TM

Technical Manual

John Deere 450E Crawler Bulldozer 455E Crawler Loader Repair

TM1330 (01OCT87)

JOHN DEERE

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450E CRAWLER BULLDOZER AND 455E CRAWLER LOADER TECHNICAL MANUAL TM-1330 (Oct-87)

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SAFETY AND YOU

This safety-alert symbol means ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!

When you see this symbol on your machine or in your manual, be alert to the possibility of personal injury. Follow the instructions in the safety message.

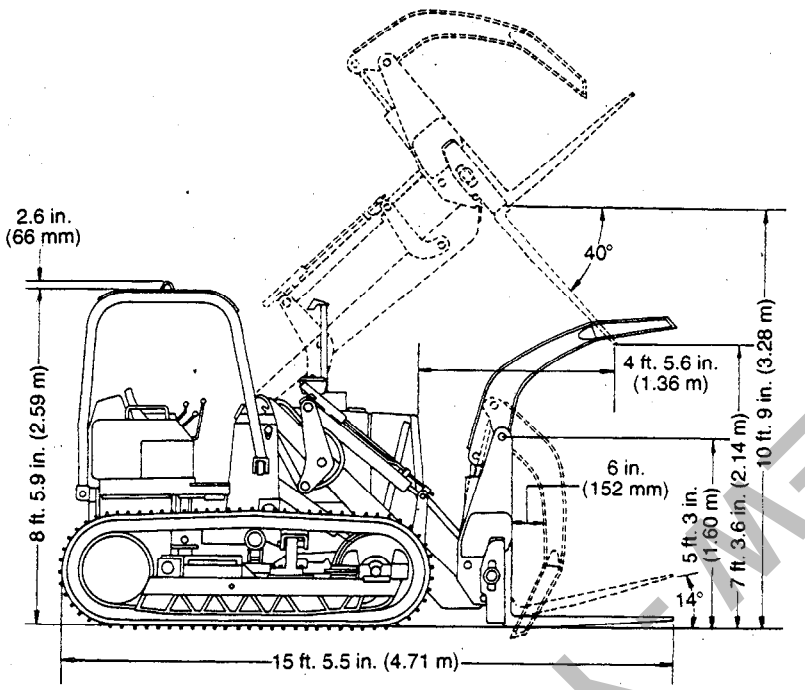


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455E Log and Lumber Loader

88A;T5936AB T82;CRSP Y 111284

GENERAL SPECIFICATIONS

Engine:

John Deere 4-cylinder turbocharged diesel
SAE net horsepower ..... 70 hp (52 kw)
Piston displacement ..... 276 cu. in. (4.524 L)
Fan ..... Blower
Electrical system ..... 12 volt with alternator
Battery (12 volt) . Reserve capacity: 180 minutes

Steering:

Clutches ..... Oil-cooled, hydraulically activated, multiple disk, 11 in. (279 mm) disks; 16 friction surfaces per clutch.

Hydraulic Cylinders

(450E):	Bore	Stroke
Lift (2)	3.5 in. (89 mm)	15 in. (381 mm)
Angle (2)	3.5 in. (89 mm)	13.375 in. (343 mm)
Tilt (1) (6405) ..	3.5 in. (89 mm)	3 in. (76 mm)
Tilt (1) (6415) ..	4.5 in. (114 mm)	3 in. (76 mm)
(455E):	**Bore**	**Stroke**
Boom (2) ..	4.25 in. (108 mm)	28.25 in. (718 mm)
Bucket (2)	3.5 in. (89 mm)	31.1 in. (790 mm)

Hydraulic System:

Pressure ..... 2250 psi (15 514 kPa)
Pump flow at 2000 rpm (450E):
Large pump ... New—18.1 gpm (68.4 L/min)
Used—15.3 gpm (57.7 L/min)
Small pump .... New—14.2 gpm (53.7 L/min)
Used—11.2 gpm (42.3 L/min)
Long Track .... New—12.0 gpm (45.4 L/min)
Used—9.4 gpm (35.7 L/min)
Pump flow at 2000 rpm (455E):
Pump ..... New—23.3 gpm (88.3 L/min)
Used—19.7 gpm (74.6 L/min)

Undercarriage:

Track shoes, each side:
450E 36
450ELT 39
455E 37
Track gauge ..... 52 in. (1.27 m)
450ELT ..... 54 in. (1.37 m)
450ELT Wide Track ..... 60 in. (1.52 m)
Clearance at rear crossbar .. 14.25 in. (362 mm)

T82;CRSP AT 200285

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HARDWARE TORQUE SPECIFICATIONS

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

T82;CRMA EC 260785

NOTE: Torques shown are for dry (no lubrication on threads) hardware.

NOTE: Torque wrench tolerance is ± 10 per cent of specified torque.

Customary Hardware

Cap Screw Size-Inches	Grade B		Grade D		Grade F	
	lb-ft.	(N-m)	lb-ft.	(N-m)	lb-ft.	(N-m)
1/4	----	----	10	(14)	14	(19)
5/16	----	----	20	(27)	30	(41)
3/8	----	----	35	(47)	50	(68)
7/16	35	(47)	55	(75)	80	(108)
1/2	55	(75)	85	(115)	120	(163)
9/16	75	(102)	130	(176)	175	(237)
5/8	105	(142)	170	(230)	240	(325)
3/4	185	(251)	300	(407)	425	(576)
7/8	160	(217)	445	(603)	685	(929)
1	250	(339)	670	(908)	1030	(1396)
1-1/8	330	(447)	910	(1234)	1460	(1979)
1-1/4	480	(651)	1250	(1695)	2060	(2793)

44A;T88884 T82;EXMA S 120684

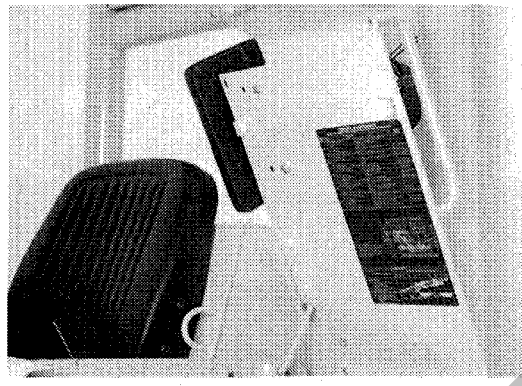
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USE PERIODIC MAINTENANCE CHART

The chart and the operator's manual list all the service points and the procedures for maintaining the machine. Use them to check, service, and adjust your customer's machine.



000;T6009AU T82;CRPD EG 070185

FUEL SPECIFICATIONS

Use ONLY clean, high-quality fuel.

Use Grade No. 2-D fuel above 4°C (40°F).

Use Grade No. 1-D fuel below 4°C (40°F).

Use Grade No. 1-D fuel for all air temperatures at altitudes above 1 500 m (5000 ft).

IMPORTANT: If fuel sulfur content exceeds 0.5 per cent, the engine oil drain interval must be reduced by 50 per cent (to 125 hours).

Use fuel with less than 1.0 per cent sulfur. If possible, use fuel with less than 0.5 per cent sulfur.

For maximum filter life, sediment and water should not be more than 0.10 per cent.

The cetane number should be 40 minimum. If you operate your machine where air temperatures are normally low or where altitudes are high, you may need fuel with a higher cetane number.

Cloud Point—For cold weather operation, cloud point should be 6°C (10°F) below lowest normal air temperature.

T82;BHFL F. 310186

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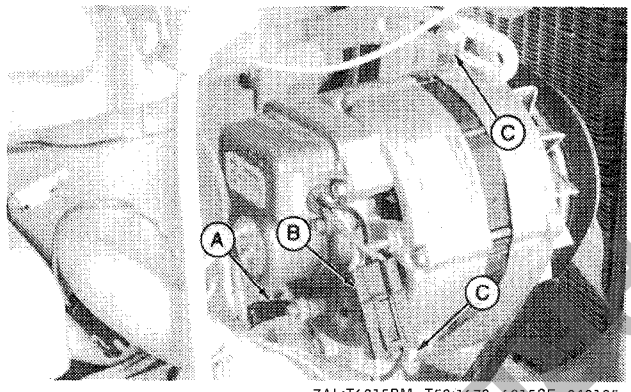
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REMOVE ALTERNATOR

IMPORTANT: Turn battery disconnect switch to "OFF" position to prevent accidental grounding of alternator wires.

