



**JOHN DEERE
744E LOADER
(SERIAL NO. 000376-)**



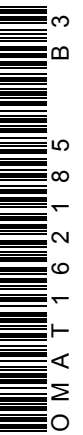
JOHN DEERE

**OPERATORS MANUAL
JOHN DEERE 744E LOADER
(SERIAL NO. 000376-)**

OMAT162185 B3 English

**JOHN DEERE DUBUQUE WORKS
OMAT162185 B3
(Mark old manual OMAT145920 E0 for
machines up to Serial No. 00376)**

LITHO IN THE U.S.A.
ENGLISH



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DRIVE MACHINE SAFELY

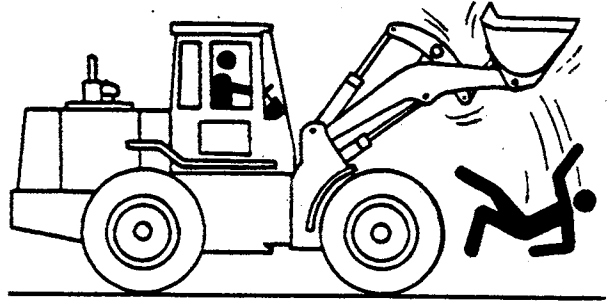
Walk around machine to clear all persons from area of operation and machine movement.

Always check area to rear before shifting to reverse.

Drive carefully in congested areas, over rough ground, near ditches for excavations, and on slopes or curves.

Keep machine in gear when going down hills.

Use accessory lights and devices to warn operators of other vehicles.



T6582AS -JUN-25OCT88

TX,05,DH1931 -19-21JUN91

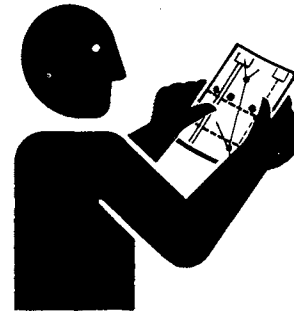
OPERATE MACHINE WITH CAUTION

Check location of cables, gas lines, and water mains before digging.

Keep loading area smooth.

Never lower a loaded bucket with the boom and bucket control lever in the float position.

Increase the power gradually when pulling a heavy load or when driving out of a ditch or excavation.



T6642EF -JUN-18OCT88

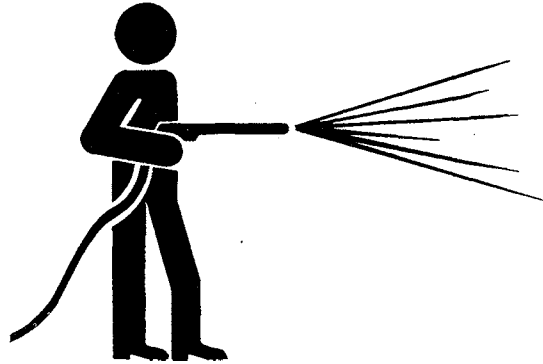
TX,05,DH1932 -19-06JUN91



CLEAN THE MACHINE REGULARLY

Remove any grease, oil, or debris build-up to avoid possible injury or machine damage.

High pressure washing [greater than 1379 kpa (13.8 bar) (200 psi)] can damage freshly painted finishes. Paint should be allowed to air dry for 30 days minimum after receipt of machine before cleaning with high pressure. Use low pressure wash operations until 30 days have elapsed.



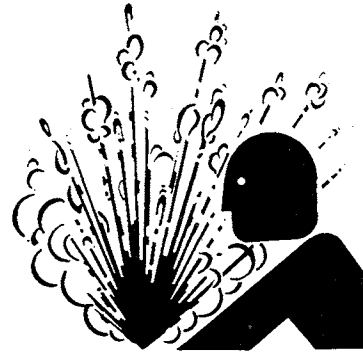
TX,05,FF2787 -19-01MAY92

T6642EJ -UN-18OCT88

SERVICE COOLING SYSTEM SAFELY

Explosive release of fluids from pressurized cooling system can cause serious burns.

Shut off engine. Only remove filler cap when cool enough to touch with bare hands. Slowly loosen cap to first stop to relieve pressure before removing completely.



DX,RCAP -19-04JUN90

TS281 -UN-23AUG88

STORE ATTACHMENTS SAFELY

Stored attachments such as dual wheels, cage wheels, and loaders can fall and cause serious injury or death.

Securely store attachments and implements to prevent falling. Keep playing children and bystanders away from storage area.



