



750B LT AND 850B LT CRAWLER TRACTOR



JOHN DEERE

OPERATORS MANUAL 750B LT AND 850B LT CRAWLER TRACTOR

OMT153078 K4 English

JOHN DEERE DUBUQUE WORKS
OMT153078 K4

LITHO IN THE U.S.A.
ENGLISH



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PARK MACHINE SAFELY

Before working on the machine:

- Park machine on a level surface.
- Lower equipment to the ground.
- Move transmission shift lever to neutral.
- Move park and brake lock lever to lock position.
- Run engine at 1/2 speed no load for 2 minutes.
- Move speed control lever to slow idle position.
- Turn key switch to OFF to stop engine. (If maintenance must be performed with engine running, do not leave machine unattended.)
- Remove key from switch.
- Release hydraulic pressure by moving control lever until equipment does not move.
- Attach a "Do Not Operate" tag on the metal loop at the top of the instrument panel.
- Turn battery disconnect switch off.
- Allow engine to cool.

TX,05,FF2232 -19-03JAN91

KEEP RIDERS OFF MACHINE

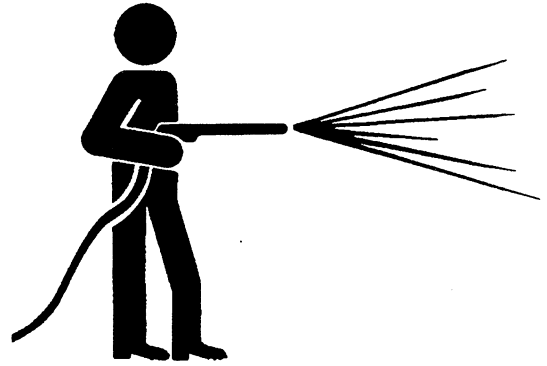
Only allow the operator on the machine. Keep riders off.

Riders on machine are subject to injury such as being struck by foreign objects and being thrown off of the machine. Riders also obstruct the operator's view resulting in the machine being operated in an unsafe manner.

02T,05,J44 -19-19JAN88

CLEAN THE MACHINE REGULARLY

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



T82,FLSA,AC -19-07JAN91

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.

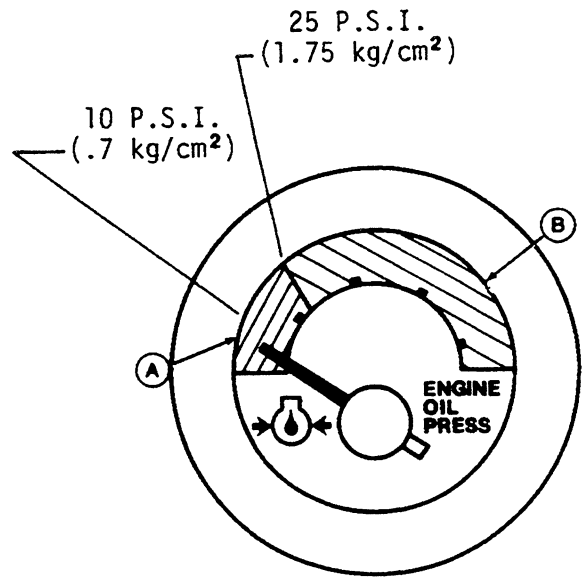


DX,STORE -19-03MAR93

TS219 -UN-23AUG88

ENGINE OIL PRESSURE GAUGE

A—Red Zone
B—Green Zone

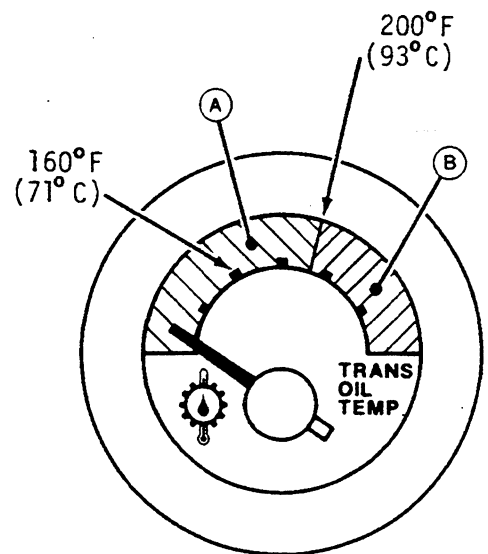


02T,25,C115 -19-23OCT91

T7640AM -UN-25OCT91

TRANSMISSION OIL TEMPERATURE GAUGE

A—Green Zone
B—Red Zone



T82,CROE,CV -19-23OCT91

T7640AP -UN-25OCT91

BETWEEN THE FIRST 50 TO 100 HOURS

1. Perform 10 hours and 100 hours service. (See Maintenance—Every 10 Hours or Daily and Maintenance—Every 100 hours chapters.)
2. Change hydraulic reservoir oil filter. (See Maintenance—Every 500 Hours chapter.)
3. Check hardware torque.
4. Change transmission oil filter. (See Maintenance—Every 500 Hours.)
5. Perform 50 hour service. (See Maintenance—Every 50 Hours chapter.)
6. Change engine oil and filter(s). (See Maintenance—Every 200 Hours chapter.)

TX.15,RR4523 -19-01SEP94

STOPPING THE ENGINE

IMPORTANT: Prevent possible engine damage. If engine stops when operating under load, remove load. Restart engine immediately. Run for 30 seconds at 1/2 speed before adding load.

1. Park the machine on a level surface.
2. Lower all equipment to the ground.
3. Move FNR lever (A) to neutral position.

⚠ CAUTION: Prevent possible injury from unexpected machine movement. Never rely on FNR lever alone to keep machine from moving. Machine can unexpectedly roll or move under power, resulting in death or serious injury. Always engage park brake, by locking neutral lock lever, to hold machine.

