

**762B  
SCRAPER  
(SERIAL NO. 791764- )**



**JOHN DEERE**

**OPERATORS MANUAL  
762B SCRAPER  
(SERIAL NO. 791764- )**

OMT150801 K3 English

**JOHN DEERE DUBUQUE WORKS  
OMT150801 K3**

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ENGLISH



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## MAINTAIN SEAT BELT

It is important to use the seat belt on ROPS equipped machines to minimize the chance of injury from an accident such as an overturn. Keep the seat belt in good condition.

Carefully examine buckle, webbing, and attaching hardware.

Be sure that the retractor, if equipped, locks to prevent belt extension after latching buckle.

Be sure that attaching hardware is in place. Tighten, if necessary.

**Replace the seat belt if it does not operate properly, or if it is damaged, worn, or deteriorated.**

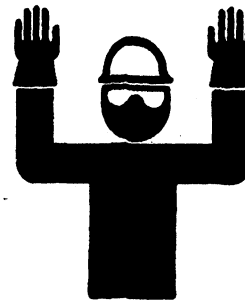
TX,05,DH1741 -19-03JAN82

## TRAVEL SAFELY

Know the location of bystanders before moving the machine.

Always keep the reverse warning alarm in working condition. It warns people when the machine starts to move in reverse.

Use a signal person when moving the machine in congested areas. Coordinate hand signals before starting the machine.



T6964AD -UN-20DEC88

TX,05,DH496 -19-02AUG89



## REMOVE PAINT BEFORE WELDING OR HEATING

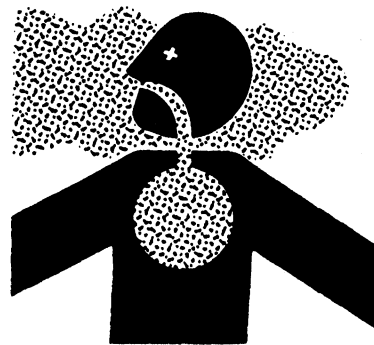
Avoid potentially toxic fumes and dust.

Hazardous fumes can be generated when paint is heated by welding, soldering, or using a torch.

Do all work outside or in a well ventilated area. Dispose of paint and solvent properly.

Remove paint before welding or heating:

- If you sand or grind paint, avoid breathing the dust. Wear an approved respirator.
- If you use solvent or paint stripper, remove stripper with soap and water before welding. Remove solvent or paint stripper containers and other flammable material from area. Allow fumes to disperse at least 15 minutes before welding or heating.



DX,PAINT -19-03MAR93

TS220 -JUN-29AUG88

## AVOID HEATING NEAR PRESSURIZED FLUID LINES

Flammable spray can be generated by heating near pressurized fluid lines, resulting in severe burns to yourself and bystanders. Do not heat by welding, soldering, or using a torch near pressurized fluid lines or other flammable materials. Pressurized lines can be accidentally cut when heat goes beyond the immediate flame area.



DX,TORCH -19-03MAR93

TS953 -JUN-15MAY90

## STOP INDICATOR (RED) AND ALARM

**⚠ CAUTION: Prevent possible injury, or machine damage. If STOP indicator flashes and alarm sounds, stop immediately and investigate cause of problem.**



The STOP indicator flashes and alarm sounds when:

Engine oil pressure is low. STOP ENGINE IMMEDIATELY.

Engine coolant temperature is excessively high. Stop machine and allow engine to cool. Shut off engine and take corrective action.

Brake pressure is low. Stop machine and take corrective action.

Transmission is shifted into gear with park brake engaged. Disengage park brake.

If the indicators do not function correctly, see Troubleshooting chapter.

TX,10,FF3525 -19-16NOV93

T7673AM -UN-06JAN92

## SERVICE REQUIRED INDICATOR (YELLOW)

If service required indicator lights, a problem is developing. It is not necessary to stop the engine immediately, but the cause should be investigated as soon as possible.



The service required indicator lights when:

Engine alternator voltage is low.

Engine air filter is restricted.

Transmission oil pressure is low.

Transmission oil filter is restricted.

Transmission oil temperature is excessively high.

Hydraulic oil filter is restricted.

Drive axle oil filter is restricted.

Elevator charge pressure is low.