DX,STORE -19-04JUN90

TS219 -UN-23AUG88



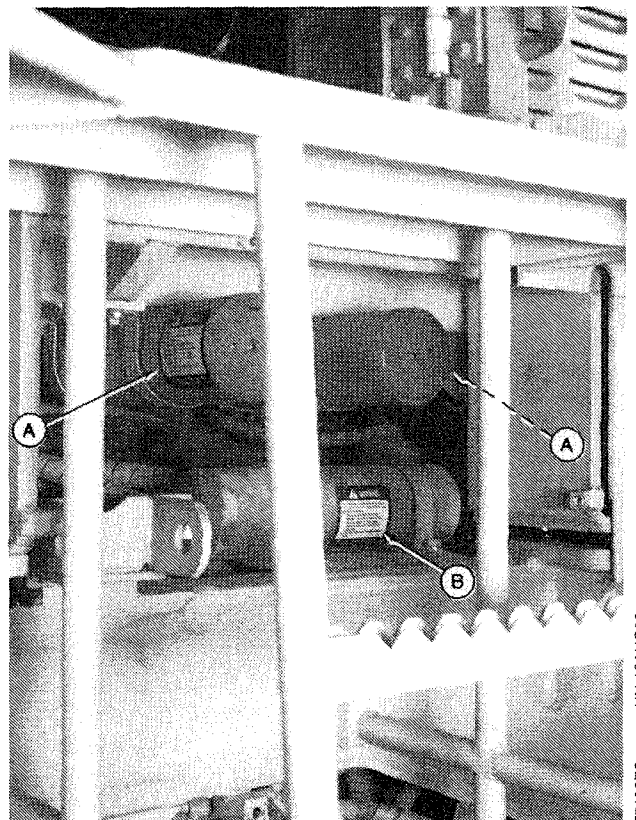
T123800

A-Accumulator Decal



T123801

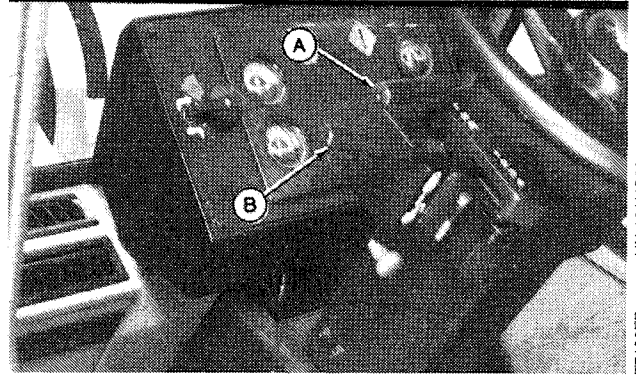
B-Accumulator Decal



TX,06,DH472 -19-27JUL89

Operator's Station

- A—Direction Selector Lever (F-N-R)
- B—Transmission Speed Selector Lever

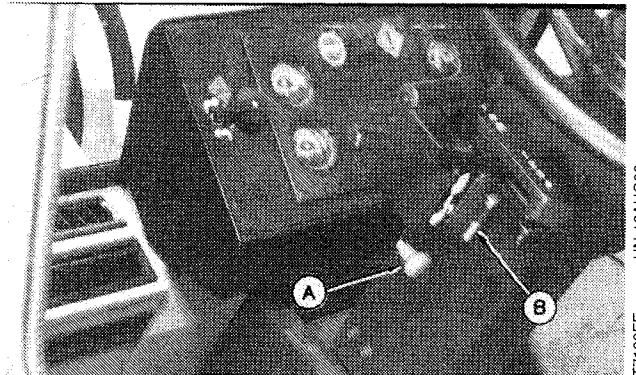


TX,10,DH499 -19-02AUG89

T7109FD -JUN-16AUG89

NEUTRAL LOCK LATCH

- A—Neutral Lock Latch
- B—3rd/4th Gear Lock Pin

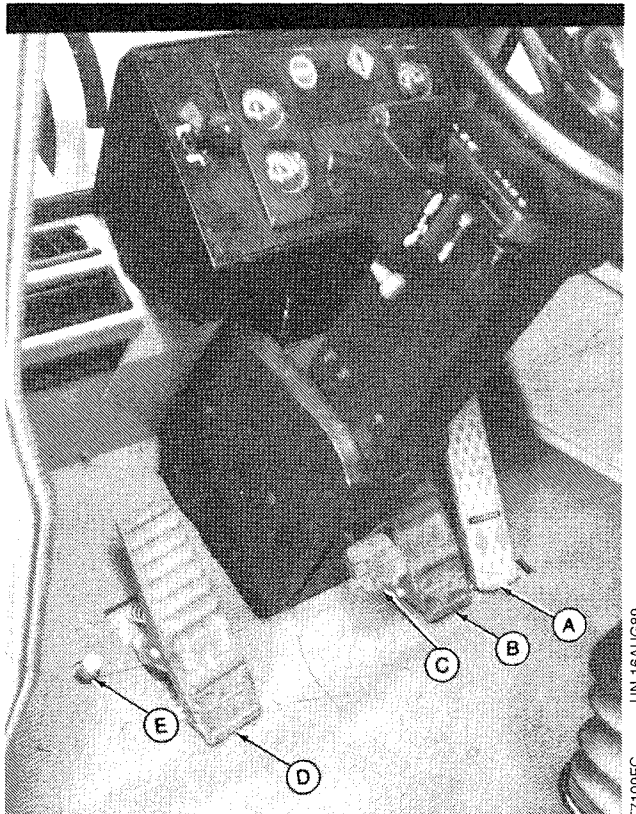


TX,10,DH500 -19-15FEB93

T7109FE -JUN-16AUG89

PEDALS

- A—Accelerator Pedal
- B—Right Brake Pedal
- C—Steering Column Tilt Pedal
- D—Left Brake/Clutch Cut-off Pedal
- E—Differential Lock/Downshift Pedal



TX,10,DH498 -19-02AUG89

T7109FC -JUN-16AUG89

Pre-Start Inspection

INSPECT MACHINE DAILY BEFORE STARTING

A-Check wheels (front and rear) for loose or missing hardware.

B-Clean operator's station.

C-Check precleaner or air inlet cover.

D-Clean radiator.

E-Check fuel level.

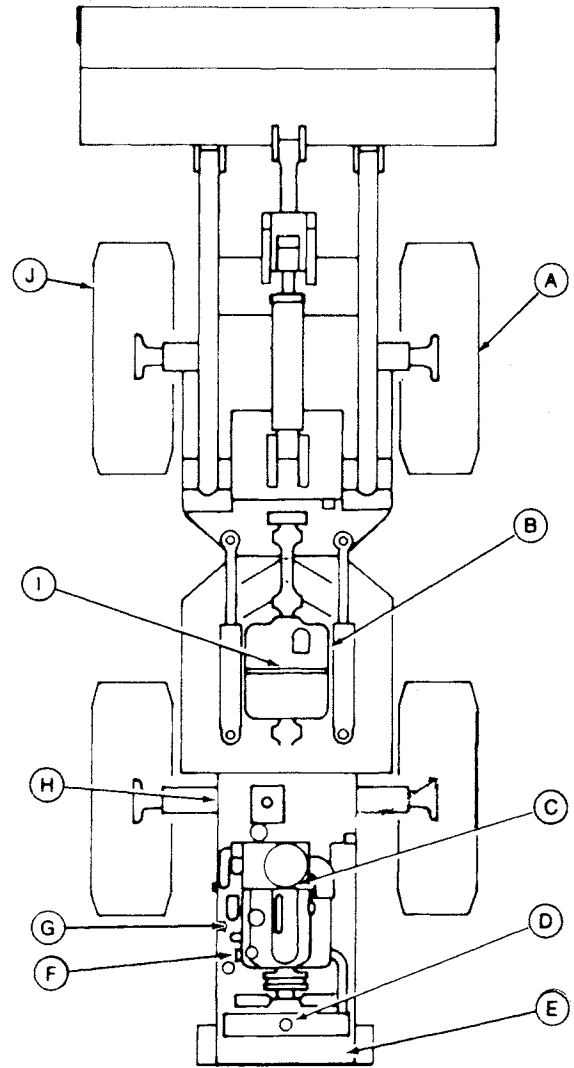
F-Check engine oil level.

G-Check coolant level.

H-Check hydraulic system oil level.

I-Check transmission oil level.

J-Check tires (front and rear).



