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 the 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

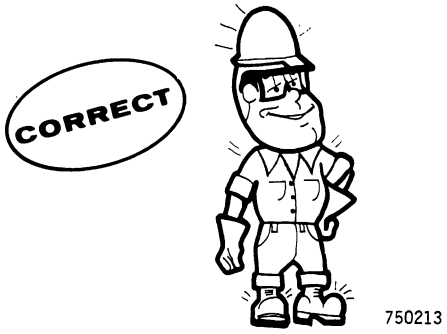
DANGER: *Engine exhaust fumes can cause death. If it is necessary to start the engine in a closed place, remove the exhaust fumes from the area with an exhaust pipe extension. If you do not have an exhaust pipe extension, open the doors and get outside air into the area.* 48-56

WARNING: *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



750213

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

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

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ENGINE

Removal

1. Remove the pins that hold the strut in place and lower the strut.



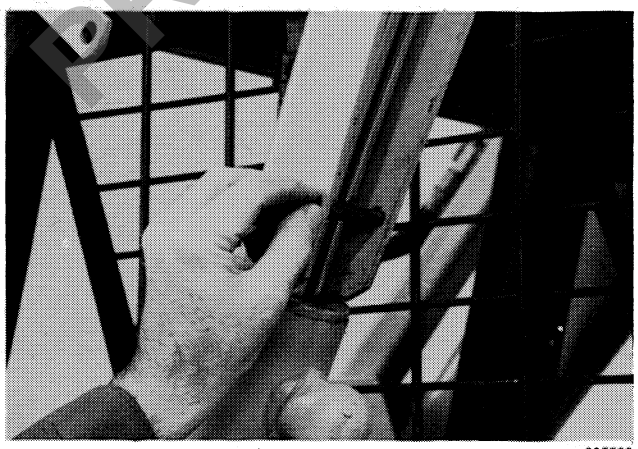
305537

2. Start the engine and raise the loader frame until the strut is on the piston rod and against the end of the lift cylinder.



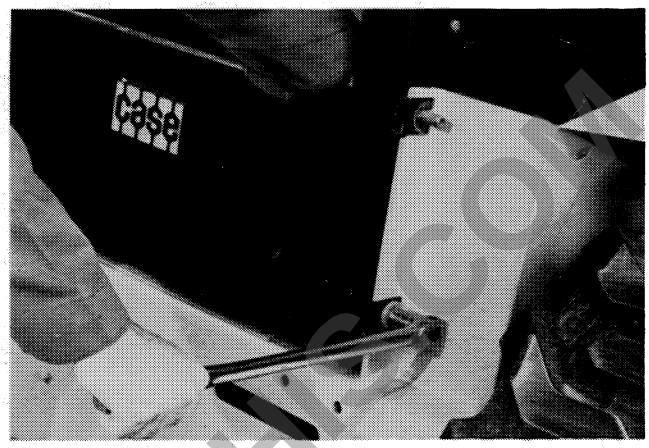
305538

3. Install the pins that hold the strut.



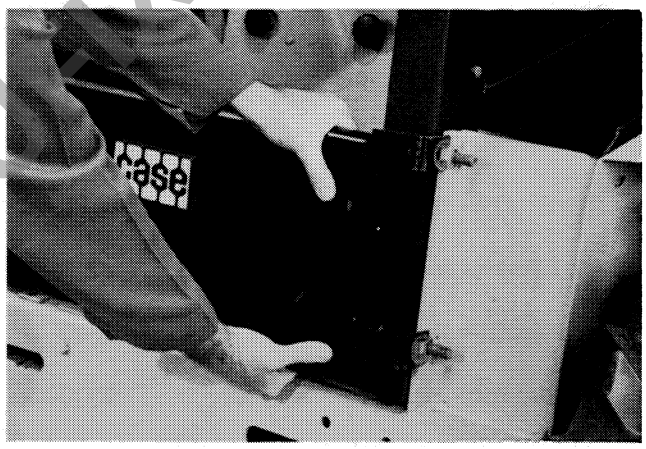
305539

4. Loosen and remove the nuts, lock washers, and hardened washers.



305541

5. Remove the guard.



305542

6. Remove the bolts.



305543

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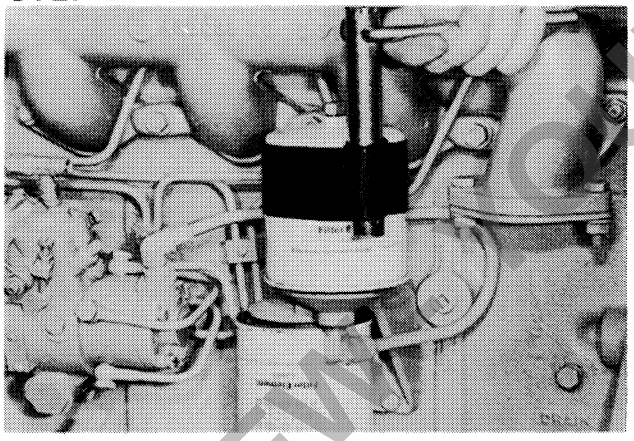
FILTER REMOVAL AND INSTALLATION

STEP 1



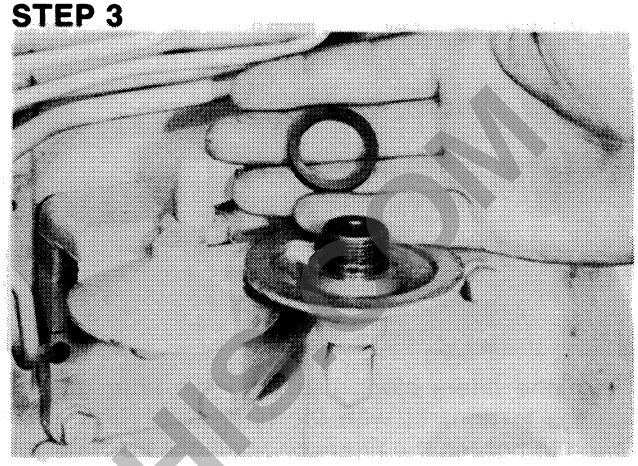
Close the fuel tank shutoff valve. Clean the elements and the engine area next to the filters.

