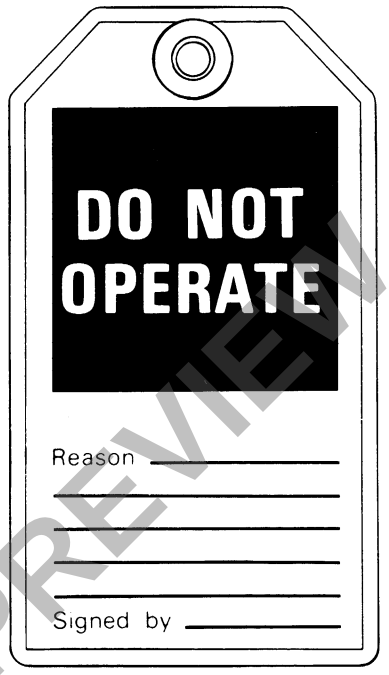
SAFETY RULES

This Symbol Shows Important Information About Safety In This Manual. When You See This Symbol, Carefully Read The Information That Follows and Understand The Possible Causes of Injury Or Death. 1-1-A

IMPORTANT: *To prevent injury on job, follow the Warning, Caution, and Danger notes in this section and other sections throughout this manual. Follow the instructions carefully.*

The procedures recommended and shown in this manual are good, effective service methods. However, all possible procedures and service hazards may not be covered. Therefore, if you use a tool or procedure not recommended, you must make sure that the method you select is a safe method.

Put the warning tag shown below on the key for the key switch when you are servicing or repairing this machine. One warning tag is on every new machine. You can buy additional warning tags, part number 331-4614, from Service Parts Supply.



780449

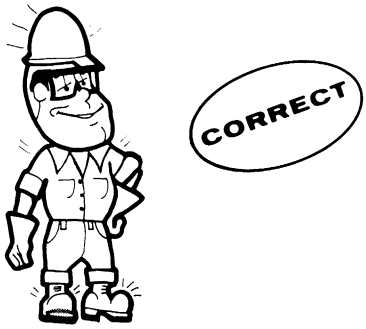
DANGER: *Before you move the backhoe boom to either side, make sure that all persons are out of the way. A swinging boom can crush.* 48-54

WARNING: *Read operator's manual to familiarize yourself with control lever functions.* 46-27

WARNING: *Operate tractor and equipment controls from the seat position only. Any other method could result in serious injury.* 48-55

WARNING: *This is a one man machine, no riders allowed.* 35-8

WARNING: *If you wear clothing that is too loose or do not use the correct safety equipment for your job, you can be injured. Always wear clothing that will not catch on objects. Extra safety equipment that can be required includes hard hat, safety shoes, ear protection, eye or face protection, heavy gloves and reflector clothing.* 45-3-A



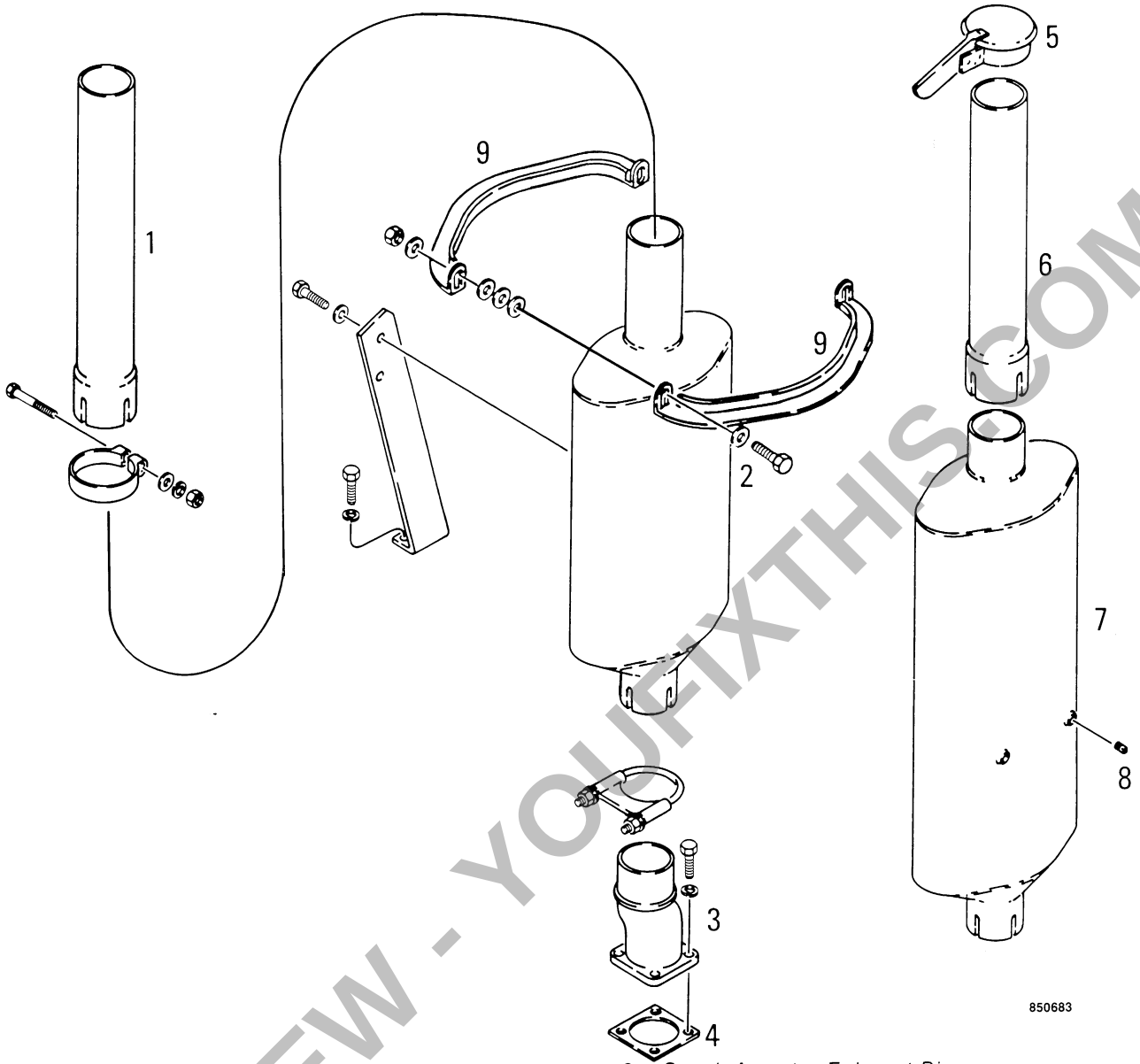
DANGER: *Engine exhaust fumes can cause death. If it is necessary to start the engine in a closed place, remove the exhaust fumes from the area with an exhaust pipe extension. If you do not have an exhaust pipe extension, open the doors and get outside air into the area.* 48-56

WARNING: *When working in the area of the fan belt with the engine running, avoid loose clothing if possible, and use extreme caution.* 35-4

WARNING: *Operate controls from the operator's seat only.* 35-7

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1. *Standard Exhaust Pipe*
2. *Standard Muffler*
3. *Adapter*
4. *Gasket*
5. *Cap, Used With Spark Arrester Muffler Only*
6. *Spark Arrester Exhaust Pipe*
7. *Spark Arrester Muffler*
8. *Pipe Plug (2) (Brass Only)*
9. *Flanges Installed on Top of Hood and Touching Hood*

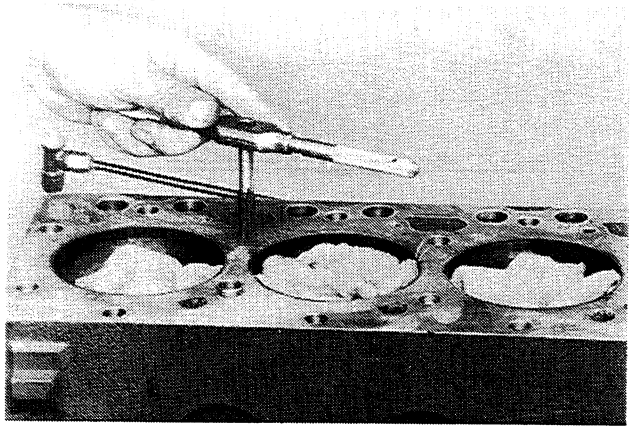
Muffler Installation Without Turbocharger

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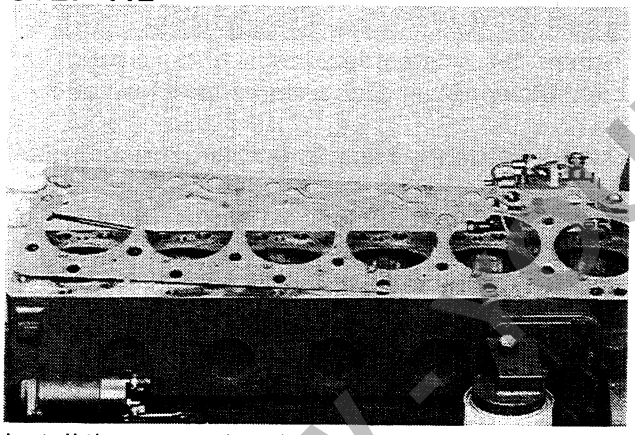
Cylinder Head Installation

STEP 111

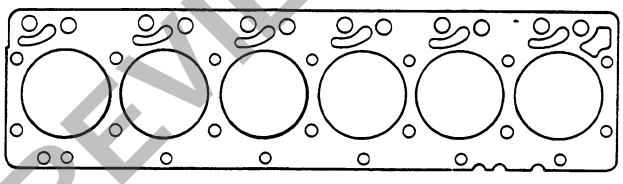


Use the correct tap and clean all head bolt holes of foreign material.

STEP 112



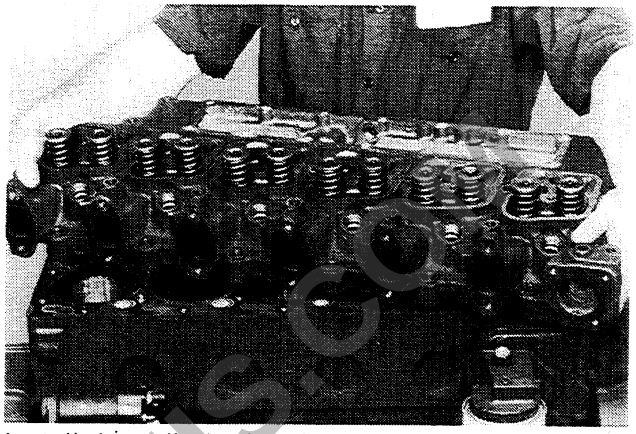
Install the correct head gasket on the engine block, see below.



Head Gasket Application

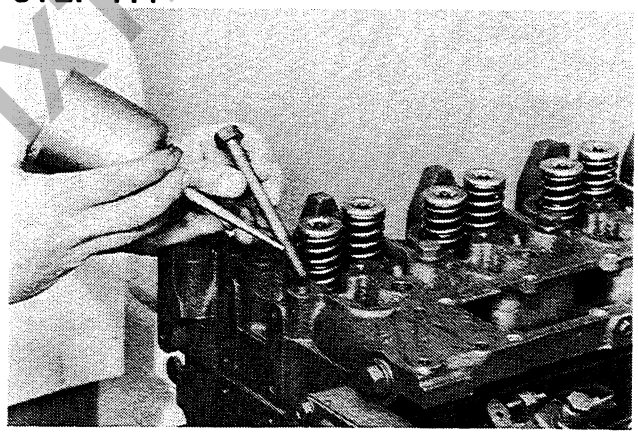
No Notches - Replacement Gasket
2 Notches - 0.25 mm oversize thickness
3 Notches - 0.50 mm oversize thickness

STEP 113



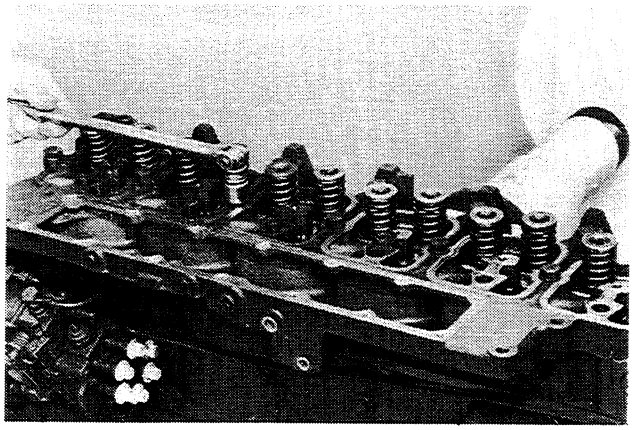
Install the cylinder head.