1. Disconnect wires (A) and wire leads (B).

2. Remove cap screws (C) to remove alternator.



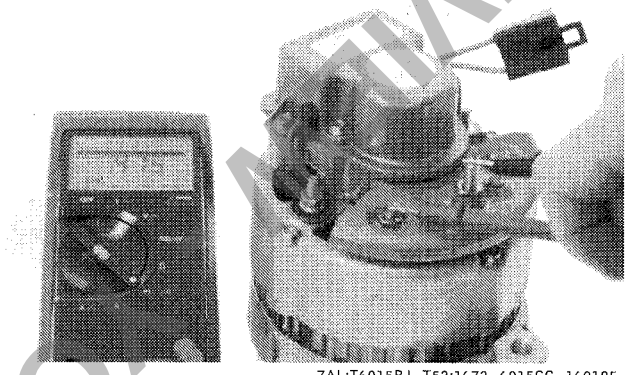
7AL;T6015BM T52;1672 6015GE 040185

DISASSEMBLE AND TEST ALTERNATOR

NOTE: Never immerse alternator in cleaning solution. Scrape off dirt and grease before using a stiff brush and solvent.

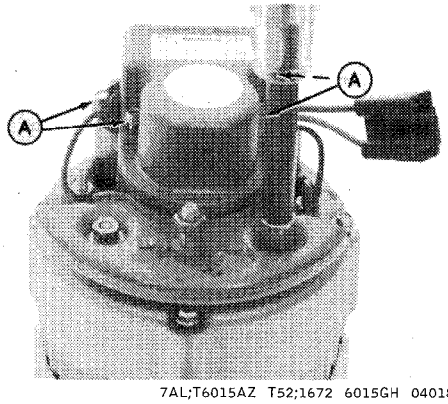
1. Check isolation diode using digital volt-ohm-amp meter with selector indicator in diode test position.

The meter must register OL in one direction and approximately 0.5 volts in the other. If it does not, replace diode.



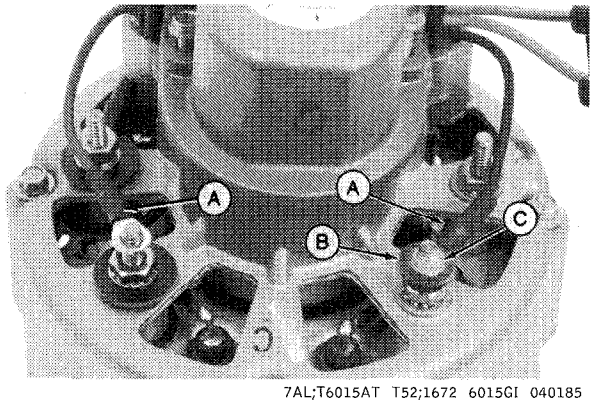
7AL;T6015BJ T52;1672 6015GG 160185

2. Loosen regulator cap screws (A). Remove two nuts to remove isolation diode plate.



7AL;T6015AZ T52;1672 6015GH 040185

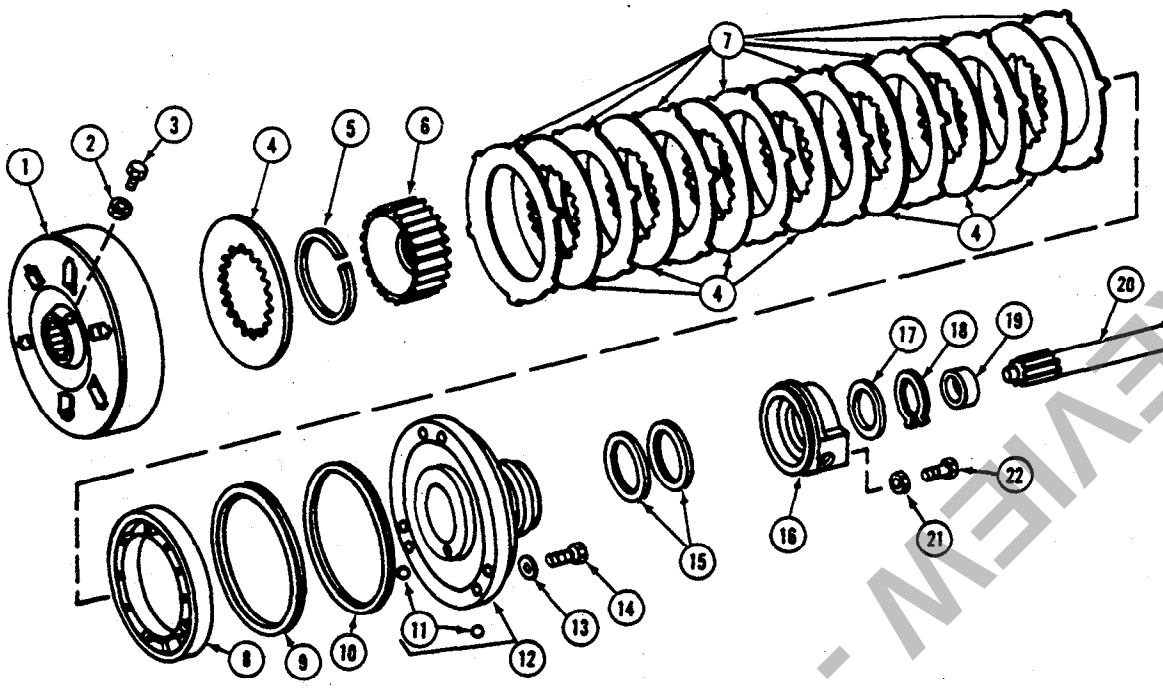
3. Remove sleeve (C), insulator washer (B) and regulator wires (A) from alternator terminals.



7AL;T6015AT T52;1672 6015GI 040185

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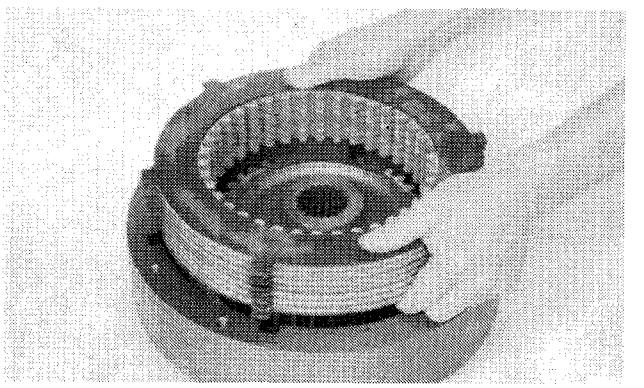
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1—Steering Brake Drum
2—Jam Nut
3—Set Screw
4—Steering Clutch Facing (8 used)
5—Snap Ring
6—Steering Clutch Hub
7—Driveing Plate (8 used)
8—Clutch Piston
9—Sealing Ring
10—Sealing Ring
11—Ball (2 used)
12—Clutch Piston Housing
13—Washer (6 used)
14—Cap Screw (6 used)
15—Sealing Ring (2 used)
16—Clutch Pressure Manifold Ring
17—Special Washer
18—Snap Ring
19—Pilot Ball Bearing
20—Drive Shaft
21—Jam Nut
22—Cap Screw

9AG;T91161 T47;0250 188 070683

4. Alternately install steel plates and clutch facings. A total of eight clutch facings and eight steel plates are used. The stack ends with a steel plate which is contacted by the clutch piston.