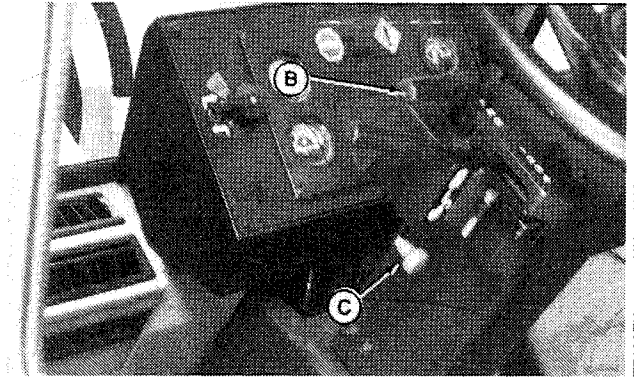
TX,20,DH1028 -19-15OCT92

T7299AK -JUN-15MAY90

USING NEUTRAL LOCK

⚠ CAUTION: Prevent possible injury. Always move direction selector lever (F-N-R) to neutral, and engage neutral lock before starting or dismounting.

Pull up neutral lock latch (C) to lock direction selector lever (B) in neutral "N". Push down neutral lock latch to unlock.



TX,30,DH502 -19-15OCT92

T7109FK -JUN-16AUG89

SHIFTING THE TRANSMISSION

NOTE: Transmission will not engage and park brake will not release unless park brake switch is moved to engaged and then disengaged position each time engine is started.

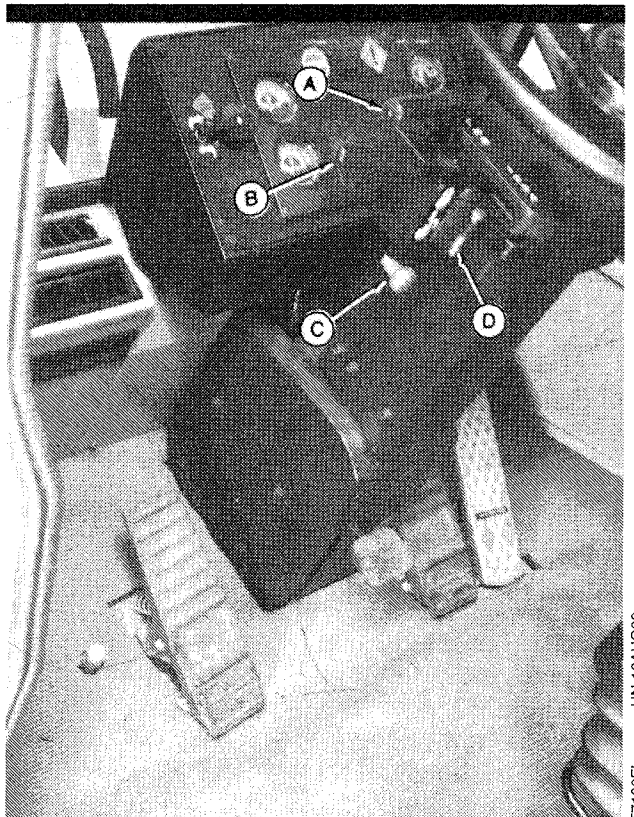
Push down neutral lock latch (C).

Change direction of machine by moving direction selector lever (A) to forward "F" or reverse "R" position.

Change speed of machine by moving transmission speed selector lever (B) to desired speed. Machine has four forward speeds and four reverse speeds. Select a speed suitable to operating and road conditions.

IMPORTANT: DO NOT change forward and reverse directions at high speeds. Transmission damage may result.

Forward and reverse directions can be changed without stopping the machine. Do not change directions in 3rd or 4th speed when traveling above 14.5 km/h (9 mph). Push up 3rd/4th gear lock pin (D), if equipped, to lock transmission out of 3rd/4th gear.



- A—Direction Selector Lever (F-N-R)
- B—Transmission Speed Selector Lever
- C—Neutral Lock Latch
- D—3rd/4th Gear Lock Pin—If Equipped

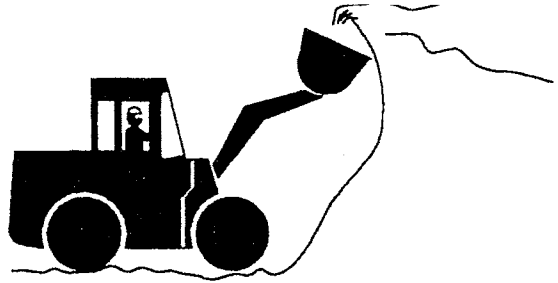
TX,30,DH1031 -19-26JAN93

T7109FL -JUN-16AUG89

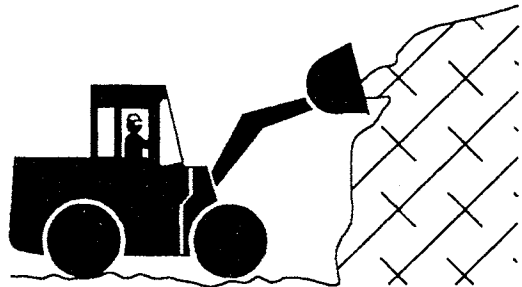
EXCAVATING BANKS OR STOCKPILES

⚠ CAUTION: Prevent possible injury from falling material. Remove overhanging material first from top of bank or stockpile .

Remove any overhang before starting to dig at the base of a bank or stockpile. This can be done with bucket.



Reduce bucket breakout force required when digging into a bank or stockpile of hard, dense, or tightly-packed material by working from the top of bank or stockpile to the bottom.



Normally, a bank or stockpile is excavated from the bottom and then up the side. Work the face of the bank or stockpile evenly to prevent outcroppings and overhangs.

Work bank or stockpile with machine at a 90° angle to the bank or stockpile.

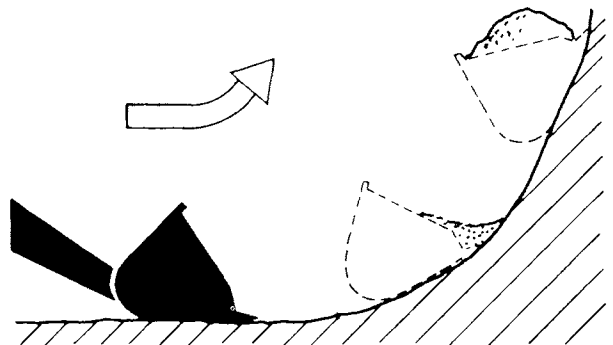
1. Position bucket on the ground in return-to-dig position.
2. Move transmission speed selector lever to 1st or 2nd gear depending on ground conditions.