4. Move neutral lock lever to LOCKED position (C).
5. Engage park brake lock.

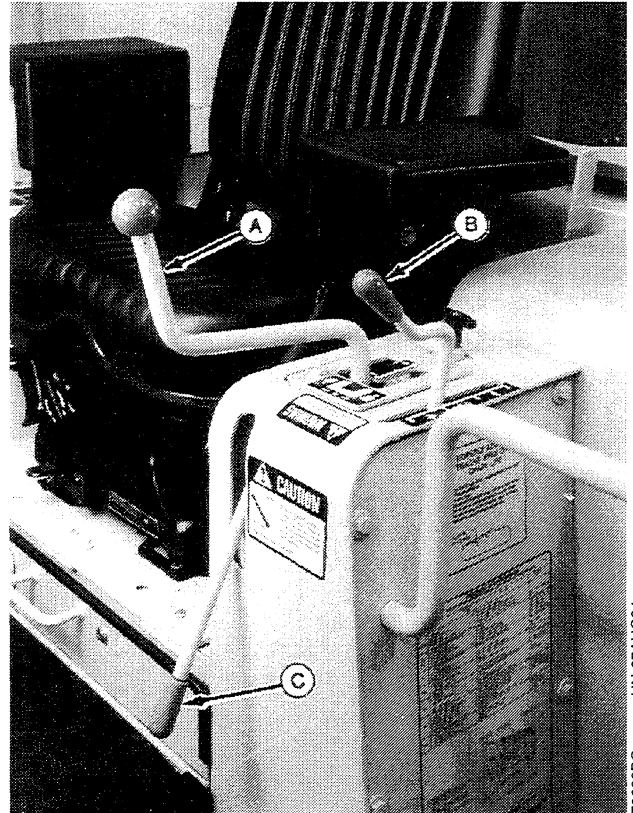
IMPORTANT: Turbocharger may be damaged if engine is not properly shut down.

6. Run engine at 1/2 speed without load for 2 minutes.
7. Move speed control lever to slow idle position.
8. To stop engine:

750B Turn key switch to OFF

850B: Pull manual fuel shut-off knob out. After engine stops, push knob all the way down.

9. Remove key from switch.
10. Release hydraulic pressure by moving control lever(s) until equipment does not move.



T8262B0 -UN-27AUG94

OPERATING SUGGESTIONS

Select the engine RPM and ground speed to meet your needs.

Consider the ground conditions, operating area, work load and grade desired in making your speed selection.

Know your machine, its capabilities and its limits.

T82,CROM,O -19-07JUN91

OPERATING TIPS

When blade digs in and rear of tractor rises, raise blade to continue even cut.

When a heavy load causes reduced travel speed, shift to a lower gear and/or raise the blade slightly.

Angle the blade to:

- Fill a trench.
- Cut a road through a rough area.
- Side cast into a ditch.
- Level a grade.

Tilt the blade to:

- Cut into a hillside.
- Crown a road.
- Make a narrow cut or shallow ditch.
- Rough grade.

Use float position to:

- Back drag (transmission in reverse).
- Push material over a hard surface.

In float position, the blade will follow the contour of the ground.

When finishing or leveling, a partially loaded blade handles easier than an over-loaded or empty one.

Do not turn with ripper teeth in the ground. Teeth may bend or break.

02T,35,J42 -19-03AUG92

750B SHIPPING SPECIFICATIONS

Basic machine with ROPS, 18 in. (457 mm) shoes [34 in. (865 mm) shoes for Wide-Track and full fuel tank.

	Length	Width	Height	Weight
General-Purpose Crawler	12 ft 8 in. (3.86 m)	7 ft 8 in. (2.34 m)	10 ft 2 in. (3.1 m)	24,980 lb (11 330 kg)
6505 All-Hydraulic Dozer	16 ft 3 in. (4.94 m)	10 ft 9 in. (3.26 m)	10 ft 2 in. (3.1 m)	31,300 lb (14 200 kg)
without blade	12 ft 8 in. (3.86 m)	7 ft 8 in. (2.34 m)		
6520 Angledozer	15 ft 10 in. (4.82 m)	12 ft 6 in. (3.80 m)	10 ft 2 in. (3.1 m)	29,390 lb (13 330 kg)
without blade	12 ft 8 in. (3.86 m)	7 ft 8 in. (2.34 m)		
6525 Bulldozer	15 ft 8 in. (4.76 m)	10 ft (3.05 m)	10 ft 2 in. (3.10 m)	29,055 lb (13 180 kg)
without blade	12 ft 8 in. (3.86 m)	7 ft 8 in. (2.34 m)		
Wide-Track Bulldozer	15 ft 8 in. (4.76 m)	11 ft (3.35 m)	10 ft 2 in. (3.10 m)	31,375 lb (14 230 kg)
without blade	12 ft 8 in. (3.86 m)	9 ft (2.74 m)		
Narrow-Gauge Bulldozer	15 ft 8 in. (4.76 m)	8 ft 3 in. (2.50 m)	10 ft 2 in. (3.10 m)	29,239 lb (13 260 kg)
without blade	12 ft 8 in. (3.86 m)	6 ft 10 in. (2.08 m)		

Partial list of component weights to add to machines so equipped to obtain an approximate total weight:

Cab with A/C	527 lb (239 kg)	Tank protection	588 lb (267 kg)
Fixed drawbar	199 lb (90 kg)	Limb risers	281 lb (127 kg)
Swinging drawbar	533 lb (242 kg)	Left,right,¢er rear bumper	870 lb (395 kg)
Sprocket guard	64 lb (29 kg)	Roof extension	475 lb (215 kg)
Heavy-duty brush screen	191 lb (87 kg)	Center section rock guard	180 lb (82 kg)
Heavy-duty grille plate	118 lb (54 kg)	Perforated engine enclosure	121 lb (55 kg)
Heavy-duty bottom guards	280 lb (127 kg)	Hydraulic system for General-Purpose crawler	300 lb (136 kg)
Heavy-duty bottom guards for General-Purpose crawler	670 lb (304 kg)	20 in. (508 mm) shoes	218 lb (100 kg)
Upper tank guards	494 lb (224 kg)	22 in. (559 mm) shoes	436 lb (200 kg)
		24 in. (600 mm) shoes	654 lb (297 kg)

ALTERNATIVE AND SYNTHETIC LUBRICANTS

Conditions in certain geographical areas may require lubricant recommendations different from those printed in this manual. Some John Deere lubricants may not be available in your location. Consult your John Deere dealer to obtain information and recommendations.

Synthetic lubricants may be used if they meet the performance requirements listed in this manual.

DX,ALTER -19-01FEB94

MIXING OF LUBRICANTS

In general, avoid mixing different brands or types of oil. Oil manufacturers blend additives in their oils to meet certain specifications and performance requirements. Mixing different oils can interfere with the proper functioning of these additives and degrade lubricant performance.