STEP 114



Put a small amount of clean engine oil on the head bolt threads.

STEP 115



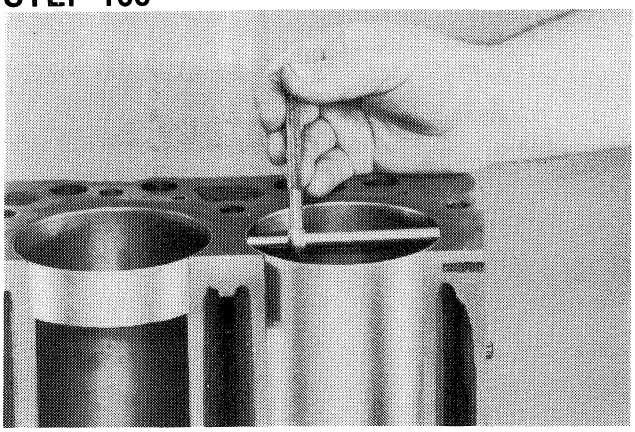
Install the head bolts and washers. Tighten the bolts a small amount.

NOTE: *Do not torque the head bolts at this time.*

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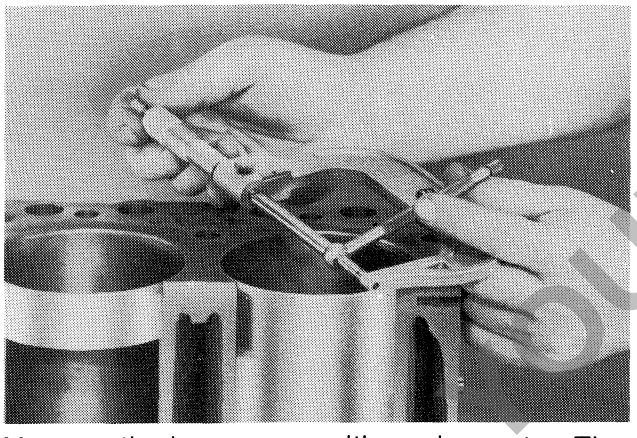
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STEP 166



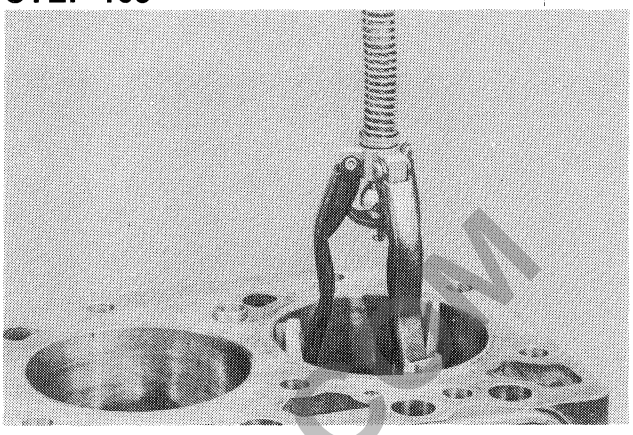
Measure the diameter of the piston sleeve with a bore gauge.

STEP 167



Measure the bore gauge with a micrometer. The cylinder diameter must be machined to a diameter of 102.00 to 102.04 mm.

STEP 168



Use a 3/8 inch or 1/2 inch drill to power the hone. Use a lubricant/coolant with the hone to keep the bore and the stone free from foreign material.

Start the hone at the top of the cylinder bore and actuate the hone up and down until the correct cross-hatch pattern is reached. The correct cross-hatch pattern is 40 to 60 degrees from horizontal.

Use a 80 to 150 grit stone to reach the correct cross-hatch pattern.

Use a 250 to 300 grit stone to reach the correct cylinder bore finish.

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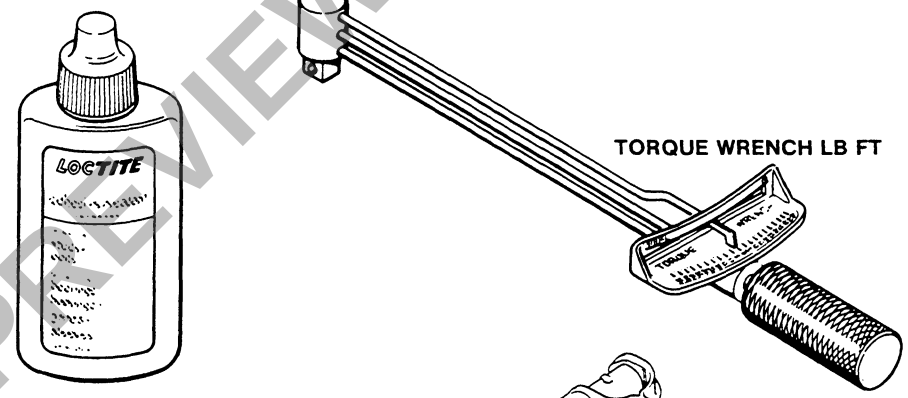
OIL PAN AND OIL INLET TUBE
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Oil Inlet Tube Installation 15

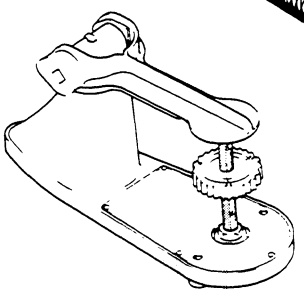
Oil Pan Installation 16

SPECIAL TOOLS

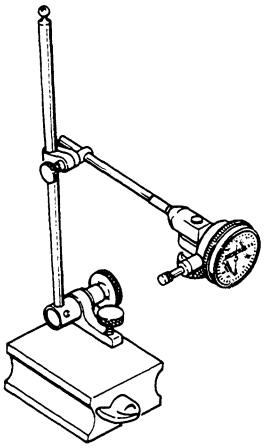


SAFETY SOLVENT - M20863 12 OZ AEROSOL

TORQUE WRENCH LB FT



CAS-1357 VALVE SPRING TESTER



CAS-10066A DIAL INDICATOR

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Section

2565

TURBOCHARGER FAILURE ANALYSIS

2565

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CASE CORPORATION
700 State Street
Racine, WI 53404 U.S.A.

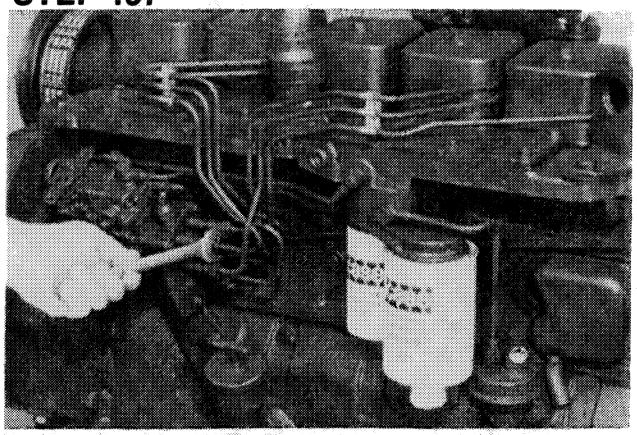
CASE CANADA CORPORATION
3350 South Service Road
Burlington, ON L7N 3M6 CANADA

Rac 9-78235

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February, 1996

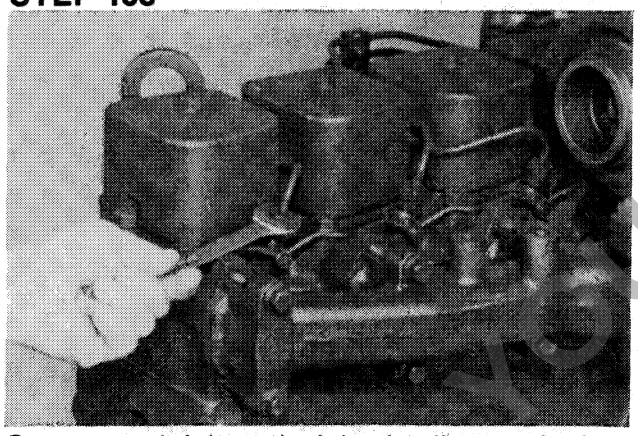
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STEP 157



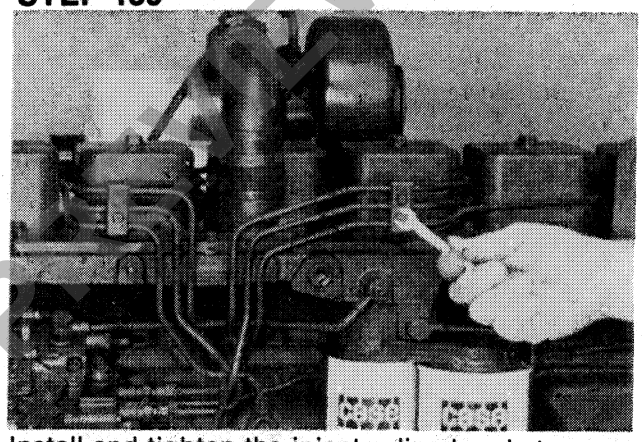
Connect and tighten injection lines to the injection pump.

STEP 158



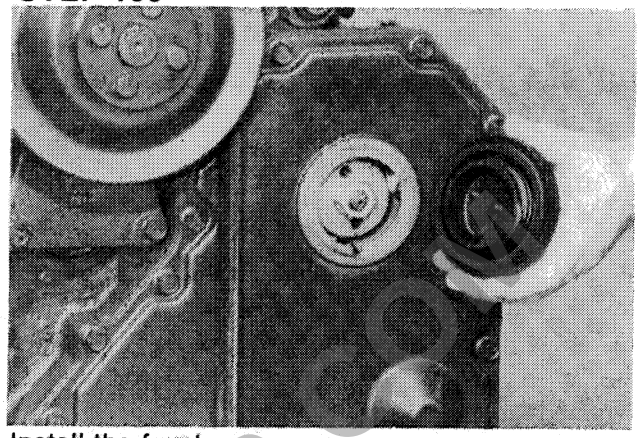
Connect and tighten the injection lines to the fuel injectors.

STEP 159



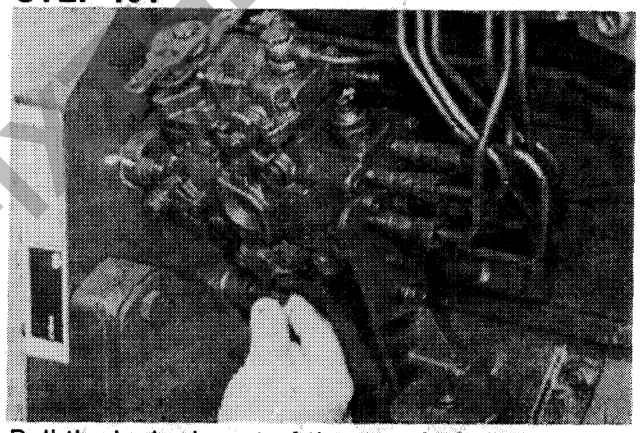
Install and tighten the injector line bracket.

