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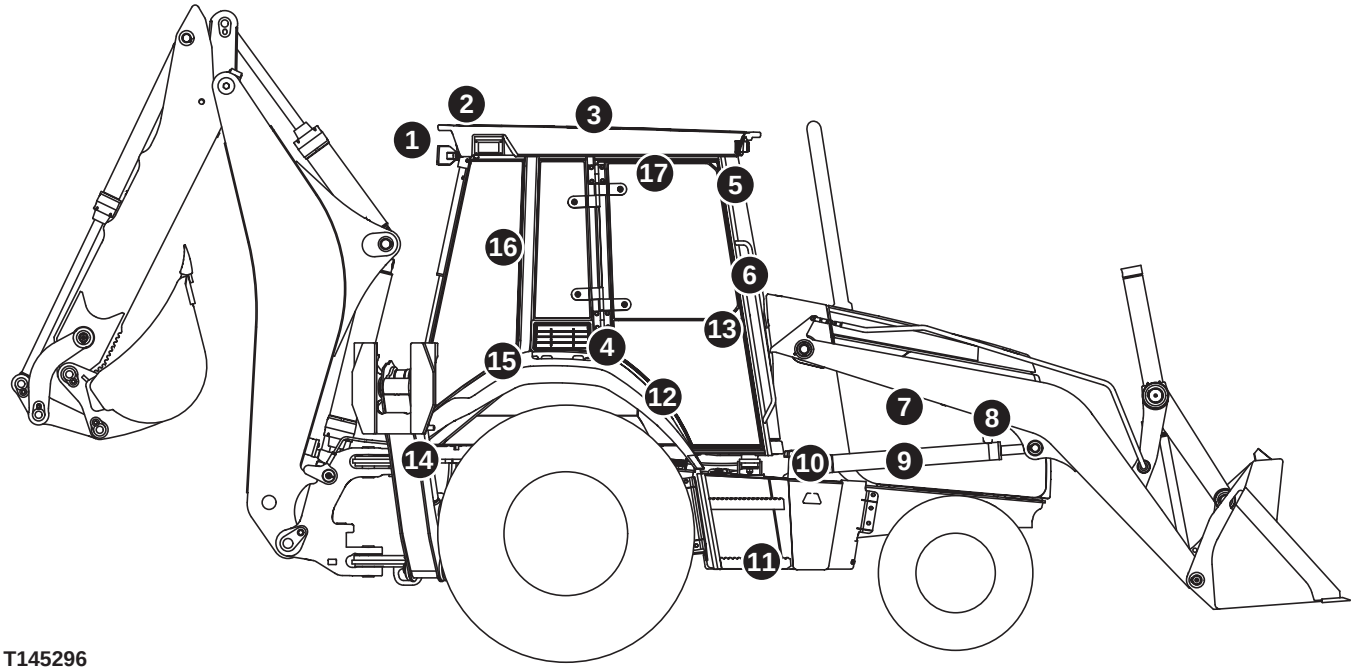
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00
01
1

Safety Features



T145296

Please remember, the **operator** is the key to preventing accidents.

1. **Headlights/Taillights.** Two front halogen driving/work lights and two rear halogen work lights.
2. **Signal/Warning Lights.** Roof mounted turning signal lights and warning lights for on-road use.
3. **ROPS Protection.** Certified rollover protection structure surrounds the operator. Integral roof provides overhead protection.
4. **Seat Position Sensor.** An audio/visual warning alerts operator when FNR is in forward/reverse and the seat turned toward the backhoe position.
5. **Interior Rearview Mirror.** Offers the operator a view of activity behind him.
6. **Handholds.** Large and conveniently placed, make it easy to enter or exit the operator's station.
7. **Loader Boom Service Lock.** Provided for working on or around this machine with the boom raised.
8. **Engine Fan Guard.** A secondary engine fan guard inside engine compartment encloses rotating fan blades.
9. **Bypass Start Protection.** Shielding over the starter solenoid helps prevent dangerous bypass starting.
10. **Ground-Level Fueling, Daily Service Checks.** Ground-level fueling feature eliminates the need to climb on the machine to fuel it.
11. **Steps.** Wide, skid-resistant steps provide excellent footing for getting in/out of operator's station.
12. **Independent Parking/Secondary Brake.** Independent, electrically controlled, parking brake electrically engages when the engine is stopped.
13. **Neutral Start.** Prevents the engine from being started unless FNR control is in neutral.
14. **Backup Alarm.** Alerts bystanders when the machine is shifted into reverse.
15. **Seat Belt Retractors.** Seatbelt retractors help keep belts clean and convenient to use.
16. **Exceptional Visibility.** Views to either side and front or rear working tools are unrestricted.
17. **Operator Manual Holder.** A sealed manual holder keeps manual clean and dry.

PRELIMINARY

TX03768,0000B8D –19–07SEP01–1/1

Service Equipment and Tools

NOTE: Order tools according to information given in the U.S. SERVICEGARD™ Catalog or from the European Microfiche Tool Catalog (MTC). Some tools may be available from a local supplier.

SERVICEGARD is a trademark of Deere & Company

CED,TX03399,5798 –19–09DEC99–1/3

Shop Floor Stand D24206WK

Used to support machine.

CED,TX03399,5798 –19–09DEC99–2/3

Heavy Duty Wheel Lift JT05726

Used to remove and install wheels.