In loose material, use 2nd gear for better traction. Use 1st gear for better bucket fill.

3. Move forward into the bank or stockpile.

NOTE: Use differential lock as necessary.

4. Raise and curl bucket as bucket fills.



-UN-19MAY92

T7747BE

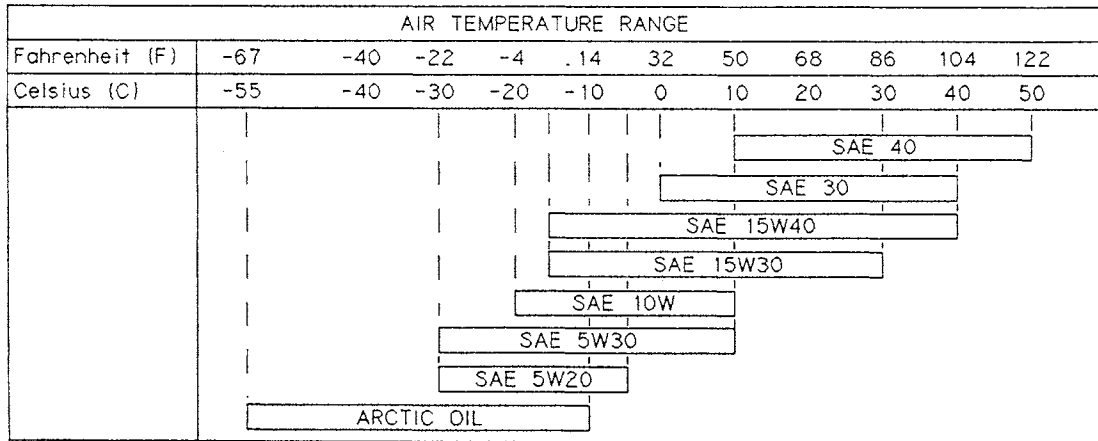
-UN-19MAY92

T7747BF

-UN-30JAN90

T7208AV

ENGINE OIL



T7396BK -19-19JUN91

Depending upon the expected air temperature range between oil changes, use oil viscosity shown on the temperature chart above.

Additives are not required nor recommended.

John Deere engine oil filters are highly recommended because they are of known high quality and effectiveness.

John Deere TORQ-GARD SUPREME PLUS 50® engine oil is recommended. It is a specifically balanced formulation to provide superior protection against oil thickening, carbon deposits, lacquer, and mechanical wear during high temperature operation.

John Deere TORQ-GARD SUPREME® engine oil is also recommended.

If other oils are used, the required specification is:

API Service Class CE or CD (1)
Military Spec MIL-L-2104D or MIL-L-2104C

Most oil containers or specifications list several API Service Classes (such as SC, SG, CE, CC) met by the oil. For the oil you use, either CE or CD must be among the classes listed.

NOTE: Oils meeting API Service Classes CE or CD are not always available in viscosity grades SAE 5W20, SAE 5W30, and Arctic Oils. For these viscosity grades only, the following oil specification may be used but the oil and filter change interval must be reduced to 125 hours.

API Service Class CC (MIL-L-46152B)
Military Spec MIL-L-46167A (arctic oil)

MAINTENANCE AND REPAIR RECORD KEEPING SYSTEM

The checklist on the following page summarizes scheduled maintenance, and parts and oil required at each maintenance interval.

Use the checklist to:

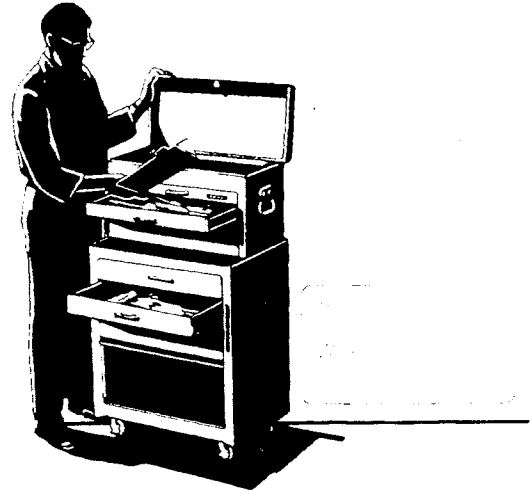
- Remind you to perform machine maintenance at specified intervals to minimize downtime.
- Calculate cost of machine operation and ownership allowing you to make better job estimates.
- Place yourself in a stronger position at trade-in time.
- Satisfy your SECURE contract requirements.

As maintenance is performed, check off each item on the list and record date and hour meter reading. Use the second (perforated) copy of this form (immediately preceding the Service Literature order form inside the back cover).

Do not tear out or mark on Checklist in the Periodic Maintenance chapter; keep it to make extra copies.

MARKS

MAINTENANCE AND REPAIR RECORD KEEPING SYSTEM FOR JOHN DEERE MACHINE OWNERS



TX,50,FF2898 -19-30JUL92

T7511CO -UN-27JUN91

DRAIN FUEL TANK SUMP

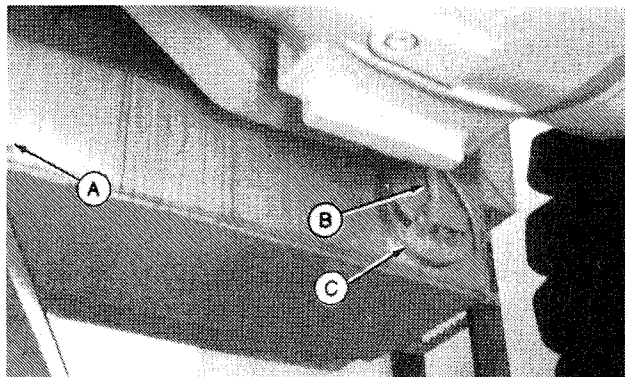
1. Remove fuel cap.

