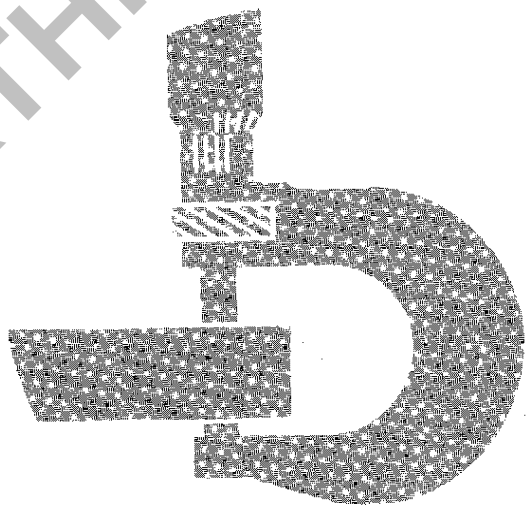
750B and 850B Crawler Bulldozer Repair



TECHNICAL MANUAL

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For complete service information also see:

750B and 850B Crawler Bulldozers

Operation and Test	TM1332
6076 Engine	CTM6
6068 Engine	CTM8
6414 Engine	CTM4
6166 Engine	CTM1
Engine Accessories	CTM11
Undercarriage Appraisal Manual	SP326

John Deere Dubuque Works
TM1476 (11MAY94)

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ENGLISH

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Contents

SECTION 00—GENERAL INFORMATION
Group 0001—Safety Information
Group 0002—General Specifications
Group 0003—Torque Values
Group 0004—Fuels and Lubricants
Group 0005—Inspection Procedure

SECTION 01—TRACKS
Group 0130—Track System

SECTION 02—AXLES AND SUSPENSION SYSTEMS
Group 0201—Drive Axle Housing and Support
Group 0250—Axle Shaft, Bearings and Reduction Gears

SECTION 03—TRANSMISSION
Group 0300—Remove and Install
Group 0315—Control Linkage
Group 0325—Drive Shaft and U-Joints
Group 0360—Hydraulic System (Hydrostatic Transmission)

SECTION 04—ENGINE
Group 0400—Removal and Installation

SECTION 05—ENGINE AUXILIARY SYSTEMS
Group 0505—Cold Weather Starting Aid
Group 0510—Cooling System
Group 0515—Speed Controls and Fuels Shut-Off Linkage
Group 0520—Intake System
Group 0530—External Exhaust Systems
Group 0560—External Fuel Supply System

SECTION 07—CLUTCH (COLD WEATHER DISCONNECT)
Group 0715—Control Linkage
Group 0752—Elements

SECTION 08—SPLITTER DRIVE
Group 0851—Gears, Shafts and Bearings

SECTION 11—PARK BRAKE
Group 1100—Park Brake
Group 1115—Control Linkage
Group 1160—Hydraulic System

SECTION 15—EQUIPMENT ATTACHING
Group 1511—Drawbar
Group 1512—Towbar

SECTION 16—ELECTRICAL SYSTEM
Group 1671—Batteries, Support and Cables
Group 1672—Alternator, Regulator, and Charging System Wiring
Group 1673—Lighting System
Group 1674—Wiring Harness and Switches
Group 1676—Instruments and Indicators
Group 1677—Motors and Actuators

SECTION 17—FRAMES, CHASSIS, OR SUPPORTING STRUCTURE
Group 1740—Frame Installation
Group 1746—Frame Bottom Guards

SECTION 18—OPERATOR'S STATION
Group 1800—Removal and Installation
Group 1810—Operator Enclosure
Group 1821—Seat and Seat Belt
Group 1830—Heating and Air Conditioning

SECTION 19—SHEET METAL
Group 1910—Hood or Engine Enclosures
Group 1921—Grille and Grille Housing

SECTION 20—SAFETY, CONVENIENCE AND MISCELLANEOUS
Group 2003—Fire Extinguisher
Group 2004—Horn and Warning Devices
Group 2006—Cigar Lighter

SECTION 32—BULLDOZER
Group 3200—Removal and Installation
Group 3201—Blade

Continued on next page

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TM1476-19-11MAY94

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0001

HANDLE FLUIDS SAFELY—AVOID FIRES

When you work around fuel, do not smoke or work near heaters or other fire hazards.

Store flammable fluids away from fire hazards. Do not incinerate or puncture pressurized containers.

Make sure machine is clean of trash, grease, and debris.

Do not store oily rags; they can ignite and burn spontaneously.



TS227 -UN-23AUG88

DX,FLAME -19-04JUN90

PREVENT BATTERY EXPLOSIONS

Keep sparks, lighted matches, and open flame away from the top of battery. Battery gas can explode.

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

Do not charge a frozen battery; it may explode. Warm battery to 16°C (60°F).



TS204 -UN-23AUG88

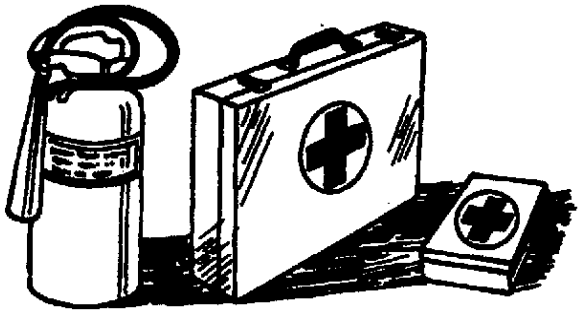
DX,SPARKS -19-03MAR93

PREPARE FOR EMERGENCIES

Be prepared if a fire starts.

Keep a first aid kit and fire extinguisher handy.

Keep emergency numbers for doctors, ambulance service, hospital, and fire department near your telephone.



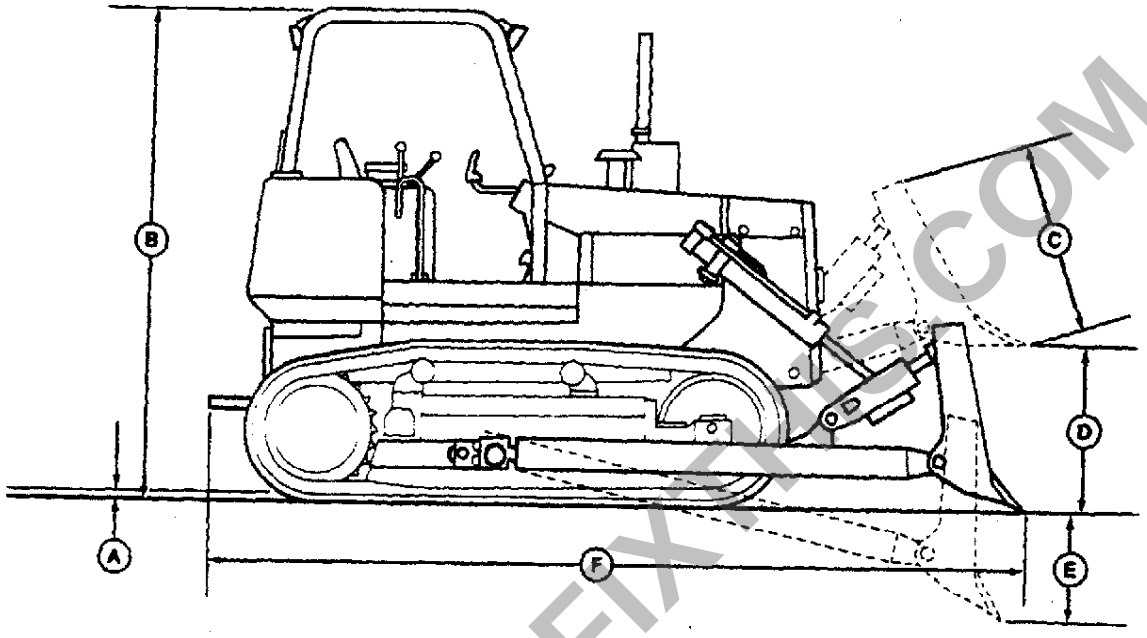
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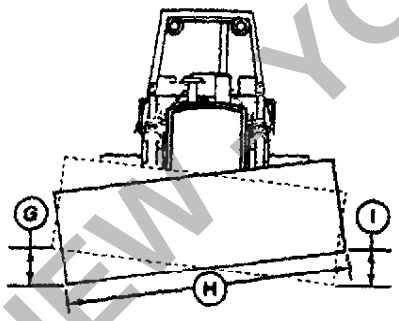
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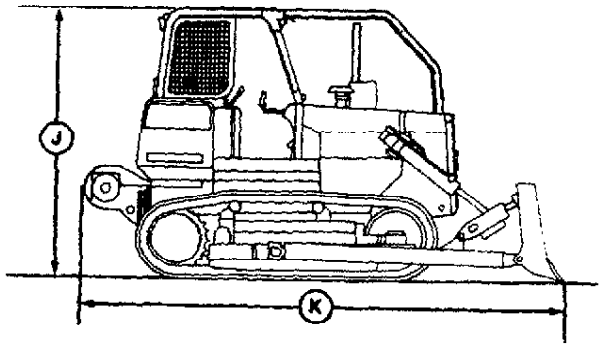
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750B WIDE TRACK BULLDOZER