STEP 2



Use a strap type wrench to remove the filters. Turn the filters counterclockwise for removal.

STEP 3



Remove the gasket from the final filter mounting stud and install a new gasket.

STEP 4



Put a little clean oil or grease on the gaskets of the new filters.

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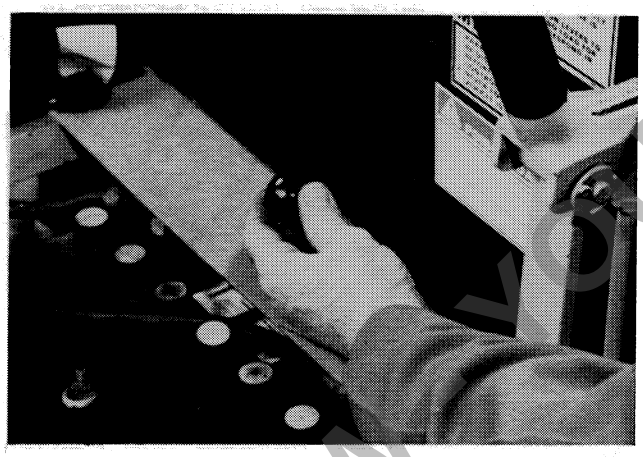
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4. Make sure that the load control is in the OFF position.



311535

5. Loosen and remove the knob from the control lever for the parking latch.



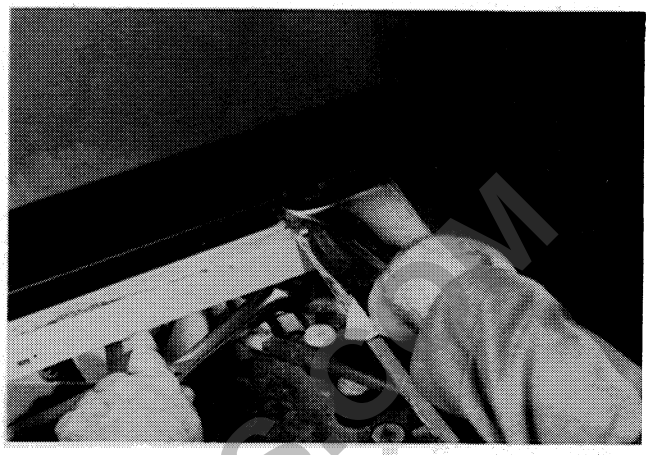
309120

6. Loosen and remove the nut, lock washer, flat washers, and bolt at the front of the left closure panel.



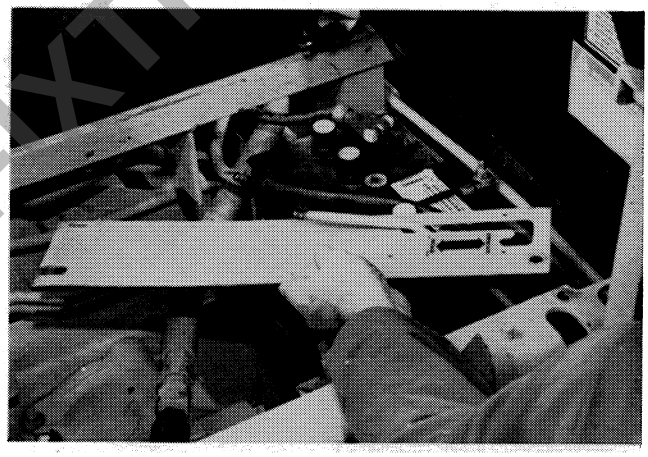
309121

7. Loosen the nut on the bolt for the left seat belt.



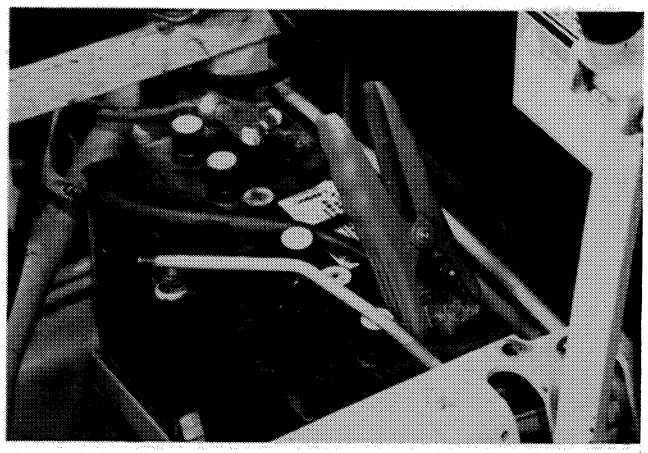
305513

8. Remove the closure panel.



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9. Connect the positive load cable to the positive battery post.



309124

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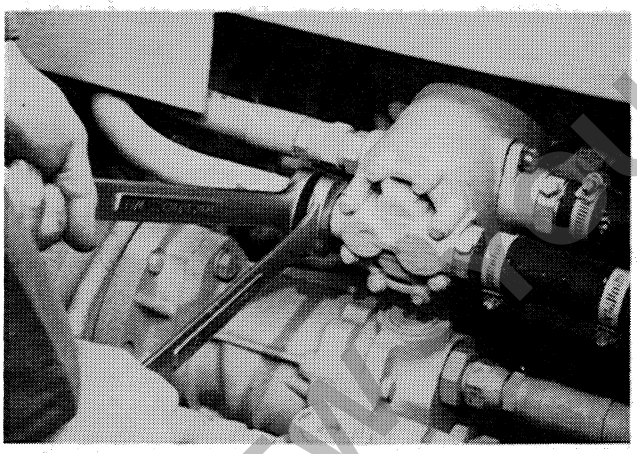
3. Remove the floor plate.