02T,25,C27 -19-16NOV93

T6201BL -UN-18OCT88

**AFTER THE FIRST 50 HOURS**

1. Perform 50 hour service. (See Maintenance-Every 50 Hours chapter.)

2. Tighten wheel cap screws to 542 N·m (400 lb-ft).

3. Tighten oscillation hitch pivot cap screws.

Horizontal pins ..... 908 N·m (670 lb-ft)  
Vertical pins ..... 576 N·m (425 lb-ft)

4. Tighten steering cylinder pin cap screws to 200 N·m (150 lb-ft).

5. Tighten sliding floor rail bracket cap screws to 1396 N·m (1030 lb-ft).


6. Tighten upper, lower, and adjusting idler bearing cap retaining cap screws to 41 N·m (30 lb-ft).

## ENGINE WARM-UP

1. Start engine. Run at 1/3 speed for 30 seconds. Do not run at fast or slow idle. Do not accelerate rapidly during warm-up.
2. Operate machine at less-than-normal loads and speeds until engine is at normal operating temperature.

T82,25,C41 -19-09SEP91

## COLD WEATHER WARM-UP

 **CAUTION: Prevent possible injury. If brake oil is cold, brakes may not work correctly. If air temperature is below freezing, operate steering and bowl functions to warm oil.**

In extremely cold conditions, an extended warming up period will be necessary. Under such conditions, cover radiator and oil cooler to maintain operating temperature.

1. Run engine at 1/2 speed for 5 minutes without load. Do not run at fast or slow idle.

*NOTE: If hydraulic oil is cold, hydraulic functions move slowly. Do not attempt normal machine operation until hydraulic functions operate normally.*

2. Operate differential lock pedal several times.
3. Operate elevator at slow speed for several minutes.
4. Raise and lower bowl several times.
5. Operate eject cycle several times.
6. Haul lighter-than-normal loads for first 30 minutes.

02T,25,C32 -19-09SEP91

### **LOAD SHIFT PATTERN (AUTOMATIC TRANSMISSION—AUTOMATIC MODE)**

Load shift pattern is automatically selected when elevator is operating in forward position (loading).

With transmission gear shift lever in 6th gear, shift sequence starts in 1TC\*, then up shifts to 2TC, 3TC, 4TC, 5TC, and 6TC.

Torque converter drive provides maximum hydraulic power to the elevator.

\*TC: Torque Converter Drive

TX,35,FF1252 -19-17NOV93

### **DOWN SHIFT PATTERN (AUTOMATIC TRANSMISSION—AUTOMATIC MODE)**

Down shift pattern is automatically selected when accelerator pedal is completely released and elevator is not in loading position.

When gear shift lever is in 6th gear, shift sequence starts in 6L\*\*, then down shifts to 5L, 4TC\*, and 3TC.

Keep direct drive locked in the higher gears to provide increased engine braking.

\*TC: Torque Converter Drive

\*\*L: Lockup in Direct Drive

TX,35,FF1253 -19-09SEP91

## TOWING

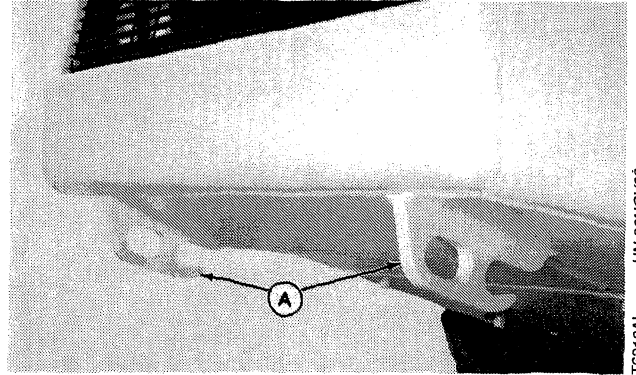
**CAUTION:** Prevent possible injury or machine damage. Operator must be in operator's seat to control steering and brakes. Steering, brakes, and transmission may be operational, depending on type of failure.

**IMPORTANT:** Prevent transmission damage. Engine cannot be started by towing. Damage to transmission will result. Towing long distances is not recommended.

If you plan to tow machine more than 1600 m (1 mile) and faster than 8 km/h (5 mph), disconnect lower (axle) drive shaft.

Machine must be pulled straight and evenly on hooks, not at an angle.