STEP 160



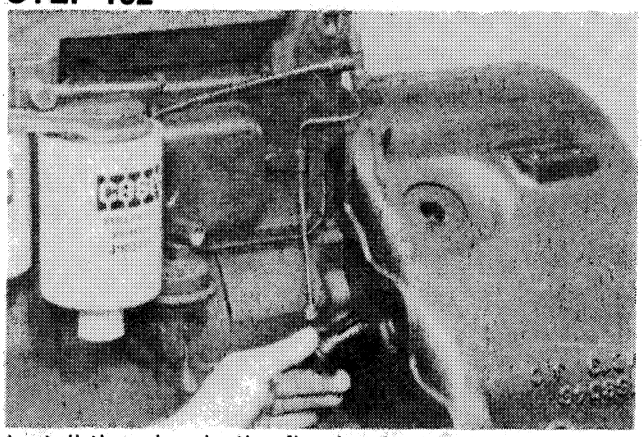
Install the front cover.

STEP 161



Pull the lock pin out of the camshaft gear.

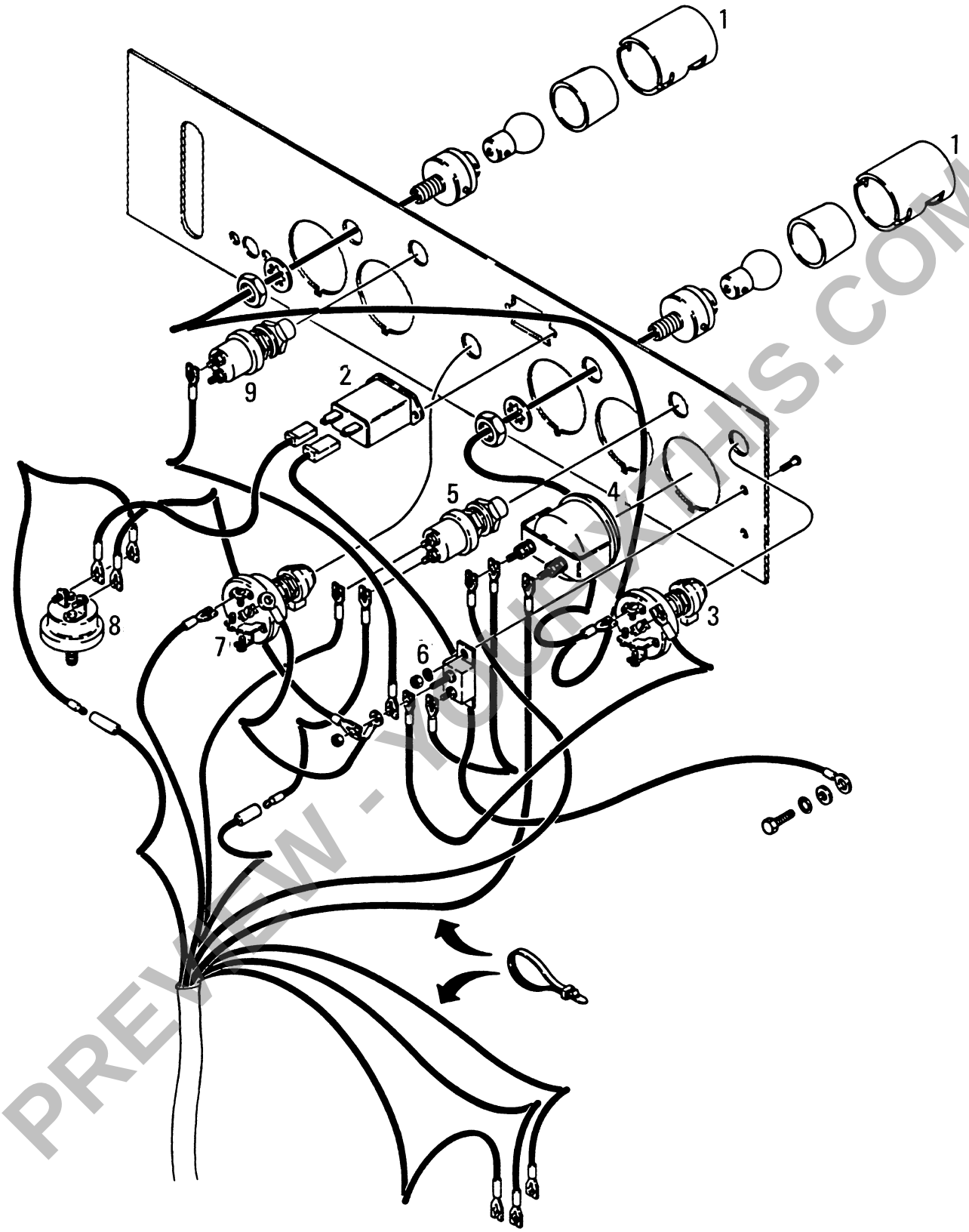
STEP 162



Install the plug in the flywheel housing.

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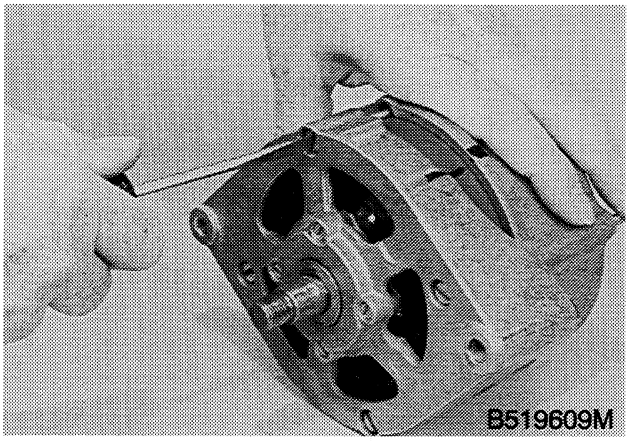
1. *Panel Lamp*
2. *Hourmeter*
3. *Lamp Switch*
4. *Ammeter*
5. *Cold Start Switch (If Used)*
6. *25 Ampere Circuit Breaker*
7. *Fuel Shutoff Switch*
8. *Pressure Switch*
9. *Horn Switch (If Used)*

Indicators and Gauges, Electrical

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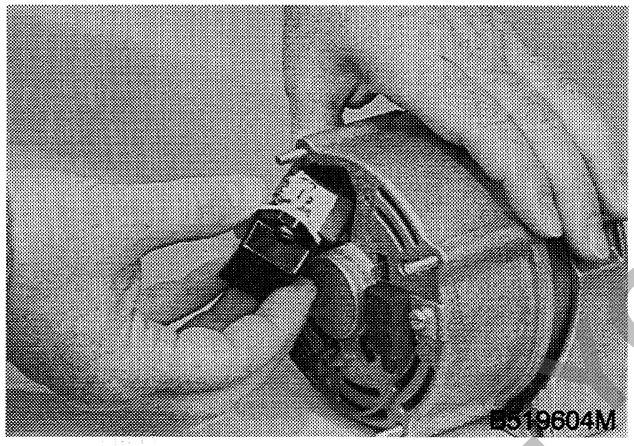
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STEP 42



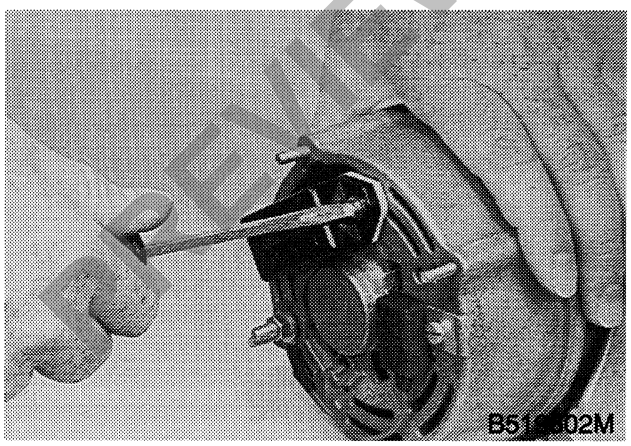
Install the screws that fasten the housing, stator, and cover together. Tighten the screws evenly.

STEP 43



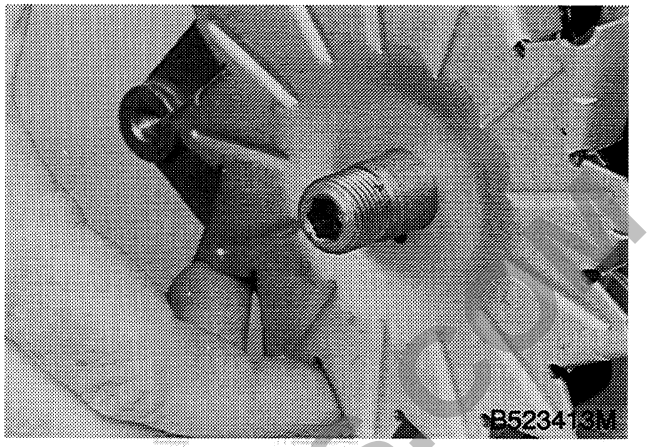
Install the voltage regulator and the brush holder. Be careful not to damage the brushes.

STEP 44



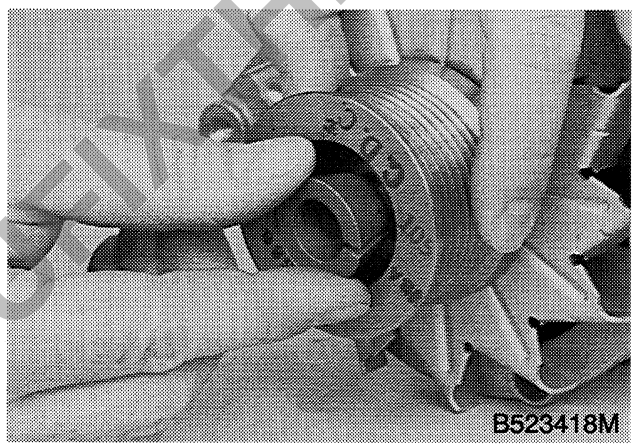
Install the screws and flat washers.

STEP 45



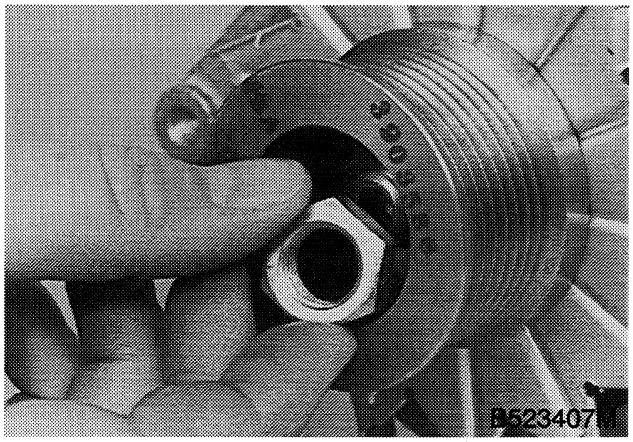
Install the fan.

STEP 46



Install the pulley and the tapered bushing.

STEP 47



Install the lock washer and start the nut onto the shaft.