305524

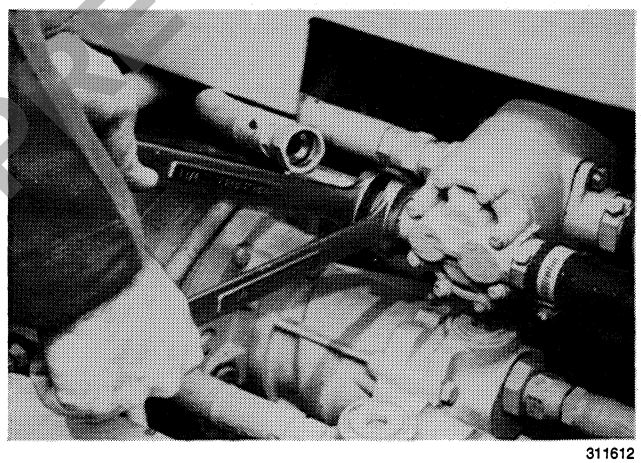
4. Remove the dirt and grease from the charging pump and the area around the charging pump.

5. Disconnect the hose from the output port.



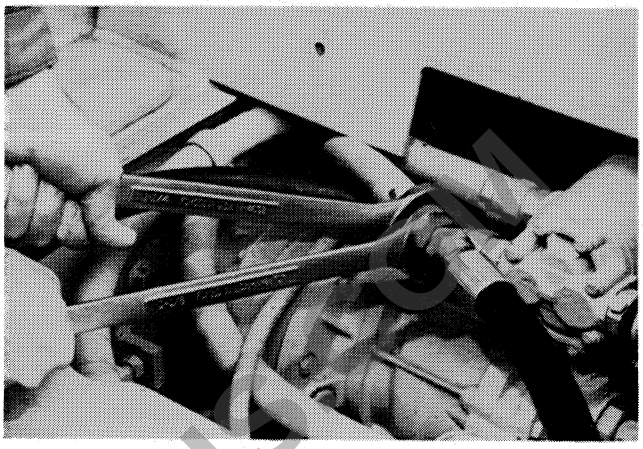
311611

6. Connect the inlet hose of the flowmeter to the charging pump.



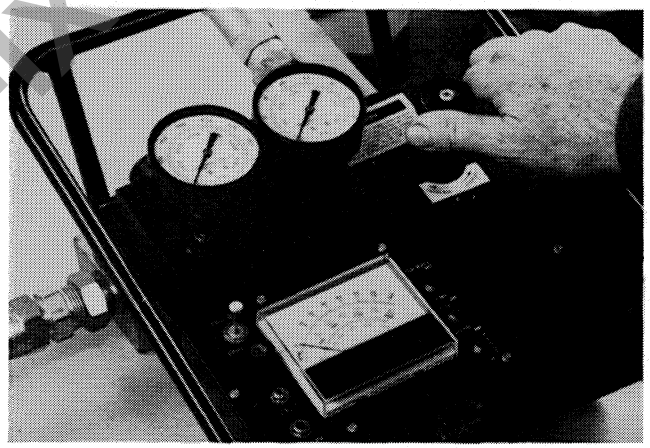
311612

7. Connect the outlet hose of the flowmeter to the hose.



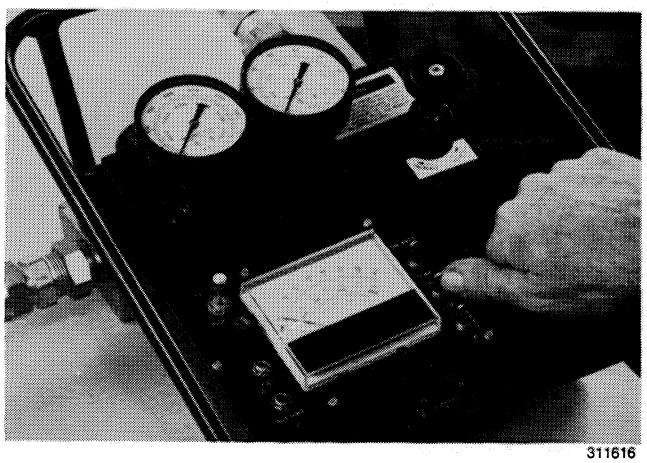
311613

8. Make sure that the pressure valve is all the way open.



311615

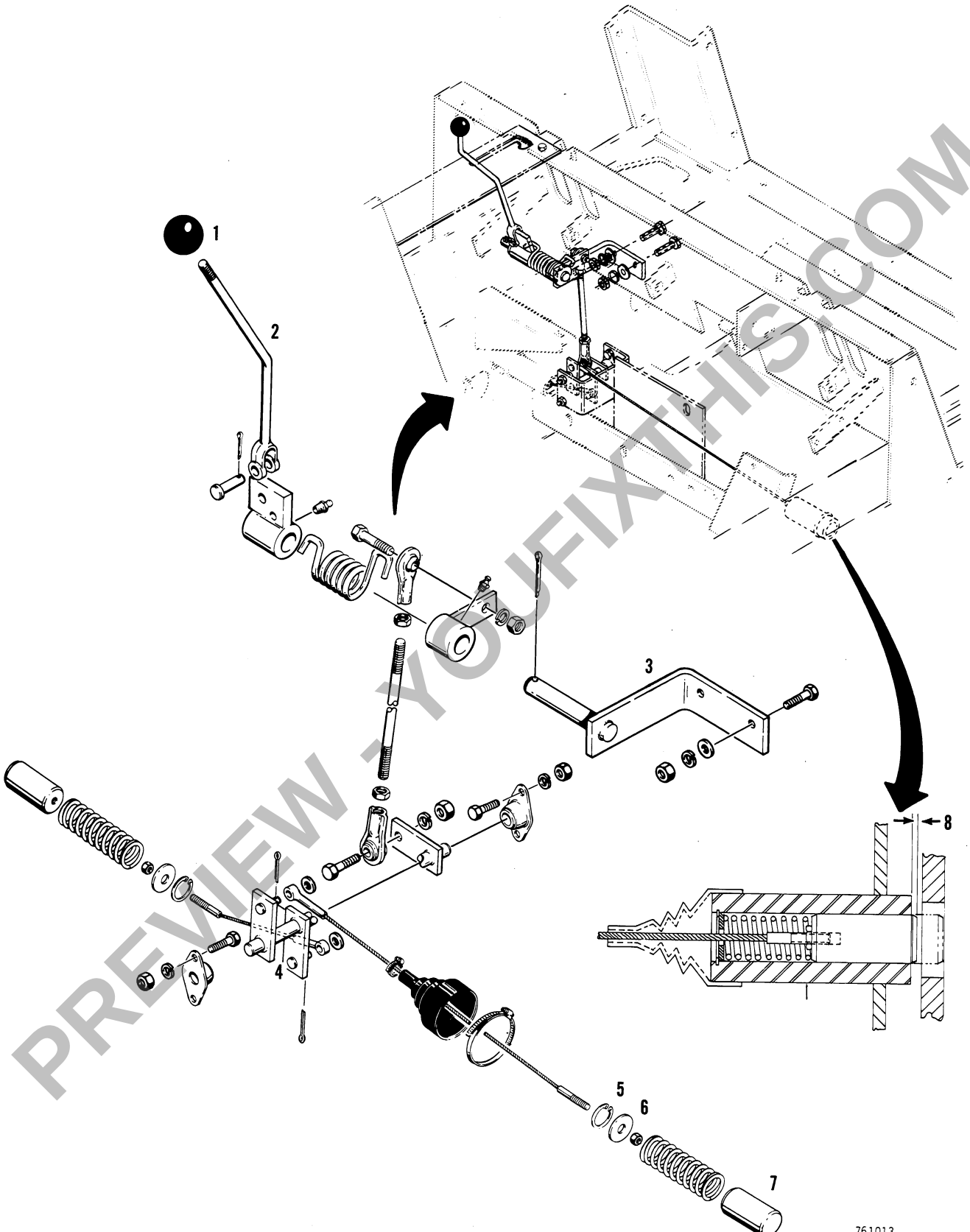
9. Move the flow switch to the Flow position.