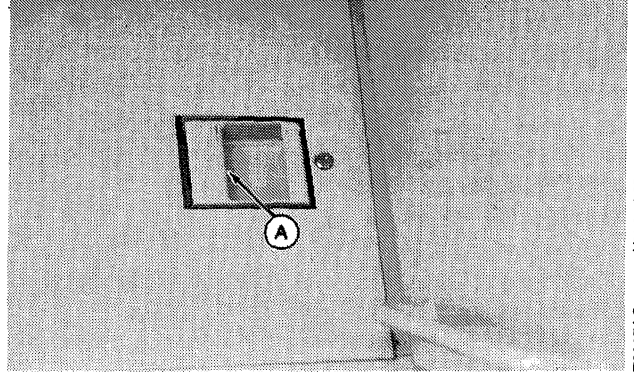
1. Fasten a tow bar to front tow loops (A) or rear pins.
2. Move transmission gear shift lever to neutral "N".
3. Disengage differential lock.
4. Release park brake.
5. Run engine for braking and steering power.
6. If engine will not run, tape exhaust pipe closed.



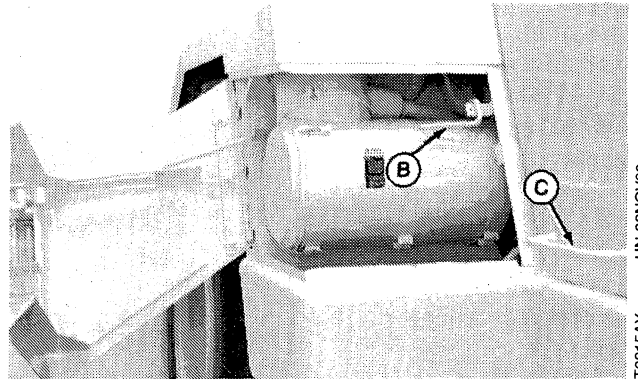
T8212A1 -JUN-02NOV88

### HOOD AND SERVICE DOOR

1. Pull out on handle (A) to open service door.
2. Lift up on rod (B). Raise hood using handhold (C).
3. Close hood, Push down on rod (B) to latch.
4. Close service door.



T8097AG -UN-07OCT93



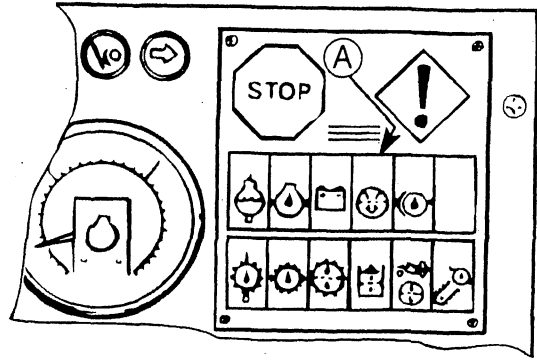
T6215AY -UN-02NOV88

TX,50,FF3549 -19-29SEP93

### CHECK AIR FILTER RESTRICTION INDICATOR

*NOTE: Indicator will not work correctly if an element has a break or is not correctly sealed in air cleaner housing.*

If engine air filter indicator light (A) comes on, clean or replace air filter elements.

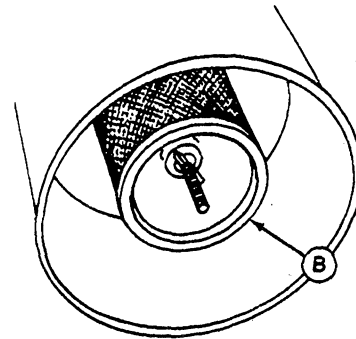
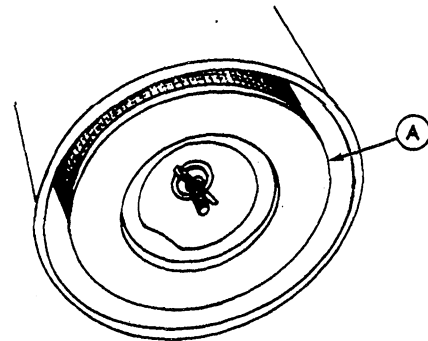


TX,55,FF3559 -19-16NOV93

T8098AJ -UN-13OCT93

### CHANGE AIR CLEANER ELEMENTS

1. Open service door.
2. Remove cover.
3. Remove wing nut to remove primary element (A).
4. Remove wing nut to remove secondary element (B).
5. Install new elements.
6. Install cover.