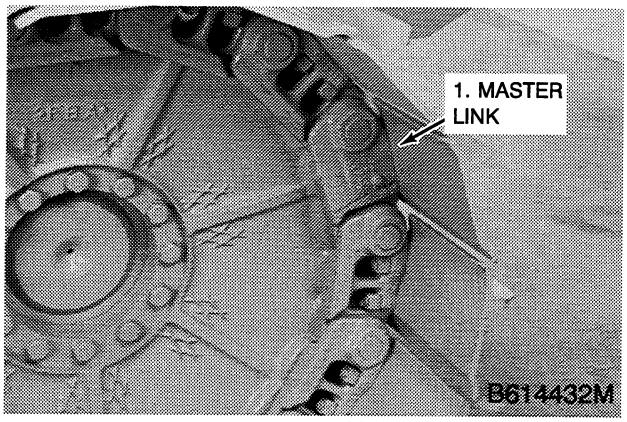
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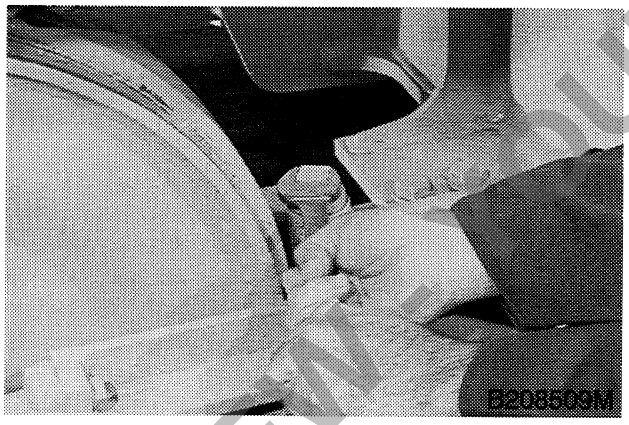
REMOVING THE TRACK

NOTE: *The photographs in this procedure are typical of crawlers.*

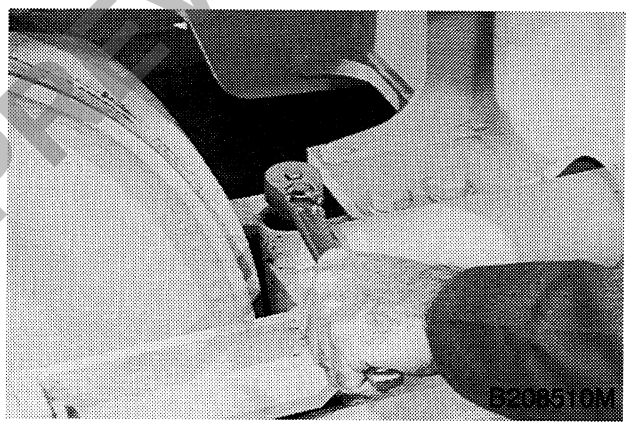
1. Park the machine on a level surface and stop the machine so that the master link is centered on the rear of the sprocket.



2. Loosen and remove the plug from the track adjuster.

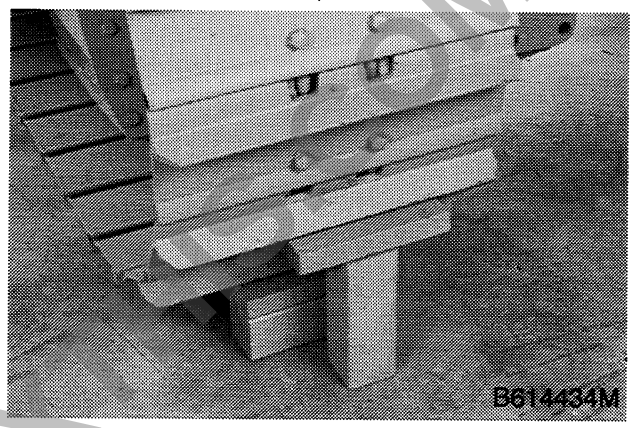


3. Loosen the valve in the track adjuster so that the track can be loosened.

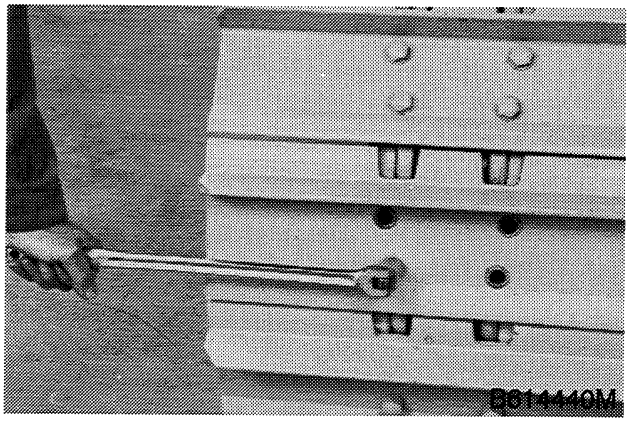


4. Use the weight of your body on the track between the idler and carrier roller, or use a jack or hoist in the same area to loosen the track.

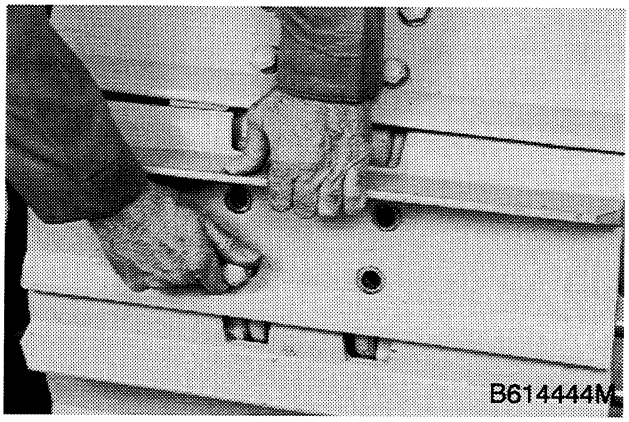
5. Put blocks under the track at the rear of the machine to hold the bottom part of the track and prevent injury when the master link is separated.



6. Loosen all bolts that hold the track shoe and remove three bolts.

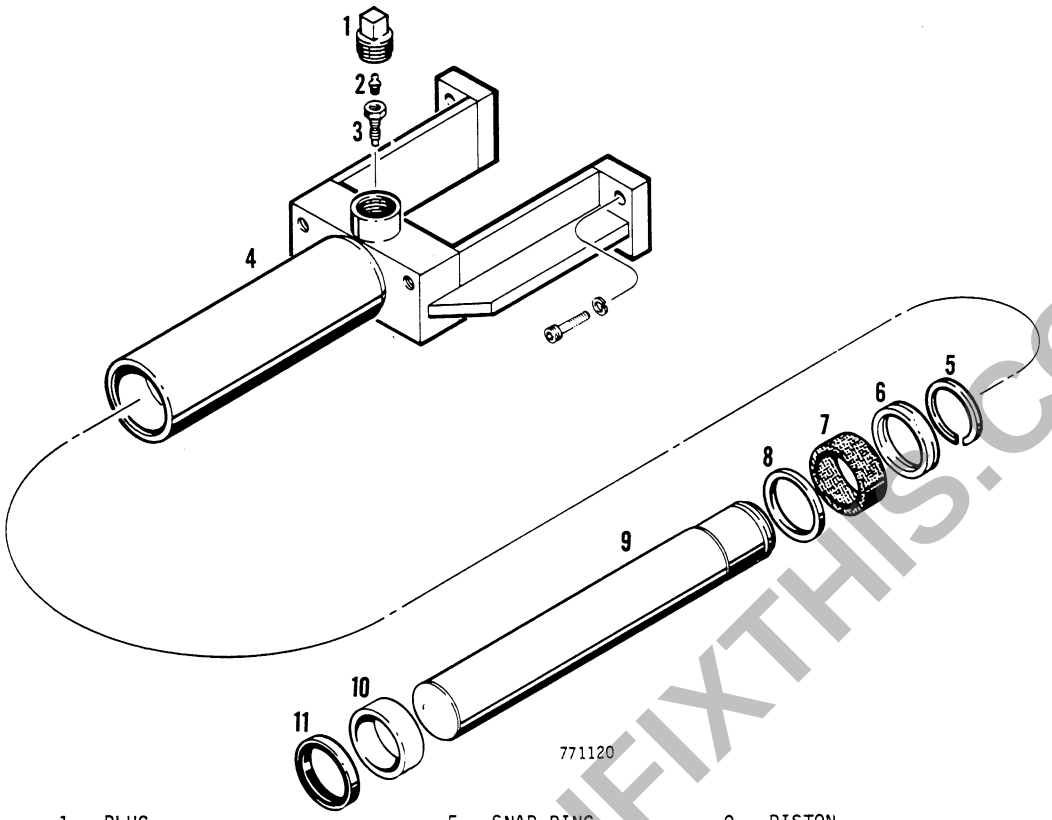


7. Hold the track shoe and remove the last bolt and remove the track shoe.



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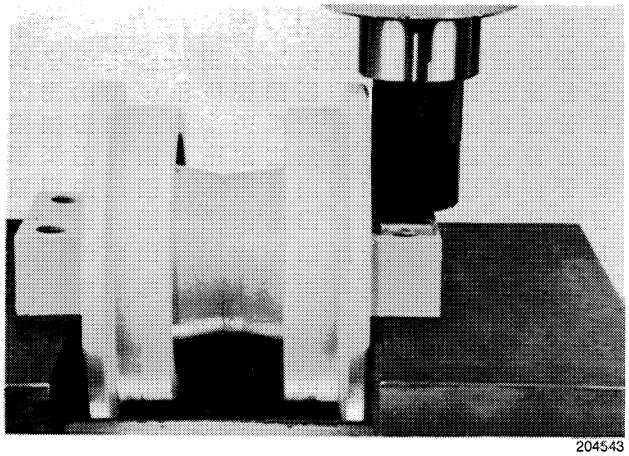


1. PLUG
2. GREASE FITTING
3. VALVE
4. TRACK ADJUSTER FRAME
5. SNAP RING
6. SEAL
7. BEARING
8. SPACER
9. PISTON
10. BEARING
11. PISTON ROD WIPER

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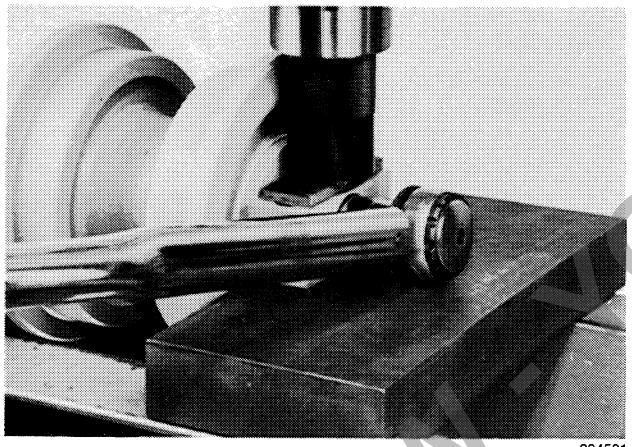
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36. Fasten the mounting block in the press so that the nut can be tightened.



204543

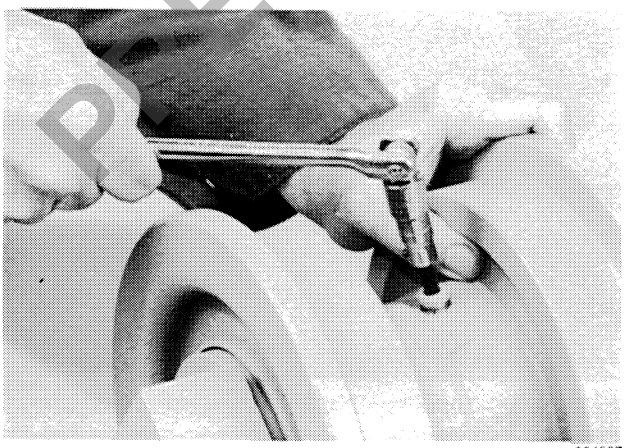
37. Tighten the nut to 210 to 230 pound-feet (284 to 311 N m, 29 to 32 kg/m).



204501

38. Fill the roller with the amount of lubricant specified on page 5511-3.

39. Install and tighten the plug.



204537

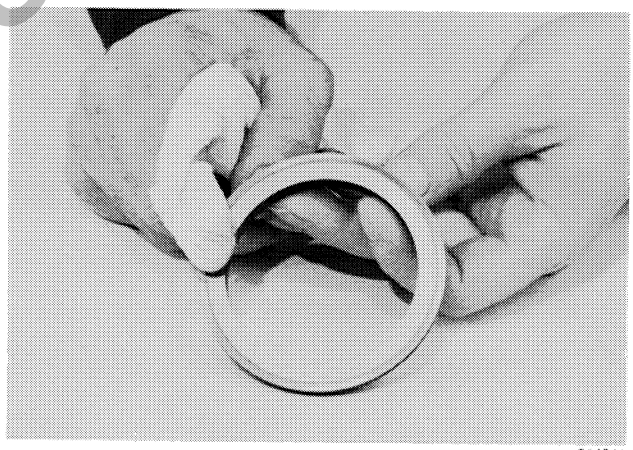
Assembly of a Face Seal

1. Put the retainers in clean water. The retainers must stay in the water for a minimum of two minutes.



914640

2. Make sure the metal rings are clean and dry. Use a cloth from the kit to apply a small amount of clean SAE 30 engine oil on the sealing face of one of the metal rings. Do not get oil on any other surface of the metal rings.