311616

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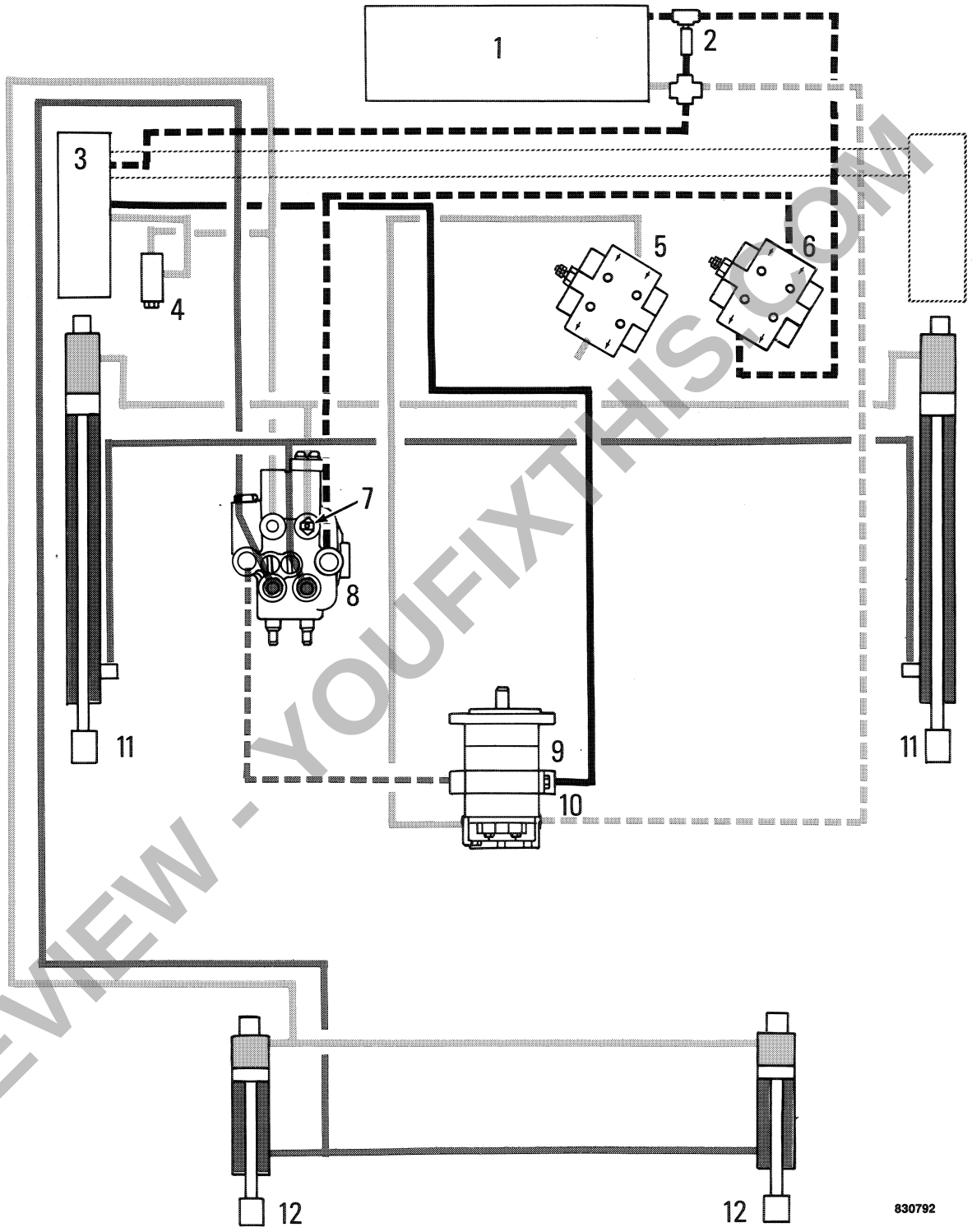


761013

1. KNOB
2. CONTROL LEVER
3. MOUNTING BRACKET
4. BELLCRANK
5. SNAP RING
6. WASHER
7. PIN
8. 1/16-1/8 INCH (1.6-3.2 mm) WHEN CONTROL LEVER IS IN THE DISENGAGE POSITION. USE YOUR FINGER TO CHECK PIN POSITION