DX,LUBMIX -19-01FEB94

CHECK TRACK SAG

PROPER TRACK SAG ADJUSTMENT

Maintaining the proper amount of track sag 51 mm (2 in.) is the single most important adjustment the operator can make. Tight tracks can reduced the amount of wear life by more than 50% over tracks which are properly maintained at 51 mm (2 in.) of sag. Tight tracks increase the loading on the undercarriage components and accelerate the wear rate. Track sag should be adjusted as the soil conditions change. (See TRACK SAG GENERAL INFORMATION in this manual.)

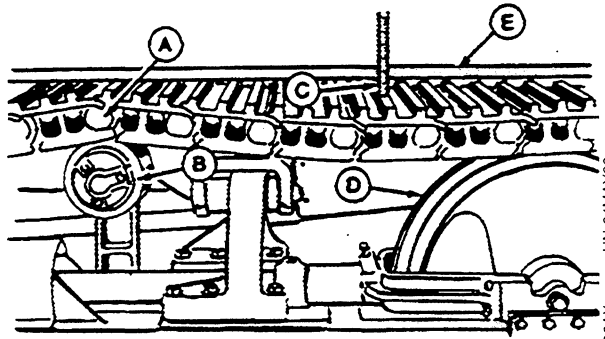
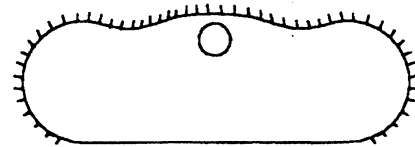
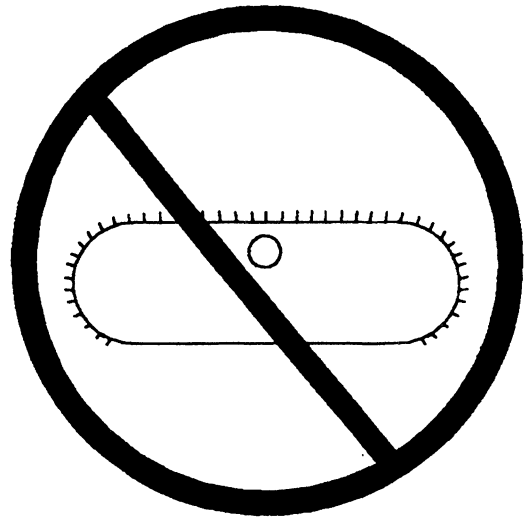
1. Allow machine to slowly roll forward to a stop to position track pin (A) centered over the carrier roller (B).
2. Measure track sag (C) from top of track grouser to a straight-edge (E):

SPECIFICATION

Track sag 51 ± 6 mm (2 ± 0.250 in.)

If adjustment is needed, see Adjusting Track Sag in this chapter.

- A—Pin and Bushing
- B—Carrier Roller
- C—Track Sag
- D—Front Idler
- E—Straight Edge



-UN-31JUL92

T7800AH

-UN-24MAY89

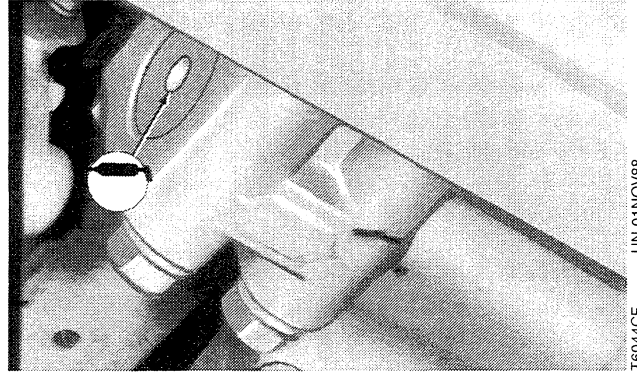
T6482AX

TX,55,RR4458 -19-28JUL94

Maintenance—Every 50 Hours

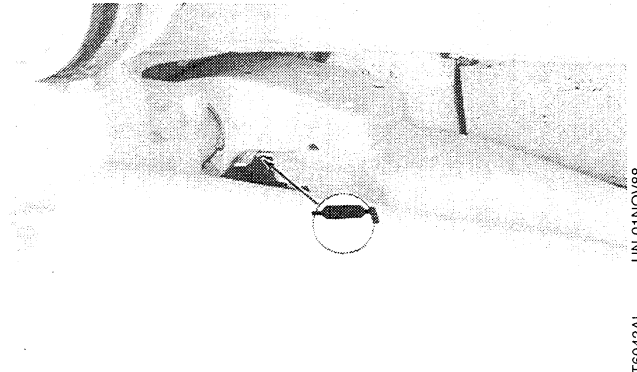
GREASE LEFT AND RIGHT TRACK FRAME PIVOT—EARLIER MACHINES

1. For 750B Crawler Dozer, remove rear bottom guard extensions for access to grease fittings.
2. Apply grease through grease fitting (2 points) until it escapes from joints.



750B Crawler Dozer

-UN-01NOV88
T6044CF



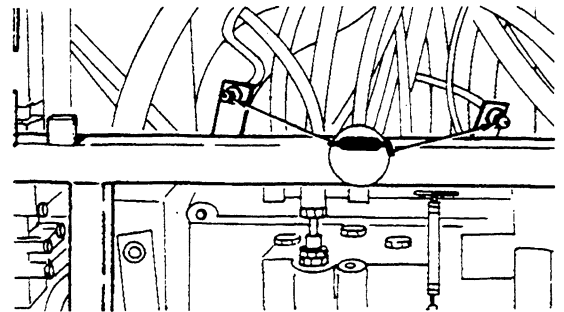
850B Crawler Dozer

03T,80,C40 -19-01SEP94

-UN-01NOV88
T6043AI

GREASE LEFT AND RIGHT TRACK FRAME PIVOT—LATER MACHINES

1. Lift floor plate.
2. Lubricate until grease escapes from joints. (See Fuels and Lubricants chapter.)



Two Points

03T,65,C20 -19-01SEP94

-UN-01NOV88
T6732AB

ADD COOLANT CONDITIONER TO COOLANT

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

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. Coolant conditioner prevents rust, scale, and liner cavitation.