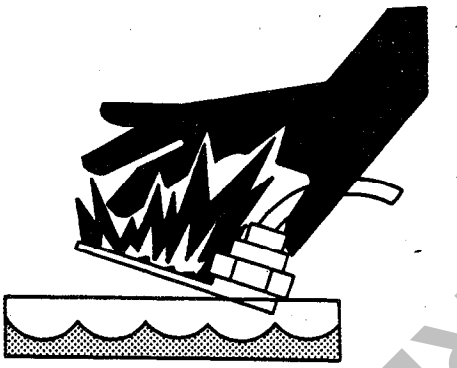
9AG;T91352 T47;0250 201 070683

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CAUTION: Do not plug coolant heater into electrical power unless heating element is immersed in coolant. Sheath could burst and result in personal injury.

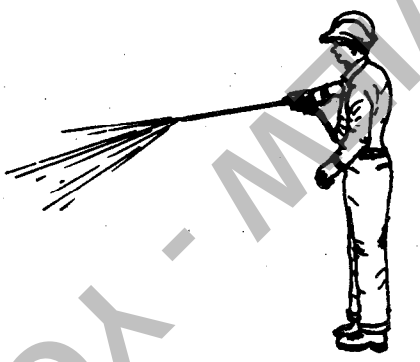
Use a heavy-duty grounded cord to connect coolant heater to electrical power.



AB6;TS210 02T;05 K53 221087

CLEAN THE MACHINE REGULARLY

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



000;T5813AM T82;CRSA AH 051284

PREPARE MACHINE FOR REPAIR

1. Lower all equipment to the ground.
2. Move HLR lever to neutral "N" position.
3. Turn HLR neutral-lock lever to lock position.
4. Move gear shift lever to the neutral "N" position.
5. Apply and lock foot brake.
6. Stop the engine.
7. Operate all hydraulic control levers to release hydraulic pressure in the system.
8. Disconnect negative (-) battery cable.



88A;T5933AM T82;CRSA AZ 080185

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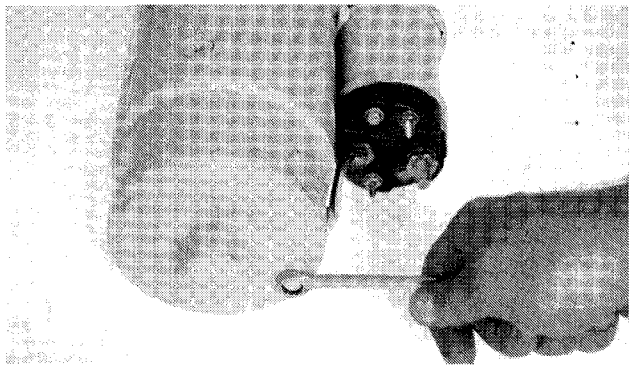
DIAGNOSE NO-LOAD TEST

Problem	Possible Cause	Verification/Solution
Low free speed and high current draw	Too much friction	Check for bad bearings, bent armature shaft or loose pole shoes
	Shorted armature	Do short circuit test
	Grounded armature or fields	Do grounded circuit test
Fails to operate and high current draw	Direct ground in the terminal or fields	Do grounded circuit test
	Seized bearings	Replace bearings
Fails to operate and **no current draw**	Open field circuit	Do open circuit test
	Open armature coils	Check for badly burned commutator bars
	Poor contact between brushes and commutator	Check for broken brush springs, worn brushes and high insulation between the commutator bars
Low no-load speed and low current draw	High internal resistance	Check for poor connections, defective leads, dirty commutator, broken brush springs, worn brushes and high insulation between the commutator bars
High no-load speed and high current draw	Shorted fields	Do short circuit test

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DISASSEMBLE STARTING MOTOR AND TEST COMPONENTS

1. Remove commutator end frame cap screws and commutator end frame.

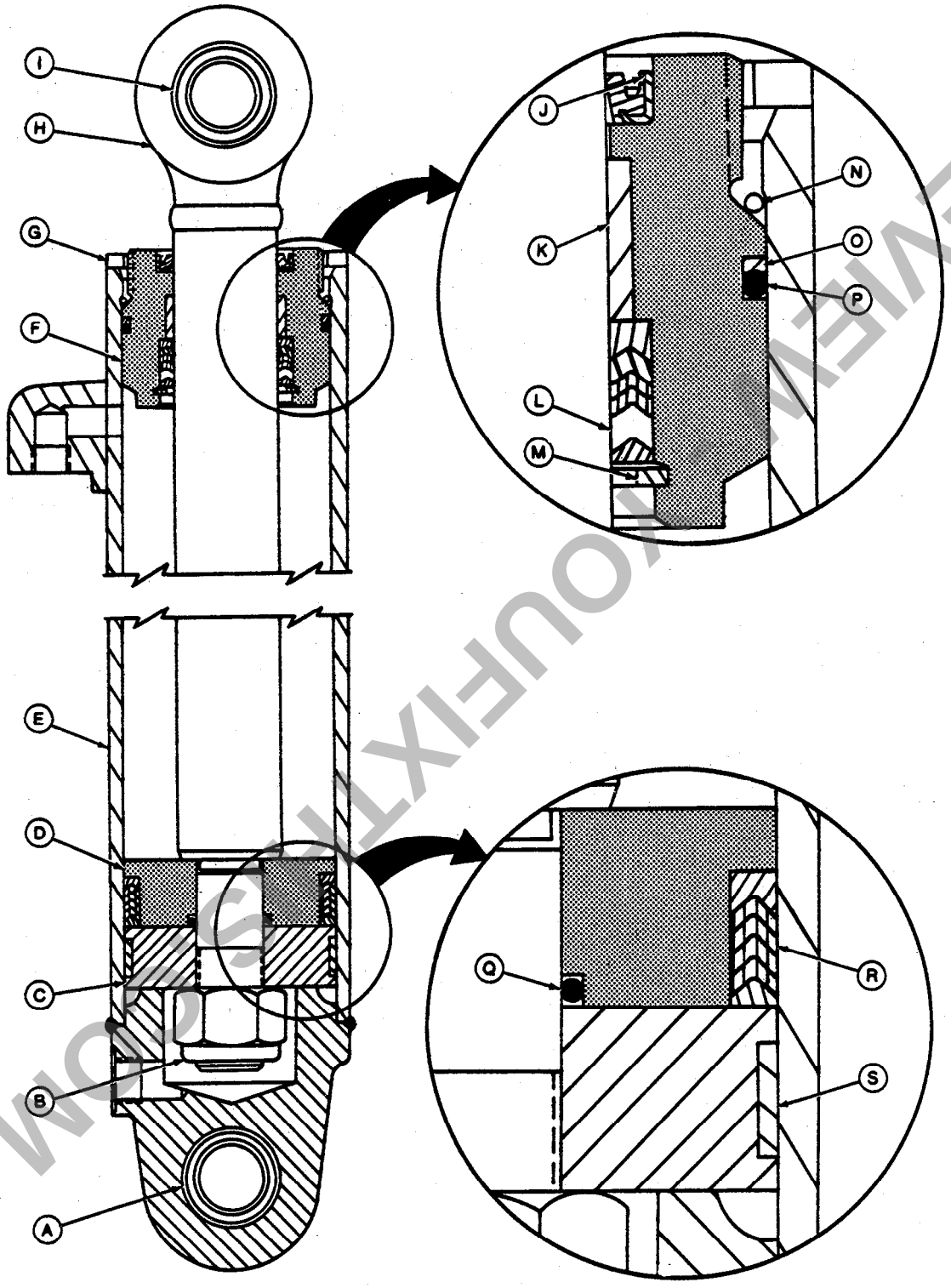


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CROSS SECTION OF MULTI-PURPOSE BUCKET CLAM CYLINDER



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5AV;T88580 T58;3160 6044CJ 060285

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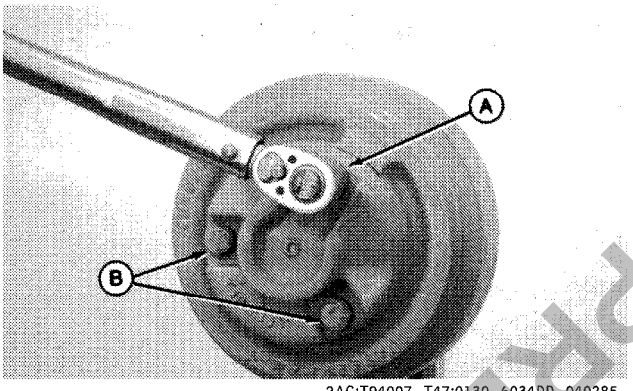
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5. Install washer and gasket on the longer cap screw (A).