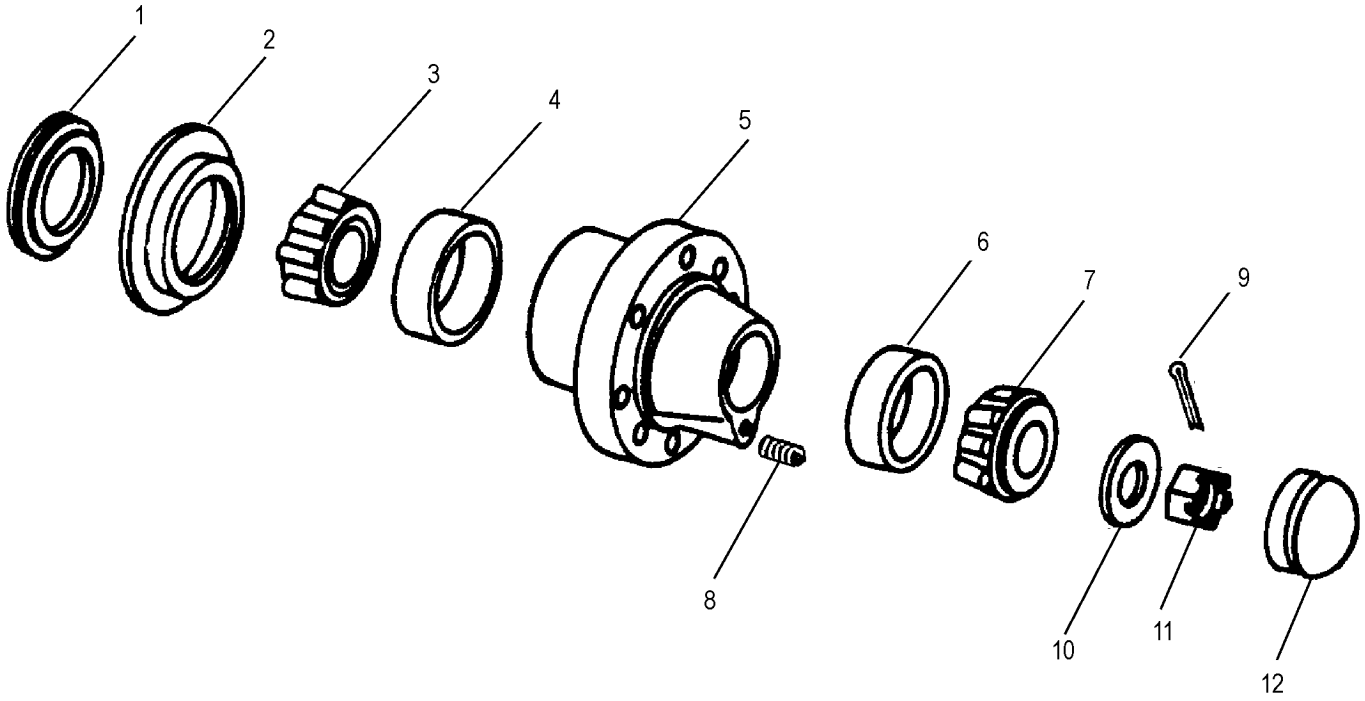
CED,TX03399,5798 –19–09DEC99–3/3

Specifications

Item	Measurement	Specification
Rear Wheel	Weight	141 kg (310 lb) (without fluid) 420 kg (930 lb) (with fluid)
Rear Wheel-to-Axle Cap Screw	Torque	495 ± 99 N•m (365 ± 73 lb-ft)
Front Wheel	Weight	50 kg (110 lb) (without fluid) 186 kg (411 lb) (with fluid)
Front Wheel-to-Hub Nut (w/MFWD) (12 x 16.5 tire size)	Torque	300 + 100 — 40 N•m (221 + 73 — 29 lb-ft)
Front Wheel-to-Hub Cap Screw (w/o MFWD) (11L x 15, 11L x 16 tire size)	Torque	136 + 20 — 68 N•m (100 + 15 — 50 lb-ft)

CED,TX03399,5799 –19–09DEC99–1/1

Remove and Install Hub Assembly (S.N. —911131)



1—Seal
2—Seal Cup
3—Inner Bearing Cone
4—Bearing Cup
5—Hub
6—Bearing Cup
7—Outer Bearing Cone
8—Set Screw
9—Cotter Pin
10—Washer
11—Castellated Nut
12—Cap

1. Remove front wheel. (See Remove and Install Front Wheel Assembly in Group 0110.)
2. Remove cap (12).
3. Remove cotter pin (9) and nut (11).
4. Remove washer (10), bearing cone (7) and hub (5).
5. Remove bearing cone (3) and seal (1).
6. Remove seal cup (2).
7. Remove all old grease. Clean parts in solvent. Allow to air dry.
8. Inspect bearing cones and cups for pitting, discoloration, or scoring. Check seal for damage or brittleness. Replace parts if necessary.

NOTE: Remove bearing cups only if replacement is necessary.

9. Remove bearing cups (4 and 6) using a brass drift.
10. Install new outer and inner bearing cups using a press. Install cups tight against shoulder in hub.
11. Pack inner and outer bearing cones (3 and 7) with multi-purpose grease.
12. Install inner bearing cone (3).
13. Install seal cup (2) using a press.

Continued on next page

Remove and Install Rear Wheel Assembly

CAUTION: Rear wheel weighs approximately 141 kg (310 lb) without fluid; 420 kg (930 lb) with fluid.

01
0110
2

Specification

Rear Wheel—Weight..... 141 kg (310 lb) (without fluid)
420 kg (930 lb) (with fluid)

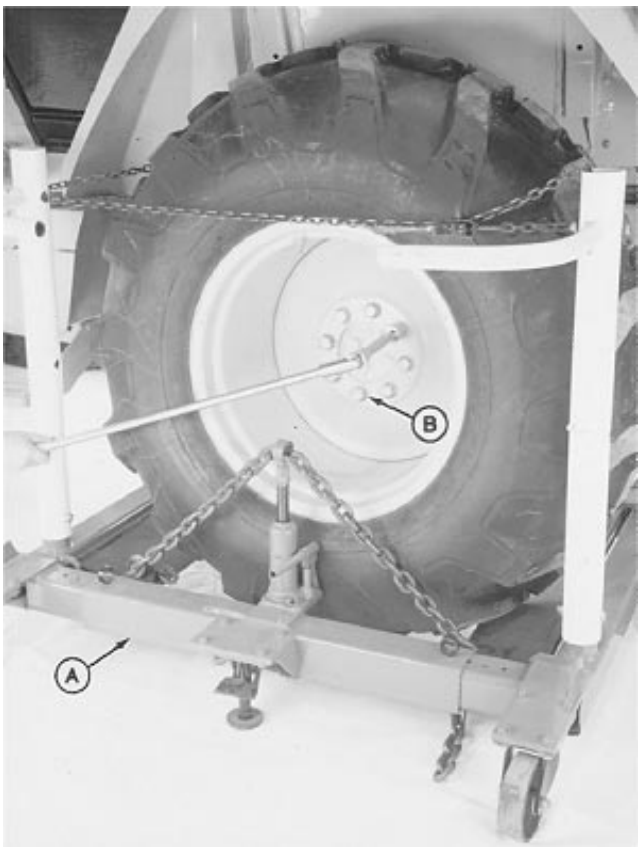
1. Loosen cap screws (B) before lifting wheel off ground.
2. Raise rear of machine until rear wheels are off ground. Install floor stands under main frame.
3. Put wheel lift (A) under wheel. Fasten safety chain around upper portion of tire.
4. Remove cap screws (B). Pull wheel assembly away from axle.
5. Clean cap screws, washers, mounting surfaces and tapped holes in flanged axle. Use compressed air to dry all parts and tapped holes
6. Install wheel using wheel lift (A).

IMPORTANT: If a power wrench is used, make sure threads of cap screws are correctly engaged to prevent damage from cross threading. Operate the wrench slowly when first starting the cap screws or start cap screws by hand.

7. Install cap screws (B). Tighten until snug.
8. Lower machine to ground.
9. Tighten cap screws (B) to specification.

Specification

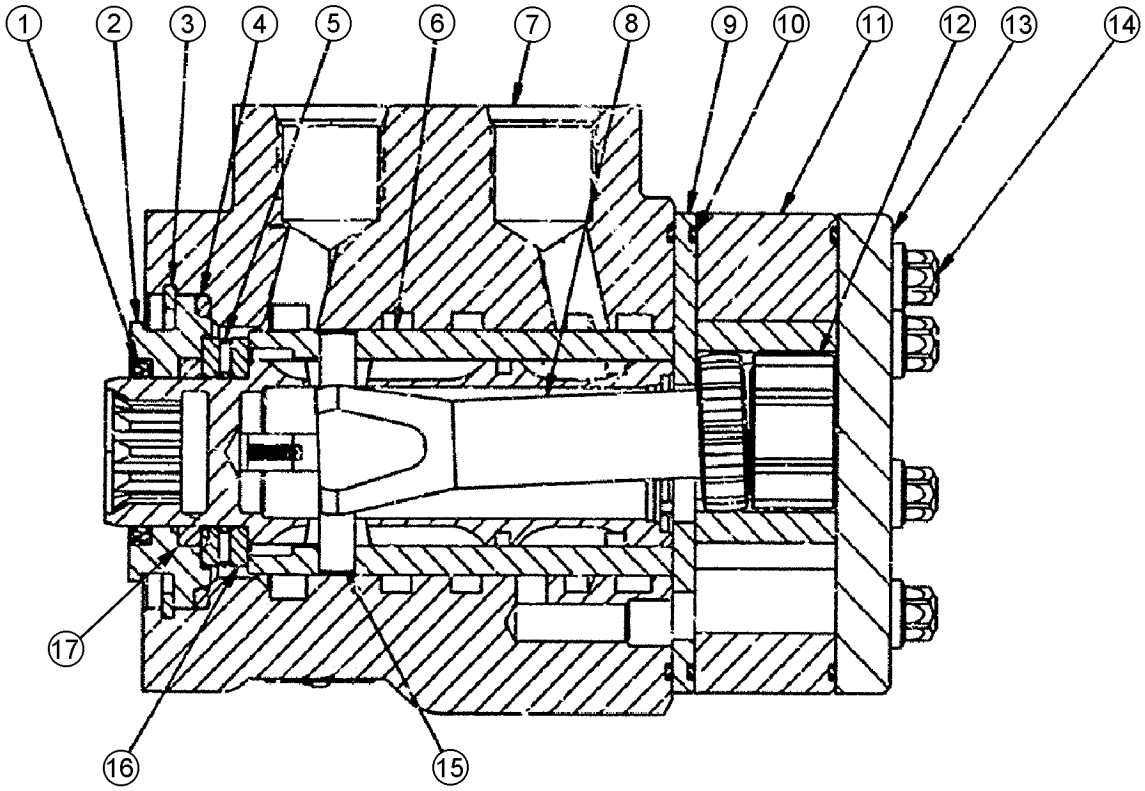
Rear Wheel-to-Axle Cap Screw—
Torque ..... 495 ± 99 N•m (365 ± 73 lb-ft)