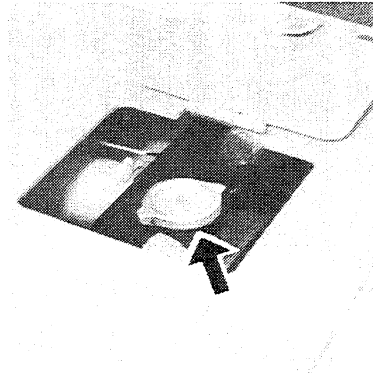
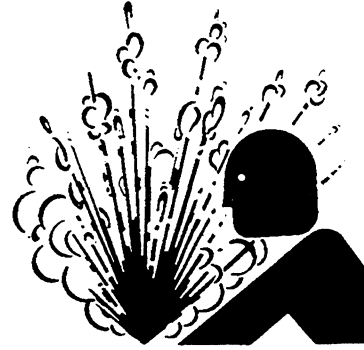
DO NOT add John Deere liquid coolant conditioner to a cooling system already equipped with an operational filter conditioner system. Too much conditioner in a cooling system may cause silicate-dropout. When this happens, a gel-type deposit is created which can restrict coolant passages in the radiator and engine, resulting in engine overheating.

1. Loosen cap slowly to the stop. Remove cap.
2. Add TY16004 John Deere Coolant Conditioner or equivalent non-chromatic conditioner/rust inhibitor, following instructions on container.

SPECIFICATION

Cooling system capacity 7 gal (26.5 L)

3. Install cap.



TS281 -JUN-23AUG88

T78211 -JUN-01NOV88

4. Measure and adjust valve clearances as indicated with No. 1 or No. 6 piston at TDC:

To get remaining piston to TDC and adjust valve clearances, turn flywheel one revolution (360°) making sure timing pin engages hole in flywheel.

SPECIFICATION

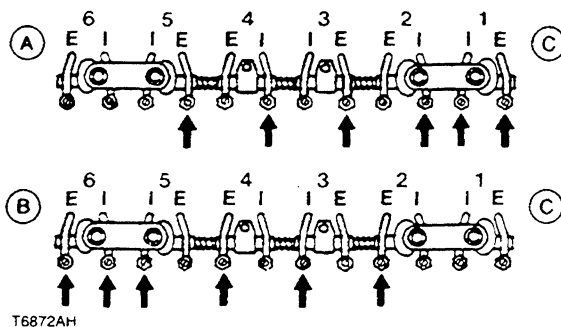
Exhaust Valves (E)	0.71 mm (0.028 in.)
Intake Valves (I)	0.46 mm (0.018 in.)

5. Remove flywheel turning tool and timing pin. Install the covers.

6. Clean old gasket from head and rocker arm cover. Install a new gasket.

7. Install cover and cap screws. Tighten cap screws to 2.8 N.m (25 lb-in.).

8. Install all parts that were removed.



A—No. 1 TDC Compression Stroke
 B—No. 6 TDC Compression Stroke
 C—Fan End of Engine

TX,85,FF573 -19-01SEP94

CHECK ENGINE SPEEDS

1. Warm engine to normal operating temperature.
2. Check speeds using a tachometer. Clutch must be engaged.

750B ENGINE SPEEDS SPECIFICATION

Slow Idle	975—1000 rpm
Fast Idle	2280—2300 rpm

850B ENGINE SPEEDS SPECIFICATION

Slow Idle	975—1000 rpm
Fast Idle	1900—1940 rpm

If adjustment is necessary, see your John Deere dealer.

T82,CRPM,MO -19-05JUN91

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DO NOT CHANGE INJECTION PUMP

IMPORTANT: Never steam clean or pour cold water on an injection pump while the pump is running, or while it is still warm. To do so may cause seizure of pump parts.

Clean trash regularly from under injection pump.

Changing the injection pump in any way not approved by the manufacturer will end the warranty. (See your copy of the John Deere warranty on this machine.)

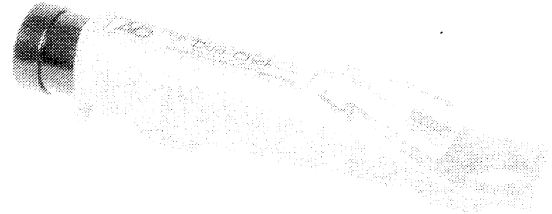
Do not service an injection pump that is not operating correctly. (See your authorized injection pump service center.)

04T,90,C83 -19-16AUG93

TEST THE COOLANT FREEZE—PROTECTION LEVEL

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

If you operate your engine in extremely cold temperatures, see your John Deere dealer for information on arctic operation.



T85-402 -JUN-10/NOV/88

T82,EXMA,CK -19-28JUL94

ENGINE COLD WEATHER WARM-UP

NOTE: If hydraulic oil is cold, hydraulic functions move slowly. Do not attempt machine operations until hydraulic functions move at close-to-normal cycle times.

In extremely cold conditions, an extended warming up period will be necessary. Under such conditions, reverse direction of blower fan to maintain correct running temperature.

Avoid sudden operation of hydraulic functions until engine is thoroughly warmed up. Remove ice, snow, and mud before operation.

1. Run engine at 1/2 speed for five minutes.
2. Cycle all hydraulic functions to distribute warmed oil until all functions operate freely.

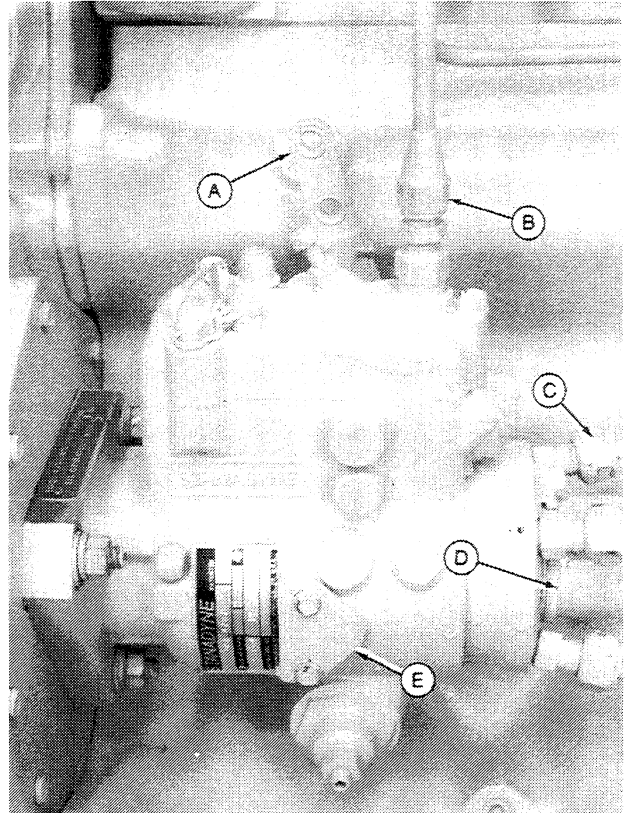
02T,25,M119 -19-08JAN91

IMPORTANT: When tightening fuel pressure lines at fuel injection pump, be sure not to turn fuel injection pump fittings. Turning of these fittings may cause internal pump damage.