TX,55,FF1265 -19-09SEP91

T6119AF -UN-01NOV88

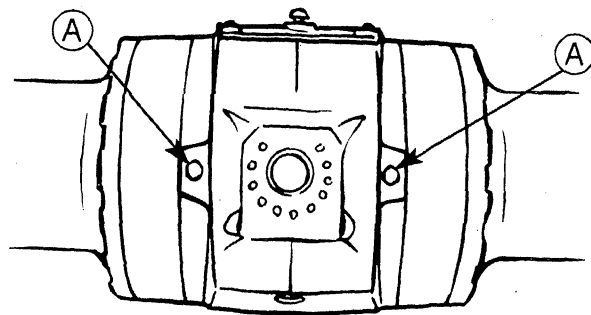
T6119AG -UN-01NOV88

## CHECK DRIVE AXLE OIL LEVEL

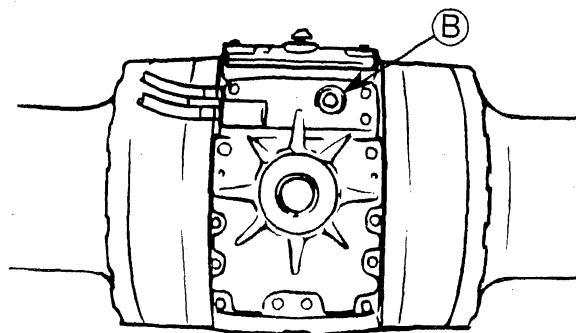
**IMPORTANT:** To obtain an accurate reading, check drive axle oil level when oil is cold.

Check drive axle oil before starting engine, with machine parked on a level surface, bowl on ground, transmission gear shift lever in neutral, park brake engaged, ejector gate fully rearward and sliding floor fully forward.

1. Check oil level. Remove one of check plugs (A). Oil must be to bottom of check plug hole.
2. If necessary, remove fill plug (B). Add oil. (See Fuels and Lubricants chapter.)
3. Install and tighten fill plug and check plug.



Front of Differential



Rear of Differential

TX,65,FF3524 -19-16NOV93

T8090AG -JUN-30SEP93

T8090AG

T8090AI -JUN-30SEP93

T8090AI

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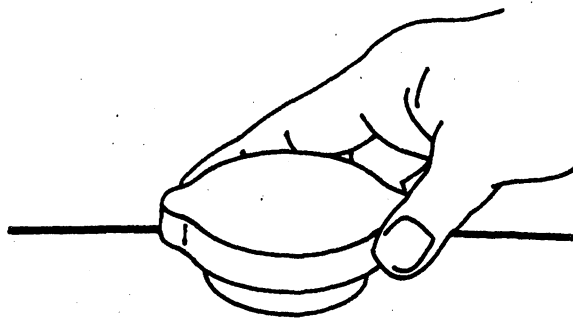
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## ADD COOLANT CONDITIONER TO RADIATOR

Coolant conditioner prevents rust, scale, and liner cavitation.

**⚠ CAUTION:** Prevent possible injury from hot spraying water. Do not remove radiator cap unless the engine is cool. Then loosen cap slowly to the stop. Release air to relieve pressure before removing cap.



1. Turn cap slowly to the stop to release air to relieve pressure. Then remove radiator cap.

2. Add RE23182 John Deere Coolant Conditioner or equivalent non-chromate conditioner/rust inhibitor, following instructions on container.

### SPECIFICATION

Cooling system capacity . . . . . Approx 34 L (9 gal)

*NOTE: Add conditioner every 500 hours or 6 months, or if you replace 1/3 or more of coolant.*

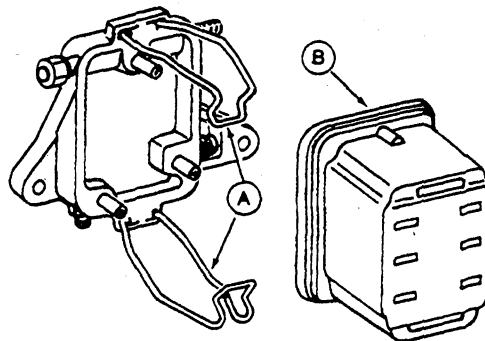
*John Deere Liquid Coolant Conditioner does not protect against freezing.*