SPECIFICATION

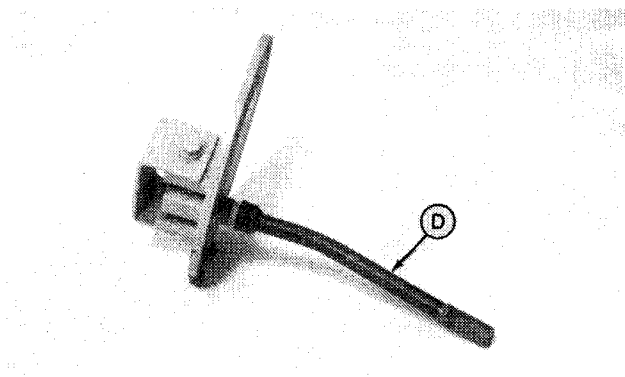
Fuel tank capacity 330 L (87 gal)

2. Remove drain plug (A) and drain water and sediment.
3. Remove hose (B) and cap screws holding fuel tank strainer assembly (C) on left front side of fuel tank.
4. Clean strainer (D) with clean solvent or diesel fuel.
5. Flush debris from fuel tank.
6. Install plug, fuel strainer, and fuel cap.
7. Add fuel.

- A—Drain Plug
- B—Hose
- C—Strainer Assembly
- D—Strainer



T7121AD -JN-31AUG89



T7114AW -JN-31AUG89

TX,60,RR,351 -19-15FEB93

CLEAN FUEL INLET STRAINER

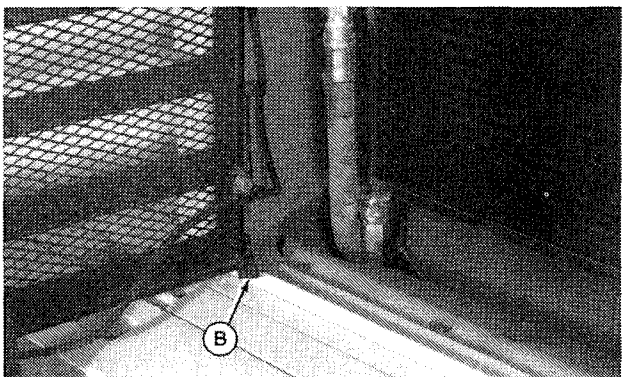
1. Open grille door.

⚠ CAUTION: Prevent possible injury from door closing. Always keep grille door in locked open position when servicing radiator area.

2. Push down on latch (A) to open grille door.
3. Rotate stop (B) down to hold door open.
4. Remove fuel tank filler cap.



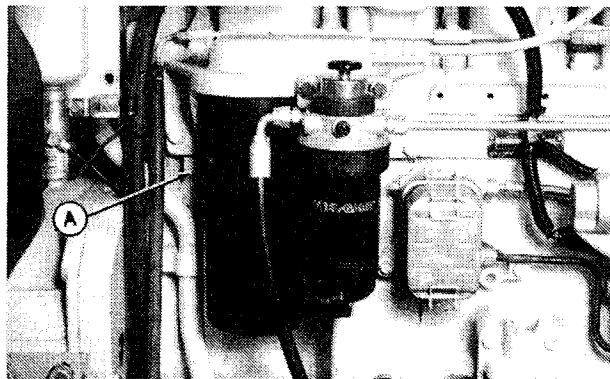
T7109BJ -JN-16AUG89



T7109CG -JN-16AUG89

TX,55,RR,302 -19-20JUL92

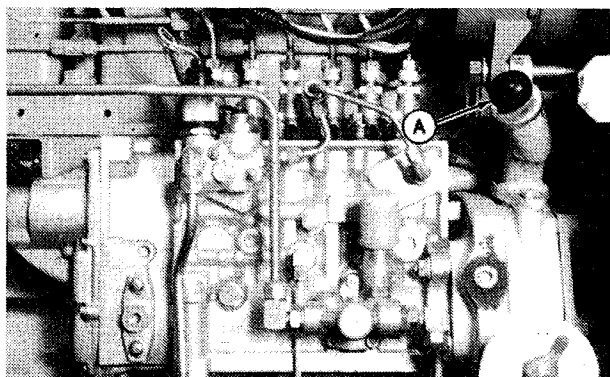
8. Turn filter (A) counterclockwise to remove.
9. Clean mounting surface. Apply thin film of oil to gasket of new filter.
10. Install new filter. Turn filter clockwise by hand until gasket touches mounting surface.
11. Tighten 1/2 to 3/4 turn more.
12. Install drain plug.



TX,75,DH2364 -19-04DEC92

T7899AJ -UN-10DEC92

13. Remove filler cap (A).
14. Fill engine with oil. (See Fuels and Lubricants chapter.)
15. Install filler cap.
16. Start engine and run at slow idle.
17. Check that engine oil pressure light on monitor goes out and alarm stops immediately. If not, stop engine immediately and find cause.
18. Stop the engine. Check oil level.
19. Check for any leakage at filter. Tighten filter just enough to stop leakage.



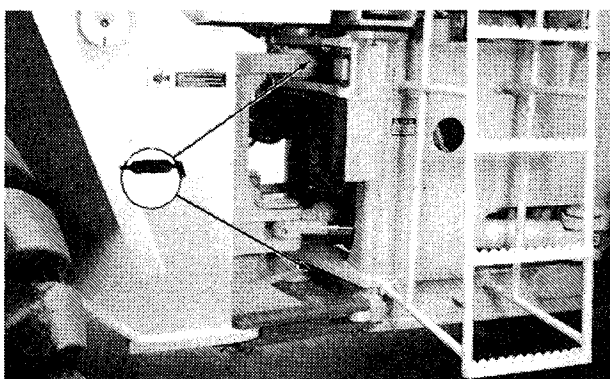
TX,75,DH2365 -19-15FEB93

T7899AK -UN-10DEC92

LUBRICATE FRAME HINGE PIVOTS

⚠ CAUTION: Prevent possible injury from unexpected machine movement. Install frame locking bar before lubricating.

Lubricate each point with three shots of grease. (See Fuels and Lubricants chapter.)



TX,75,DH2696 -19-02FEB93

T7939AD -UN-08FEB93

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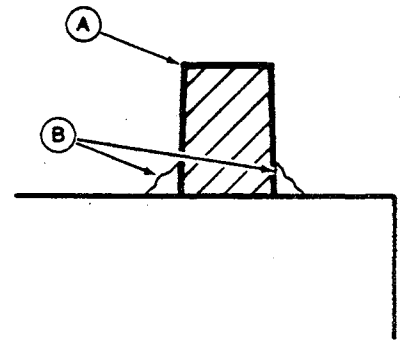


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⚠ CAUTION: Prevent possible injury. ALWAYS remove grounded (-) battery clamp first and replace it last.