T91786 –UN–13FEB90

TX,01,BD2811 –19–02DEC99–1/1

Cross Section of Steering Valve



T134614

T134614 –UN–19OCT00

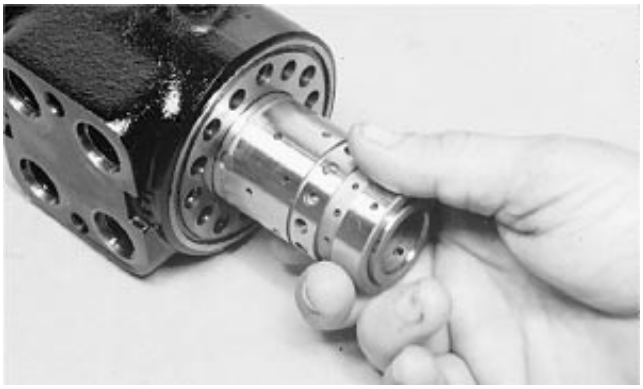
1—Dust Seal
2—Gland Bushing
3—Retaining Ring
4—O-Ring
5—Thrust Needle Bearing
6—Spool Sleeve
7—Valve Housing
8—Drive
9—Wear Plate
10—Seal
11—Gerotor
12—Spacer
13—End Cap
14—Cap Screw
15—Centering Pin
16—Bearing Race
17—Quad Seal Ring

09
0960
20

OUO1065,000044C –19–23APR03–1/1

Assemble Steering Valve

1. Thoroughly clean all parts. Apply clean hydraulic oil to all internal parts.
2. Use a steering valve seal repair kit when assembling the steering valve.
3. To prevent binding, turn the spool and sleeve assembly as it is installed.

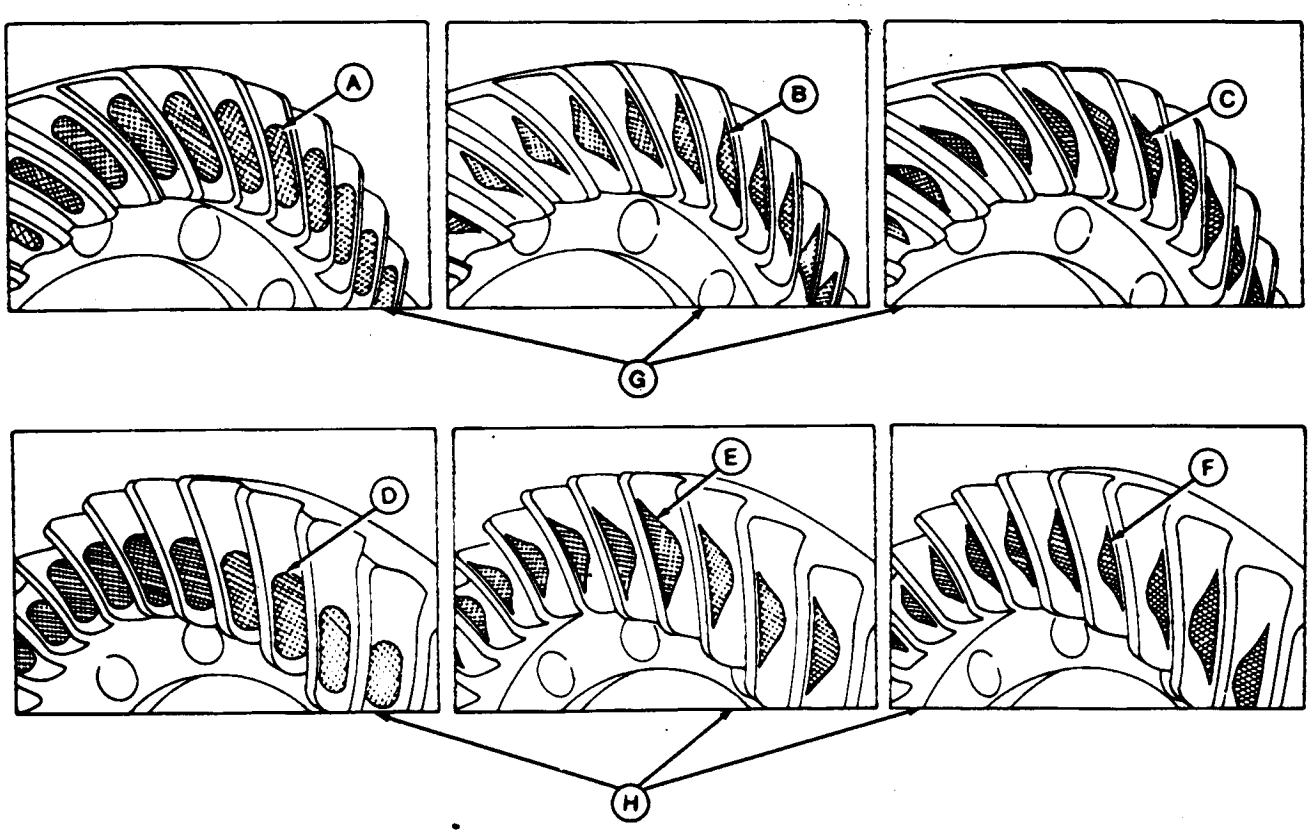


T6193AG –UN–29MAR90

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OUO1065,0000417 –19–23APR03–1/12

Check Gear Tooth Contact Pattern



T94966 –UN–18APR89

A—Ideal Tooth Contact Pattern
B—Cone Point Must Be Decreased
C—Cone Point Must Be Increased
D—Ideal Tooth Contact Pattern
E—Cone Point Must Be Decreased
F—Cone Point Must Be Increased
G—Coast Side (Concave)
H—Drive Side (Convex)

IMPORTANT: Gear tooth contact pattern must be checked on the coast side and drive side with a load applied. The pattern may be correct on the drive side and incorrect on the coast side causing the differential to "whine" when it is not engaged.

1. Apply grease to several teeth of ring gear with a load applied.
2. Apply pressure to park brake using a hydraulic hand pump or park brake release screws. If park brake release screws are used, return them to original position after test is complete.
3. Turn pinion in both directions to determine gear-tooth contact pattern. If pattern is not correct, cone point distance must be increased or decreased.