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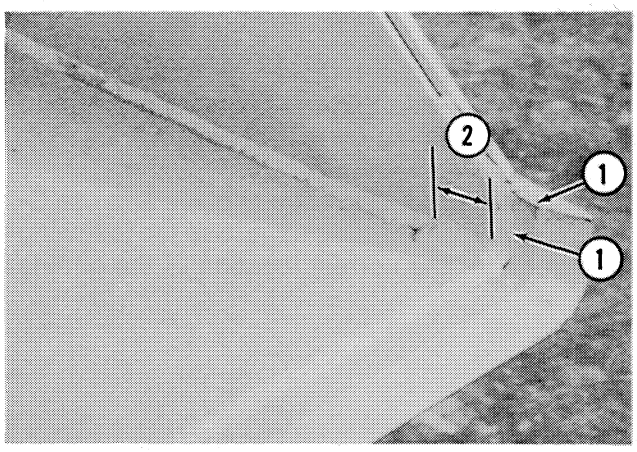
Suction Oil
Charging Pump Flow
Suction Oil
Return Oil
Equipment Pump Flow
Oil To And From A Port
Oil To And From B Port

1. *Oil Cooler*
2. *Bypass Valve*
3. *Reservoir*
4. *Dump Circuit Relief Valve*
5. *Charge Circuit Filter*
6. *System Filter*
7. *Restrictor*
8. *Control Valve*
9. *Equipment Pump*
10. *Charging Pump*
11. *Lift Cylinder*
12. *Bucket Cylinder*

Hydraulic Diagram for the Loader

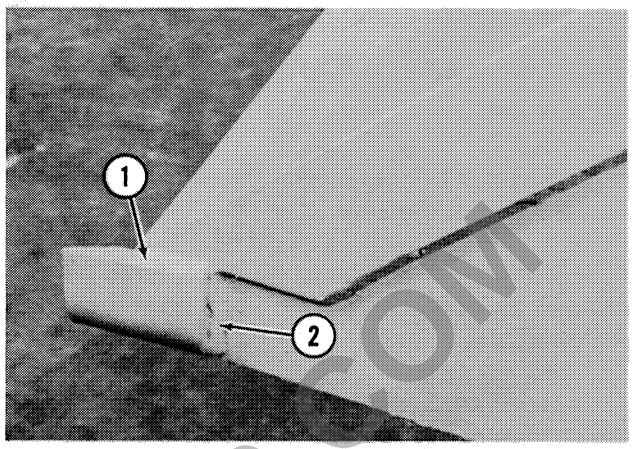
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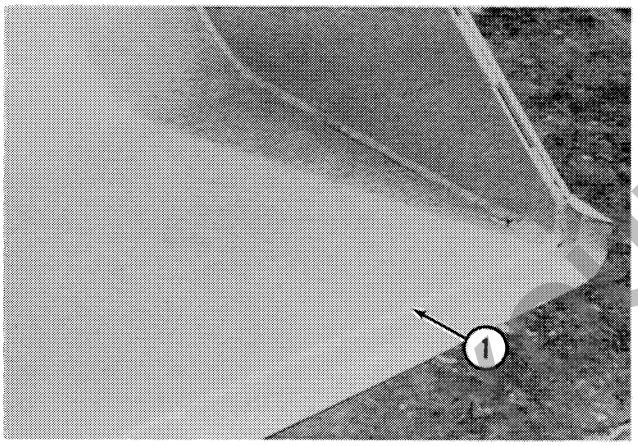
1. *3/16 Inch (5 mm) Fillet*
2. *Fill Each Corner*

311517



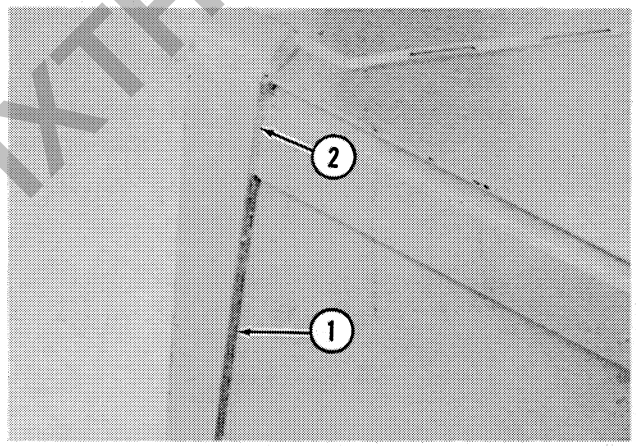
1. *Fill Space, If Necessary*
2. *3/16 Inch (5 mm) Fillet*

311514



1. *3/16 Inch (5 mm) Fillet*

311520



1. *Fill Space*
2. *3/16 Inch (5 mm) Fillet*

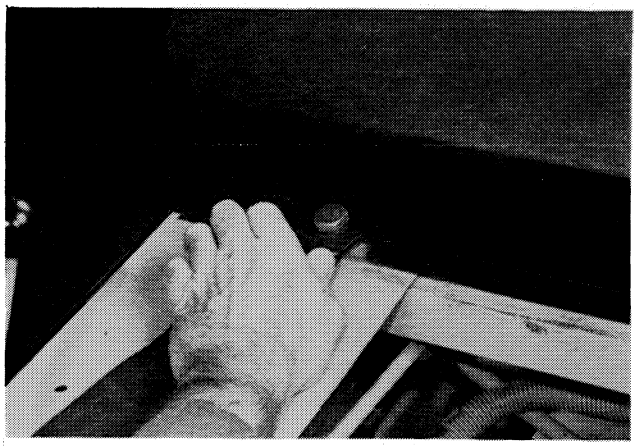
311511

Weld Specifications

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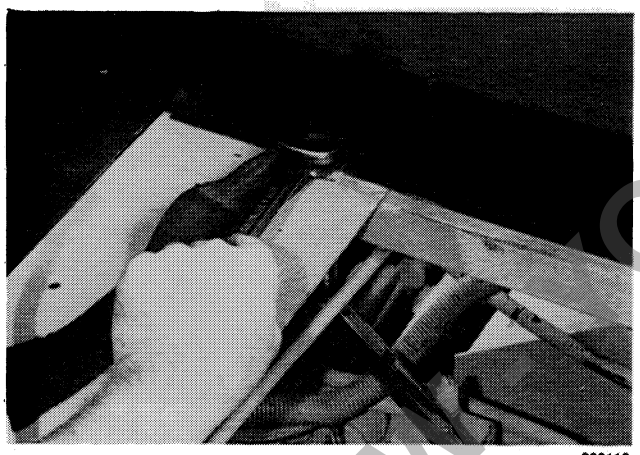
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81. Install the hardened washer, right seat belt, bolt, lock washer, and nut.