3. Disconnect battery clamps, grounded clamp first.
4. Clean battery terminals (A) and clamps with a stiff brush.
5. Apply lubricating grease (B) around battery terminal base only.
6. Install and tighten clamps, grounded clamp last.



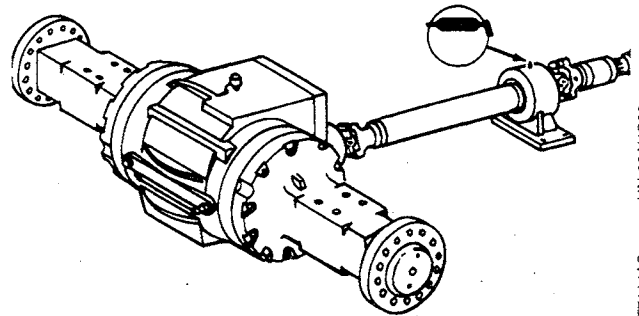
T6758AA -UN-21OCT88

TX,75,DH1575 -19-15FEB93

LUBRICATE FRONT DRIVELINE SUPPORT BEARING

⚠ CAUTION: Prevent possible injury from unexpected machine movement. Install frame locking bar before lubricating.

Lubricate until grease escapes around seal. (See Fuels and Lubricants chapter.)



One Point

T7114AS -UN-23AUG89

TX,DH,72 -19-24JUL91

Maintenance—Every 2000 Hours

ADJUST ENGINE VALVE LASH (CLEARANCE)

1. Remove air inlet cover, hood, air cleaner support with starting aid and air cleaner, and engine crankcase vent tube.
2. Plug all openings.
3. Check crankcase vent tube for restriction. Clean with solvent or diesel fuel.
4. Remove rocker arm cover.
5. Remove plugs. Install JDE-81-1 Flywheel Turning Tool (A) and JDE-81-4 Timing Pin (B).
6. Rotate flywheel until timing pin fits into hole in flywheel.

TX,85,FR,327 -19-15OCT92

7. Try to move both pushrods at number one cylinder. If both are loose, proceed with adjustment per chart on No. 1 TDC. If both pushrods at number six are loose, proceed with adjustment per chart on No. 6 TDC.

03T,85,MM20 -19-11JUL87

CHECKING ELECTROLYTE SPECIFIC GRAVITY

⚠ CAUTION: Battery gas can explode. Keep sparks and flames away from batteries. Use a flashlight to check battery electrolyte level.

Never check battery charge by placing a metal object across the posts. Use a voltmeter or hydrometer.

Always remove grounded (-) battery clamp first and replace it last.

Sulfuric acid in battery electrolyte is poisonous. It is strong enough to burn skin, eat holes in clothing, and cause blindness if splashed into eyes.

Avoid the hazard by:

1. Filling batteries in a well-ventilated area.
2. Wearing eye protection and rubber gloves.
3. Avoiding breathing fumes when electrolyte is added.
4. Avoiding spilling or dripping electrolyte.
5. Use proper jump start procedure.

If you spill acid on yourself:

1. Flush your skin with water.
2. Apply baking soda or lime to help neutralize the acid.
3. Flush your eyes with water for 10—15 minutes. Get medical attention immediately.

If acid is swallowed:

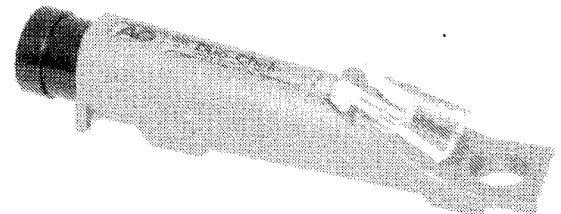
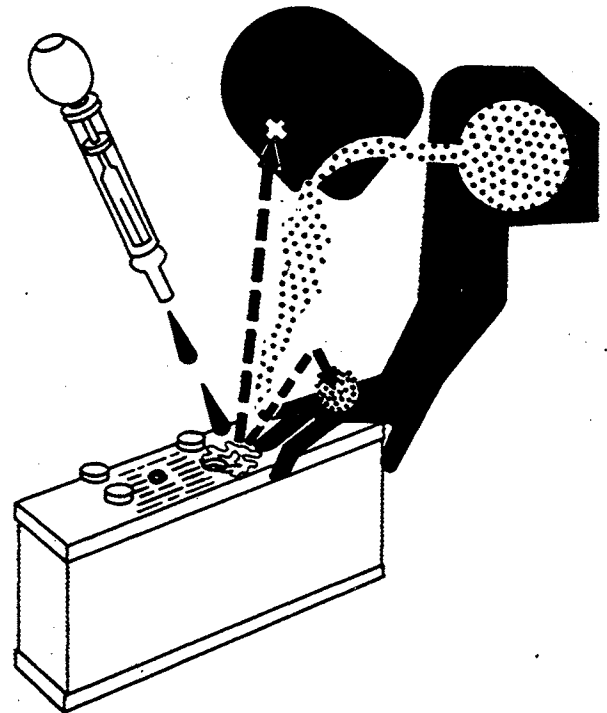
1. Drink large amounts of water or milk.
2. Then drink milk of magnesia, beaten eggs, or vegetable oil.
3. Get medical attention immediately.

Check the specific gravity of electrolyte in each battery cell.

See your John Deere dealer for JT05460 SERVICE-GARD™ battery and coolant tester. Follow directions included with the tester.

A fully charged battery will have a corrected specific gravity reading of 1.260. If the reading is below 1.200, charge the battery.

NOTE: In tropical areas, use 1.225 for the full charge reading. In cold areas, use 1.280 for the full-charge reading.



TS204 -UN-23AUG88

TS203 -UN-23AUG88

TS202 -UN-10NOV88

CHECKING SECONDARY STEERING SYSTEM—IF EQUIPPED

1. Park machine on a level surface.
2. Shut off engine. Release brakes.
3. Momentarily turn key switch to START position, but DO NOT start the engine. Release key to ON position.
4. The secondary steering motor must be heard running. Secondary steering indicator must light and audible alarm must sound.
5. Turn steering wheel; Machine should turn partway. Machine will not turn fully when machine is stopped.
6. Start engine. Secondary steering motor, secondary steering indicator and alarm must be off within 3 seconds.

TX,90,DH513 -19-20JUL92

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 John Deere dealer.

T82,EXMA,BJ -19-08FEB93

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

Operational Checkout

OPERATIONAL CHECKOUT

Use this procedure to check all systems and functions on the machine. It is designed so you can make a quick check of machine operation while doing a walk around inspection and performing specific checks from the operator's seat.