6. Install cover with three cap screws. Tighten cap screw (A) to 41 ± 4 N·m (30 ± 3 lb-ft) and cap screws (B) to 47 N·m (35 lb-ft).

7. Fill roller assembly with approximately 710 mL (1-1/2 pint) of the recommended oil. (See Lubrication in Section I.)

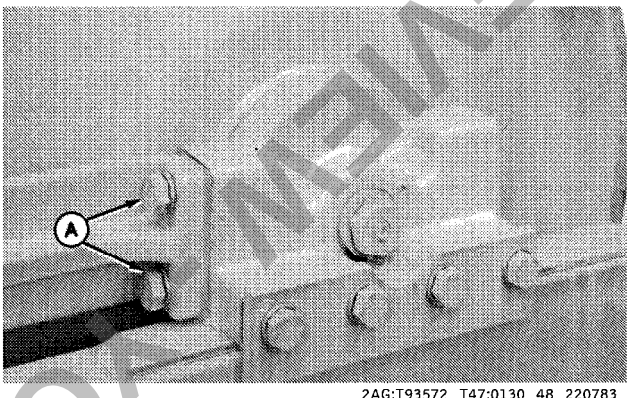


2AG;T94007 T47;0130 6034DD 040285

REMOVE FRONT IDLER ASSEMBLY

1. Remove two cap screws and lock washers (A) from both sides.

2. Attach hoist and slide front idler forward off track frame.

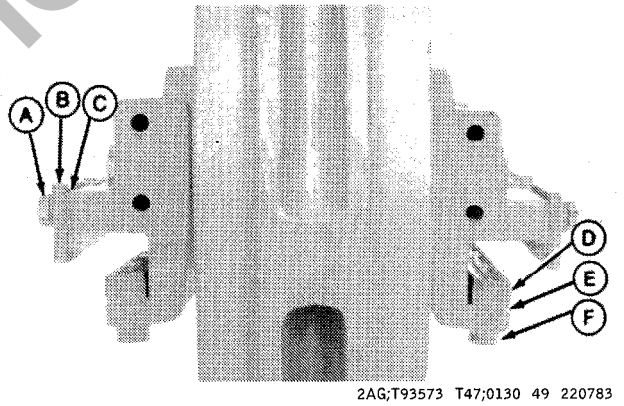


2AG;T93572 T47;0130 48 220783

DISASSEMBLE AND INSPECT FRONT IDLER ASSEMBLY

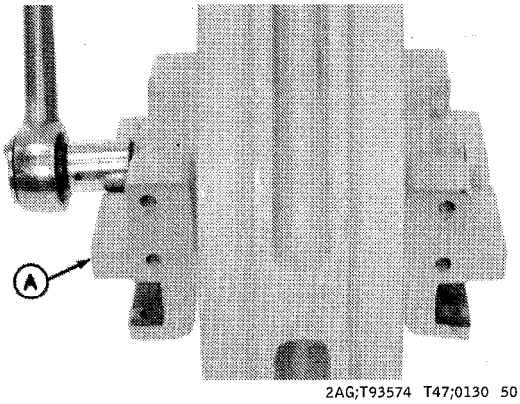
1. Remove two cap screws and lock washers (F) on bottom of both sides to remove shims (E) and wear strap (D). Remove four cap screws and lock washers (A) on both sides to remove guide (B) and shims (C).

A—Cap Screw (8 used)
B—Guide (2 used)
C—Shims
D—Wear Strap (2 used)
E—Shims
F—Cap Screw (4 used)



2AG;T93573 T47;0130 49 220783

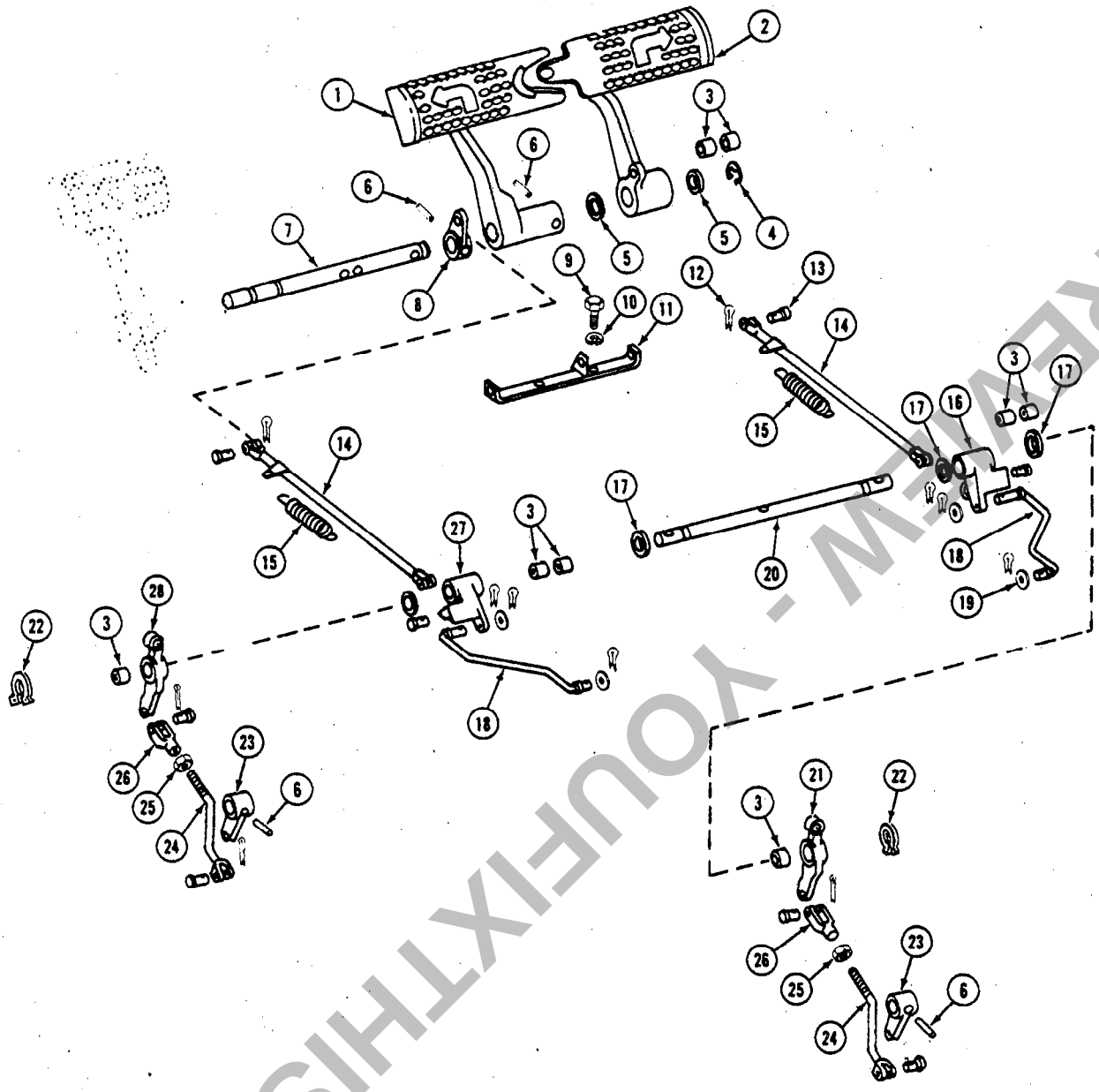
2. Remove cap screw, washer and O-ring to remove bracket (A) on each side.