TX,80,FF1519 -19-19OCT93

T6274AQ -JUN-18OCT88

## CHANGE FUEL FILTER

1. Loosen clamps (A) to remove filter (B).
2. Clean filter base.
3. Install new filter.

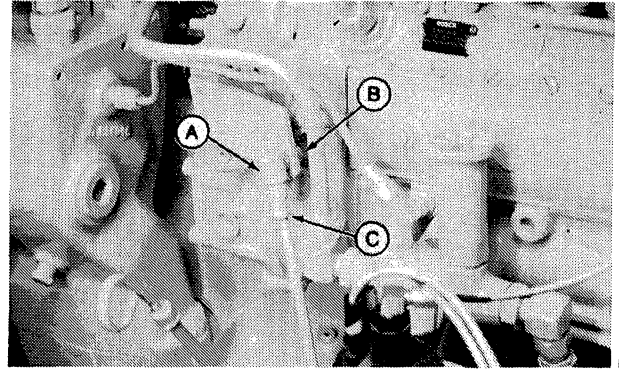


TX,80,FF3577 -19-19OCT93

T7034AH -JUN-01MAY89

## ADJUSTING ENGINE SPEED LINKAGE

1. Warm engine to normal operating range.
2. Remove nut (B) to disconnect speed control rod from injection pump lever.
3. Loosen nut (C) and turn ball joint (A) to adjust length of speed control linkage until lever makes contact with the stops on injection pump.
4. Connect speed control rod to lever.
5. Recheck engine speeds.



T8101AA -JUN-19OCT93

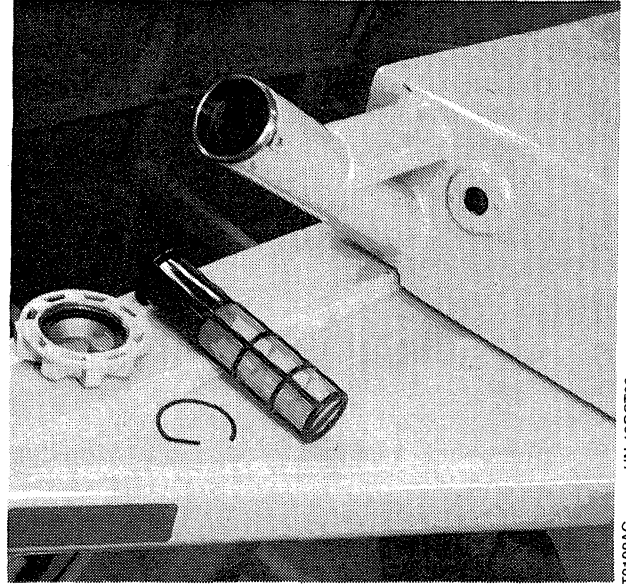
A—Ball Joint  
B—Nut  
C—Nut

TX,85,FF3586 -19-19OCT93

## FUEL STRAINER

Check fuel strainer for dirt approximately every 1000 hours. Remove filler cap and snap ring. Remove strainer. Clean it with diesel fuel.

Install strainer. Install snap ring and filler cap.



TB102AC -JUN-13OCT93

TX,90,FF3594 -19-19OCT93

## PRECAUTIONS FOR ALTERNATOR AND REGULATOR


When batteries are connected, follow these rules:

1. Disconnect negative (-) battery cable when you work on or near alternator or regulator.
2. DO NOT TRY TO POLARIZE ALTERNATOR OR REGULATOR.
3. Be sure alternator wires are correctly connected BEFORE you connect batteries.
4. Do not ground alternator output terminal.
5. Do not disconnect or connect any alternator or regulator wires while batteries are connected or while alternator is operating.
6. Connect batteries or a booster battery in the correct polarity (positive [+] to positive [+] and negative [-] to negative [-]).
7. Do not disconnect the batteries when engine is running and alternator is charging.
8. Disconnect battery cables before you connect battery charger to the batteries.

T82,EXMA,I -19-03AUG92

## BURNISHING BOWL BRAKE SHOE FACINGS

**IMPORTANT:** When new replacement bowl brake shoes are installed, it is necessary to burnish the shoe facings to obtain full brake capacity.

 **CAUTION:** Prevent possible injury from unexpected machine movement. Clear the area of all bystanders before beginning procedure.

**Seat belt must be worn while doing this check to prevent possible injury when machine stops suddenly.**

**If hydraulic oil is cold and air temperature is below freezing, operate steering and bowl functions to warm oil.**

1. Do Cold Weather Warm-Up procedure. See Operating the Engine chapter.
2. Shift transmission to 5th gear.
3. Run engine at 1/2 speed.
4. Push and hold secondary brake switch on for 1 second and release. Repeat procedure until machine stops moving when secondary brake switch is applied.