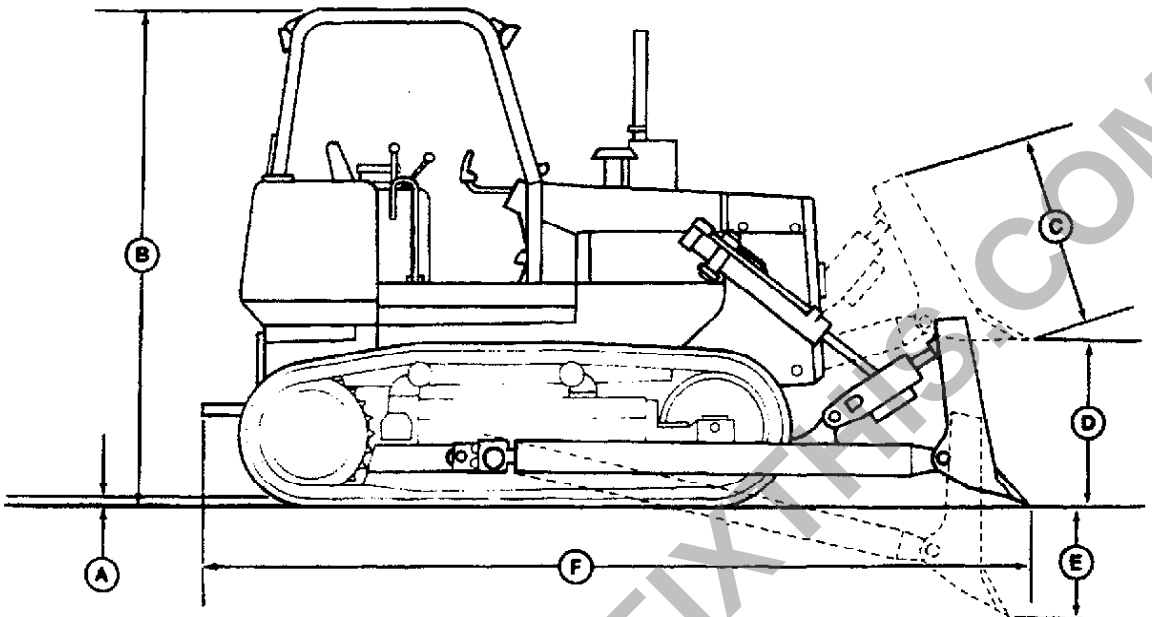
T7640AE -UN-28OCT91

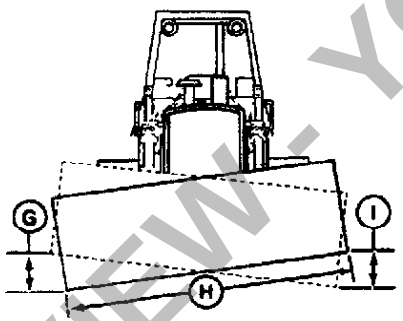
	U.S.	Metric
A with single grouser	2.2 in.	55 mm
B	10 ft 1.8 in.	3.09 m
C	38.0 in.	965 mm
D	46.0 in.	1.17 m
E	19.3 in.	490 mm
F	15 ft 7.4 in.	4.76 m
G	15.0 in.	381 mm
H	11 ft	3.35 m
I	15.0 in.	381 mm
J	10 ft 1.8 in.	3.09 m
K	16 ft 5.3 in.	5.01 m

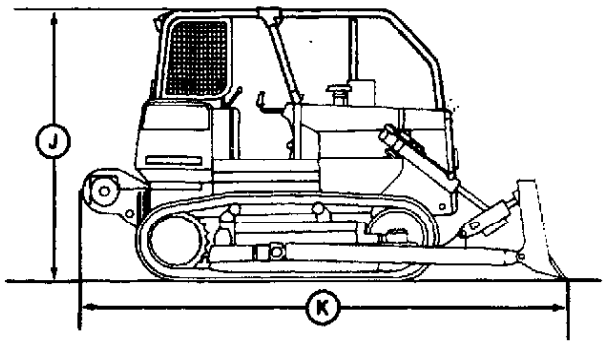
05T,115,C88 -19-23OCT91

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750B/6525 BULLDOZER







T7640AB -UN-28OCT91

	U.S.	Metric
A with single grouser	2.2 in.	55 mm
B	10 ft 1.8 in.	3.09 m
C	38.0 in.	965 mm
D	46.0 in.	1.17 m
E	19.3 in.	490 mm
F	15 ft 7.4 in.	4.76 m
G	15.5 in.	394 mm
H	10 ft.	3.05 m
I	15.5 in.	394 mm
J	10 ft 1.8 in.	3.09 m
K	16 ft 5.3 in.	5.01 m