Should you experience a problem with your machine, you will find helpful diagnostic information in this checkout that will pinpoint the cause. This information may allow you to perform a simple adjustment yourself which will reduce the down time of your machine. Use the table of contents to help find adjustment procedures.

The information you provide after completing the operational checkout will allow you or your authorized dealer to pinpoint a specific test or repair needed to restore the machine to design specifications.

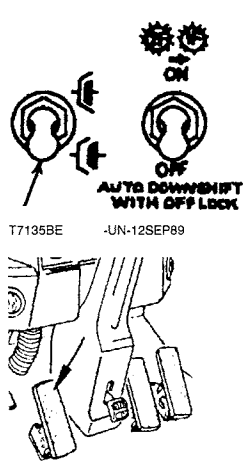
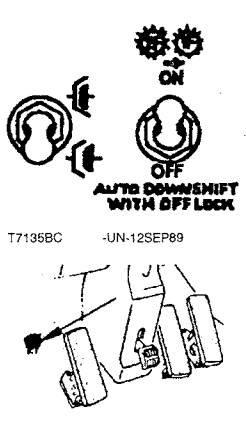
A location will be required which is level and has adequate space to complete the checks. No tools or equipment are needed to perform the checkout.

Complete the necessary visual checks (oil levels, oil condition, external leaks, loose hardware, linkage, wiring, etc.) prior to doing the checkout. The machine must be at operating temperature for many of the checks.

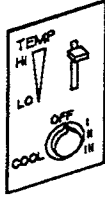
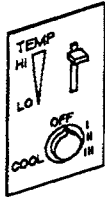
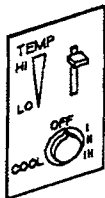
Start at the top of the left column and read completely down column before performing check. Follow this sequence from left to right. In the far right column, if no problem is found, you will be instructed to go to next check. If a problem is indicated, you will be referred to either a section in this manual or to your authorized dealer for repair.

TX,95,DH,309 -19-16AUG91

Operational Checkout

<p>CLUTCH CUT-OFF CHECK</p>	 <p style="font-size: small;">T7135BE -UN-12SEP89</p> <p style="font-size: small;">T7870AP -UN-12NOV92</p>	<p>Push clutch cut-off switch down to disengaged position.</p> <p>Drive machine at 1/2 speed in 1st gear forward.</p> <p>Slowly depress left brake pedal until machine stops.</p> <p>Increase engine speed to fast idle.</p> <p><i>FEEL: Transmission must disengage smoothly when left brake pedal is depressed.</i></p> <p><i>Machine MUST NOT move when engine speed is increased to fast idle.</i></p> <p>Run engine at 1/2 speed.</p> <p>Slowly release left brake pedal.</p> <p><i>FEEL: Transmission must engage smoothly.</i></p>	<p>OK: Go to next check</p> <p>NOT OK: Go to your authorized dealer.</p>
<p style="font-size: x-small;">TX,95,DH2390 -19-04DEC92</p>			
<p>DOWNSHIFT MODE SELECTOR SWITCH CHECK</p>	 <p style="font-size: small;">T7135BC -UN-12SEP89</p> <p style="font-size: small;">T7870AR -UN-12NOV92</p>	<p>Move downshift mode selector switch to the ON position.</p> <p>Start engine.</p> <p>Operate machine in 2nd gear forward.</p> <p>Momentarily depress differential lock pedal.</p> <p><i>FEEL: Machine must downshift to 1st gear and remain in 1st gear.</i></p> <p>Shift transmission to reverse.</p> <p><i>FEEL: Machine must shift to 2nd gear reverse.</i></p> <p>Shift transmission to forward.</p> <p><i>FEEL: Machine must shift to 2nd gear forward.</i></p>	<p>OK: Go to next check</p> <p>NOT OK: Go to your authorized dealer.</p>
<p style="font-size: x-small;">TX,95,DH2391 -19-04DEC92</p>			

Operational Checkout

<p>HEATER/AIR CONDITIONER BLOWER CHECK—IF EQUIPPED</p>	 <p>T7135BH -UN-12SEP89</p>	<p>Turn blower switch knob to low, medium, and high speeds.</p>	<p><i>FEEL/LISTEN: Blower must have three speeds and OFF.</i></p>	<p>OK: Go to next check</p> <p>NOT OK: Check fuse. Go to your authorized dealer.</p> <p>TX,95,DH1075 -19-05NOV92</p>
<p>HEATER FUNCTIONAL CHECK</p>	 <p>T7135BH -UN-12SEP89</p>	<p>Open heater shut-off valve on water pump.</p> <p>Start engine. Run at fast idle.</p> <p>Wait 2 minutes.</p> <p>Turn heater control to maximum heat position.</p> <p><i>FEEL: Air from ducts must be warm.</i></p>		<p>OK: Go to next check</p> <p>NOT OK: Go to your authorized dealer.</p> <p>TX,95,DH2417 -19-29OCT92</p>
<p>AIR CONDITIONER FUNCTIONAL CHECK—CAB EQUIPPED</p> <p>Start engine and run at fast idle.</p>	 <p>T7135BH -UN-12SEP89</p>	<p>Move air conditioner lever up to maximum COOL setting.</p> <p>Turn blower fan to high speed.</p>	<p>Wait for any warm air in duct system to dissipate.</p> <p><i>FEEL: Air from ducts must be cool.</i></p>	<p>OK: Go to next check</p> <p>NOT OK: Go to your authorized dealer.</p> <p>TX,95,DH2418 -19-29OCT92</p>
<p>STARTING AID SYSTEM CHECK</p>	<p>Start engine and run at slow idle.</p> <p>Momentarily push start aid button.</p>	<p><i>LISTEN: Engine speed must increase slightly.</i></p>		<p>OK: Go to next check</p> <p>NOT OK: Check for empty starting aid can. If OK, check fuse. Replace. Check switch and solenoid. Go to your authorized dealer.</p> <p>TX,95,DH2419 -19-04DEC92</p>