CED,OUO1010,229 –19–19JUN98–1/1

10. Pack bearings and coat seal lips with grease.

11. Install bearing cone (2) on spindle using a hammer and driver.

12. Install wheel hub (3) on spindle.

13. Install bearing cone (5) to hub and spindle.

14. Apply TY9371 LOCTITE® to cap screws (7). Position thrust plate (6) on spindle in hub and install cap screws (7). Torque cap screws to specification.

Specification

Thrust Plate Cap Screws—
Torque..... 120 N•m
89 lb-ft

15. Grease and install O-ring (4) on wheel hub cover (8). Install wheel hub cover into wheel hub.

16. Install hub cover plug (9) and tighten to specification.

Specification

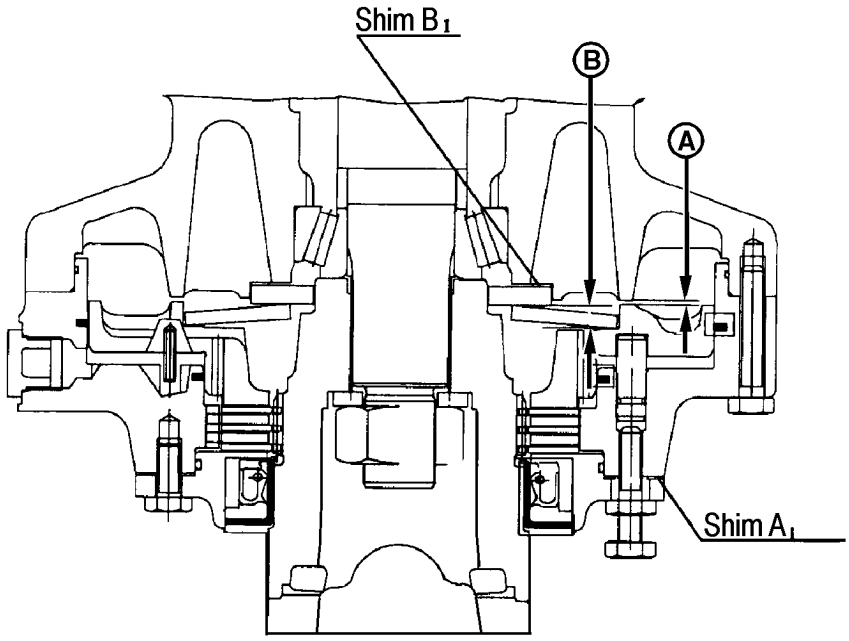
Wheel Hub Cover Plug—
Torque..... 15 N•m
11 lb-ft

17. Install wheel. See Front Wheel Assembly Remove and Install. (Group 0110.)

02
0230
4

LOCTITE is a trademark of Loctite Corp.

BT40170,000001A –19–23APR03–2/2



T111372

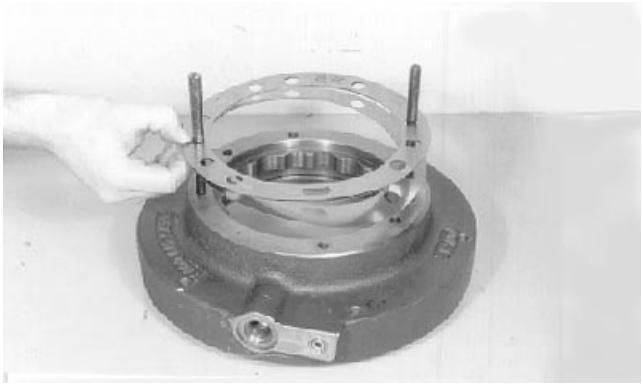
T111372 –UN–13NOV98

NOTE: For correct operation of the park brake, it is IMPORTANT that the following measurements be accurate.

30. Use the following steps to determine the shim pack required behind the park brake cover. Shims (A_1) are used to obtain dimension (A) 1.2 + 0.1 — 0 mm (0.047 + 0.004 — 0 in.) which allows correct piston travel when brake is released. Install a nominal shim pack of 0.9 mm (0.035 in.).

Rear Axle—Specification

To Determine Shim Pack Dimension for Piston Travel—Distance	1.2 + 0.1 — 0 mm (0.047 + 0.004 — 0 in.)
To Determine Shim Pack Dimension for Park Brake Spring Plate—Distance	8.7 ± 0.2 mm (0.343 ± 0.008 in.)



T106468 –UN–16JAN97

A—1.2 + 0.1 — 0 mm (0.047 + 0.004 — 0 in.)
A1—Shims
B—8.7 ± 0.2 mm (0.343 ± 0.008 in.)
B1—Shims

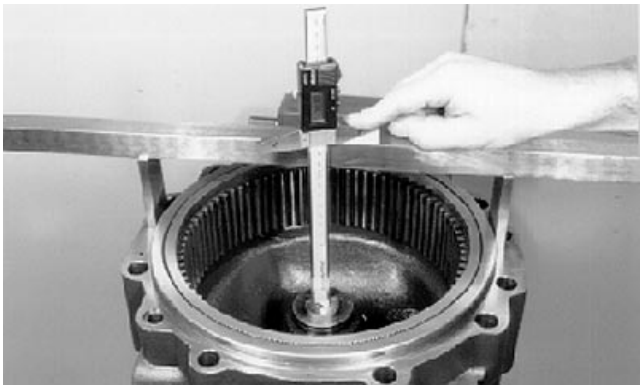
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51. If stop was not removed, go to step 55. Use the followings steps to determine the number of shims required behind the (brass) stop (if removed) on the end of the sun gear shaft:

NOTE: If necessary, old stop can be removed by drilling and tapping stop. If removed, a new stop must be installed during assembly.

52. Measure and record dimension I.

EXAMPLE OF DIMENSION (I)	
Flange mounting surface-to-shoulder at bottom of axle stop	78.40 mm (3.086 in.)



T106592 –UN–17JAN97

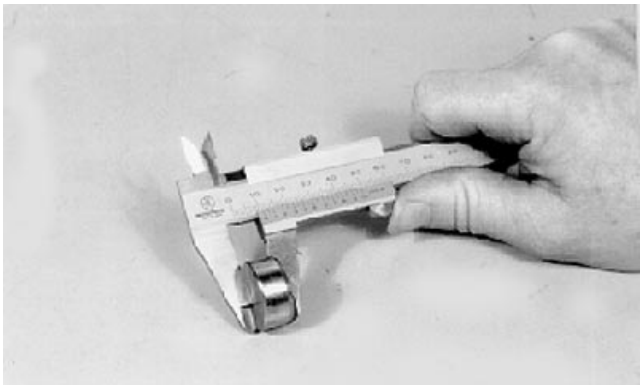
TX,02,YY2217 –19–05DEC02–36/50

53. Measure and record height of new stop.

EXAMPLE OF DIMENSION (II)	
Height of stop	11.00 mm (0.433 in.)

54. Record differential dimension.

EXAMPLE F1	
Dimension I	78.40 mm (3.086 in.)
Minus dimension II	— 11.00 mm (0.433 in.)
Equals differential dimension	= 67.40 mm (2.653 in.)



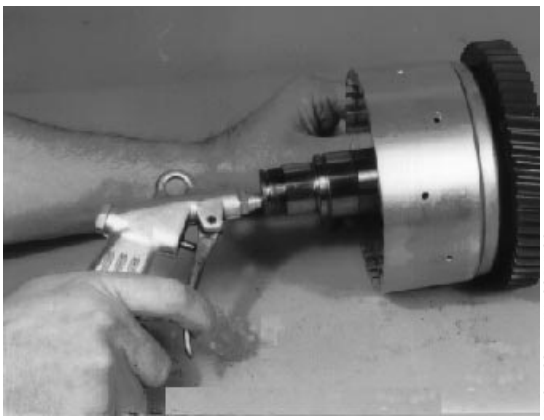
T106593 –UN–17JAN97

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TX,02,YY2217 –19–05DEC02–37/50

IMPORTANT: Gear, drum, and shaft are serviced as a assembly. Do not take apart or damage will occur.