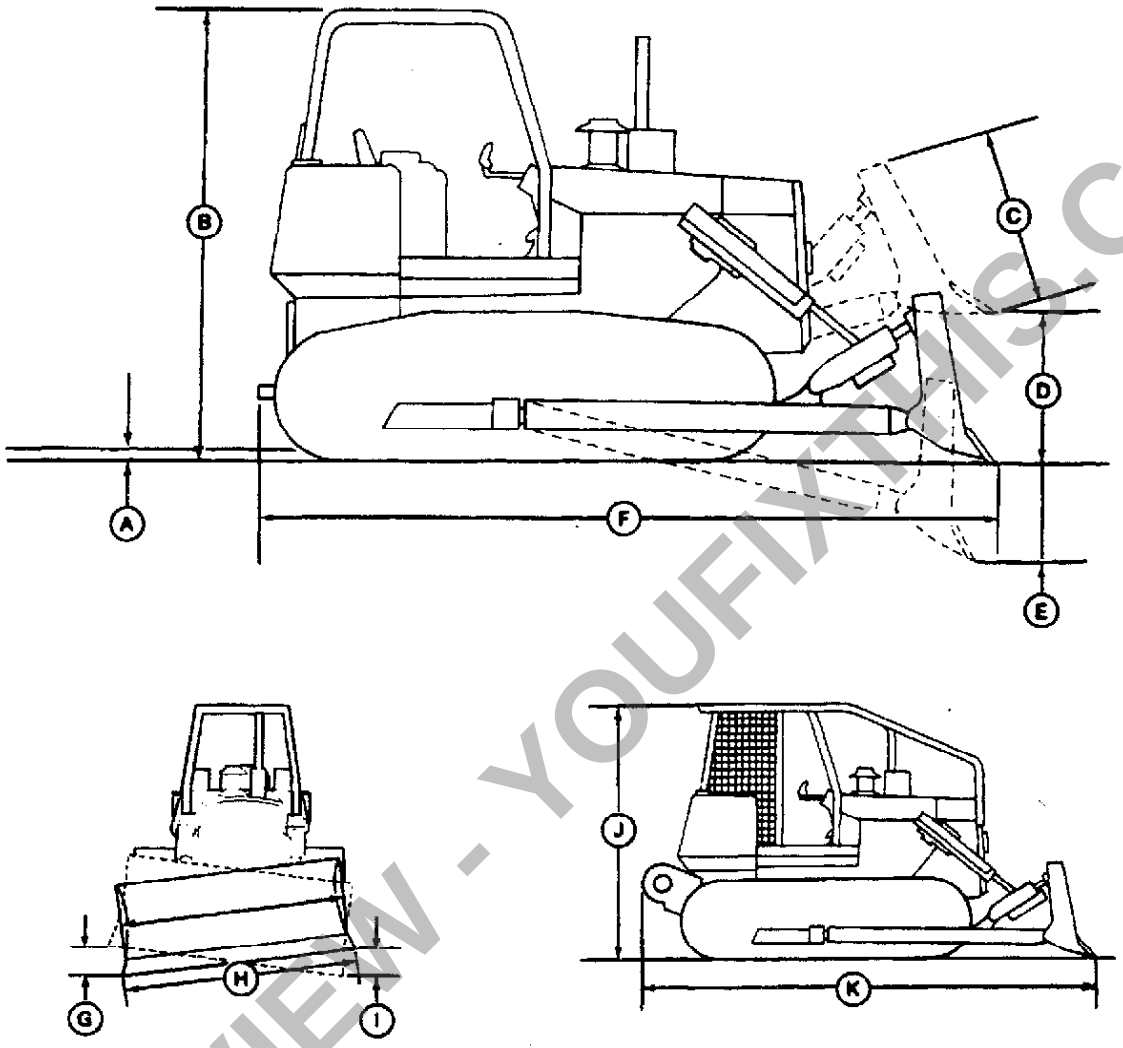
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0002
6

750B NARROW GAUGE BULLDOZER



T7640AD -UN-28OCT91

	U.S.	Metric
A with single grouser	2.2 in.	55 mm
B	10 ft 1.8 in.	3.09 m
C	38.0 in.	965 mm
D	46.0 in.	1.17 m
E	19.3 in.	490 mm
F	15 ft 7.4 in.	4.76 m
G	15.0 in.	381 mm
H	98.6 in.	2.50 m
I	15.0 in.	381 mm
J	10 ft 2.6 in.	3.11 m
K	16 ft 5.3 in.	5.01 m

05T,115,C87 -19-23OCT91

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850B GENERAL SPECIFICATIONS

Engine: John Deere 6466A

Type	Turbocharged and aftercooled diesel
Bore and stroke	4.56 X 4.75 in. (116 x 121 mm)
Displacement	466 cu in. (7.636 L)
Lubrication	Pressure system with full flow filters
Cooling	Pressurized with thermostat and controlled bypass
Fan	Blower
Air Cleaner	Dry
Electrical system	24 volt with a 40 amp alternator
Batteries (2) 12 volt	Reserve capacity: 180 minutes
Power at 1800 engine rpm:	
Net	SAE 123 kW (165 hp)
Gross	SAE 131 kW (175 hp)

Transmission:

Splitter drive: Pressure-lubricated helical gears drive both transmissions, main hydraulic pump, winch drive shaft and auxiliary pump drive. Speeds: infinite from 0-6.5 mph (0-10.5 km/h) forward and reverse.

Steering:

Hydrostatic steering eliminates the need for steering clutches and steering brakes.

Parking Brakes:

Wet-disk brakes are automatically applied when engine is stopped, or manually applied with center foot pedal during normal operation.

Hydraulic System (Open Center):

Pressure	2250 psi (15 514 kPa) (155 bar)
Filter	10 micron filter in return line with bypass
Pump flow at 2100 rpm	144 L/min (38 gpm)

Tracks:

Track shoes each side	37
Low ground pressure	43
Long track	40
Ground contact area	29 419 cm^2 (4560 sq in.)
Low ground pressure	58 352 cm^2 (9044 sq in.)
Long track	33 135 cm^2 (5 136 sq in.)
Ground pressure:	
6540	57.3 kPa (0.6 bar) (8.3 psi)
6545	56.7 kPa (0.6 bar) (8.2 psi)
Low ground pressure	3.38 kPa (0.3 bar) (4.9 psi)
General purpose	59.1 kPa (0.6 bar) (8.58 psi)
Long track (6540)	53.3 kPa (0.5 bar) (7.7 psi)
Long track (6545)	52.8 kPa (0.5 bar) (7.65 psi)
Track gauge	1.88 m (74 in.)
Low ground pressure	2.24 m (88 in.)
Minimum ground clearance	417 mm (16.4 in.)
Low ground pressure with swamp shoe	490 mm (19.3 in.)

Operating Weight w/ROPS:

850B Standard	17 198 kg (37915 lb)
850B LGP	20 124 kg (44 365 lb)

Drawbar pull at 0.4 km/h (0.25 mph)	29 484 kg (289 kN) (65 000 lb)

NOTE: Specifications and design subject to change without notice. Wherever pplicable, specifications are in accordance with ICED and SAE standards. Except where otherwise noted, these specifications are based on a unit equipped with 20 in. (508 mm) grousers [965 mm (38 in.) low ground pressure], roll-over protective canopy, full fuel tank, 79 kg (175 lb) operator, and standard equipment.

TX,SECI,FF,321 -19-01APR94

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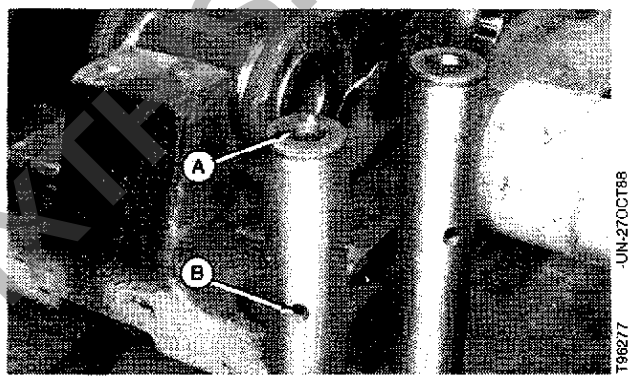
10. Apply track chain lubricant to bushing ends before next set of links are installed.



T47,0130,122 -19-27JAN84

IMPORTANT: Pins must be installed so cross-drilled hole is toward link wear surface or they may break when chain is used. To make assembly easier, install all pins so holes in the end are toward the same side of chain.

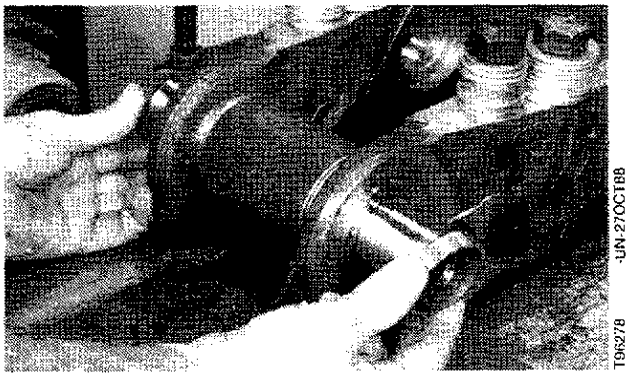
11. Install pin in bushing so cross-drilled hole (B) is toward link wear surface. Install all pins so hole (A) in the end is toward the same side of chain, either left or right.