914641

3. Put the two metal rings together.



914642

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26. If the oil was drained from the hydraulic reservoir:

a. Install the drain plug.

b. Install the guard below the hydraulic reservoir.

c. If the oil that was drained from the hydraulic reservoir is to be used again, the oil must be filtered before the oil is installed in the hydraulic reservoir. See Section 8003.

d. If new oil is used, fill the hydraulic reservoir with 12 U.S. gallons (45 litres) of Case TCH Fluid.

27. Start the engine and run the engine at 1000 rpm (r/min).

28. Put the track speed control levers in NEUTRAL. Put the direction control levers in FORWARD position for one minute. The transmission pressure gauge must indicate operating pressure at the end of one minute.

29. Hold the blade or loader control lever in the RAISE position for one minute.

30. Check for oil leaks at the torque converter, transmission, and hydraulic pump.

31. Install the left floor plate.

32. Install the right floor plate.

33. Install the side covers for the engine.

34. Install the two guards between the torque converter and the transmission.

a. The weight of each guard is approximately 65 pounds (29 kg).

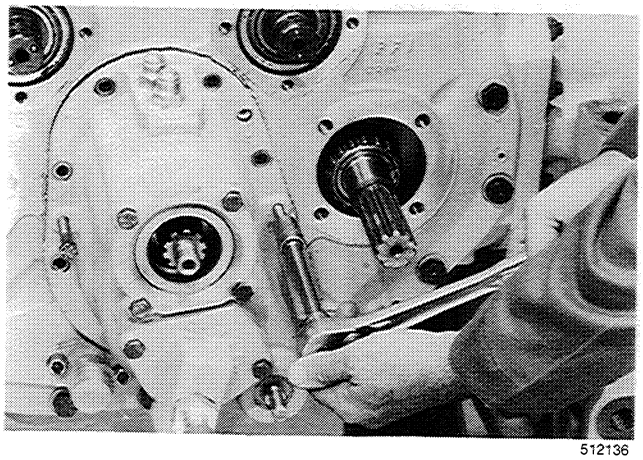
b. Use the jack to raise the guards into position.

c. Install and tighten the cap screws that hold the guards in place.

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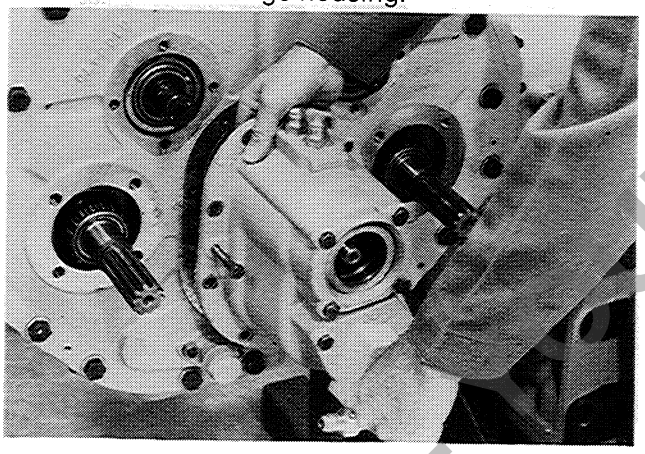
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23. Tighten the cap screws evenly to remove the range housing from the dowel pins in the cover.



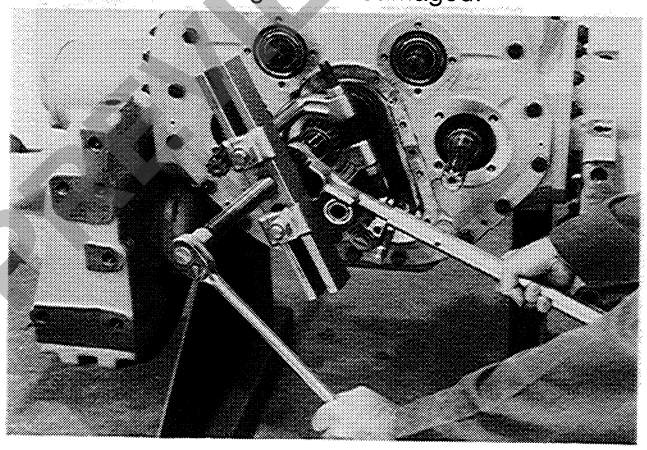
512136

24. Remove the range housing.



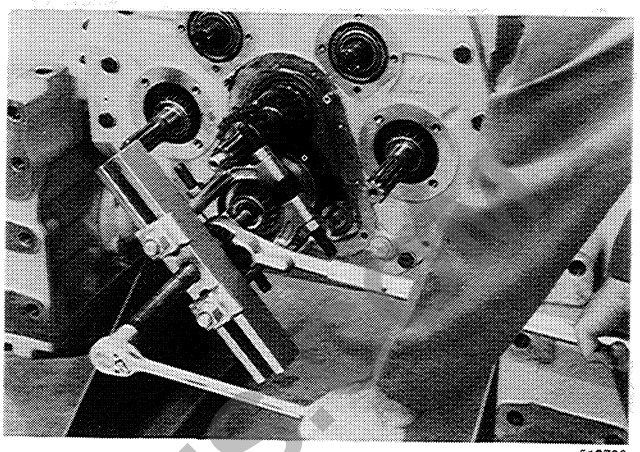
512138

25. Use an acceptable puller and remove the tapered roller bearing from the input shaft. The tapered roller bearing will be damaged.



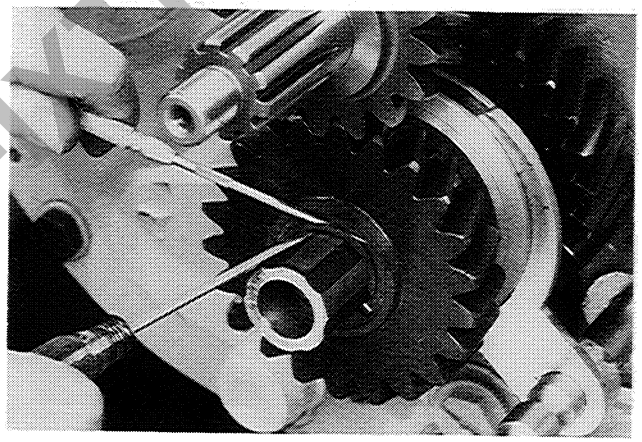
512706

26. Use the puller to remove the tapered roller bearing from the main shaft.



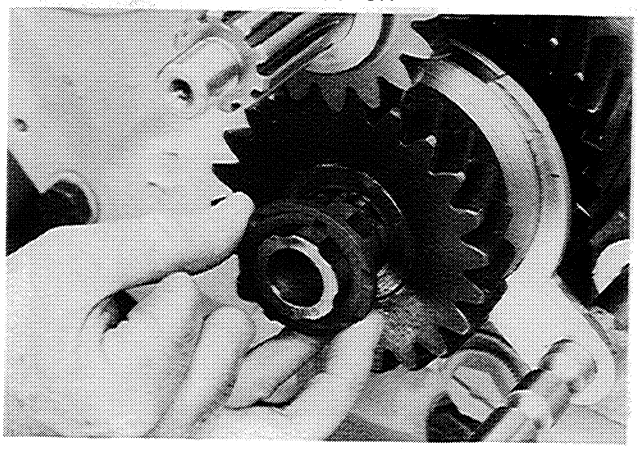
512708

27. Remove the snap ring from the main shaft.



512802

28. Remove the thrust washer.

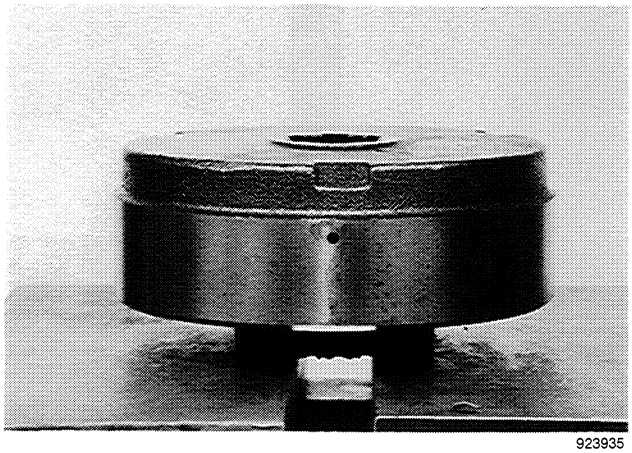


512804

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13. Two holes in the OD of the housing for the low clutch are aligned with the holes in the bore of the housing. Put the low clutch in the press so that the low gear is down. Put the housing in the press so that one of the holes on the OD aligned with a hole in the bore is in front of you.



923935

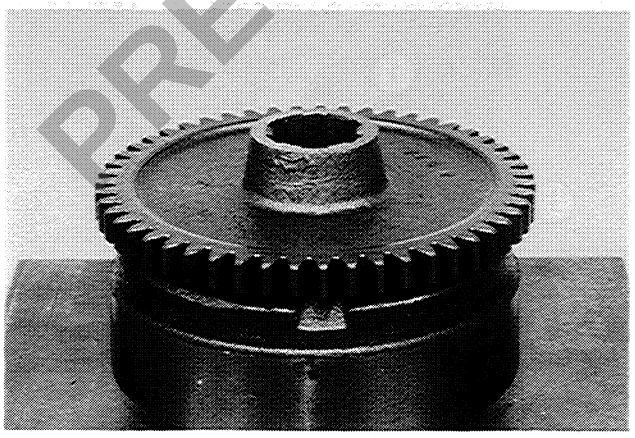
14. Put the spacer on the housing.



1. Spacer

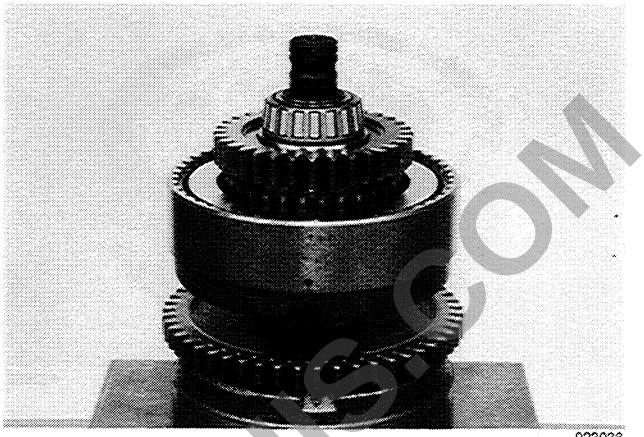
923936

15. Put the drive gear on the spacer and housing so that the long hub is up.



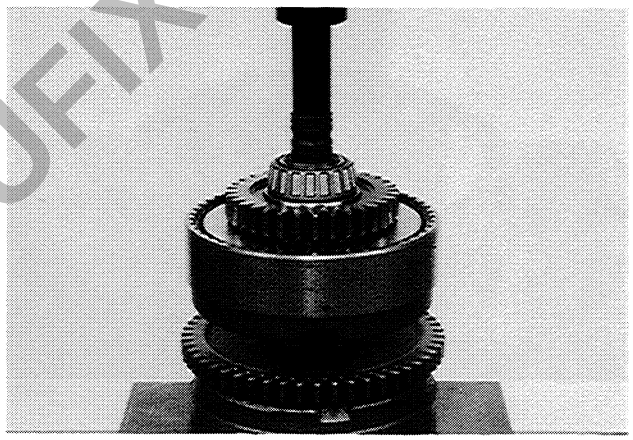
923937

16. Install the track speed shaft in the drive gear and low clutch. Be sure the hole in the large spline is aligned with the hole in the bore of the housing.