6. Tighten fuel pressures lines (C) at pump to 27 N.m (20 lb-ft) using JDF-22 Wrench.

7. Install fuel shut-off connector, speed control cable (A), fuel supply line (D), and fuel return line (B).

- A—Speed Control Cable
- B—Fuel Return Line
- C—Fuel Pressure Line
- D—Fuel Supply Line
- E—Timing Window Cover



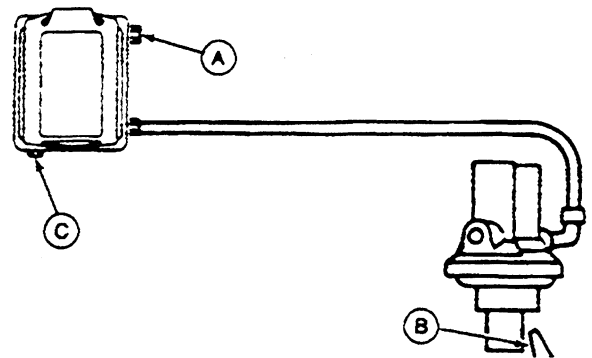
TX,90,FF2305 -19-05JUN91

8. Check drain screw (C) to be sure it is tight.

9. Loosen fuel filter bleed screw (A).

10. Operate primer lever (B) until only fuel flows out of bleed screw. Tighten screw.

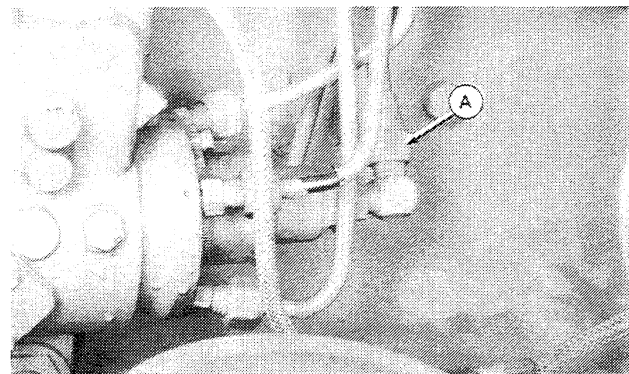
NOTE: If there is no fuel flow, push primer lever toward engine; turn crankshaft using starting motor to reposition camshaft.



TX,90,FF2306 -19-05JUN91

11. Loosen fuel supply line connection (A).

12. To purge air from filter to injection pump line, continue to operate primer lever several times or operate primer lever until only fuel flows out of connection. Tighten connection.



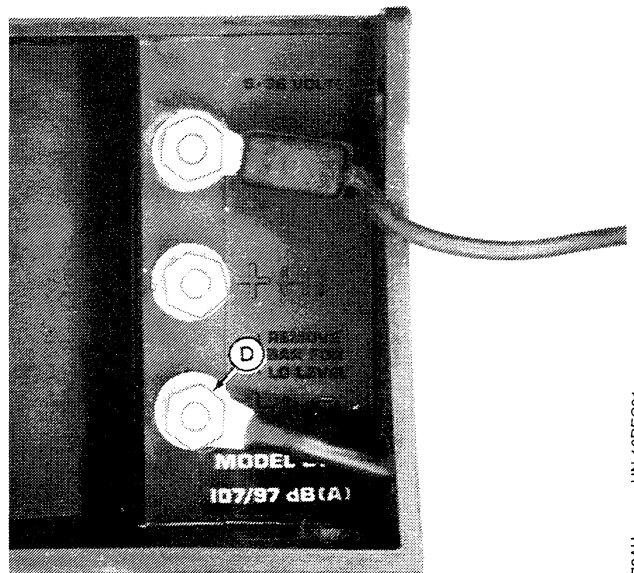
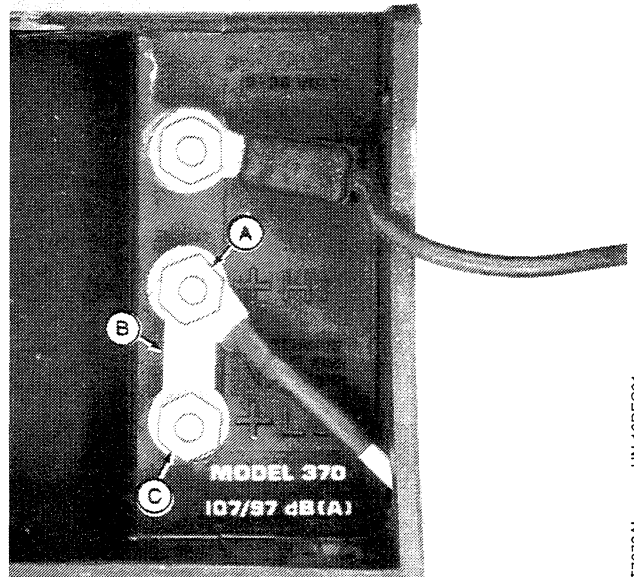
TX,90,FF2307 -19-05JUN91

CHANGE REVERSE WARNING ALARM VOLUME

IMPORTANT: The reverse warning alarm is set on high volume at the factory. It may be necessary to adjust the volume to meet local regulations.

NOTE: Alarm removed from machine for clarity of photograph.

1. To change alarm to low volume, remove nut (A) and disconnect wire from "POS HI" terminal.
2. Remove nut (C) and shorting bar (B).
3. Attach wire to "POS LOW" terminal (D). Install nut and tighten securely. Save shorting bar for future use.