10. Remove piston from shaft using compressed air.


T101536 –UN–08JUL96

TX,03,BD2839 –19–21OCT99–6/20

11. Remove O-rings from piston. Ball in piston must move freely in bore.


T101537 –UN–05NOV96

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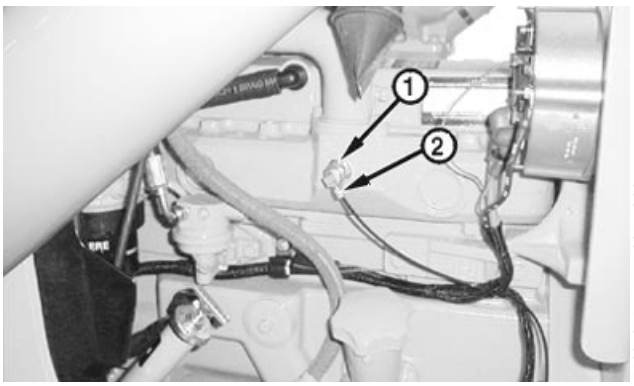
TX,03,BD2839 –19–21OCT99–7/20

Remove and Install Starting Aid Nozzle

CAUTION: Before working on machine with loader in raised position, install boom lock bar.

1. Raise loader boom and install boom lock bar.
2. Open engine hood.
3. Disconnect starting aid tube (2).
4. Remove nozzle holder (1) from air inlet.

1—Nozzle Holder
2—Starting Aid Tube

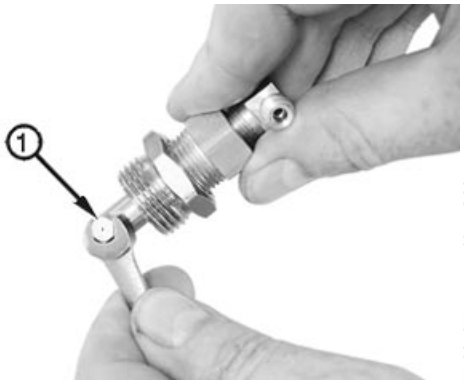


T133494B –UN–28AUG00

CED,OUO1010,1072 –19–23AUG00–1/3

5. Remove nozzle (1) from holder.
6. Clean or replace nozzle as required.

1—Nozzle



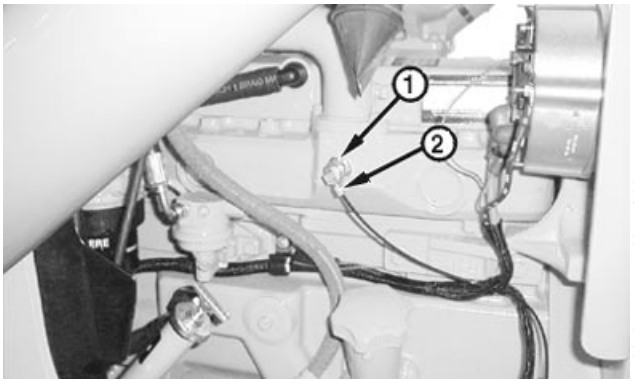
T133495B –UN–28AUG00

CED,OUO1010,1072 –19–23AUG00–2/3

NOTE: Arrow on nozzle holder indicates direction of nozzle.

7. Install nozzle holder in air inlet with arrow pointing up.
8. Connect starting aid tube (2) to nozzle holder.
9. Close engine hood.
10. Disengage boom lock bar and lower loader boom to ground.

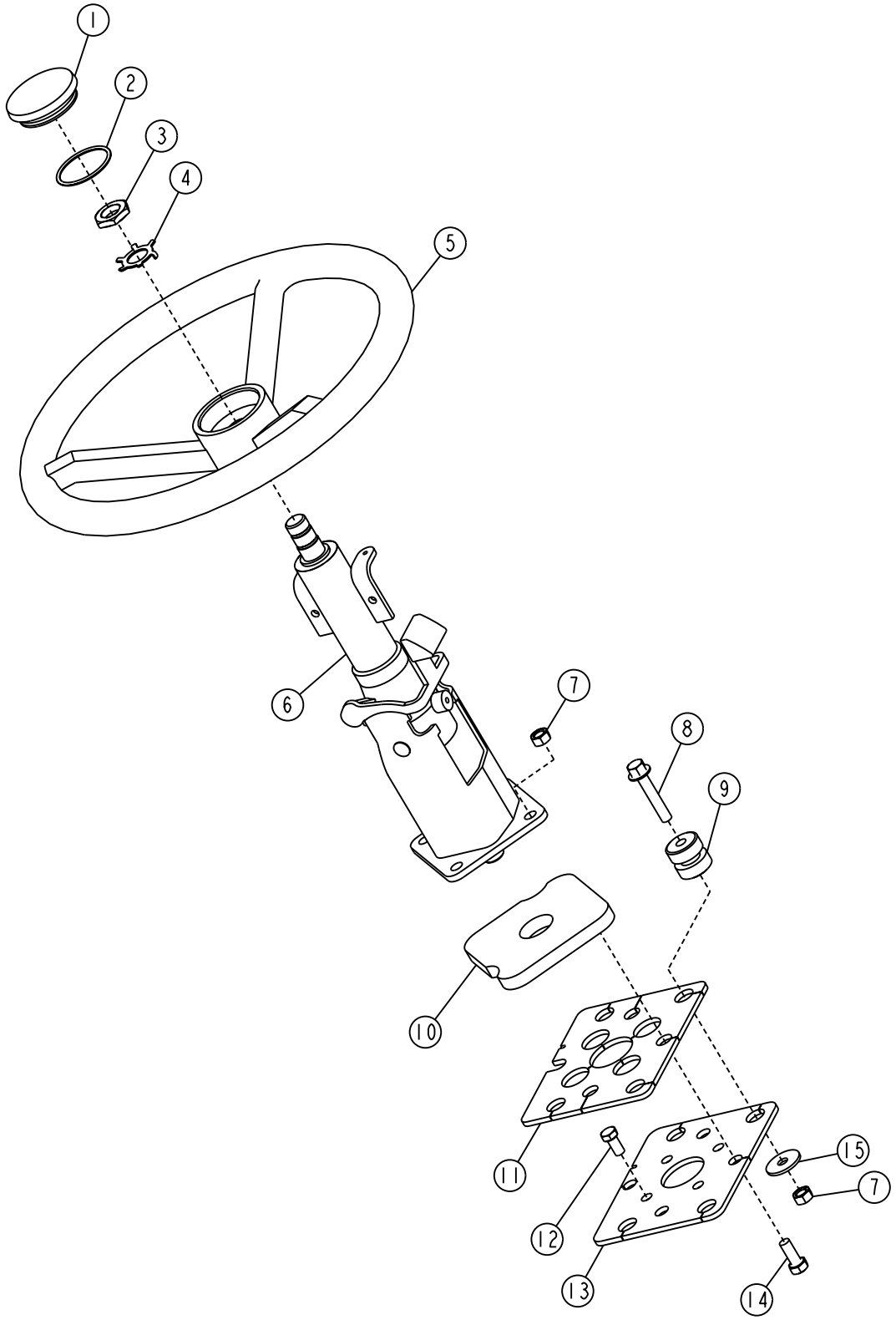
1—Nozzle Holder
2—Starting Aid Tube



T133494B –UN–28AUG00

CED,OUO1010,1072 –19–23AUG00–3/3

Disassemble and Assemble Tilt Steering Wheel and Column



Continued on next page

OUO1065,000041A –19–23APR03–1/2

11. Disconnect pressure switch connectors (2).

12. Drain hydraulic reservoir or apply a vacuum to the reservoir. The approximately capacity of reservoir is 37 L (39 qt).