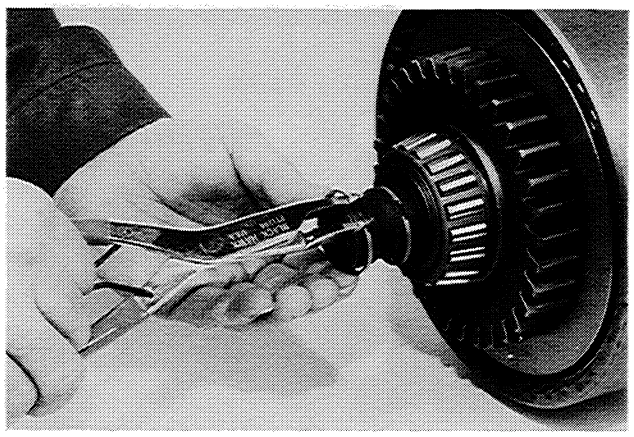
923938

17. Press the track speed shaft into the ball bearing in the low gear.



923940

18. Install the sealing rings in the grooves in the track speed shaft.



923941

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7003

BRAKE

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Written In *C*lear *A*nd *S*imple *E*nglish

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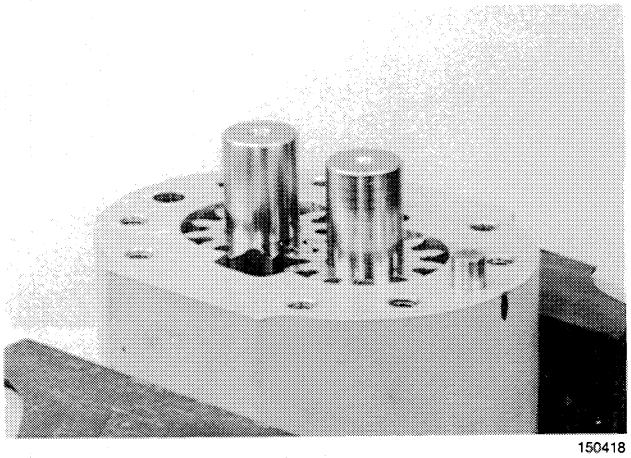
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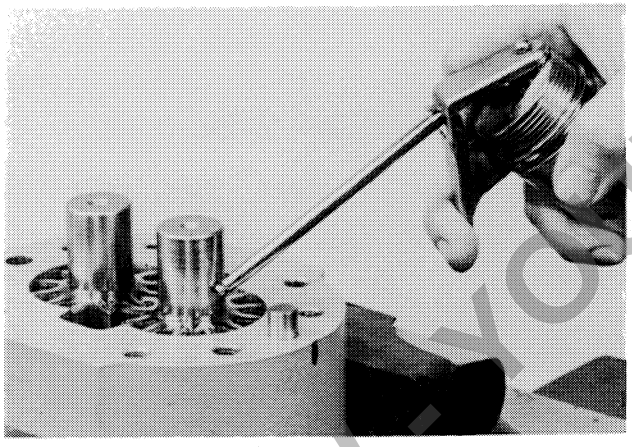
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11. Fasten the body in the vise as shown.



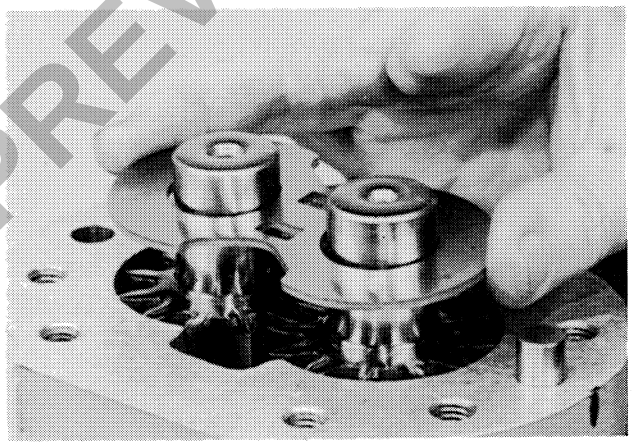
150418

12. Lubricate the shafts and the faces of the gears with clean oil.



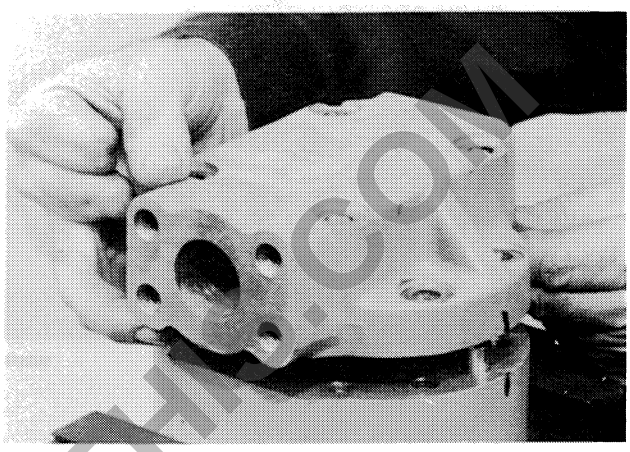
150419

13. Install the thrust plate so that the bronze side is against the gears. If the old thrust plate is being installed, the side that shows the most wear must be on the inlet side.



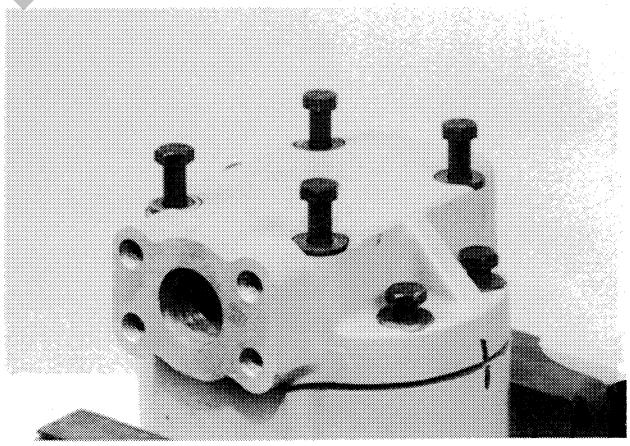
150420

14. Install the port end cover so that the alignment marks are aligned. If new parts are being assembled, install the port end cover so that the small port will be on the left when the hydraulic pump is installed.



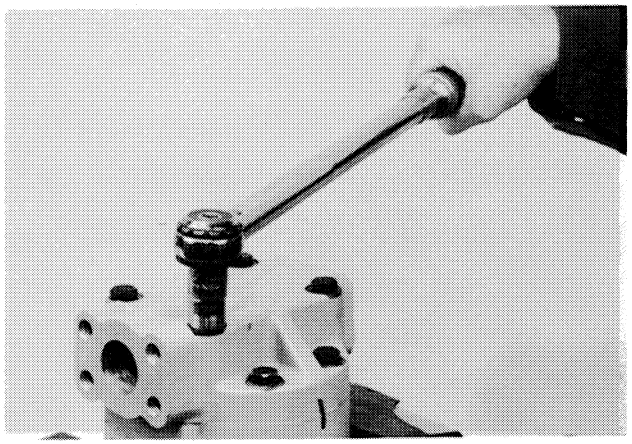
150421

15. Install the cap screws and hardened washers that hold the port end cover in place.



150422

16. Tighten the cap screws to the torque specification on page 8005-2.

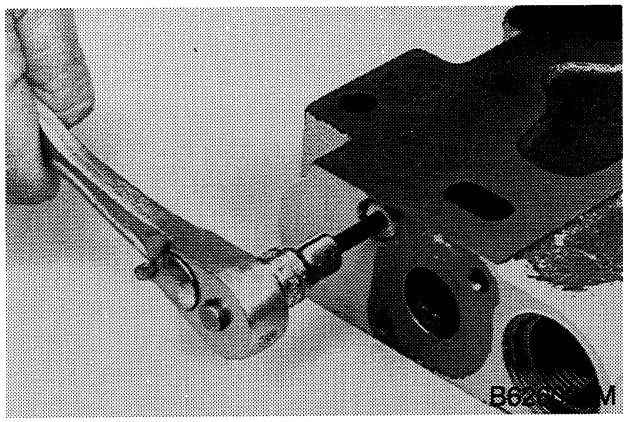


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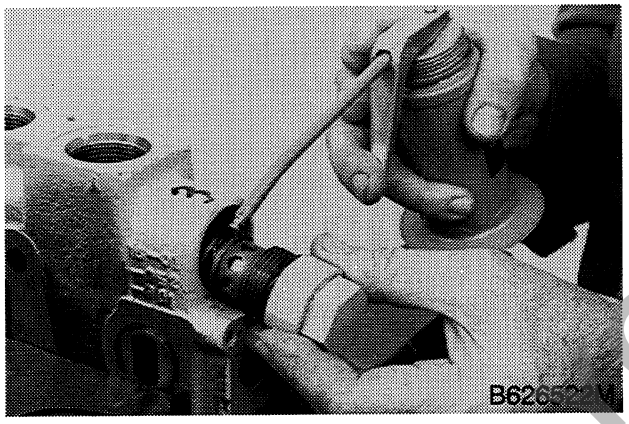
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STEP 160



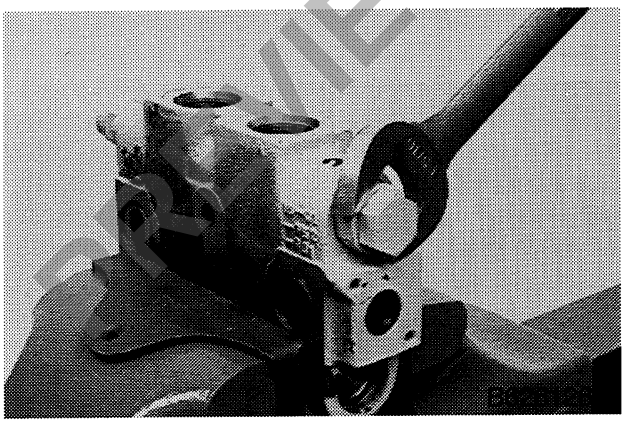
Install and tighten the primary shuttle.

STEP 161



Lubricate the O-rings on the anticavitation valve and the circuit relief-anticavitation valve or the plug and the bores with clean oil.

STEP 162



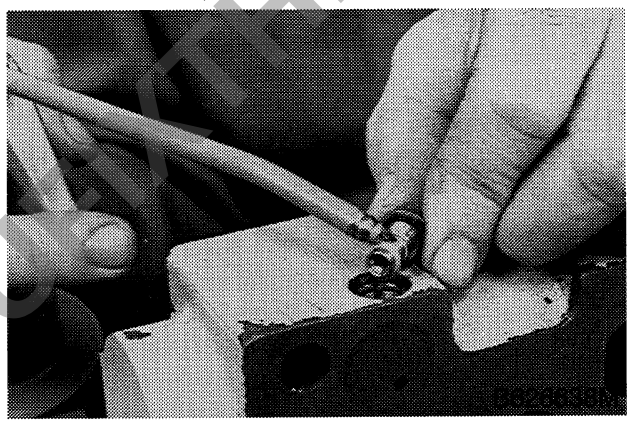
Install the anticavitation valve in the top port and the circuit relief-anticavitation valve or plug in the bottom port and tighten.