2AG;T93574 T47;0130 50 040285

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1—Left Steering Pedal
2—Right Steering Pedal
3—Bushing (8 used)
4—Snap Ring
5—Washer (as required)
6—Grove Pin (4 used)
7—Shaft
8—Lever
9—Cap Screw (2 used)
10—Lock Washer (2 used)
11—Bracket
12—Cotter Pin (12 used)
13—Pin (8 used)
14—Rod (2 used)
15—Spring (2 used)
16—Right Pickup Lever
17—Washer (as required)
18—Rod (2 used)
19—Washer (4 used)
20—Shaft
21—Right Lever
22—Snap Ring (2 used)
23—Lever (2 used)
24—Rod (2 used)
25—Nut (2 used)
26—Yoke (2 used)
27—Left Pickup Lever
28—Left Lever

Pedal Steering and Brake Linkage

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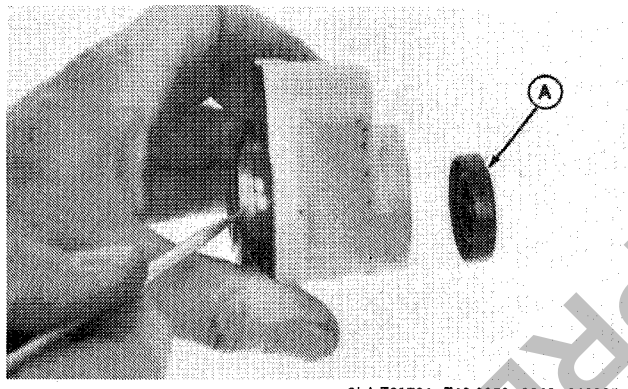
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DISASSEMBLE, INSPECT AND ASSEMBLE SHIFT LINKAGE

1. Remove O-ring. Inspect seal (A) for wear or damage. Replace only if necessary.

2. Install new O-ring.

3. Install new seal (A) using 20 mm and 38 mm disks from driver set.

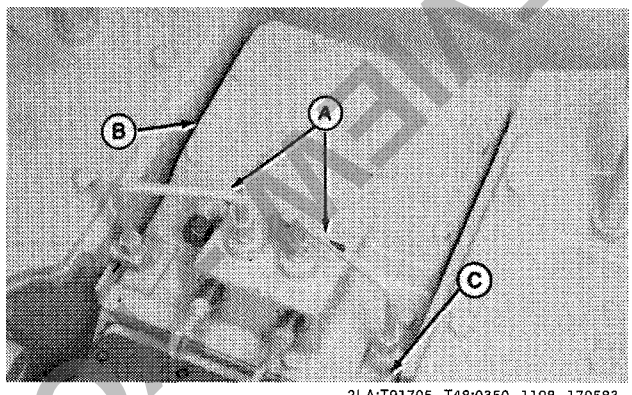


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REMOVE REAR DRIVE SHAFT

1. Disconnect and remove lines (A).

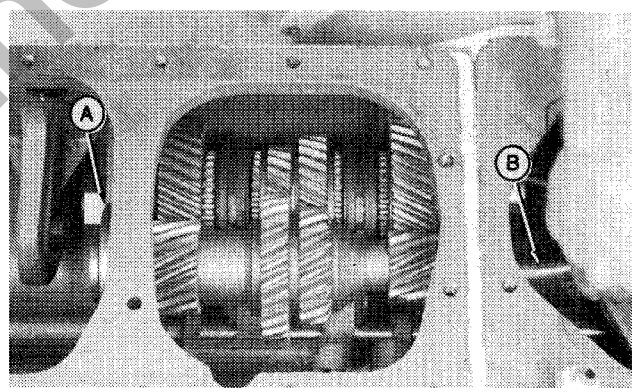
2. Remove 10 cap screws and lock washers and remove cover (B) and bracket (C).

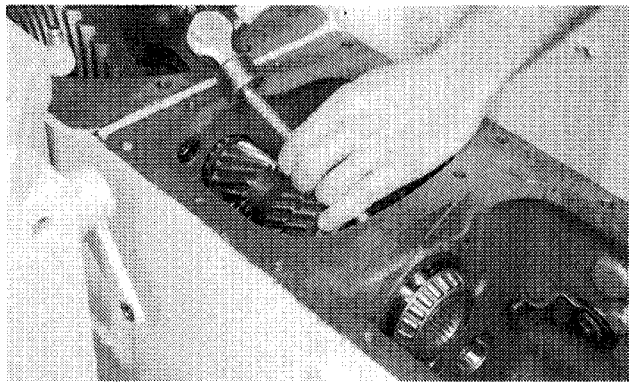


2LA;T91705 T48;0350 1198 170583

3. Move shift lever to neutral. With soft steel drift (B), carefully drive bearing cup (A) from its bore.

4. Remove front bearing cone using a soft steel drift and remove shaft.





2LA;T91706,T91707 T48;0350 1199 170583

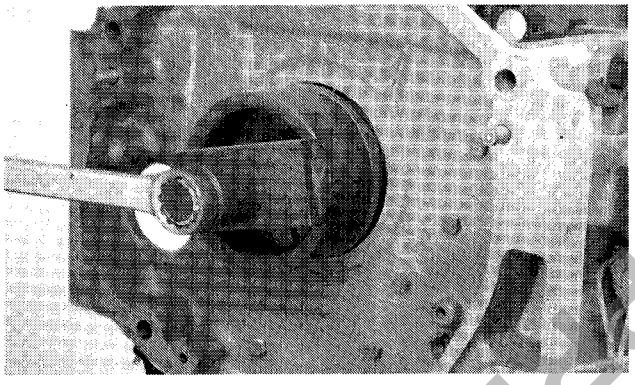
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5. Attach driver and washer to the guide plate with cap screw. Tighten the cap screw until driver stops moving.

6. Remove Seal Installer Set.

7. Install flywheel and all parts removed with it (Group 0433).



0AJ;T81205 T49;0401 6028ND 180185

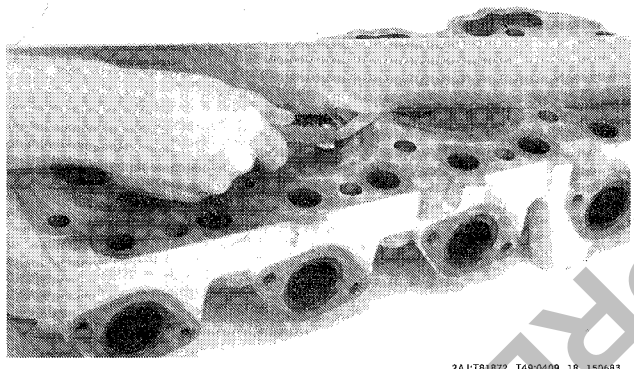
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MEASURE CYLINDER HEAD FLATNESS

Cylinder head must be flat within 0.05 mm (0.002 in.).

If cylinder head is warped more than specified, measure cylinder head thickness.



2AJ;T81872 T49;0409 18 150683

MEASURE CYLINDER HEAD THICKNESS

New thickness is 104.87—105.13 mm (4.129—4.139 in.).

If thickness is less than 104.24 mm (4.104 in.), cylinder head cannot be resurfaced.

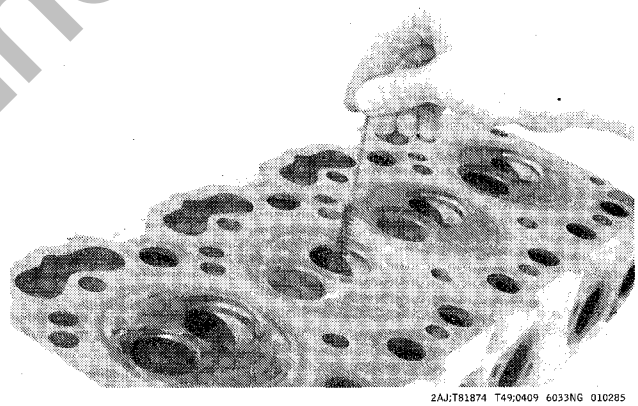
If cylinder head is being resurfaced, remove only enough metal to make it flat.



2AJ;T81873 T49;0409 19 250283

CLEAN VALVE GUIDES

Clean valve guides with valve guide brush.