T47,0130,123 -19-27JAN84

12. Install a thrust ring on each end of pin.

13. Move completed split link assembly to rear seat of saddle.



T47,0130,124 -19-30SEP93

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ADJUST TRACK SAG

0130
72

TRACK SAG SPECIFICATIONS

Non-Lubricated Track Chain	51 ± 6 mm (2 ± 1/4 in.)
Lubricated Track Chain	51 ± 6 mm (2 ± 1/4 in.)

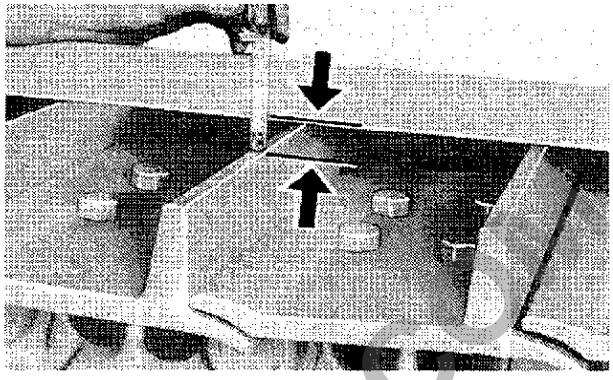
NOTE: Check sag after a short period of operation when changing from one ground condition to another or when operating in extreme soil packing conditions.

1. Allow machine to slowly roll to a stop in the forward direction. For the most accurate measurement, a link pin must be centered on carrier roller.

2. Measure sag between carrier roller and front idler at the lowest point.

IMPORTANT: Grease fitting on track adjuster head is used for track sag adjustment only. Fitting on cylinder barrel adjuster housing is used to fill cavity between cylinder barrel and adjuster housing to keep water out.

Piston must move using a 22 500 kPa (550 bar) (8000 psi) maximum capacity grease gun or seals may be damaged. If piston does not move, check for seized track adjuster parts. (See procedures in Group 0130.)



TX,0130,DU1370 -19-07APR94

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REMOVE AND INSTALL MANIFOLD VALVE

NOTE: The repairs for 750B/850B manifold valve are the same.

The manifold valve assembly can be removed without removing transmission from unit.

1. Thoroughly clean the outside of the transmission before removing manifold valve assembly (2).

0360
104

2. Remove hydrostatic oil from reservoir.

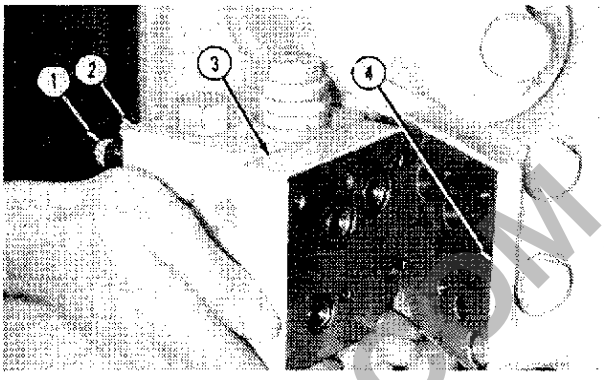
IMPORTANT: DO NOT damage mounting surface of manifold valve and motor end cap (4). Nicks or scratches on these surfaces could require replacement of these parts.

3. Remove six cap screws and washers (1) and manifold valve assembly.

NOTE: For left-hand transmission, remove adapter plate (3).

4. Remove O-rings and backup washers.

NOTE: O-rings and backup washers are replaced with square packings.



1—Cap Screw and Washer (6 used)
2—Manifold Valve Assembly
3—Adapter Plate
4—Motor End Cap

TX,0360,DU1205 -19-04APR94

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Section 17
FRAMES, CHASSIS, OR SUPPORTING STRUCTURE

Contents

Page

Group 1740—Frame Installation
Welding Repair of Major Structures 1740-1

Group 1746—Frame Bottom Guards
Other Material 1746-1
Specifications 1746-1
Front Bottom Guard
  Remove and Install 1746-2
Center Bottom Guard
  Remove and Install 1746-2
Rear Bottom Guard Cover
  Remove and Install 1746-3

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Section 19
SHEET METAL

Contents

Page

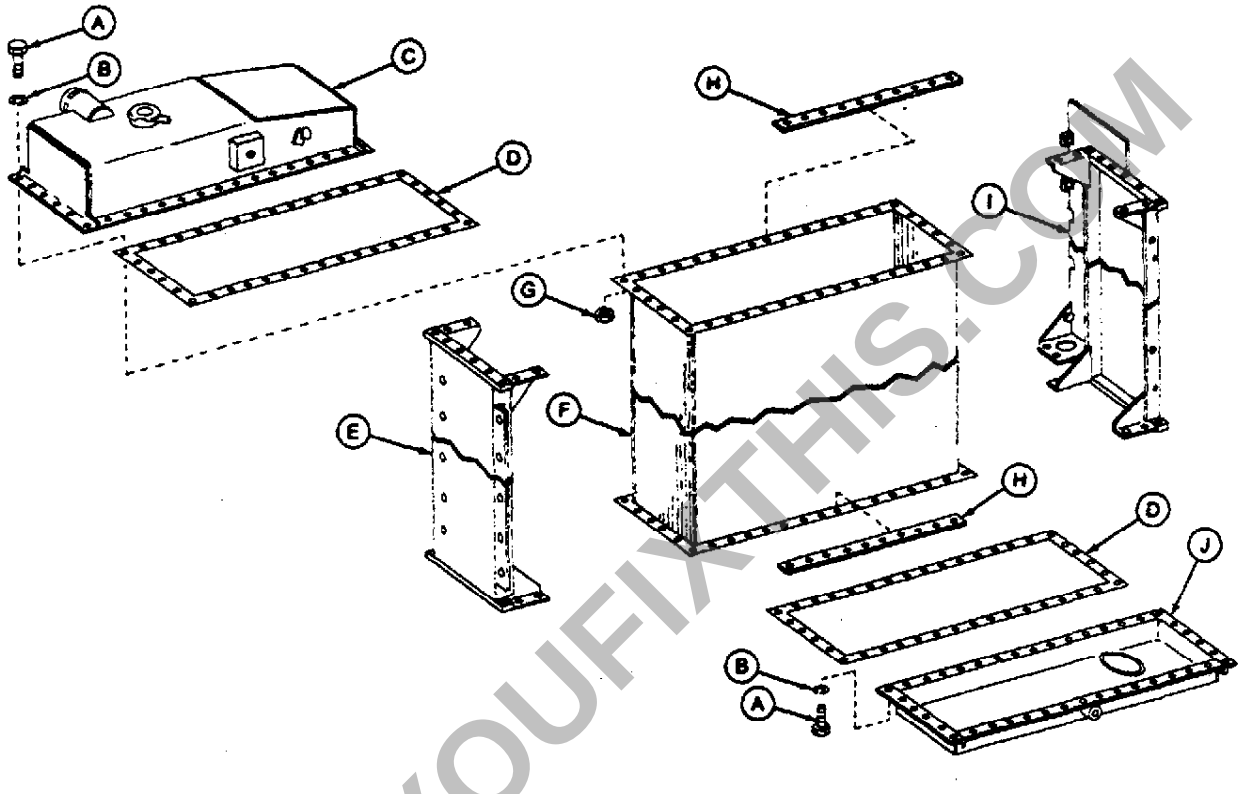
Group 1910—Hood or Engine Enclosures
Other Material 1910-1
Specifications 1910-1
Hood
  Remove and Install 1910-1
Cowl
  Remove and Install 1910-2
Side Shields
  Remove and Install 1910-2
Perforated Engine Side Shield Mounting
  Remove and Install 1910-3