305510

82. Tighten the nut to 54 to 64 pound-feet (73 to 87 N m, 8 to 9 kg/m).



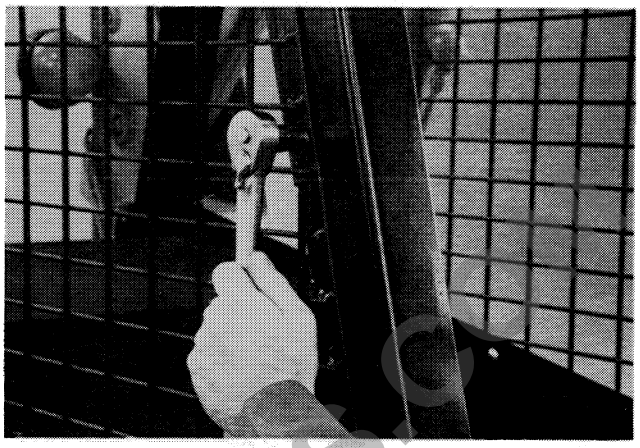
309118

83. Hold the instrument cluster in place and install the cap screws.



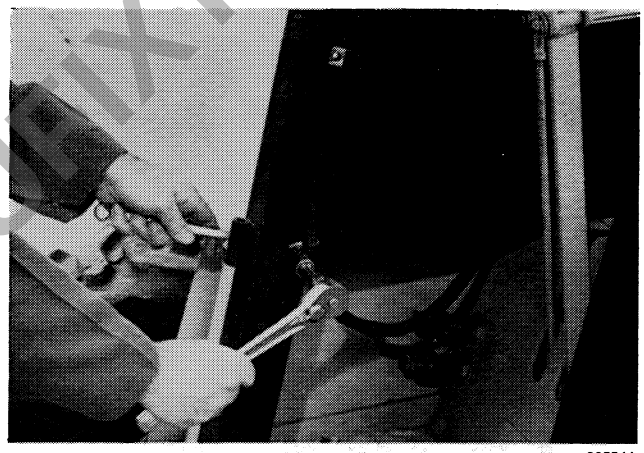
305616

84. Tighten the cap screws.



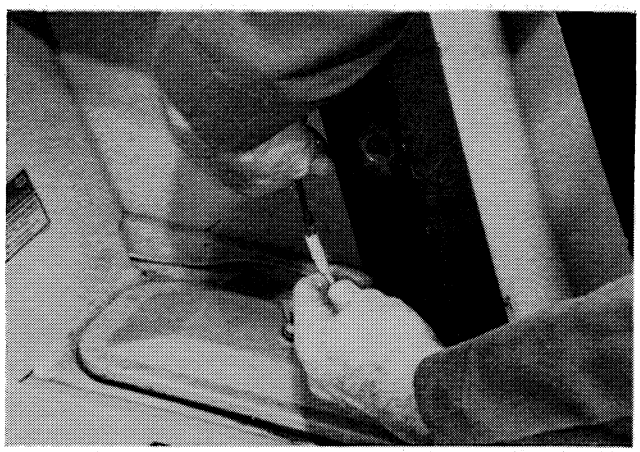
305615

85. Install the bolts, clamps, flat washers, lock washers, and nuts and tighten the nuts.



305544