CAUTION: Escaping fluid under pressure can penetrate the skin causing serious injury. Avoid the hazard by relieving pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure. Search for leaks with a piece of cardboard. Protect hands and body from high pressure fluids.

If an accident occurs, see a doctor immediately. Any fluid injected into the skin must be surgically removed within a few hours or gangrene may result. Doctors unfamiliar with this type of injury should reference a knowledgeable medical source. Such information is available from Deere & Company Medical Department in Moline, Illinois, U.S.A.

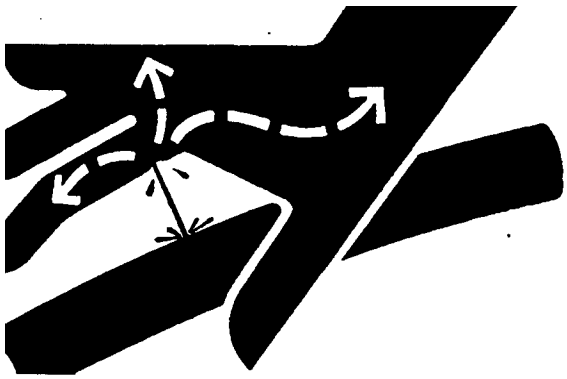
13. Disconnect all hoses from brake valve (4). Disconnect hoses as follows:

    a. Clean area around the STC “quick disconnect” hose fittings.

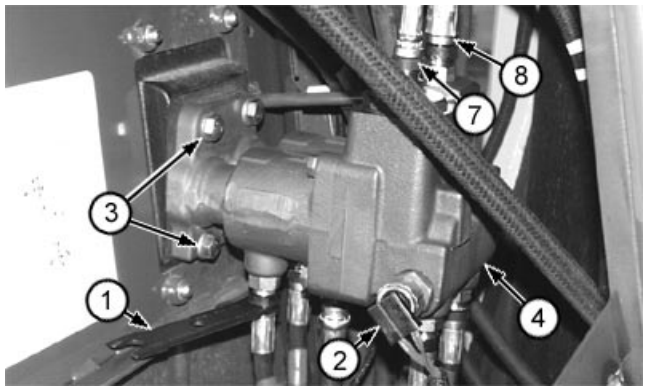
IMPORTANT: DO NOT pry against release sleeve (5) or damage to fitting may result.

DO NOT force release sleeve beyond normal range of travel, otherwise, release sleeve may fall off when hose is disconnected. If this happens and fitting is connected without the release sleeve installed, fitting will not be able to be disconnected again.

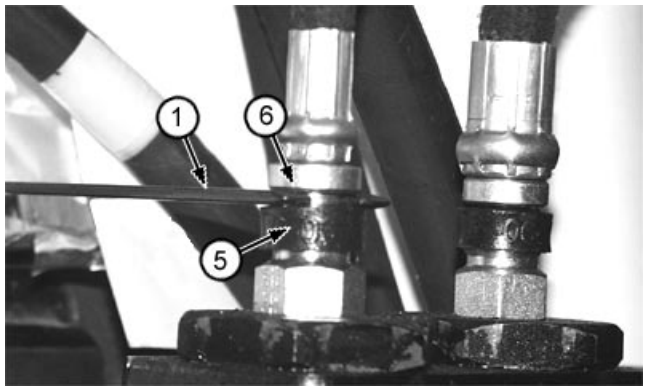
    b. Insert special tool JDG1385 (1) between release sleeve (5) and shoulder (6) of fitting. Do not force the release sleeve away from the shoulder by prying. The thickness of the tool will push the sleeve sufficiently to disconnect the fitting.



X9811 –UN–23AUG88



T134186F –UN–25APR03



T134793B –UN–24OCT00

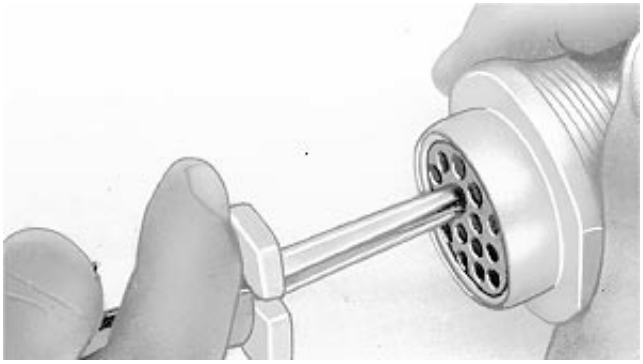
1—JDG1385 Special Tool
2—Brake Light Pressure Switch Connector (2 used)
3—Cap screws (4 used)
4—Brake Valve
5—Release Sleeve
6—Hose Shoulder
7—Fitting 7
8—Fitting 8

10
1060
3

Continued on next page

IMPORTANT: Do NOT twist tool when inserting in connector.

4. Slide extractor tool along wire into connector body until it is positioned over terminal contact.



TS120 –UN–23AUG88

TX,16,QQ9341 –19–29OCT96–3/5

5. Pull wire, with extractor tool, out of connector body.

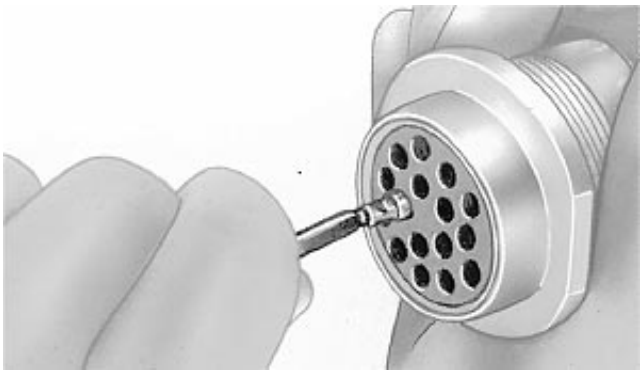


TS0126 –UN–23AUG88

TX,16,QQ9341 –19–29OCT96–4/5

IMPORTANT: Install contact in proper location using correct size grommet.

6. Push contact straight into connector body until positive stop is felt.
7. Pull on wire slightly to be certain contact is locked in place.
8. Transfer remaining wires to correct terminal in new connector.



TS122 –UN–23AUG88

TX,16,QQ9341 –19–29OCT96–5/5

1—Front Upper Windowpane
2—Stand Off
3—Seal (2 used)
4—Front Right Lower
5—Front Left Lower

Replace front windowpanes. (See Remove and Install Fixed Windowpanes in this group).

OUO1065,000042B –19–09NOV00–2/2

Remove and Install Fixed Windowpanes

NOTE: Use this procedure to replace cab front, rear side, and lower door windowpanes.

Use Quick Cure Primerless Autoglass Windshield Sealant or equivalent to hold windowpanes in place. DO NOT use any other type of adhesive other than a urethane. It is also recommended that an auto glass dealer install the windowpanes.

IMPORTANT: Windowpanes must have an ultra-violet barrier around the edge of the glass since ultra-violet rays will deteriorate the adhesive. Windowpanes ordered through John Deere Parts have the ultra-violet barrier. If the windowpane is purchased through a glass dealer, the dealer must put an ultra-violet barrier on the glass. DO NOT apply paint to the border of the glass.