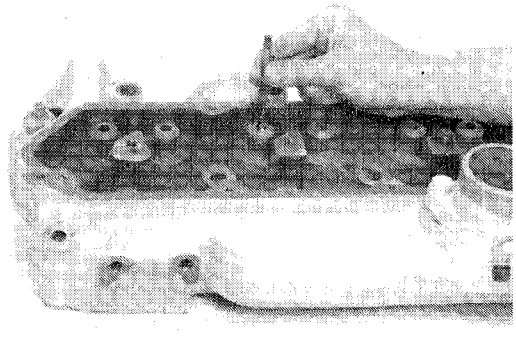
2AJ;T81874 T49;0409 6033NG 010285

MEASURE VALVE GUIDE DIAMETER

New diameter is 9.53—9.55 mm (0.375—0.376 in.).

If diameter is more than specified, knurl valve guide or ream guide and install oversize valve.

If diameter is correct, measure valve stem diameter and clearance.

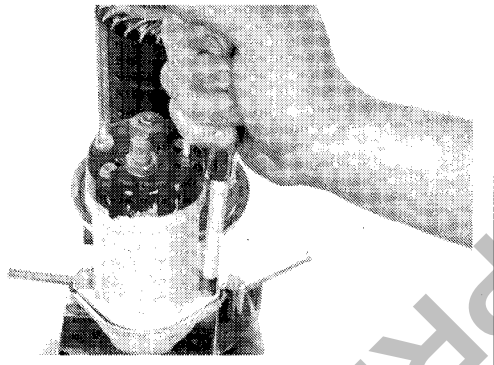


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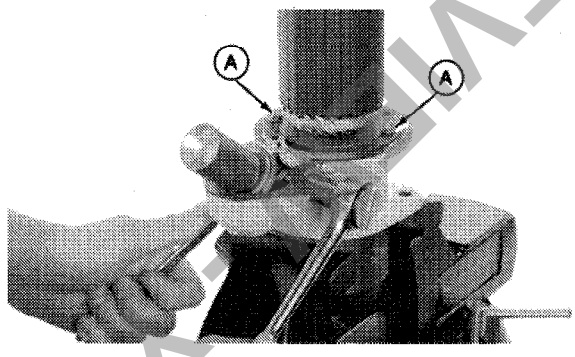
8. Remove screws, solenoid switch assembly, solenoid gasket and plunger return spring.



0AK;T81539 T49;0422 27 010383

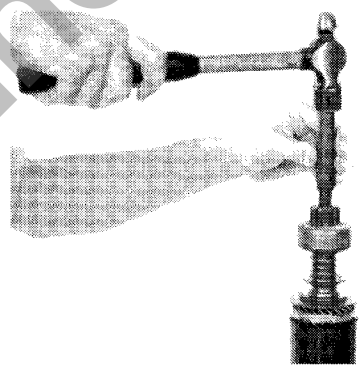
9. Remove the shift lever cap screw and center bearing screws (A).

10. Remove armature.



0AK;T88855 T49;0422 28 010383

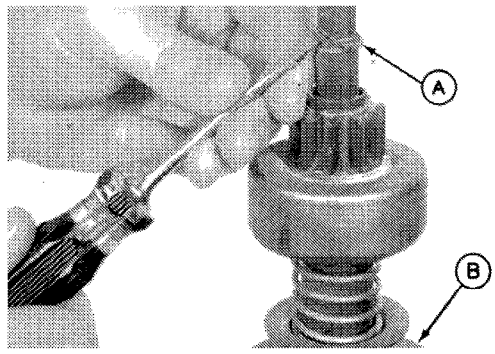
11. Use a ½ in. pipe nipple or other suitable metal cylinder to drive pinion stop toward pinion.



0AK;T81541 T49;0422 29 010283

12. Remove retaining ring (A) and overrunning clutch drive.

13. Remove brake washer and center bearing plate (B).



0AK;T88856 T49;0422 30 010383

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7. Check diameters of valve spool (1).

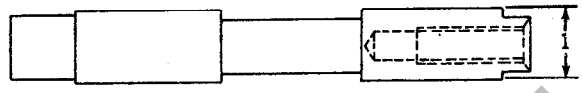
NEW VALVE SPOOL SPECIFICATION

O.D. ..... 19.04—19.07 mm (0.7498—0.7507 in.)

8. Install spring and valve spools.

9. Install new wiper seals.

10. Connect and adjust linkage. (See Group 9020 for adjustment procedure).



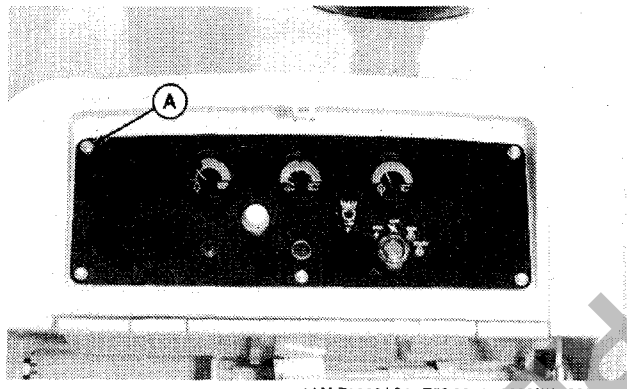
T32083N

7AV;T32083 T58;0960 143 021284

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11. Install instrument panel. Install five cap screws (A).
12. Install hood and engine side shields. (See this group.)
13. Turn Battery Disconnect Switch to "ON".

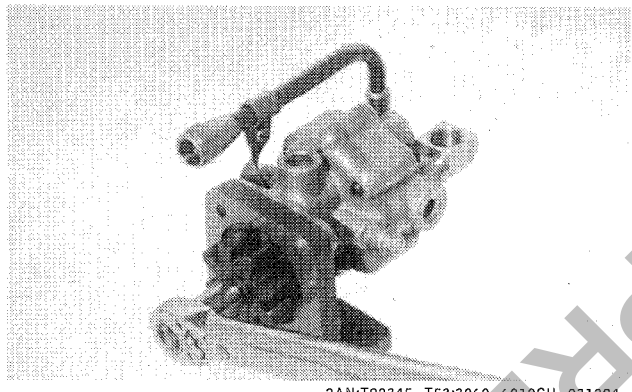


4AM;T6009A04 T52;1910 6022NH 020185

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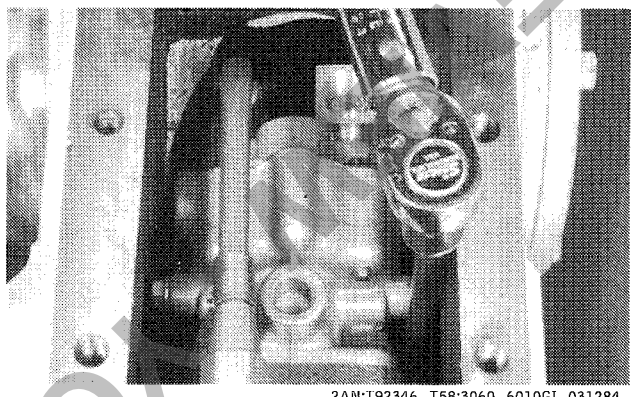
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10. Install gear and nut. Tighten nut to 27 N·m (20 lb-ft)



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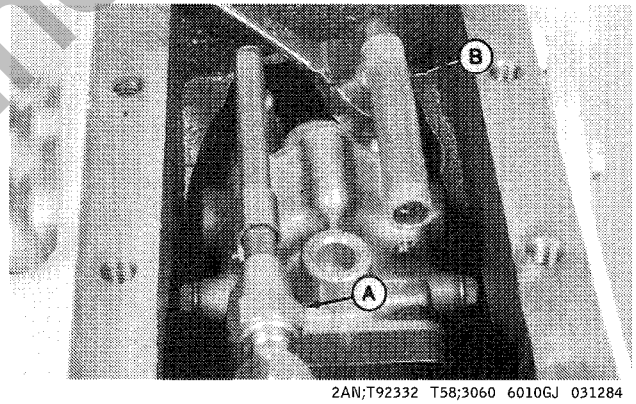
11. Install pump assembly in winch. Tighten pump bracket to winch housing cap screws to 47 N·m (35 lb-ft) with special tool. (See instructions for making tool in Section 99.)