Troubleshooting

Symptom	Problem	Solution
	Engine running too cold.	Check thermostats. See your authorized dealer.
	Injection nozzle(s).	See your authorized dealer.
	Low compression.	Crank engine and listen for air leaking past valves. Start engine and observe blow-by from vent tube. See your authorized dealer.
	Excessive wear in liners and/or piston rings stuck.	Inspect and repair. See your authorized dealer.
	Worn valve guides.	Inspect and repair. See your authorized dealer.
Slow Acceleration	Incorrect grade of fuel.	Drain fuel tank and add correct fuel.
	Fuel injection pump.	See your authorized dealer.
	Injection nozzle(s).	See your authorized dealer.
Detonation	Starting aid solenoid stuck open.	Inspect and repair. See your authorized dealer.
	Incorrect injection pump timing.	See your authorized dealer.
	Incorrect injection pump advance.	See your authorized dealer.
Abnormal Engine Noise	Low or incorrect engine oil.	Add correct oil.
	Loose or worn dampener drive.	Inspect and repair. See your authorized dealer.
	Engine oil diluted with fuel.	Inspect engine oil. Inspect fuel pump spindle, seal, and housing.
	Incorrect fuel injection pump timing.	See your authorized dealer.
	Turbocharger.	Remove air intake hose and check compressor wheel clearance between housing and wheel. Spin compressor wheel and check bearings. Repair turbocharger.
	Excessive valve clearance.	Adjust valve clearance. See Maintenance—Every 2000 Hours chapter.

Continued on next page

Troubleshooting

Symptom	Problem	Solution
Indicator Light in Monitor Display Does Not Work—Not During Bulb Check	Indicator switch for that function.	See your authorized dealer.
	Indicator light.	See your authorized dealer.
	Wiring harness.	See your authorized dealer.
Individual Light In Monitor Display Does Not Work—During Normal Operation and Bulb Check	Bulb.	Inspect and replace.
	Monitor display.	See your authorized dealer.
Alternator Indicator Light Stays On	Loose or glazed alternator belt.	Check belt. Replace if glazed, tighten if loose.
	Engine rpm low.	See your authorized dealer.
	Grounded indicator wire.	See your authorized dealer.
	Excessive electrical load from added accessories.	Remove accessories or install higher output alternator.
	Loose or corroded electrical connections on battery, ground strap, starter or alternator.	Inspect, clean, or tighten electrical connections.
	Alternator.	See your authorized dealer.
	Alternator relay.	See your authorized dealer.
	Alternator indicator light grounded.	See your authorized dealer.
Transmission Pressure Indicator Flashes When Transmission Is Shifted (No Time Delay in Monitor)	Partially shorted indicator switch.	See your authorized dealer.
	Wrong logic module installed.	See your authorized dealer.
Horn Not Working	Fuse.	Replace fuse.
	Horn switch.	See your authorized dealer.
	Horn relay.	See your authorized dealer.
	Horn.	See your authorized dealer.
Fuel Gauge Does Not Work	Fuse.	Replace Monitor and Gauge fuse.

Continued on next page

Troubleshooting

Symptom	Problem	Solution
		Remove and inspect. See your authorized dealer.
Slow Steering Wheel Movement Will Not Cause Any Frame Movement	Leakage in steering system.	See your authorized dealer.
	Worn steering valve gerotor.	See your authorized dealer.
Steering Wheel Can Be Turned With Frames Against Steering Stop NOTE: If steering wheel is turned slowly, wheel rotation is normal	Leakage in steering system.	See your authorized dealer.
	Low crossover relief valve pressure setting.	See your authorized dealer.
Steering Wheel Turns With No Resistance and Causes No Frame Movement	Broken steering column or splined coupling.	See your authorized dealer.
	Lack of oil in steering valve.	Start engine and check steering operation.
	Leakage in steering system.	See your authorized dealer.
	Steering valve malfunction.	See your authorized dealer.
Erratic Steering	Air in oil.	Check for foamy oil.
	Low oil level.	Add oil.
	Sticking priority valve spool.	See your authorized dealer.
	Loose cylinder piston.	See your authorized dealer.
	Damaged steering valve.	See your authorized dealer.
Spongy or Soft Steering	Air in oil.	Check for foamy oil.
	Low oil level.	Add oil.
Free Play At Steering Wheel	Loose steering wheel nut.	Tighten.
	Worn or damaged splines on steering column or valve.	See your authorized dealer.
Steering Valve Binding or Steering Wheel Does Not Immediately Return To Neutral When Released	Binding in steering column or misalignment of column.	See your authorized dealer.

Continued on next page

Troubleshooting

Symptom	Problem	Solution
	Warped differential lock disks and plates.	See your authorized dealer.
Differential Overfilled With Oil	Differential lock pressure oil leaking at piston seals, capture seals, or around differential bearing cup (front only).	See your authorized dealer.
	Brake piston seals leaking.	See your authorized dealer.
Excessive Differential And/Or Axle Noise	Low oil level in differential.	Check oil. Remove drain plug and inspect for metal particles in differential case. See your authorized dealer.
	Brakes dragging.	See your authorized dealer.
	Pinion bearing.	See your authorized dealer.
	Gear mesh pattern between ring and pinion gear incorrect.	See your authorized dealer.
	Differential pinion gears and/or shafts.	Remove differential housing drain plug and inspect for metal particles. See your authorized dealer.
	Axle bearing.	See your authorized dealer.
	Axle planetary.	See your authorized dealer.
Oil Seeping From Outer Axle Seal	Excessive axle end play.	See your authorized dealer.
	Worn outer bearing and/or cup.	See your authorized dealer.
	Differential overfilled with oil.	See your authorized dealer.
	Internal axle seal worn or damaged.	See your authorized dealer.

TX,100,DH2431 -19-29OCT92

Specifications

Brakes, Service:

Power-actuated, 4-wheel, inboard-mounted, wet disk
Foot-operated by either pedal

Brakes, Park:

Dry discs on transmission. Engaged by springs.
Disengaged by hydraulic pressure.
Transmission disconnect with two level monitor warning.

Steering:

Full power. Frame articulated 80° by two hydraulic cylinders.
Turning radius (to centerline of outside tire) 6.14 M (20 ft 2 in.)

Maximum Lift Capacity With Standard Equipment

Maximum height 9760 kg (21,517 lb)
Ground level 14 430 kg (31,813 lb)

TX,115,DH2580 -19-29OCT92

DRAIN AND REFILL CAPACITIES:

	Metric	U.S.
Cooling system	55 L	14.5 gal
Fuel tank	330 L	87 gal
Engine crankcase and filters	35 L	9 gal
Transmission case and filter	29 L	8 gal
Front differential	34 L	8.75 gal
Rear differential	34 L	8.75 gal
Hydraulic reservoir	160 L	42.5 gal

TX,115,DH1082 -19-15FEB93

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