Group 1921—Grille and Grille Housing
Other Material 1921-1
Specifications 1921-1
Grille Housing
  Remove and Install 1921-2
  Disassemble and Assemble 1921-3

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DISASSEMBLE AND ASSEMBLE RADIATOR



A—Cap Screw (80 used)
B—Washer (80 used)
C—Tank
D—Gasket (2 used)
E—Side Wall
F—Core
G—Nut (80 used)
H—Strap (4 used)
I—Side Wall
J—Bottom Tank

1. Disassemble radiator.
2. Inspect and replace parts as necessary.
3. Assemble radiator.

TX,0510,DU1260 -19-03AUG93

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Page

Starting aid solenoid
Remove and install 0505-2
Starting aid switch
Remove and install 0505-1
Starting motor
Remove and install 1677-1
Steering linkage
Adjust 0315-10, 0315-12
Disassemble and assemble 0315-6
Remove and install 0315-3
Steering pedals
Remove and install 0315-13
Steering valve
Disassemble 0360-122
Steering valve orifice
Disassemble and assemble 0360-119
Storing lubricants 0004-9
Strip, inner guide wear
Remove and install 0130-99
Strips, track lower frame wear
Remove and install 0130-101
Strips, track upper frame wear
Remove and install 0130-100
Subframe
Disassemble and assemble 3240-3
Remove and install 3240-2
Support wear plates
Remove and install 0130-39
Support, speed control
Disassemble and assemble 0315-23
Remove and install 0315-23
Suspension, seat
Disassemble and assemble 1821-3
Switch
Horn, remove and install 1674-40
Start aid, remove and install 1674-40
Start, remove and install 1674-40
Switch, battery disconnect
Remove and install 1674-34
Switch, blower
Remove and install 1830-59
Switch, filter restriction
Hydraulic, remove and install 1676-1
Switch, front wiper
Remove and install 1674-41
Switch, high pressure
A/C, remove and install 1830-55
Switch, indicator test
Pressure, remove and install 1676-2
Switch, key
Remove and install 1674-36

Page

Switch, light
Remove and install 1673-1
Switch, low pressure
A/C, remove and install 1830-55
Switch, neutral start
Remove and install 1674-37
Switch, rear wiper
Remove and install 1674-41
Switch, reverse warning alarm
Remove and install 2004-2
Switch, starting aid
Remove and install 0505-1
Switch, temperature control
Remove and install 1830-51
Test 1830-51
Switch, transmission oil indicator
Remove and install 1676-4
Synthetic Lubricants 0004-9
System and circuit relief valve
Cross section 3260-27
System or circuit relief valve
Disassemble and assemble 3260-30
System relief valve
Cross section 3260-29
Disassemble and assemble . . 3260-30, 3260-31

T

Tank, fuel
Remove and install 0560-2
Temperature control switch
Remove and install 1830-51
Test 1830-51
Temperature, transmission oil
Sender, remove and install 1676-3
Tilt cylinder, angledozer
Cross section 3260-59
Tilt cylinder, blade
Assemble 3260-60
Cross section 3260-58
Disassemble 3260-55
Remove and install 3260-41, 3260-54
Tilt section, blade
Cross section 3260-24
Disassemble and assemble 3260-25
Torque value
Flat face O-ring seal fitting 0003-11
Inch SAE four bolt flange fitting 0003-12
Metric cap screw 0003-7

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Group 3215—Controls Linkage
Group 3240—Frames
Group 3260—Hydraulic System

SECTION 99—DEALER FABRICATED TOOLS
Group 9900—Dealer Fabricated Tools

Index

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Item	Measurement	Specification
Crossbar-to-Shim Retainer:		
750B	Minimum Clearance	3.0 mm (0.12 in.)
	Maximum Clearance	4.6 mm (0.18 in.)
850B	Minimum Clearance	2.5 mm (0.10 in.)
	Maximum Clearance	4.0 mm (0.16 in.)
Full Grouser:		
750B	New	54 mm (2.12 in.)
	100% Worn	22.5 mm (0.89 in.)
850B	New	71.5 mm (2.81 in.)
	100% Worn	25.4 mm (1.0 in.)
Semi-Grouser (Two Bar):		
750B	New	31.0 mm (1.22 in.)
	100% Worn	15.0 mm (0.59 in.)
850B	New	35.5 mm (1.4 in.)
	100% Worn	13.0 mm (0.51 in.)
Semi-Grouser (Three Bar):		
750B	New	
	100% Worn	6.0 mm (0.24 in.)
		25.0 mm (0.98 in.)
850B (NONE)		
Track Shoe Cap Screw (except split master link):		
750B (5/8 in.)	Initial Torque	163 N·m (120 lb-ft)
	Additional Turn	1/3 Turn (120°)
	Minimum after 50—100 hours	380 N·m (280 lb-ft)

Continued on next page

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INSTALL TRACK ADJUSTER AND RECOIL SPRING

0130 78

1. Put adjuster rod under support and position yoke on track frame.

2. Loosely assemble adjuster rod, yoke, special washer, and cap screw.

3. Make sure cap screw hole at cylinder end of adjuster and is pointing directly upward.

4. Tighten cap screw to 575 N·m (425 lb-ft). Rap head of cap screw using a brass rod and a 2 kg (5 lb) hammer. Retighten cap screw.

5. Slide yoke assembly forward.



T6029AB -UN-26OCT88

TX,0130,DU1374 -19-11AUG93

6. Install preloaded recoil spring in track frame with track adjuster housing toward idler. The adjuster housing ears must be below centerline (5).

7. Make sure top of spring is parallel to track frame.

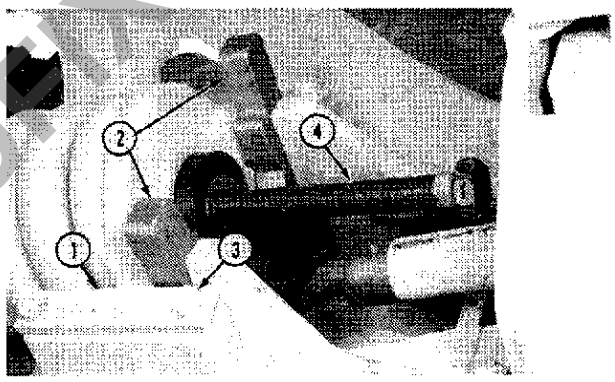
8. Assemble washers (6), hold down plate (1), and cap screws (3). Tighten cap screws to 325 N·m (240 lb-ft).

9. Install 38 mm (1.5 in.) bar stock (2).

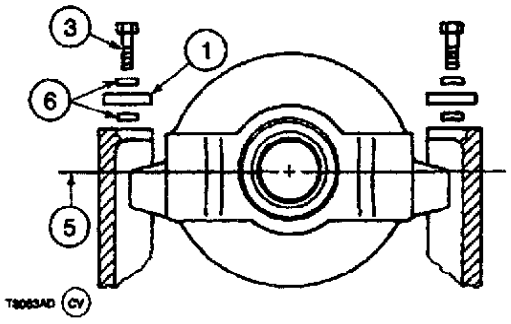
CAUTION: Do not release load on recoil spring until it is installed in track frame and secured in position with hold down plates. Accidental release of recoil spring could create a risk of personal injury.