2AN;T92346 T58;3060 6010GI 031284

12. Connect pressure line at elbow (A).

13. Install suction screen at fitting (B).

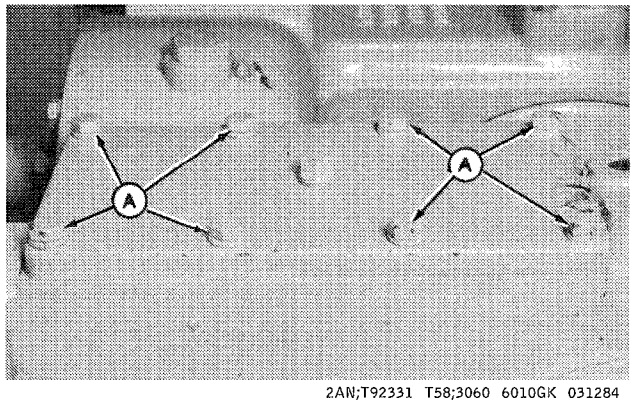


2AN;T92332 T58;3060 6010GJ 031284

14. Install cover cap screws (A).

15. Fill winch housing with approximately 9 L (2.4 gal) of the recommended oil. (See Lubrication in Section I.)

16. Install winch. (See Install Winch in Group 3050.)



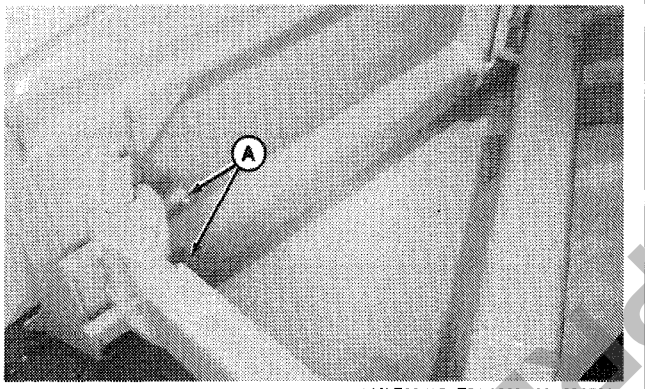
2AN;T92331 T58;3060 6010GK 031284

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4. Use a large hammer to drive wedges (A) loose.

5. Slide angling arm upward and remove from blade.

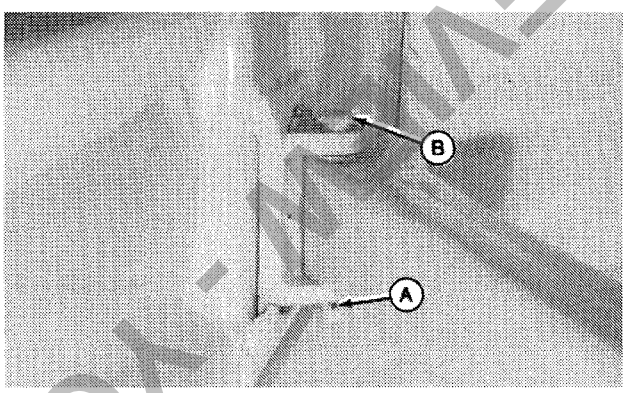


6AN;T92765 T54;3201 02 210783

6. Remove spring pin (A) and center pin (B).

7. Remove dozer blade from frame.

8. Install dozer blade by reversing removal procedure.



6AN;T92766 T54;3201 03 210783

REMOVE AND INSTALL MODEL 6415 DOZER BLADE

1. Lower blade to ground, shut off engine and operate control valve to relieve hydraulic pressure.

2. Remove tilt cylinder guard.

3. Remove pin from tilt cylinder to blade.

CAUTION: Blade weighs approximately 363 kg (800 lb).

5. Support blade with hoist.

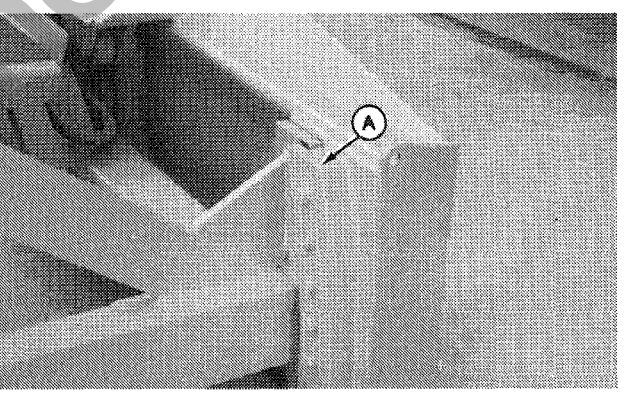
6. Remove retainer plate (A) and shims from both sides and remove blade.

7. Install blade on center pivot pin.

8. Install retainer plates with enough shims to provide minimum clearance with push plates.

9. Attach tilt cylinder to blade.

10. Install tilt cylinder guard.



6AN;T92797 T54;32001 07 210783

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OTHER MATERIALS

Number	Name	Use
PT569	John Deere NEVER-SEEZ® Lubricant	Apply to joints of lever linkage

NEVER-SEEZ is a trademark of the Never-Seez Compound Corp.

T54;3315A 33 301184

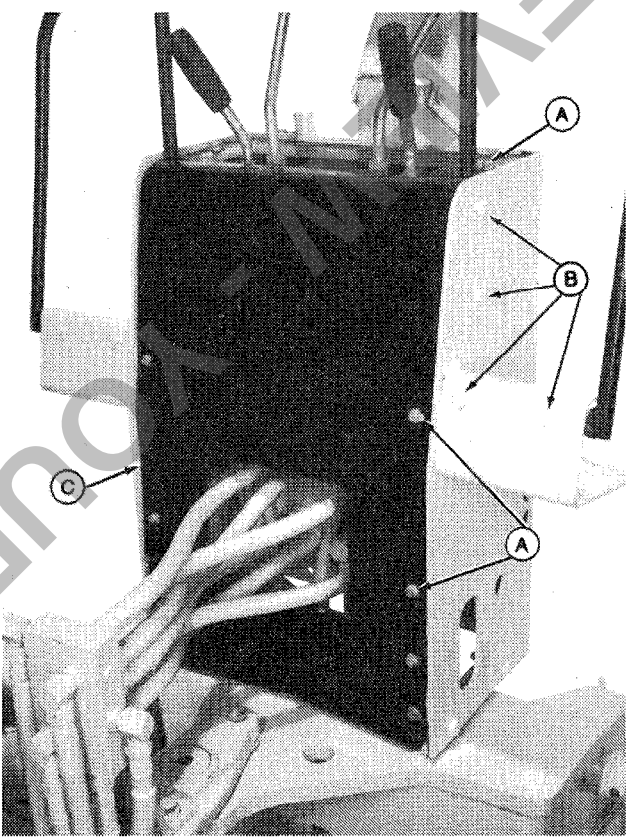
REMOVE LEVER MOUNTING FRAME AND LINKAGE ASSEMBLY

1. Remove three cap screws, lock washers, and washers (A) on each side.

2. Remove four nuts, lock washers, and cap screws (B) on each side to remove hand grip.

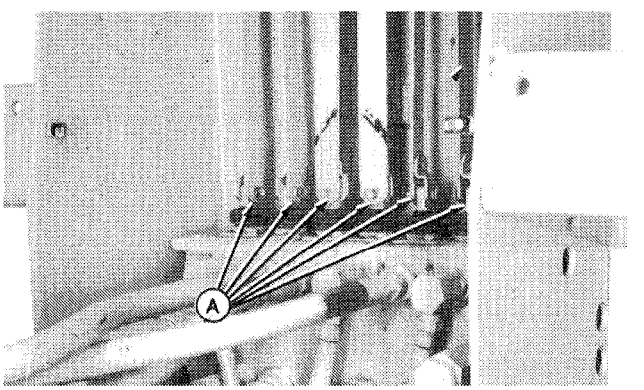
3. Loosen lock nuts on handles so handles can be pivoted.