T7673AI -UN-16DEC91

T7673AH -UN-16DEC91

TX,90,RR,2162 -19-26JUL94

CHECKING FIRE EXTINGUISHER—IF EQUIPPED

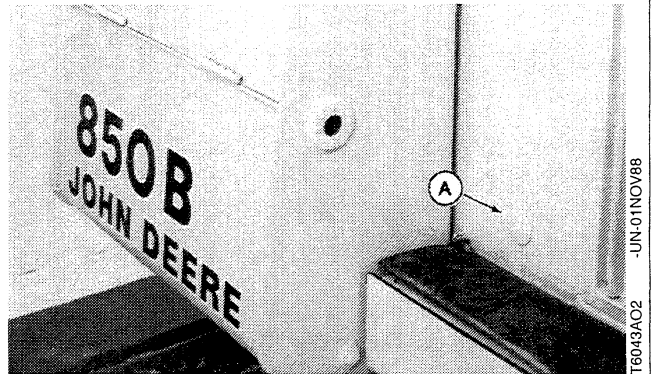
IMPORTANT: Charge fire extinguisher after each use.

Check gauge regularly for correct charge. The pointer must be in the green zone. If extinguisher needs to be charged, see your authorized dealer.

T82,CRMA,AQ -19-28JUL94

CHECK AIR CONDITIONING REFRIGERANT LEVEL—IF EQUIPPED

1. Run air conditioning system for several minutes.
2. Remove plug (A) to view sight glass.
3. Check receiver dryer sight glass. Bubbles must not be present in sight glass. If bubbles are present, see your authorized dealer for charging the air conditioning system.



UN-01NOV88
T6043AO2

04T,90,C140 -19-01SEP94

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.

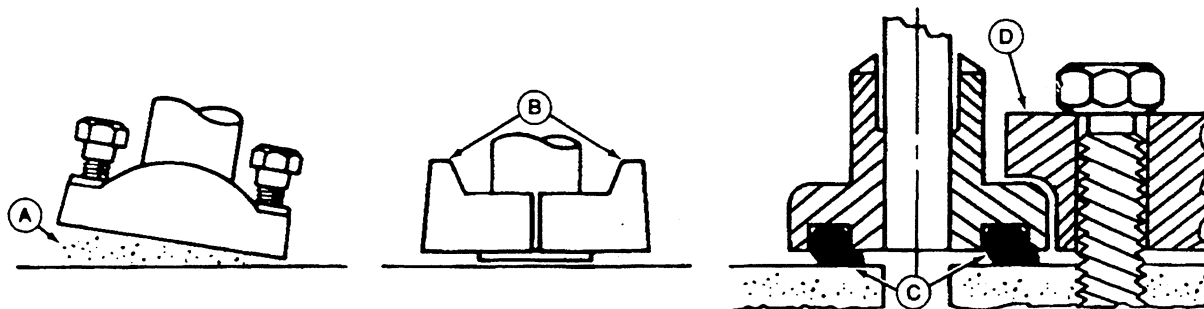
T82,EXMA,BJ -19-08JUN94

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 -19-01AUG94

SERVICE RECOMMENDATIONS FOR INCH SERIES FOUR BOLT FLANGE FITTINGS



A—Sealing Surface

B—Split Flange

C—Pinched O-Ring

D—Single Piece Flange

1. Clean sealing surfaces (A). Inspect. Scratches cause leaks. Roughness causes seal wear. Out-of-flat causes seal extrusion. If defects cannot be polished out, replace component.
2. Install O-ring (and backup washer if required) into groove using petroleum jelly to hold it in place.
3. Split flange: Loosely assemble split flange (B) halves. Make sure split is centrally located and perpendicular to port. Hand tighten cap screws to hold parts in place. Do not pinch O-ring (C).
4. Single piece flange (D): Place hydraulic line in center of flange and install cap screws. Flange must

be centrally located on port. Hand tighten cap screws to hold flange in place. Do not pinch O-ring.

5. Tighten one cap screw, then tighten the diagonally opposite cap screw. Tighten two remaining cap screws. Tighten all cap screws as specified in the chart below.

DO NOT use air wrenches. DO NOT tighten one cap screw fully before tightening the others. DO NOT over tighten.

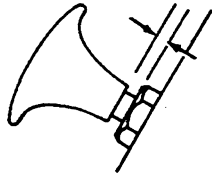
TORQUE CHART*

Nominal Flange Size	Cap Screw Size	N·m		lb·ft	
		Min	Max	Min	Max
1/2	5/16-18 UNC	20	31	15	23
3/4	3/8-16 UNC	28	54	21	40
1	3/8-16 UNC	37	54	27	40
1-1/4	7/16-14 UNC	47	85	35	63
1-1/2	1/2-13 UNC	62	131	46	97
2	1/2-13 UNC	73	131	54	97
2-1/2	1/2-13 UNC	107	131	79	97
3	5/8-11 UNC	158	264	117	195
3-1/2	5/8-11 UNC	158	264	117	195
4	5/8-11 UNC	158	264	117	195
5	5/8-11 UNC	158	264	117	195

*Tolerance \pm 10%. The torques given are enough for the given size connection with the recommended working pressure. Torques can be increased to the maximum shown for each cap screw size if desired. Increasing cap screw torque beyond this maximum will result in flange and cap screw bending and connection failures.

Operational Checkout

3E **MANUAL FUEL SHUTOFF CHECK (850B)**



T6518AD -UN-19OCT88

Push fuel shut-off knob tight against dash, release.

LOOK: Knob must move away from dash a small amount when released.

IMPORTANT: If knob does not move away from dash when released, fuel shut-off linkage may limit fuel delivery to engine and result in low power.

OK: Continue check.

NOT OK: Adjust fuel shut-off linkage. Go to Adjusting Fuel Shut-off Linkage in Maintenance chapter.

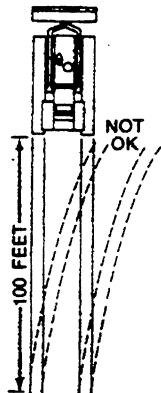
05T,95,C191 -19-01SEP94

5K FULL SPEED TRACKING CHECK—MOTOR STOPS

IMPORTANT: Track sag must be adjusted to specification and unit must be driven on a level surface for all tracking checks.



T6521AQ -19-23FEB89



T6521AR -19-23FEB89

Automatic control valve shut-off handle UP.
Run engine at fast idle.

Drive unit forward with FNR lever against full speed stop.

Do not touch any controls as unit is driven.

Observe how unit tracks as it is driven for 31 m (100 ft).

Repeat check in reverse.

LOOK: Unit must not mistrack excessively.

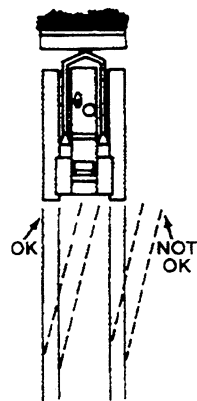
OK: Go to next check.