10. Slowly remove track spring compressor tool (4).

11. Carefully install adjuster head in adjuster housing. Do not damage seal in adjuster housing.



T6027AE -UN-26OCT88



T8063AD -UN-08SEP93

1—Plate (2 used)
2—Bar Stock (2 used)
3—Cap Screw (4 used)
4—JD314-2B Screw
5—Centerline
6—Washer (8 used)

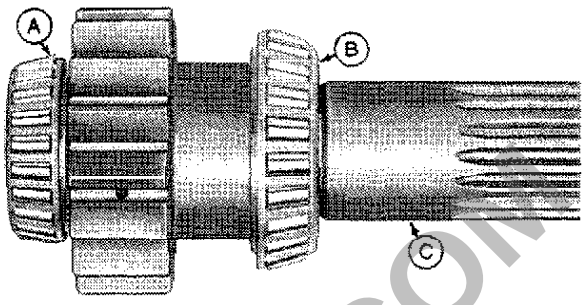
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10. Remove bearing cones (A and B) from final drive shaft (C).

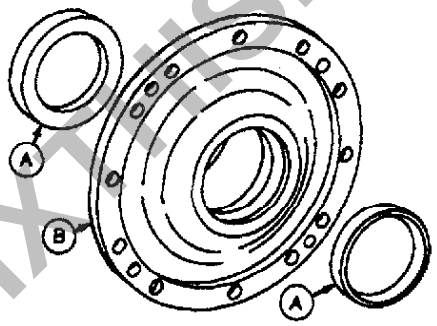
11. Remove bearing cone from planetary ring gear.



T6172BI -UN-18OCT88

T47,0250,K454 -19-30AUG85

12. Remove bearing cups (A) from sprocket frame (B).



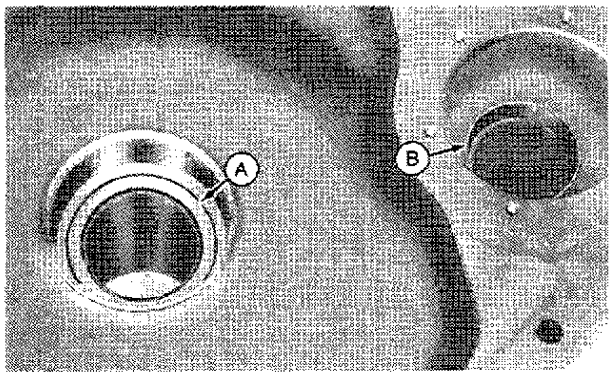
T6172BM -UN-18OCT88

T47,0250,K455 -19-30AUG85

ASSEMBLE FINAL DRIVE AND SPROCKET FRAME

1. Install bearing cup (B) tight against shoulder in final drive housing cover.

2. Install oil seal (A) 3 mm (0.125 in.) below bearing bore with lip (spring side) toward bearing.

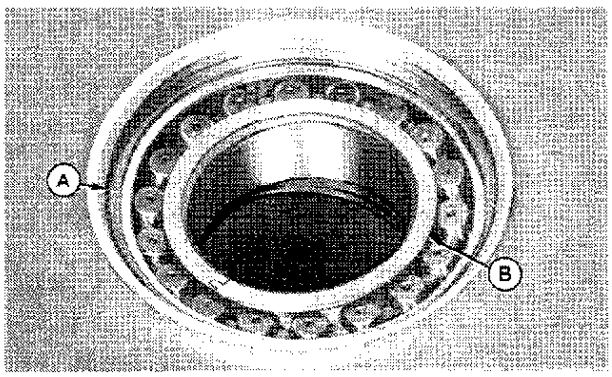


T6172BK -UN-18OCT88

T47,0250,K456 -19-30SEP93

3. Install ball bearing (B) in final drive housing cover using press.

4. Install snap ring (A).



T6172BN -UN-18OCT88

T47,0250,K457 -19-30AUG85

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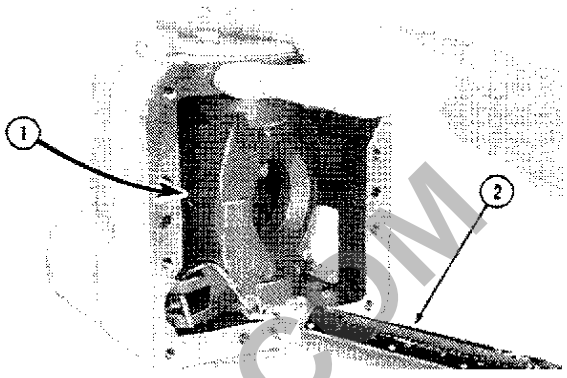
IMPORTANT: Servo cylinders must not be installed while checking swashplate drag.

13. Check swashplate (1) drag using a spring scale (2).

SWASHPLATE DRAG SPECIFICATION

750B	13—22 N (3—5 lb force)
850B	16—29 N (3.5—6.5 lb force)

If swashplate drag is incorrect, adjust shim pack.

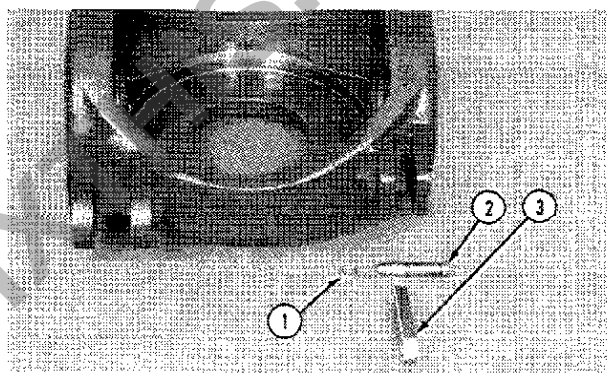


T58,0360,6030BU-19-30SEP93

0360
31

14. Remove swashplate.

15. Install swashplate feedback link (3), pin (2), and retaining ring (1).



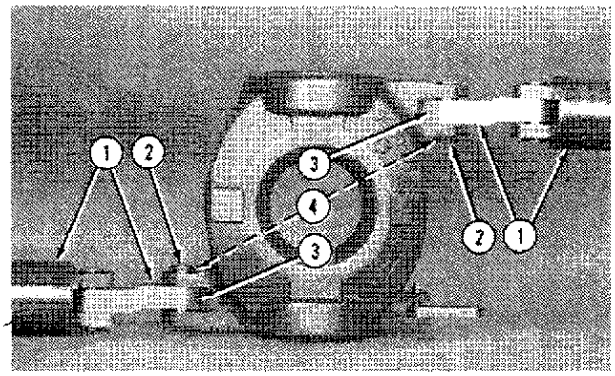
T58,0360,6030BV-19-17JAN95

IMPORTANT: Servo pistons must be installed with respective servo cylinders.

16. Install servo pistons and links (1) with bend and beveled end (3) as shown.

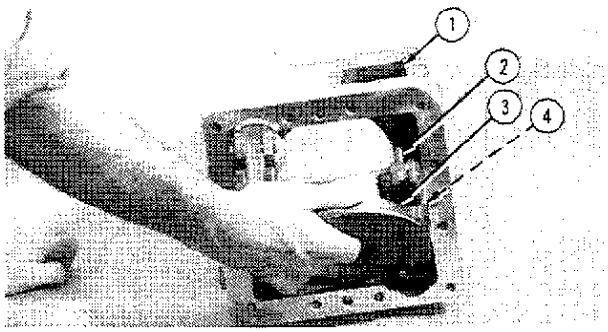
17. Install pins (2) and retaining rings (4).

1—Servo Piston and Link (2 used)
2—Pin (4 used)
3—Beveled End
4—Retaining Ring (8 used)



T58,0360,6030BW-19-10APR95

18. Install swashplate (3) so feedback link (2) can be reached through opening for pump displacement control valve (1).



T58,0360,6030BX-19-10APR95

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5. Inspect manifold valve spool. (See procedure in this group.)

CAUTION: Reduce compressed air to less than 210 kPa (2 bar) (30 psi) when using for cleaning purposes. Clear area of bystanders, guard against flying chips and wear personal protection equipment including eye protection.