If an auto glass dealer is not installing the windowpanes, use the following procedure:

1. Purchase urethane adhesive from your local auto glass dealer.
2. If window frame is removable, remove frame from cab.
3. Scrape broken glass off existing adhesive. DO NOT remove adhesive from window frame or cab.
4. Trim existing adhesive so it has a smooth surface.
5. Apply a 12.5 mm (1/2 in.) bead of adhesive on top of the existing adhesive.
6. Put a new windowpane into position. Use light hand pressure to force windowpane down around the edges until even with metal frame. DO NOT over press adhesive.
7. If windowpane is installed directly on cab, use tape to hold it in place while adhesive cures.
8. Allow adhesive to cure for 24 hours before operating machine.

TX,18,QQ9601 –19–20OCT00–1/1

3. Hold the clutch hub using JDG747 Compressor Clutch Spanner (A) and remove the clutch shaft bolt (B).

4. Remove the clutch hub (C). Remove the shims (H) from the clutch hub and save for installation.

5. Remove and discard snap ring (D). Remove the pulley (E) using a plastic hammer or JDG220 Puller, JDG748 Jaws and JDG771 Forcing Screw.

6. Disconnect the clutch coil lead wire. Remove and discard the snap ring (F) and remove the clutch coil (G).

NOTE: The bearing in the pulley is NOT serviceable.

7. Check pulley bearing operation. Replace pulley and bearing as required.

8. Install the clutch coil and new snap ring with flat side of the snap ring down. Connect the clutch coil lead wire.

9. Install the pulley and new snap ring with the flat side of the snap ring down. Apply grease to the shims (H) and install to the clutch hub.

10. Install clutch hub and shaft bolt and tighten to specification.

Specification

Compressor Hub Retaining Nut—Torque ..... 14 N•m (120 lb-in.)

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Check Clutch Hub Clearance

NOTE: The clutch coil is NOT polarity sensitive.

1. Check pulley-to-clutch hub clearance using a dial indicator. Mount the gauge to the pulley as illustrated and connect a set of jumper wires from the compressor to a 12V battery.

2. Rotate the pulley and check clearance in three equally spaced locations around the clutch hub. Correct clearance is per specification. Add or remove shims as required.

Specification

Pulley-to-Clutch Hub—Clearance..... 0.35—0.65 mm (0.014—0.026 in.)

3. Tighten clutch shaft bolt to specification after correct clearance is obtained.

Specification

Clutch Shaft Bolt—Torque..... 14 N•m (120 lb-in.)



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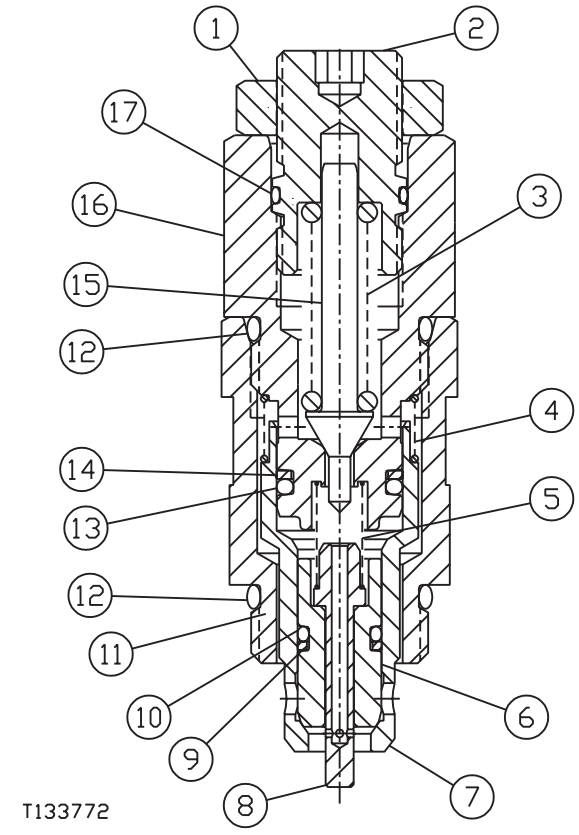
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Disassemble and Assemble Bucket Dump Relief Valve with Anti-Cavitation

1. Disassemble and inspect parts for wear and damage. Replace as necessary.
2. Put clean hydraulic oil on all parts before assembly.
3. Tighten nut (1) and valve body (16) to specifications. Reference relief valve installation torque.

Loader Control Valve—Specification

Bucket Dump Relief Valve Nut—Torque	24 ± 4.7 N•m (18 ± 2 lb-ft)
Bucket Dump Relief Valve Body—Torque	65 ± 7 N•m (48 ± 5 lb-ft)
Bucket Dump Relief Valve (Installation)—Torque	65 ± 7 N•m (48 ± 5 lb-ft)



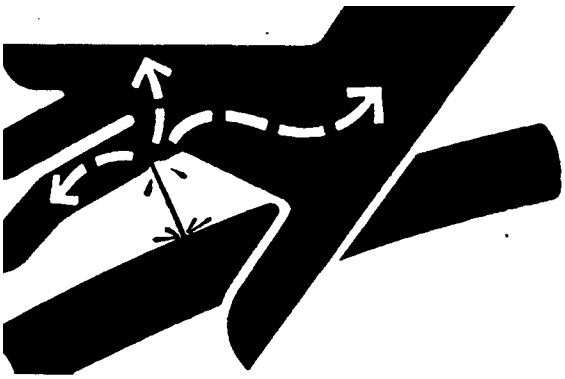
T133772 –UN–14SEP00

1—Nut
2—Adjustment Screw
3—Spring
4—Spring
5—Spring
6—Poppet
7—Poppet
8—Piston
9—Backup Ring
10—O-Ring
11—Valve Body
12—O-Ring (2 used)
13—O-Ring
14—Backup Ring
15—Pilot Poppet
16—Valve Body
17—O-Ring

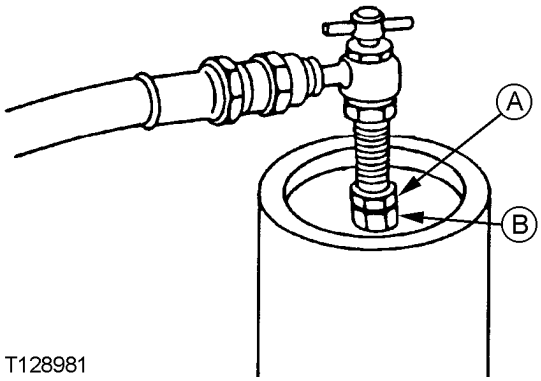
TX03399,0001856 –19–12SEP00–1/1

CAUTION: Hydraulic oil may escape at pressure high enough to penetrate skin from components in the Ride Control solenoid circuit if components are removed without discharging this accumulator. Hydraulic oil in accumulator can be stored at pressures equal to or above system relief pressures. Escaping fluid under pressure can penetrate the skin causing serious injury. Avoid the hazard by relieving pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure. Search for leaks with a piece of cardboard. Protect hands and body from high pressure fluids.

If an accident occurs, see a doctor immediately. Any fluid injected into the skin must be surgically removed within a few hours or gangrene may result. Doctors unfamiliar with this type of injury should reference a knowledgeable medical source. Such information is available from Deere & Company Medical Department in Moline, Illinois, U.S.A.