86. If the machine has front lamps, connect the wiring.

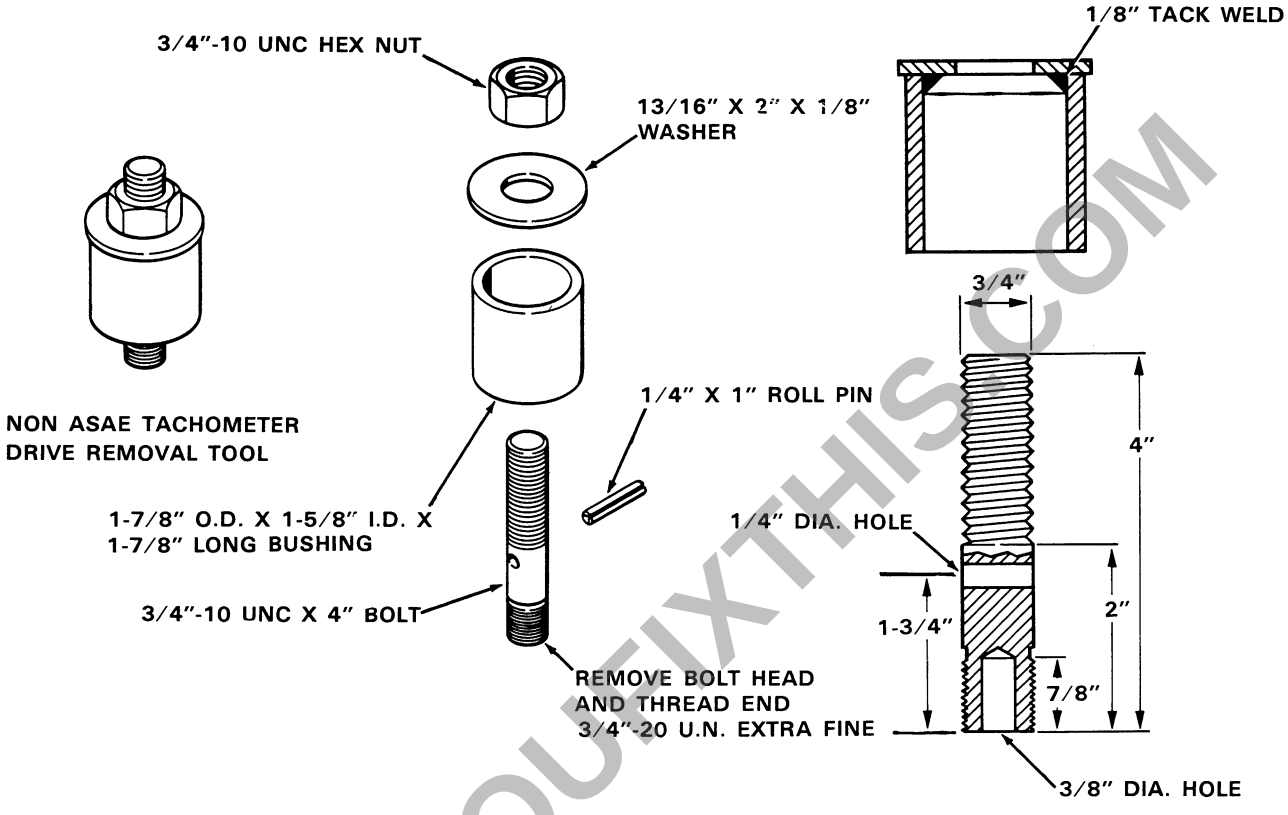


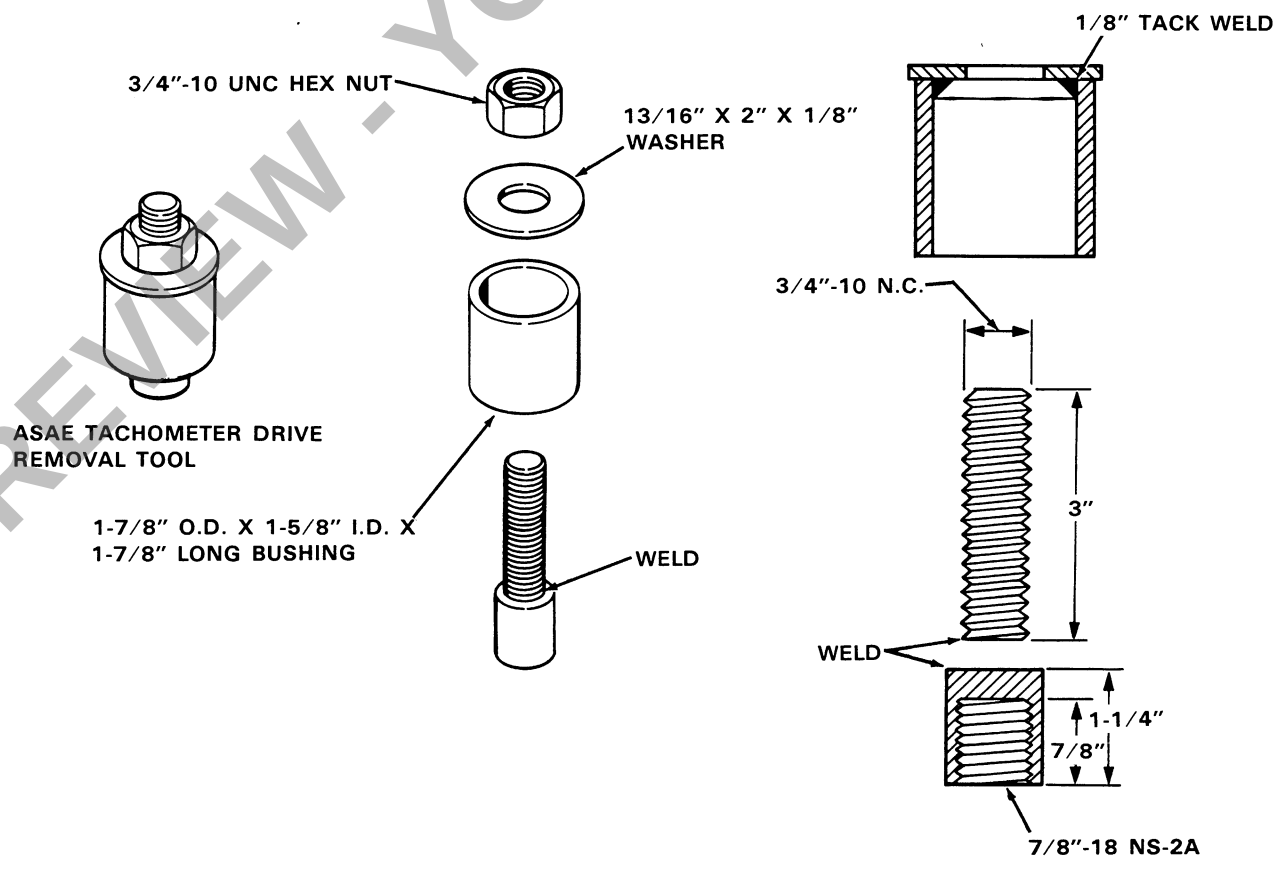
305517

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SPECIFICATIONS FOR TOOLS WHICH MUST BE MADE

Tachometer Drive Removal Tool

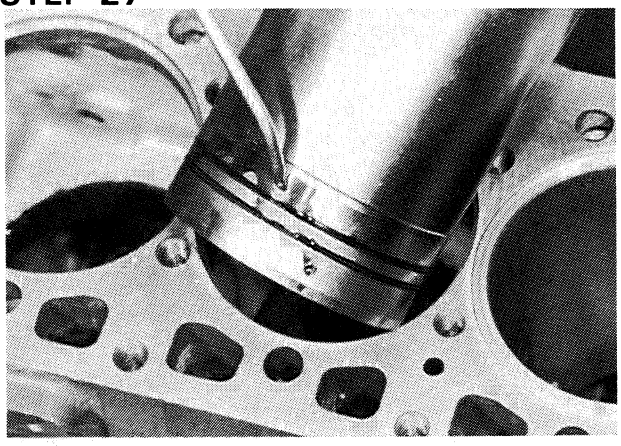




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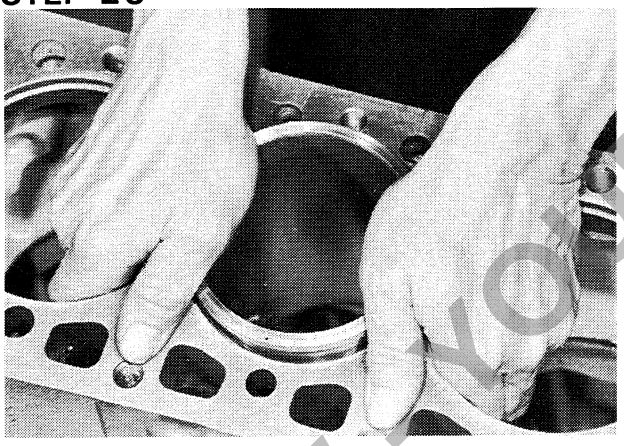
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STEP 27