6. Wash all parts in diesel fuel and dry with compressed air.

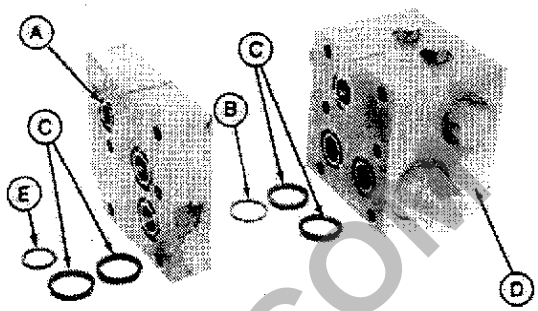
7. Install new packings (B) and O-rings (B and E).

NOTE: O-rings and backup washers are replaced with square packings.

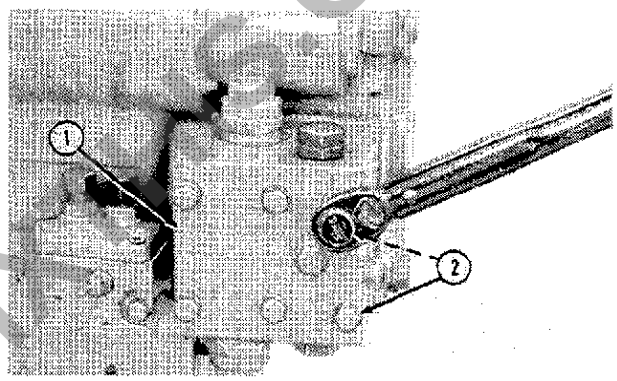
8. Install manifold assembly (1) and cap screws and washers (2). Tighten cap screws to 30 N·m (22 lb-ft).

9. Fill hydrostatic oil reservoir. (See Transmission Oil, Group 0004.)

IMPORTANT: DO NOT start engine at this time. (See Initial Start-Up After Transmission Repair Procedure, TM1332, Group 9026-25).



T70109O -UN-06APR89



T79746 -UN-18OCT88

A—Adapter Plate
B—Packing
C—Packing (4 used)
D—Manifold Valve
E—O-Ring
1—Manifold Valve Assembly
2—Cap Screw and Washer (6 used)

TX,0360,DU1206 -19-04APR94

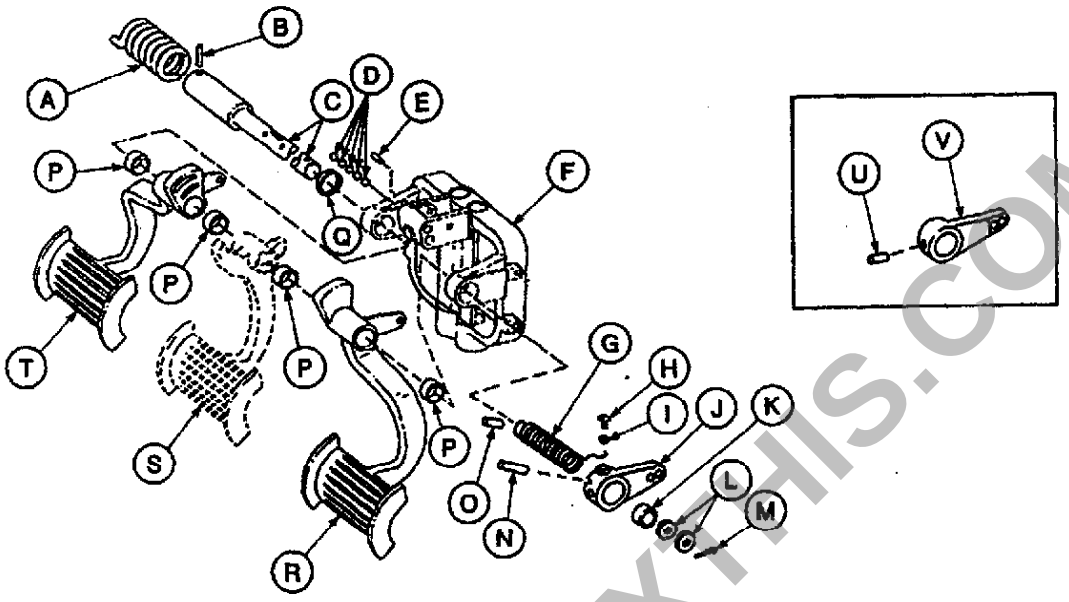
0360 105

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T8052AI (CV)

T8052AI -UN-27AUG93

A—Spring
B—Pin
C—Shaft
D—Ball (5 used)
E—Pin
F—Steering Support
G—Spring (S.N.731274—)
H—Screw (S.N.731274—)
I—Spacer (S.N.731274—)
J—Pedal Shaft Lever (S.N.731274—)
K—Needle Bearing (S.N.731274—)
L—Washer (2 used) (S.N.731274—)
M—Cotter Pin (S.N.731274—)
N—Pin (S.N.731274—)
O—Pin (S.N.731274—)
P—Needle Bearing (4 used)
Q—Pin
R—Right Steering Pedal
S—Brake Pedal
T—Left Steering Pedal
U—Pin (S.N. —731273)
V—Pedal Shaft Lever (S.N. —731273)

3. Disengage spring (A) from pin (E).

4. (S.N. —731273) Remove pin (U) and lever (V).

5. (S.N.731274—) Remove parts (G—O).

6. Remove shaft (C) from support (F). Remove pedals (R—T).

7. Replace parts as necessary.

8. Install shaft (C) and pedals (R—T) on steering support (F).

9. (S.N. —731273) Install lever (V) and pin (U).

10. (S.N.731274—) Install parts (G—O).

TX,1115,DU1026 -19-04AUG93

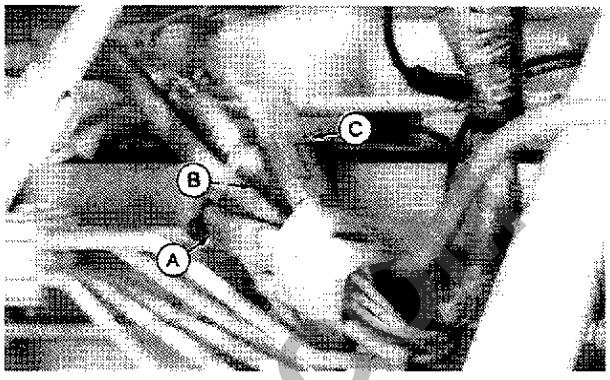
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REMOVE AND INSTALL INDICATOR LIGHTS AND HOUR METER RELAY DIODES

NOTE: Diodes are in engine harness on right side of engine.

1. Open engine side shield.

2. Remove and install diodes (A—C).



850B Shown

(S.N. —731273)

A-Transmission Oil Filter Restriction Diode
(Yellow Wires 32A and 32F)
B-Hydraulic Oil Filter Restriction Diode
(Gray Wires 50B and 50E)
C-Hour Meter Relay Diode (Black Wires 30E and 30B)

(S.N.731274—)

A-Transmission Oil Filter Restriction Diode
(Yellow Wires - 32A and 32F, Black/Yellow - 30E)
B-Hydraulic Oil Filter Restriction Diode
(Gray Wires - 50B and 50E, Yellow Wire - 32F)
C-Hour Meter Relay Diode (Black/Yellow Wires 30B and 30E)

TX,1676,DV1991 -19-30SEP93

REMOVE AND INSTALL VOLT OR HOUR METER

1. Turn battery disconnect switch to "OFF".

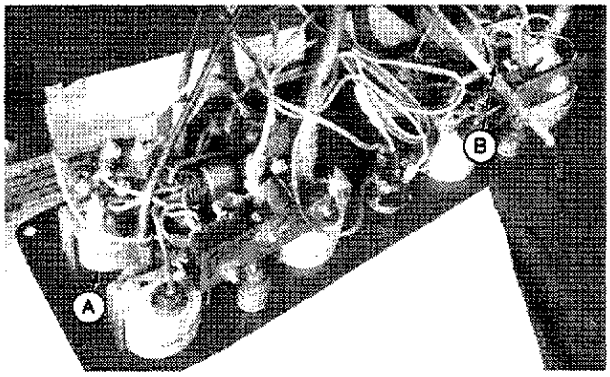
2. Remove dash and lower cover.