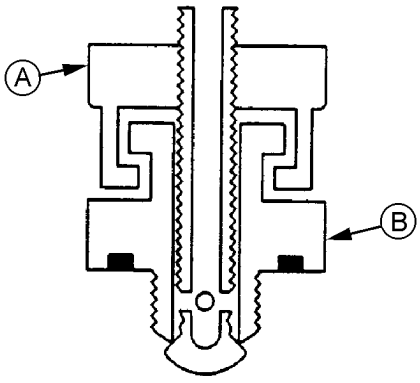
X9811 –UN–23AUG88



T128981

T128981 –UN–03MAR00

3. Loosen hose fitting on bottom of ride control accumulator to release any trapped oil pressure. Leave fitting loose until after charge pressure process is complete.



T128982

T128982 –UN–03MAR00

A—Top Nut
B—Bottom Nut

4. Remove cover and cap from top of accumulator.

IMPORTANT: Charge accumulator using only dry nitrogen. Dry nitrogen does not mix with oil and is non-combustible. It will not cause oxidation or condensation inside accumulator and is not harmful to piston seal. DO NOT use air or any combustible gas as these can cause oxidation and condensation. Oxidation and condensation are harmful to piston seal and accumulator.

5. Turn handle on gas cock fully counterclockwise. Attach gas cock, hose, and regulator to accumulator.

Continued on next page

1—Outer Box
2—Extendible Dipperstick Cylinder
3—Washer (12 used)
4—Internal Wear Pad (4 used)
5—Cap Screws (12 used)
6—Shim (as required)
7—Shim (as required)
8—Upper Outer Wear Pad
9—Cap Screw (6 used)
10—Lower Outer Wear Pad
11—Pin
12—Lock Nut

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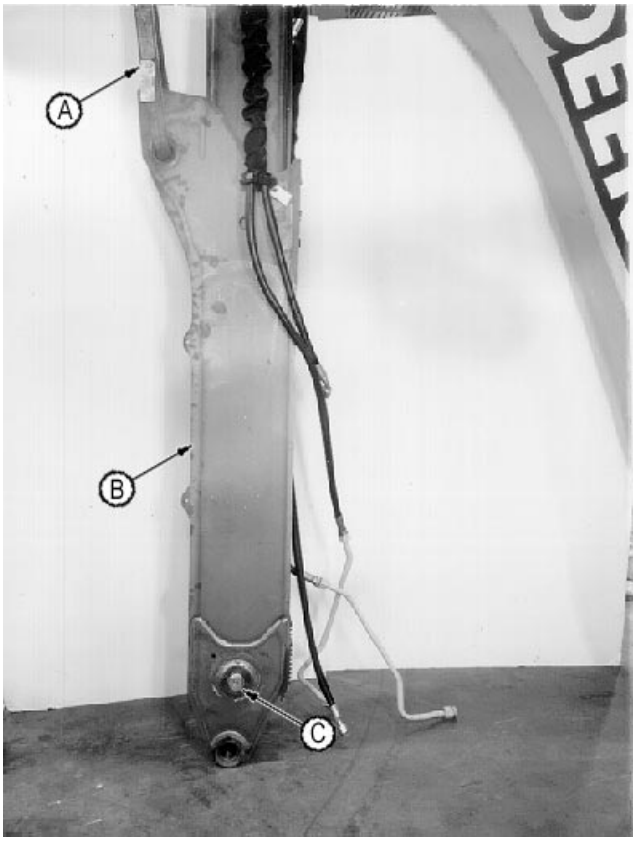
1. Park machine on level surface. Extend boom and extendible dipperstick to maximum reach with bucket dumped and lowered to the ground.
2. Stop engine and set park brake.
3. Remove bucket, links, and quick coupler (if equipped). (See procedure in Group 3302.)
4. Remove bucket cylinder. (See procedure in Group 3360.) Let hoses and lines hang to the side.
5. Remove outer upper (8) and outer lower (10) wear pads. Remove shims (7) (if equipped).

CAUTION: Prevent possible injury from falling dipperstick extension. Make sure hoist is attached to dipperstick extension. When extendible cylinder rod end pin is re moved, dipperstick extension can drop suddenly. Dipperstick extension weighs approximately 386 kg (850 lb).

Specification

Dipperstick Extension—Weight ..... 385 kg (850 lb) (Approximate)

6. Install a hoist and chain to dipperstick extension (A)
7. Remove snap ring and remove extendible dipperstick cylinder rod end pin (C).
8. Raise boom and put dipperstick extension in vertical position (B). While raising boom and moving dipperstick toward machine with extension supported on the ground, raise boom until extension can be removed.
9. Inspect internal dipperstick wear pads (4). Replace if necessary.



A—Dipperstick Extension
B—Dipperstick Extension in Vertical Position
C—Cylinder Rod End Pin

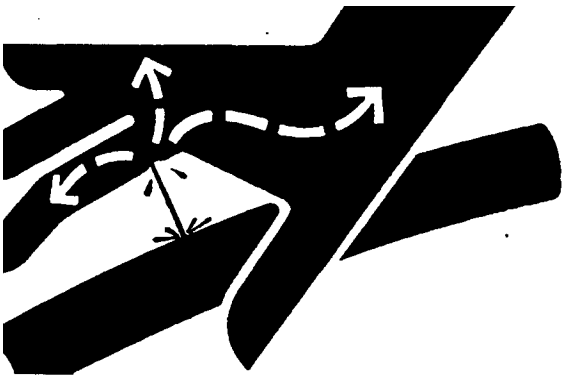
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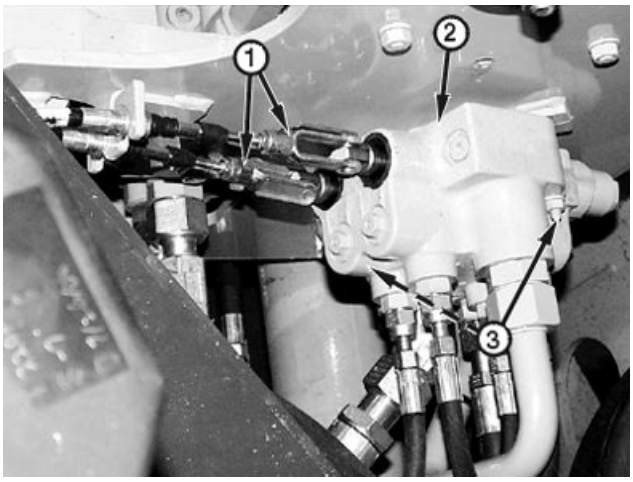
CED,OUO1010,489 –19–28FEB02–3/4

CAUTION: Escaping fluid under pressure can penetrate the skin causing serious injury. Avoid the hazard by relieving pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure. Search for leaks with a piece of cardboard. Protect hands and body from high pressure fluids.

If an accident occurs, see a doctor immediately. Any fluid injected into the skin must be surgically removed within a few hours or gangrene may result. Doctors unfamiliar with this type of injury should reference a knowledgeable medical source. Such information is available from Deere & Company Medical Department in Moline, Illinois, U.S.A.



X9811 –UN–23AUG88



T133985B –UN–29SEP00

1—Stabilizer Linkage
2—Stabilizer Valve
3—Nuts and Washers (2 of each used)

7. Tag and disconnect all lines from stabilizer valve (2). Close all openings with caps or plugs.
8. Disconnect stabilizer linkage (1) at valve spools.
9. Remove two mounting nuts and washers (3). Remove stabilizer valve.
10. Repair or replace stabilizer valve as necessary.
11. Install stabilizer valve. Fasten with nuts and washers (3).
12. Connect stabilizer linkage (1) to stabilizer valve.
13. Connect hydraulic hoses and lines.

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3360
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