STEP 163



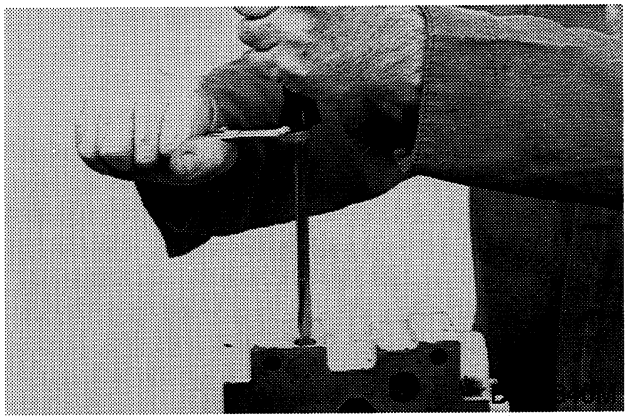
Install the steel ball for the secondary shuttle.

STEP 164



Lubricate the O-rings on the secondary shuttle and the bore with clean oil.

STEP 165

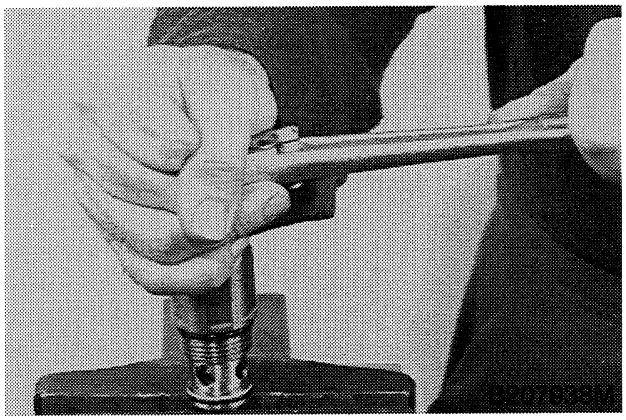


Install and tighten the secondary shuttle.

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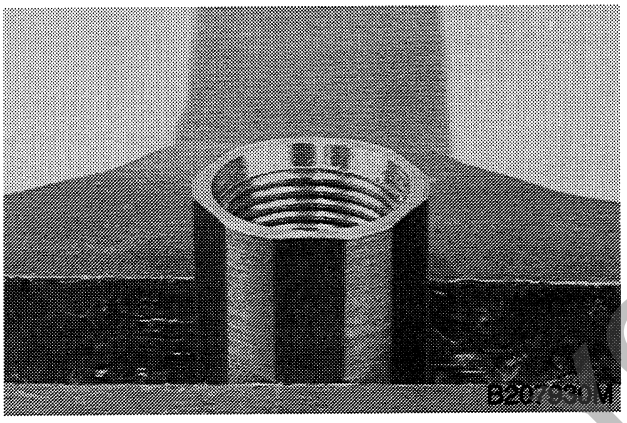
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STEP 429



Tighten the lock nut.

STEP 430



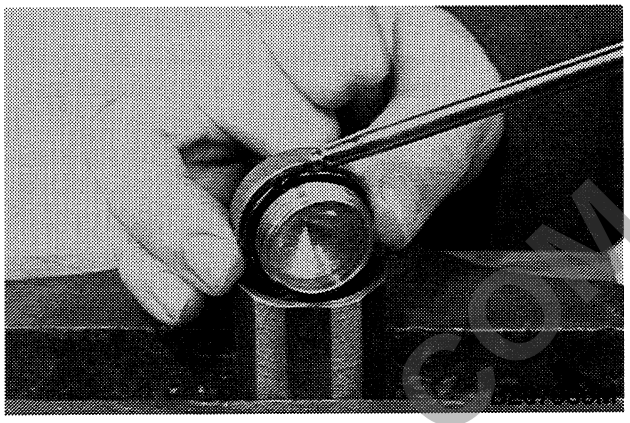
Fasten the body in the vise.

STEP 431



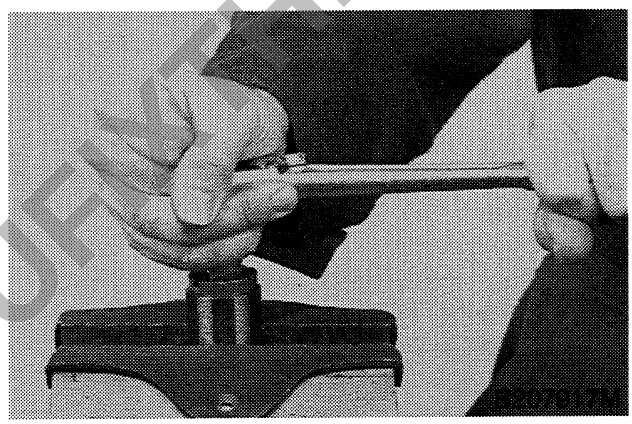
Install a new O-ring on the plug.

STEP 432

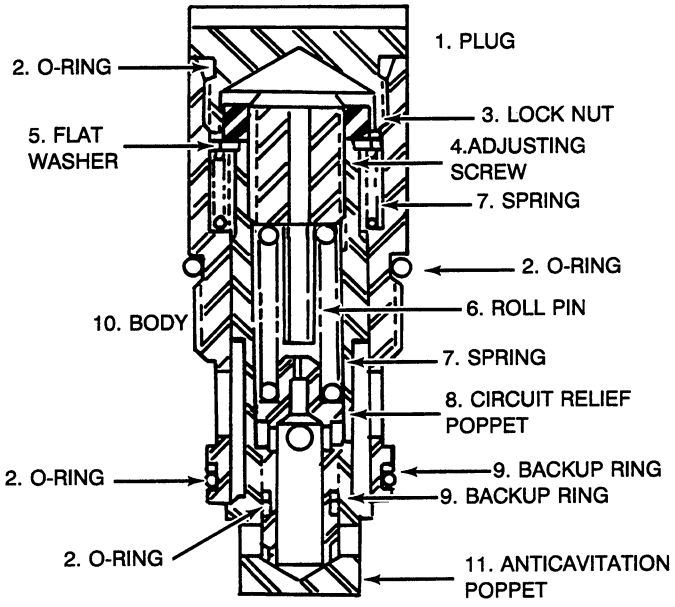


Lubricate the O-ring ring with clean oil.

STEP 433



Install and tighten the plug.

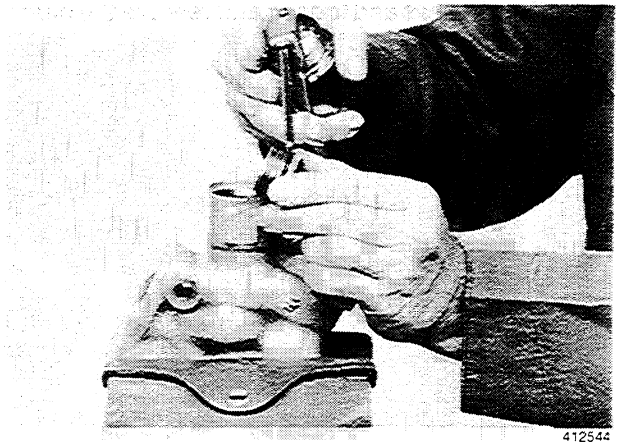


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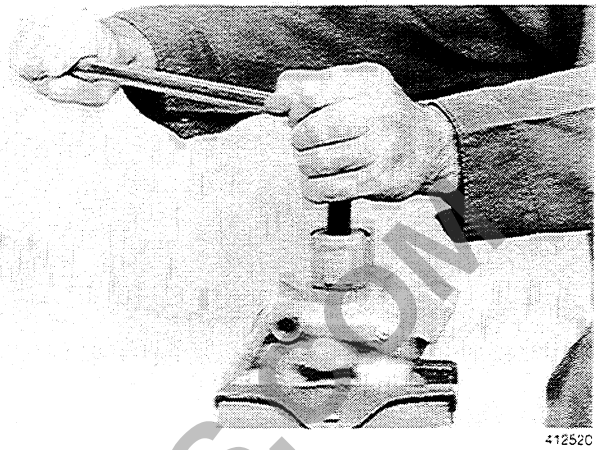
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7. Lubricate the O-ring and seat with clean oil.



412544

8. Install and tighten the plug.



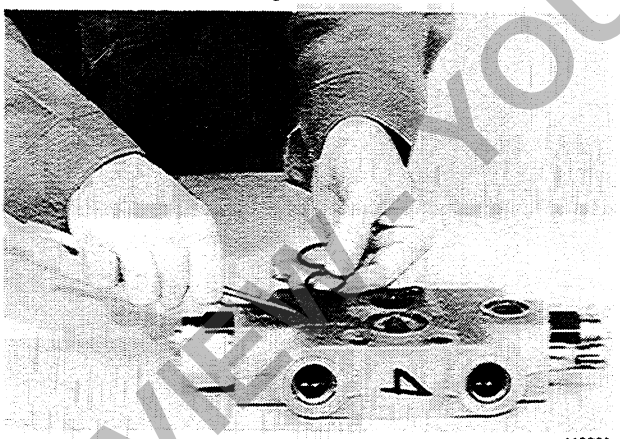
412520

ALL WORKING SECTIONS

Disassembly

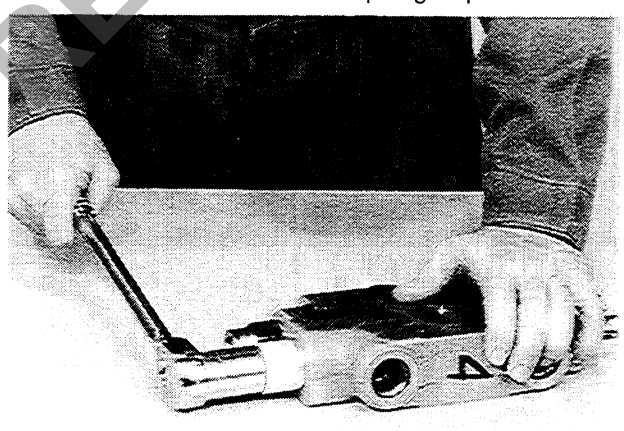
This procedure is for all working sections. The boom section was used for photographs. Use the steps that are for the working section you are repairing.