4. Remove cover (C).



8AN;T93213 T54;3315A 34 210783

5. Remove cotter pins and pins to disconnect linkage (A).



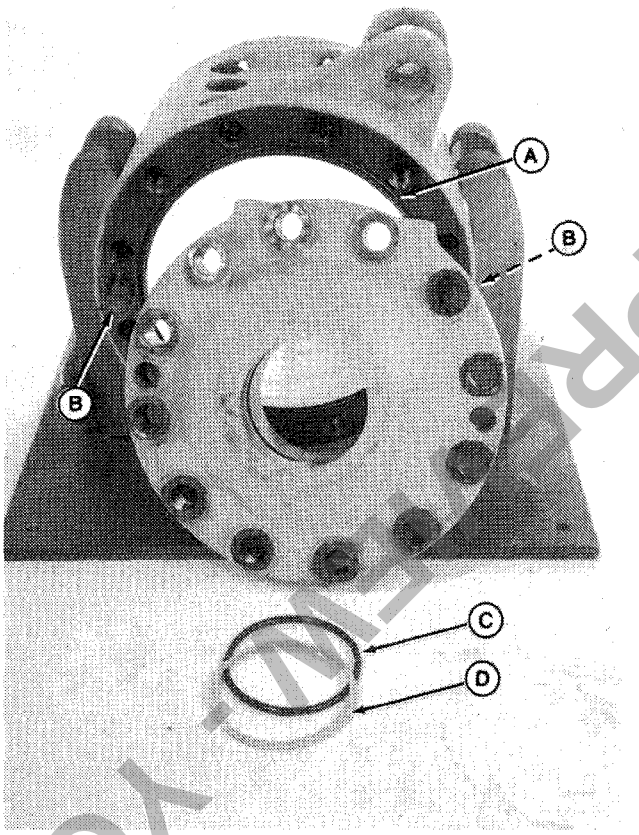
8AN;T93214 T54;3315A 35 210783

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17. Remove backup washer (D), O-rings (C) and O-ring (A).

18. Inspect dowels (B) for wear or damage. Replace if necessary.



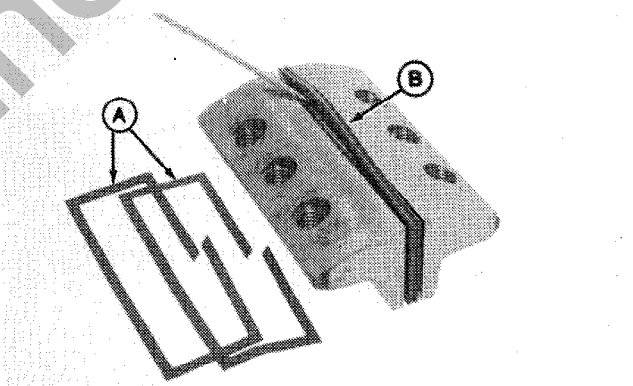
A—O-Ring
B—Dowel (2 used)
C—O-Ring
D—Backup Washer

5AV;T93280 T58;3360A 446 041284

ASSEMBLE SWING CYLINDER

1. Use a cylinder repair kit when assembling a rebuildable cylinder. Before assembling, put clean hydraulic oil on all internal parts.

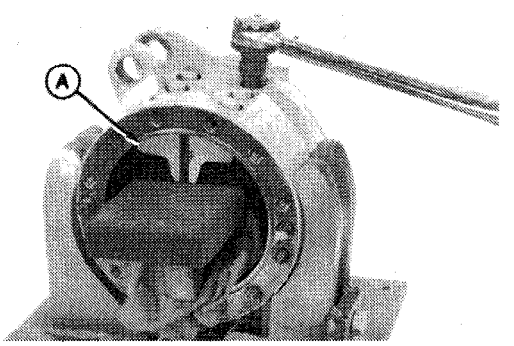
2. Install vane seal (B) and install a backup seal (A) on each side of vane seal. When installing vane in barrel, the notched ends of vane go to the bottom of barrel.



5AV;T93278 T58;3360A 447 270783

3. Supporting cylinder vane (A), install six seal washers and six cap screws. Tighten cap screws to 508 N·m (375 lb-ft).

IMPORTANT: Always use new sealing washers under heads of cap screws when installing vane.

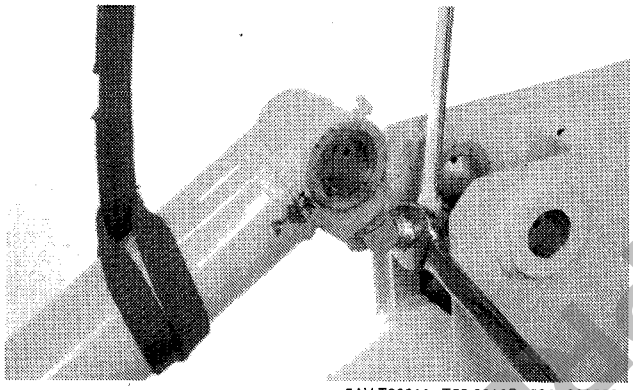


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3. Disconnect hoses from bucket cylinder.



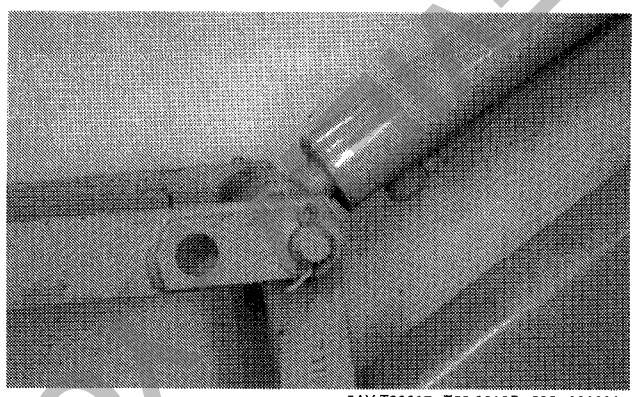
5AV;T93366 T58;3360B 524 220883

4. Remove bucket cylinder rod end pin.

5. Remove cylinder.

6. For disassembly and repair, see stabilizer cylinder in this group.

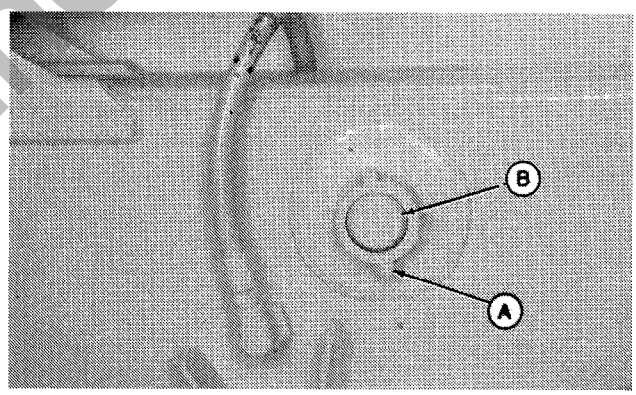
7. Reverse procedure to install.



5AV;T93367 T58;3360B 525 220883

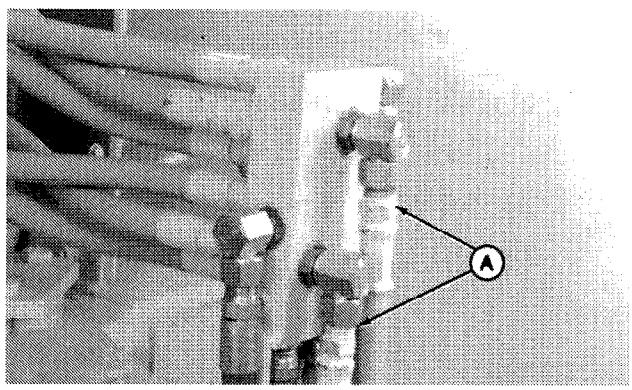
REMOVE BOOM CYLINDER

1. Attach sling to cylinder. Remove locknut and cap screw (A). Remove pin (B).



5AV;T93409 T58;3360B 526 220883

2. Mark all hoses and connections prior to removal. Disconnect boom cylinder hoses (A).



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