*NOTE: The secondary brake function is used to bypass the brake valve to apply the bowl brakes only. The tractor brakes are not applied.*

If rear wheels "lock up" when secondary brake switch is applied, procedure is complete.

If rear wheels do not "lock up" when secondary brake switch is applied, repeat procedure until wheels "lock up."

**DO NOT SERVICE CONTROL VALVES, CYLINDERS, PUMPS, OR MOTORS**

Special tools and information are needed to service control valves, cylinders, pumps, or motors.

If these parts need service, see your authorized dealer.

TX,90,FF3356 -19-23MAR93

**HARDWARE TORQUE SPECIFICATIONS**

Check cap screws and nuts to be sure they are tight. If hardware is loose, tighten to torque shown on the following charts unless a special torque is specified.

T82,SKMA,AT -19-29JAN92

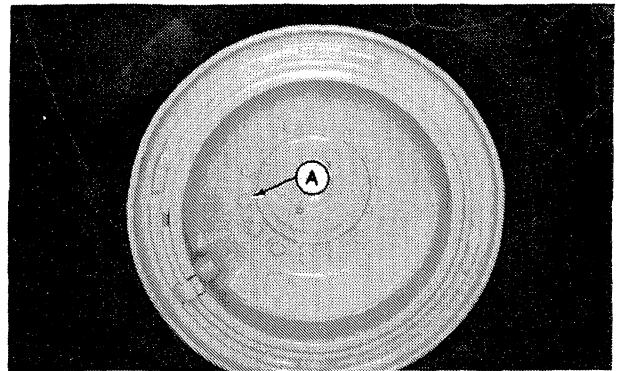
**TIGHTEN WHEEL RETAINER CAP SCREWS**

*NOTE: Tighten cap screws after first 10 and then first 50 hours of loaded operation.*

Tighten wheel cap screws.

**SPECIFICATION**

Wheel cap screw torque ..... 542 N·m (400 lb-ft)



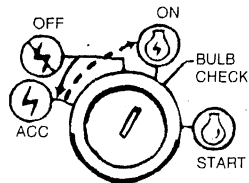
T6217AJ -UN-02NOV88

TX,90,FF1329 -19-09SEP91

**MONITOR INDICATOR AND GAUGE CHECKS**

TX,95,FF3623 -19-16NOV93

**KEY SWITCH CHECK**



T8107AP -UN-25OCT93

Turn key switch to ACC position.

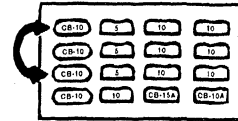
*LISTEN: "Click" must be heard.*

Turn key switch to ON position.

*LISTEN: "Click" must be heard.*

**OK:** Go to next check.

**NOT OK:** Switch circuit breakers to check. See your authorized dealer.

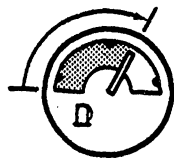


T8107AT -UN-25OCT93

TX,95,FF3624 -19-16NOV93

**FUEL GAUGE CHECK**

Turn key switch to ON.

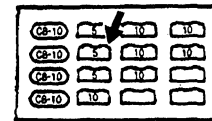


T6402AC -UN-22MAY89

*LOOK: Fuel gauge needle must move to right unless tank is empty. Fuel gauge must indicate correct fuel level.*

**OK:** Go to next check.

**NOT OK:** Check fuse. **IF OK:** Check wiring, sender and gauge. See your authorized dealer.

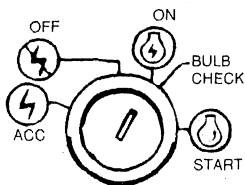


T6408AD -UN-24MAY89

TX,95,FF3625 -19-19OCT93

**FUEL TRANSFER PUMP**

Turn key switch to ON position.



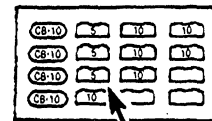
T8107AV -UN-25OCT93

*LISTEN: Fuel transfer pump must make a "humming" sound indicating it is operating.*

*NOTE: Units with cabs will require opening door, window or walking to rear of unit to hear pump.*

**OK:** Go to next check.

**NOT OK:** Check fuel pump fuse. **IF OK:** Check wiring to fuel pump. See your authorized dealer.



T6408AE -UN-24MAY89

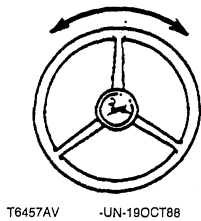
TX,95,FF3626 -19-19OCT93

**STEERING SYSTEM CHECKS**

TX,95,FF3672 -19-16NOV93

**STEERING VALVE AND STEERING SYSTEM CHECKS**

**▲ CAUTION:** Seat belt must be worn while doing this check to prevent possible injury when machine stops suddenly.



Operate engine at slow idle.