NOT OK: If mistrack is excessive, note pattern of mistrack. Go to your authorized dealer.

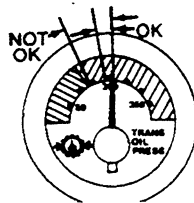
05T.95.C208 -19-01SEP94

5L FULL LOAD TRACKING CHECK

IMPORTANT: Track sag must be adjusted to specification and unit must be driven on a level surface for all tracking checks.



T6521AS -19-23FEB89



T6521AJ -19-23FEB89

Automatic control valve shut-off handle DOWN.

Run engine approximately 1500 rpm.

Use blade to load unit, observe how unit tracks.

LOOK: Unit must not mistrack excessively.

Observe transmission charge pressure as unit is operated.

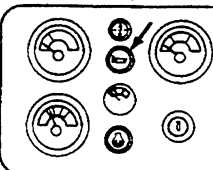
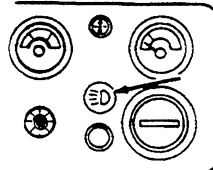
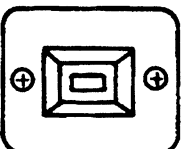
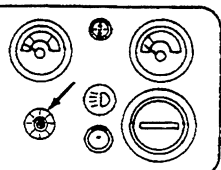
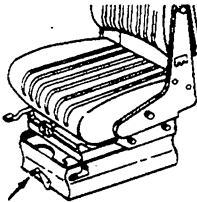
LOOK: Charge pressure gauge may drop but must not drop into red zone. Repeat check in reverse.

NOTE: It is difficult to load unit in reverse.

Continued on next page

8 ACCESSORIES AND CAB COMPONENTS

10T.9005,J378 -19-05JAN94

<p>8A HORN CIRCUIT CHECK</p>	 <p>Engine OFF. Key switch ON. Push horn button. <i>LISTEN: Horn must sound.</i></p> <p>T6513BG -UN-19OCT88</p>	<p>OK: Go to next check. NOT OK: Check horn fuse. If OK, go to your authorized dealer.</p> <p>05T.95,C231 -19-01SEP94</p>
<p>8B LIGHT CIRCUIT CHECK</p>	  <p>Engine OFF. Key switch ON. Pull light switch out. <i>LOOK: Canopy lights, rear work lights, gauge back lights and cab light must be on.</i></p> <p>T6513BD -UN-19OCT88</p> <p>T6513BE -UN-19OCT88</p>	<p>OK: Go to next check. NOT OK: Check horn fuse. If OK, go to your authorized dealer.</p> <p>05T.95,C232 -19-01SEP94</p>
<p>8C CIGAR LIGHTER CIRCUIT CHECK</p>	 <p>Engine OFF. Key switch ON. Press cigar lighter into housing. <i>LOOK: Lighter must stay in housing until hot, then must pop out.</i></p> <p>T6513BF -UN-19OCT88</p>	<p>OK: Go to next check. NOT OK: Check fuse. If OK, go to your authorized dealer.</p> <p>05T.95,C233 -19-01SEP94</p>
<p>8D SEAT FORE-AFT ADJUSTMENT CHECK</p>	 <p>Lift seat fore-aft lever. Move seat forward and rearward, release lever. <i>LOOK: Seat must move freely and lock in several positions.</i></p> <p>T6513AV -UN-19OCT88</p>	<p>OK: Go to next check. NOT OK: Replace any worn or broken parts. Lubricate moving parts. Go to your authorized dealer.</p> <p>05T.95,C234 -19-01SEP94</p>

Troubleshooting

Symptom	Problem	Solution
		and listen for noisy bearings. Turbine and compressor wheels must not rub in housing.
	Muffler restricted	Run engine without muffler. If engine operation is now normal, install a new muffler.
	Low compression	Disconnect fuel injection pump solenoid wire connector (750B). Pull fuel shut-off knob (850B). Crank engine and listen for air leaking past valves or an uneven starter speed. Start engine and observe blow-by from vent tube. See your authorized dealer.
	Injection nozzles	Remove and test nozzles. See your authorized dealer.
	Incorrect camshaft timing	Check timing. See your authorized dealer.
	Injection pump	Remove and test pump. See your authorized dealer.
Engine Emits Excessive Black Or Gray Exhaust Smoke	Restricted air filter	Check air filter restriction indicator and air filters. See Maintenance—As Required chapter. Replace.
	Incorrect grade of fuel	Drain fuel tank and add correct fuel. See Fuels and Lubricants chapter.
	Incorrect injection pump timing	Time injection pump. See your authorized dealer.
	Air leak between turbo and manifold	Test air intake system for leaks. See your authorized dealer.
	Excessive fuel delivery.	Remove and test fuel injection pump. See your authorized dealer.
	Injection nozzles	Remove and test nozzles. See your authorized dealer.
	Turbocharger	Remove air intake hose and exhaust elbow. Leading edge of compressor vanes must be sharp and straight. Spin compressor wheel and listen for noisy bearings.

Continued on next page

Troubleshooting

Symptom	Problem	Solution
Hydraulic Oil Filter Restriction Light Does Not Work, Key On, Engine Off	Wiring harness or bulkhead connector	See your authorized dealer.
	Bulb socket	See your authorized dealer.
Transmission Oil Filter Restriction Indicator Light Does Not Work, Key On, Engine Off	Bulb	Replace bulb.
	Transmission oil filter restriction indicator diode (located in left front corner of engine compartment)	See your authorized dealer.
	Wiring harness or bulkhead connector.	See your authorized dealer.
	Bulb socket	See your authorized dealer.
Hour Meter Is Running, Both Indicator Lights On, Key On, Engine Off	Hour meter relay diode	See your authorized dealer.
	Wiring harness shorted	See your authorized dealer.
Key On, Engine Running	Wiring harness shorted	See your authorized dealer.
Both Indicators Stay On	Oil cold	Warm oil to normal temperature. It is normal for indicator lights to come on when oil is cold.
Transmission Oil Filter Restriction Indicator Light Stays On All The Time (Serial No. -731273)	Restricted transmission oil filter	Replace transmission oil filter
	Transmission oil filter switch or switches	See your authorized dealer.
Transmission Oil Filter Restriction Indicator Light Stays On All The Time (Serial No. 731274-)	Wire harness or connection at bulk head connector	See your authorized dealer.
	Filter	Remove, inspect and replace.
	Pin in filter housing	Make sure pin is not stuck against switch.
Hydraulic Oil Filter Restriction Indicator Light Stays On All The Time	Restricted hydraulic oil filter	Replace filter.
	Hydraulic oil filter restriction switch	See your authorized dealer.

