fpm (15-72 m/min) Length (top to bottom) 9 ft. 6 in. (2.9 m) Bowl:
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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). Contor section 0.75×10×54 in (19×254×1372 mm) Weight Distribution:
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Each section is adjustable vertically 2 in. (51 mm). Contor section 0.75×10×54 in. (19×254×1372 mm) Weight Distribution: Ib. kg
Center section 0.75×10×54 in (19×254×1372 mm) Weight Distribution: ID. Kg
End sections 0.75y10y18 in (19y254y457 mm) Empty: Drive axie
Scraper axie 12,/10 5 /65
Total
00 5 05 40 all anti-m 50
00 5 05 00 1 -11 - 50
70.00
Special Equipment:
Air conditioner
Cab panels
Fender extensions and mud flaps for scraper wheels Heater

Teeth for cutting edge Extended side cutters Ejector gate spill screen

762A SCRAPER DIMENSIONS



	BOWL AT GROUND LEVEL	BOWL UP	BOWL LEVEL
A.	32 ft. 9.5 in.	32 ft. 2.5 in.	32 ft. 5.4 in.
	(10 m)	(9.81 m)	(9.9 m)
В	21 ft. 0.25 in.	20 ft. 4.1 in.	20 ft. 7 in.
	(6.40 m)	⋅(6.20 m)	(6.25 m)
С	12 ft. 11.5 in.	13 ft.	12 ft. 11.9 in.
	(3.95 m)	(3.96 m)	(3.96 m)
D	18.5 in.	18.5 in.	18.5 in.
(axle clearance)	(470 mm)	(470 mm)	(470 mm)
E	-	17.25 in. (438 mm) w/o teeth 15.50 in. (394 mm) w/teeth	12 in. (305 mm) w/o teeth 10 in. (254 mm) w/teeth
F	9 ft. 10 in.	9 ft. 4 in.	9 ft. 6.4 in.
	(3 m)	(2.84 m)	(2.90 m)
G	8 ft. 7 in.	9 ft. 6 in.	9 ft. 2 in.
	(2.62 m)	(2.89 m)	(2.79 m)
H	17.12 in.	21.9 in.	20 in.
(trans. clearance)	(435 mm)	(556 mm)	(508 mm)



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