Raise bowl off ground. Release park brake.

Turn steering wheel from full left to full right several times.

*LOOK:* Tractor must move smoothly in both directions.

*When steering wheel is stopped the tractor must stop moving.*

*NOTE:* Internal leakage or a sticking steering valve spool can cause the wheels to continue to move after the steering wheel is stopped.

**OK:** Go to next check.

**NOT OK:** Go to your authorized dealer.

TX,95,FF3649 -19-16NOV93

**STEERING CYLINDER CUSHION STOPS CHECK**

**▲ CAUTION:** Seat belt must be worn while doing this check to prevent possible injury when machine stops suddenly.

With engine at approximately 1500 rpm and machine turned full left, turn machine to the right and watch steering cylinder movement. Check again right to left.

*LISTEN:* Must hear oil flowing through orifice as cylinder rod moves near the end of its stroke.

*LOOK:* Speed of cylinder rod must decrease near the end of its stroke.

**OK:** Go to next check.

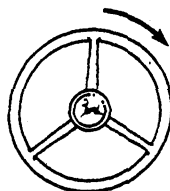
**NOT OK:** See your authorized dealer.

TX,95,FF3650 -19-19OCT93

**STEERING SYSTEM LEAKAGE CHECK**

*NOTE:* Hydraulic oil must be at operating temperature for this test.

**▲ CAUTION:** Seat belt must be worn while doing this check to prevent possible injury when machine stops suddenly.



Operate engine at slow idle. Turn steering wheel until frames are in the maximum right turn position. Continue turning steering wheel while counting steering wheel revolutions.

Repeat leakage check turning steering wheel to the left.

**Continued on next page**

T6457AX -UN-19OCT88

Operational Checkout

**MISCELLANEOUS CHECK**

TX,95,FF3677 -19-16NOV93

**HOOD AND SERVICE DOORS CHECK**

Pull on handle to open service door.

*LOOK/FEEL: Door must swing open freely. Rod must keep door from opening too far.*

Lift up on rod. Raise hood using hand hold.

*LOOK/FEEL: Hood must open freely. Hood open latch must hold hood open.*

*LOOK/FEEL: Hood latches must not be excessively worn.*

Close hood and service door.

**OK:** Go to next check.  
**NOT OK:** Replace worn or damaged parts. Go to your authorized dealer.

TX,95,FF3668 -19-19OCT93

**MACHINE CHECKS**

Check elevator chain for excessive wear, and for broken or missing rollers and pins.

*LOOK: Chain MUST NOT be excessively worn.*

Check sprockets, idlers, and adjusters for excessive wear or oil leakage.

*LOOK: Parts MUST NOT be excessively worn or leaking.*

Check sliding floor and ejector gate.

*LOOK: Sliding floor wear rails and cutting edge MUST NOT be worn excessively. Ejector gate rollers must be in the guides. Grease lines must be in place.*

**OK:** Go to next check.  
**NOT OK:** Replace worn parts. Go to your authorized dealer.

TX,95,FF1383 -19-19OCT93

**CHECK SERVICE DECAL**



T6171DG -JUN-09DEC88

Check service decal on right fender.