3. Remove nuts, bracket, and disconnect wiring harness to remove volt meter (A) or hour meter (B).

4. Install meter, bracket, and tighten nuts to 1.125 N·m (10 lb-in.).

5. For machines (S.N. —731273), connect hour meter to relay wiring lead No. 13T. Connect volt meter positive terminal to wiring lead No. 13A.

For machines (S.N.731274—), connect harness to hour meter or volt meter.



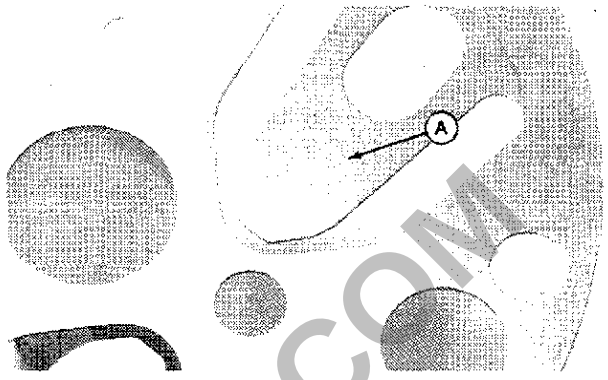
1676
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TX,1676,DV1992 -19-23AUG93

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16. Inspect valve plate side of inlet reed valves for a complete circular wear pattern (A).

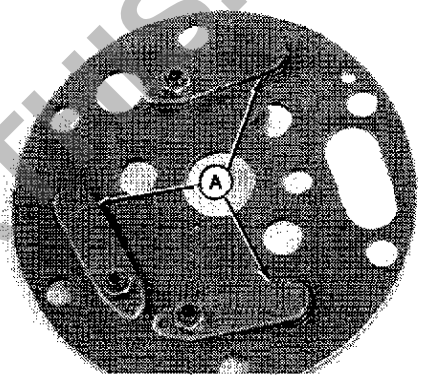
17. If wear pattern has any voids in it, replace reed valve.



T52,1830,K195 -19-25JUL85

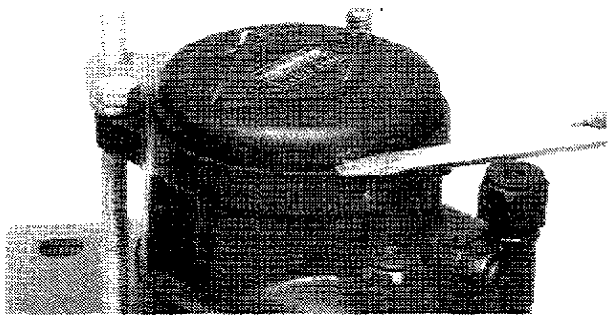
18. Inspect discharge valve for general condition. Valves (A) should have slight pressure against valve plate.

19. Hold valve plate up to light and verify that valve is against its seat. If condition is doubtful, replace valve plate.



T52,1830,K196 -19-25JUL85

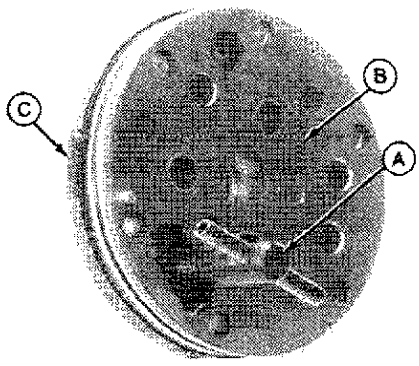
20. Turn compressor over and remove rear head by prying on the small tabs cast into the head. Pry lightly around circumference of head.



T52,1830,K197 -19-25JUL85

21. Remove inlet reed valve from valve plate.

22. Install valve plate remover (A) and carefully pull valve plate (B) from head (C).



T52,1830,K198 -19-25JUL85

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3260
12

REMOVE AND INSTALL HYDRAULIC RESERVOIR

1. Remove fuel tank. (See procedure in Group 0560.)

NOTE: Reservoir becomes slightly pressurized as oil is heated. Pressure is released through a hole in filler plug as it is loosened.

2. Loosen filler plug to release pressure. Remove drain plug (F) to drain oil from reservoir. Capacity of reservoir is approximately 104 L (27.5 gal).

3. Disconnect lines (B and C) and wiring lead (D). Plug all openings.

CAUTION: The approximate weight of reservoir if 123 kg (270 lb).

4. Attach hoist to reservoir. Remove parts (A, E, I and J).

NOTE: If original reservoir is to be installed, keep old shims.

5. Remove cap screws and washers (G) and cover (H) to clean inside reservoir.

6. Clean mating surface of cover and reservoir using clean and cure primer.

IMPORTANT: Allow four hours cure time before pressurizing reservoir to prevent leaks.

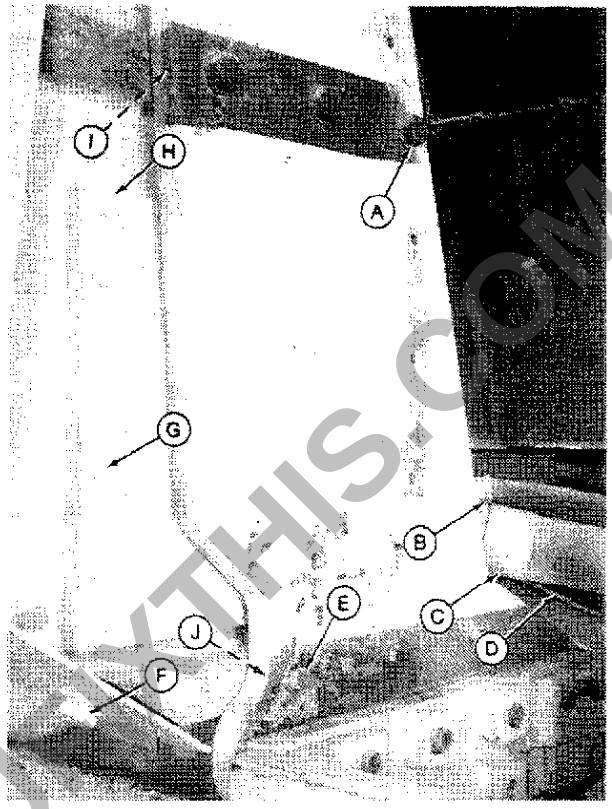
7. Apply plastic gasket to bolting collar and cover. Install cover using cap screws and washers. Tighten top cap screws first and continue down cover.

8. Install reservoir using parts (A, E, I, and J). Use shims to allow for uniform gap of 6.5 ± 3.5 mm (0.26 ± 0.14 in.) between reservoir and fuel tank.

9. Connect lines and wiring lead (D).

10. Fill hydraulic reservoir. (See Hydraulic Oil, Group 0004.)

11. Install fuel tank. (See procedure in Group 0560.)



A—Cap Screw and Washer (3 used)
B—From Blade Control Valve
C—To Hydraulic Pump
D—Wiring Lead
E—Cap Screw and Washer (3 used)
F—Drain Plug
G—Cap Screw and Washer (18 used)
H—Cover
I—Shims (as required)
J—Shims (as required)

TX,3260,DU1471 -19-25AUG93

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