1. Remove the O-rings.



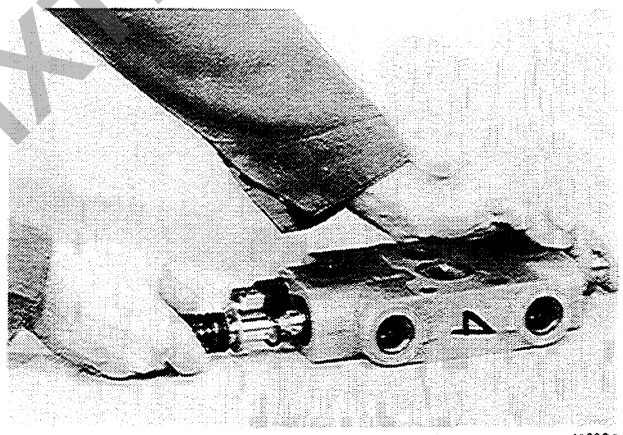
412320

2. Loosen and remove the spring cap.



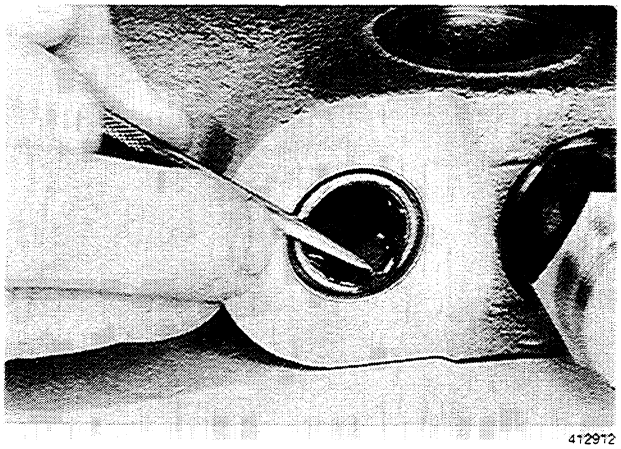
412322

3. Remove the spool.



412324

4. Remove the O-ring from the groove at the top of the spool bore.



412972

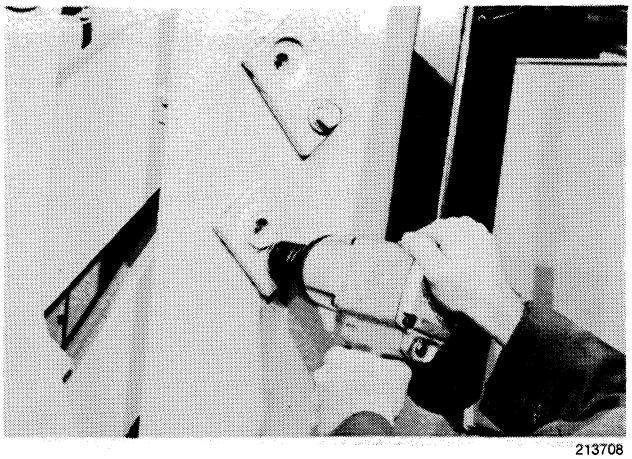
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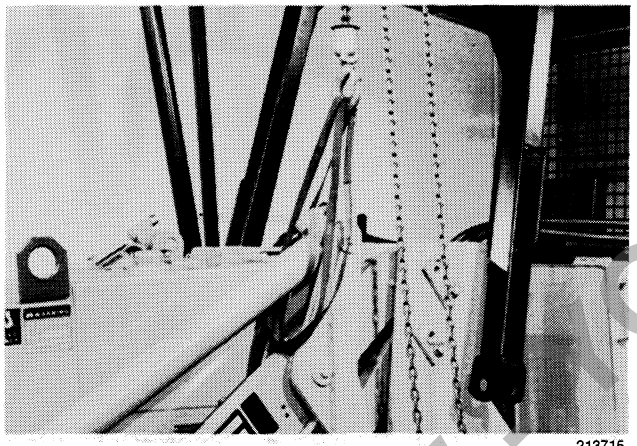
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13. Tighten the cap screws.



213708

14. Disconnect the lifting equipment from the bucket cylinder.



213715

15. Press the tapered bushings out of the rubber bushings if this has not been done.

16. Install the rubber bushings in the bracket for the ROPS canopy or cab.



213723

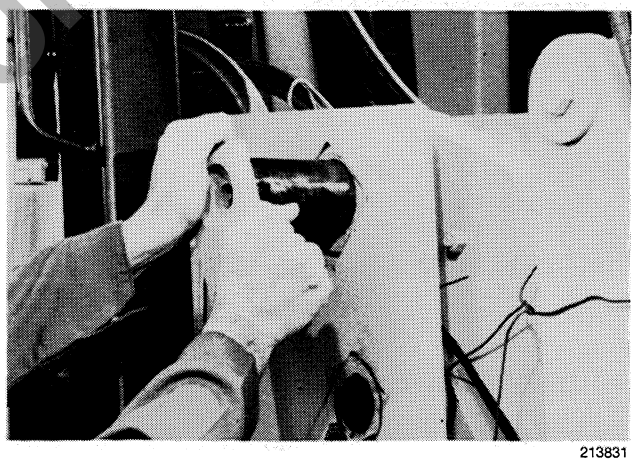
17. Connect the lifting equipment to the right bucket cylinder.



213721

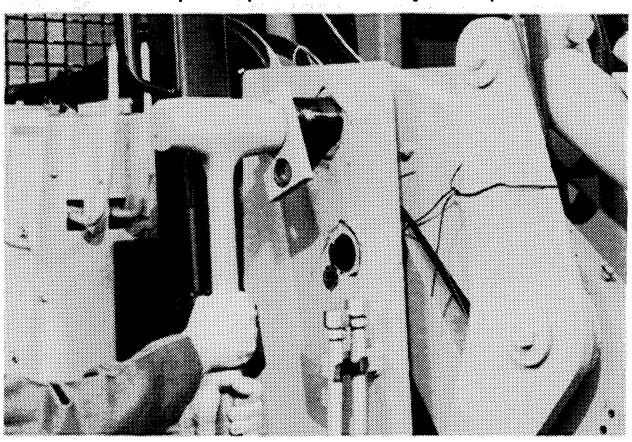
18. Align the loader frame with the main frame. To do this it can be necessary to move the machine slightly in addition to raising or lowering the loader frame.

19. Start the pivot pin for the loader frame into the main frame.



213831

20. Drive the pivot pin all the way into place.



213834

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OPERATORS SEATS AND SEAT BELTS

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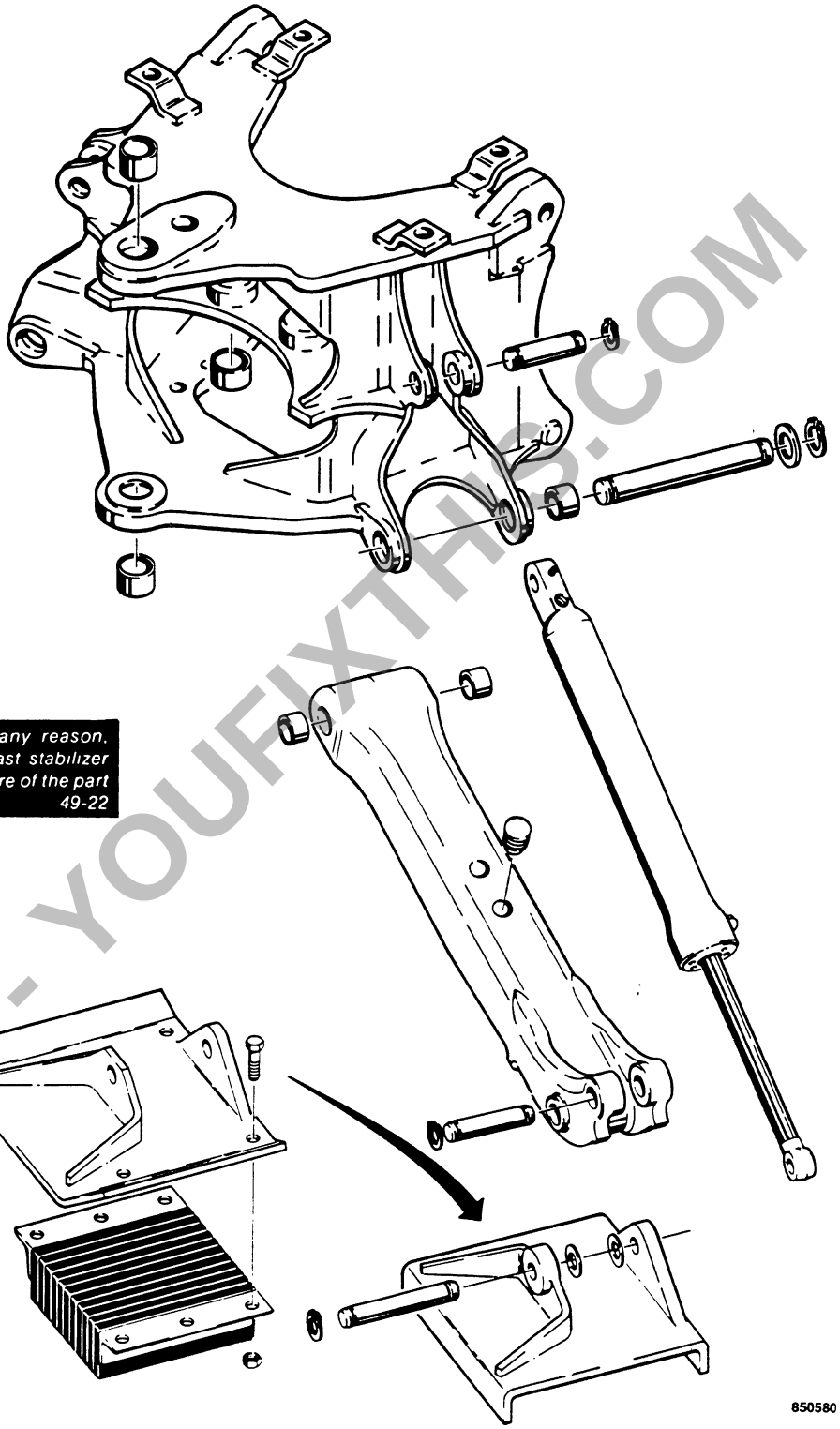
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WARNING: *DO NOT for any reason, weld the stabilizer leg or cast stabilizer foot. Welding will cause failure of the part and result in personal injury.* 49-22

850580

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25. Lift the secondary clutch band off the clutch hub.

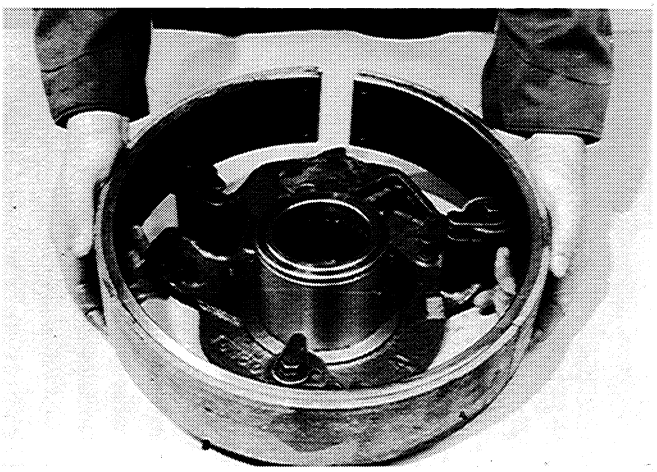


Figure 125

26. Disconnect the fitting and hose from the clutch cylinder.

27. Remove the clutch cylinder from the clutch lever.



Figure 126

NOTE: *The following photographs show one bearing on the coupling. Some machines have two bearings installed side by side.*

28. Put the coupling with the bearing and hydraulic tube in a vise with soft jaws. Disconnect the tube from the fitting in the coupling.

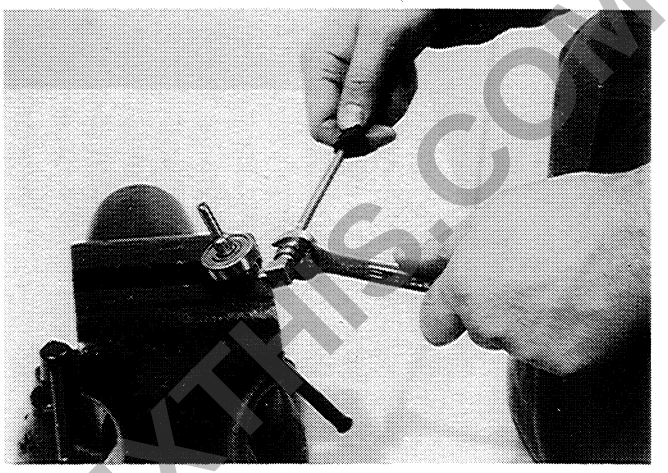


Figure 127

29. Remove the fitting from the coupling.

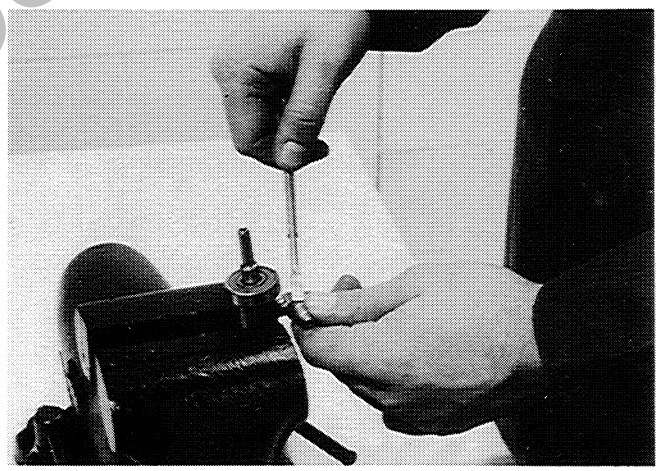


Figure 128

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