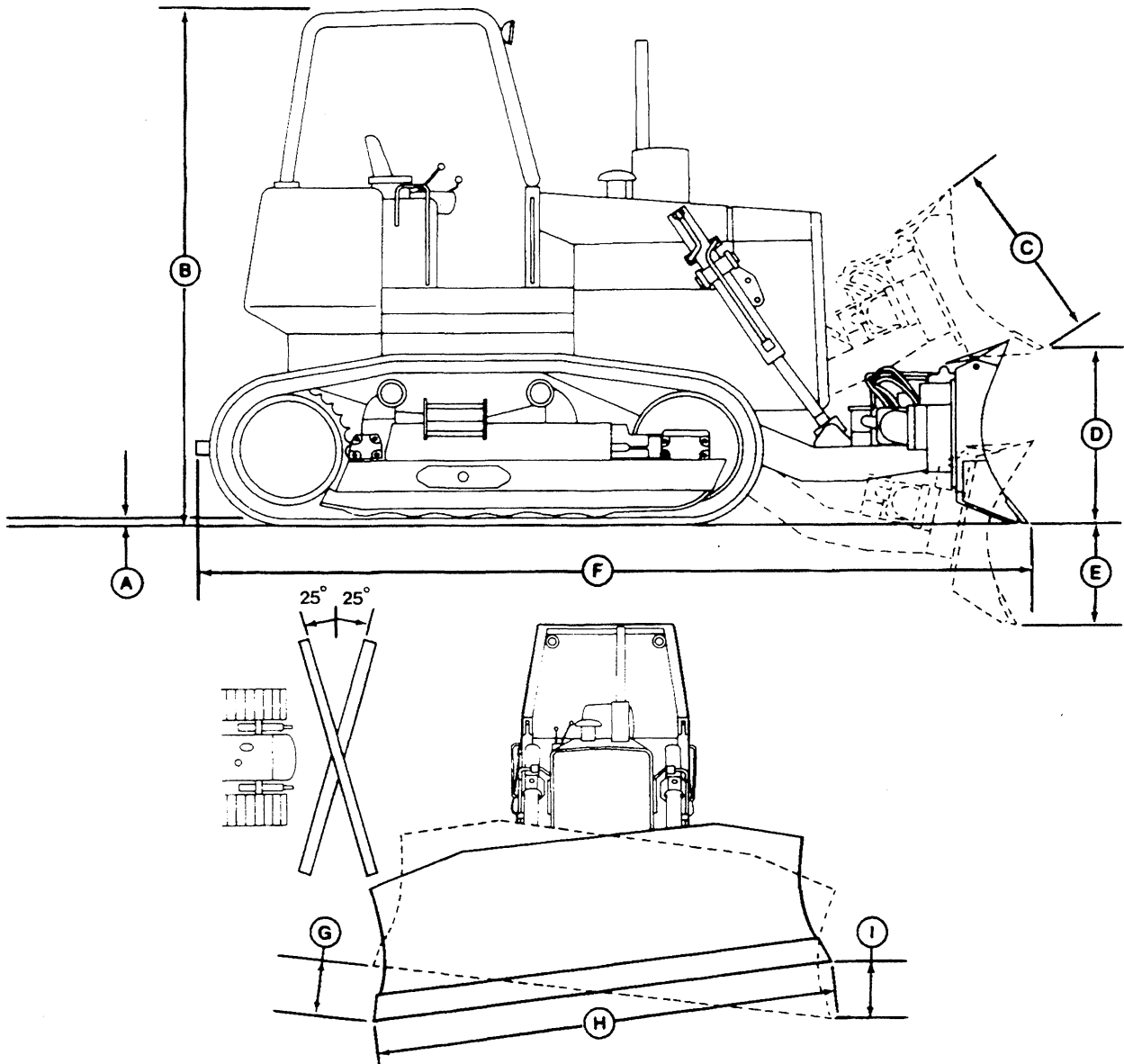
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DISCONNECT CLUTCH

Symptom	Problem	Solution
Engine Disconnect Clutch Slips	Insufficient clutch linkage free travel	Adjust disconnect clutch linkage to specifications
	Oil or grease on clutch disk	Inspect hole at base of clutch housing for evidence of oil. See your authorized dealer.
	Worn internal parts in clutch	See your authorized dealer.
Disconnect Clutch Noisy	Insufficient disconnect clutch linkage free travel	Adjust disconnect clutch linkage to specifications.
	Worn or internal parts failed in clutch	See your authorized dealer.
Disconnect Clutch Drags (Transmission Drive Shafts Continue To Rotate With Clutch Disconnected)	Excessive disconnect clutch free travel	Adjust disconnect clutch linkage to specifications
	Internal parts worn in disconnect clutch	See your authorized dealer.
Disconnect Clutch Pulsates As Clutch Is Disengaged	Broken or missing throw-out bearing return spring	See your authorized dealer.
	Clutch release finger out of adjustment	See your authorized dealer.

05T,100,C169 -19-01SEP94

750B/6505 ALL HYDRAULIC DOZER



	U.S.	Metric
A with single grouser	2.2 in.	55 mm
B	10 ft 1.8 in.	3.09 m
C	43.6 in.	1.11 m
D	36.0 in.	914 mm
E	20.0 in.	508 mm
F	16 ft 2.3 in.	4.94 m
G	16.8 in.	426 mm
H	10 ft 8.5 in.	3.26 m
I	16.8 in.	426 mm

05T,115.C84 -19-23OCT91

850B DRAIN AND REFILL CAPACITIES

	U.S.	Metric
Cooling system	9 gal	34 L
Fuel tank	82 gal	310 L
Crankcase, including filter	34 qt	32.2 L
Splitter drive	1.5 gal	5.7 L
Inner final drive (1st reduction)(each side)	5.5 gal	20 L
Outer final drive (2nd reduction)(each side)	3.5 gal	13.25 L
Inner final drive (LGP) (each side)	10 gal	38 L
Track frame pivot (each side)	1 pt	0.5 L
Hydraulic reservoir	27.5 gal	104 L
Hydrostatic transmission reservoir	29 gal	110 L

TX,115,RR,2163 -19-13FEB92

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