*LOOK: Service decal must be legible.*

**OK:** Go to next check.  
**NOT OK:** Replace decal. Go to your authorized dealer for part.

TX,95,FF1384 -19-19OCT93

## Troubleshooting

| Symptom                                     | Problem  | Solution  |
|---|--|---|
|   | Starter pinion gear not disengaging from flywheel gear.                        | Gently tap starter case. Replace or repair starter. See your authorized dealer.   |
|   | Ignition switch malfunction.   | Check for 24 volts on "ST" terminal with key switch ON. Replace switch. See your authorized dealer.   |
| <b>Excessive Noise When Cranking Engine</b> | Broken teeth on flywheel gear or starter pinion gear.                          | Repair. See your authorized dealer.   |
|   | Hydraulic pump or pump drive failure.  | Repair. See your authorized dealer.   |
|   | Engine failure.  | Repair. See your authorized dealer.   |
| <b>Starter Solenoid Chatters</b>            | Poor or corroded connections at battery, battery ground, strap or starter.     | Inspect, clean, and tighten if necessary.   |
|   | Low battery voltage.   | See Low Battery Output.   |
|   | Units with automatic shift will not start if battery charge is below 18 volts. | Check batteries and connections.  |
| <b>Battery Using Too Much Water</b>         | Battery being overcharged.   | If one battery is low on charge, the other battery will be overcharged. Recharge low battery separately. Replace both batteries if one fails. |
|   | High ambient temperature.  | Refill with distilled water.  |
|   | Cracked battery case.  | Replace both batteries.   |
|   | Faulty regulator   | See your authorized dealer.   |
| <b>Cracked Battery Case</b>                 | Battery hold down clamp too tight, too loose or missing.                       | Install new batteries. Install hold down clamps correctly.  |
|   | Frozen battery.  | Keep batteries fully charged during cold weather. Replace both batteries.   |
| <b>Low Battery Output</b>                   | Low water level.   | (See Battery Using Too Much Water and Cracked Battery Case.) Refill with distilled water. Recharge batteries separately.                      |

Continued on next page

## *Troubleshooting*

| <b>Symptom</b> | <b>Problem</b>   | <b>Solution</b>             |
|----------------|--|-----------------------------|
|                | Engine mounting hardware loose or missing.   | Repair or replace.          |
|                | Hydraulic pump drive coupling or mounting hardware loose.  | Repair or replace.          |
|                | Hydraulic pump malfunction, engine malfunction, transmission malfunction, axle or final drive malfunction. | See your authorized dealer. |
|                | Transmission input drive shaft out of balance.   | See your authorized dealer. |
|                | Worn universal joints.   | See your authorized dealer. |

TX,100,FF3618 -19-19OCT93

**762B**

**Travel Speeds: (Maximum at 2100 engine rpm)**

| Direction | Gear    | km/ h      | mph  |
|-----------|---------|------------|------|
| Forward   | 1 . . . | 4.3 . . .  | 2.7  |
|           | 2 . . . | 6.2 . . .  | 3.8  |
|           | 3 . . . | 7.9 . . .  | 4.9  |
|           | 4 . . . | 11.2 . . . | 7.0  |
|           | 5 . . . | 22.4 . . . | 13.9 |
|           | 6 . . . | 40.9 . . . | 25.4 |
| Reverse   | 1 . . . | 7.3 . . .  | 4.5  |

**Differential Lock:**

Foot operated, electro/hydraulic

**Drive Axle (Differential type with inboard planetaries):**

Lubrication and differential lock actuation . . . . . 0.3 L/s (4.7 gpm) gear pump

**Power Steering (Position-responsive type):**

Articulated frame hydraulically actuated by dual cylinders

Turning circle (180° turn) . . . . . 9.14 m (30 ft)

Frame articulation (total) . . . . . 180°

**Brakes (Hydraulic power actuated. Hydraulic accumulator provides dead engine-braking):**

Front . . . . . Adjustment-free inboard wet-disk

Rear . . . . . Self-adjusting wheel-mounted expanding-shoe

Parking . . . . . Spring applied, hydraulically released disc type

**Hydraulic System:**

Main machine: Closed-center system with 65 cm<sup>3</sup> (4.0 in.<sup>3</sup>) variable-displacement, constant pressure pump for steering, brakes, and all scraper functions except elevator drive.

System pressure . . . . . 16 203 kPa (162 bar) (2350 psi)

Main pump rating . . . . . 2.18 L/s (34.6 gpm) at 2100 engine rpm

Charge pump rating . . . . . 0.82 L/s (13 gpm) at 2100 engine rpm

Elevator drive: Hydrostatic system with 69.8 cm<sup>3</sup> (4.26 in.<sup>3</sup>) variable-displacement, axial piston pump, and 51.6 cm<sup>3</sup> (3.15 in.<sup>3</sup>) axial piston motor.

System pressure . . . . . 34 475 kPa (345 bar) (5000 psi)

Pump rating . . . . . 2.31 L/s (36.6 gpm) at 2100 engine rpm

**Filtration (All systems are protected by replaceable filters):**

Main hydraulic system . . . . . 10 micron

Elevator system . . . . . 10 micron

Transmission . . . . . 10 micron

Engine . . . . . 25 micron

Drive axle . . . . . 10 micron

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