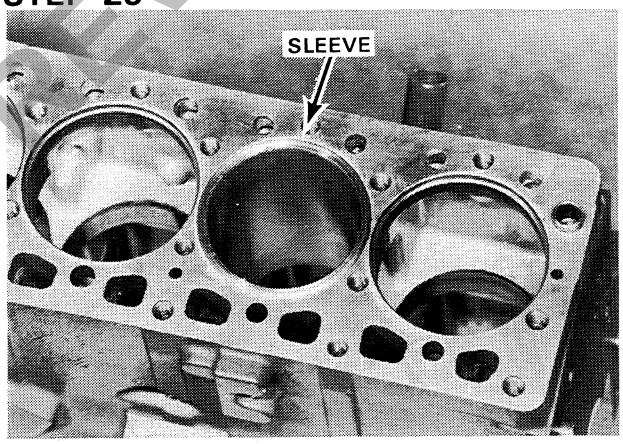
Lubricate the "O" ring with HDM No. 30 oil before installing into engine block.

STEP 28



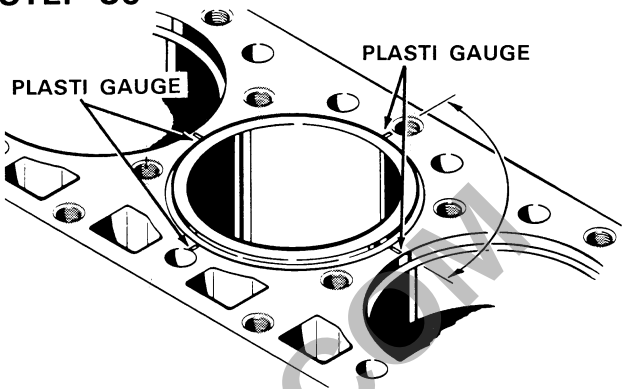
Press the sleeves into the block being careful not to damage the "O" rings. Do not rotate the sleeves while they are being installed. Old sleeves must be installed in the same position and location they were in before removal.

STEP 29



Cylinder sleeve installed.

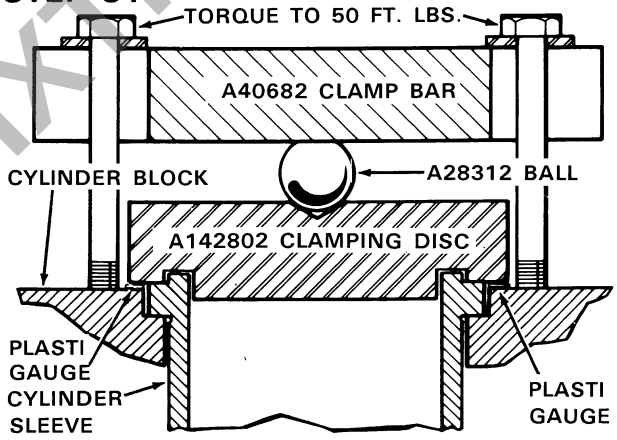
STEP 30



Measure sleeve protrusion at four positions on cylinder block using .001" to .003" plasti gauge.

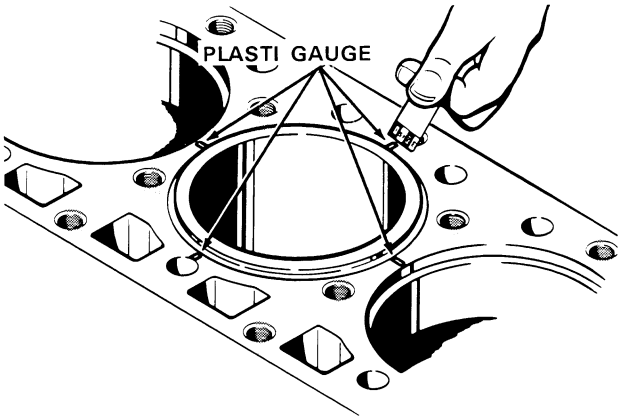
NOTE: The plasti gauge must not protrude onto the cylinder sleeve flange.

STEP 31



Install clamping disc A142802, ball A28312, and clamp bar A40682. Torque clamp bar mounting bolts 50 ft. lbs.

STEP 32

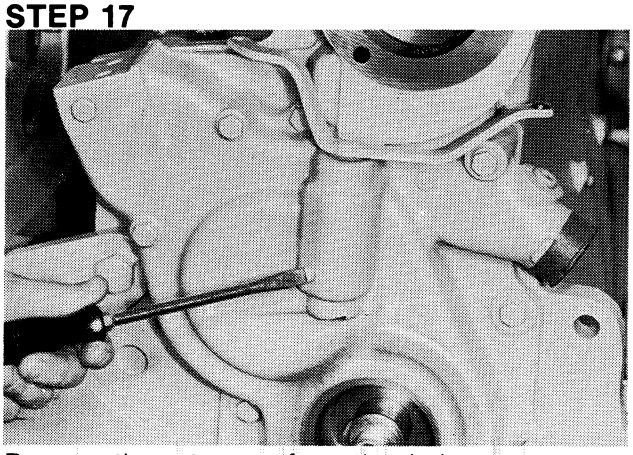


Remove protrusion tool and measure the flattened plasti gauge. Sleeve protrusion must not exceed .005". If protrusion exceeds .005", remove sleeve and install another sleeve until protrusion is below .005".

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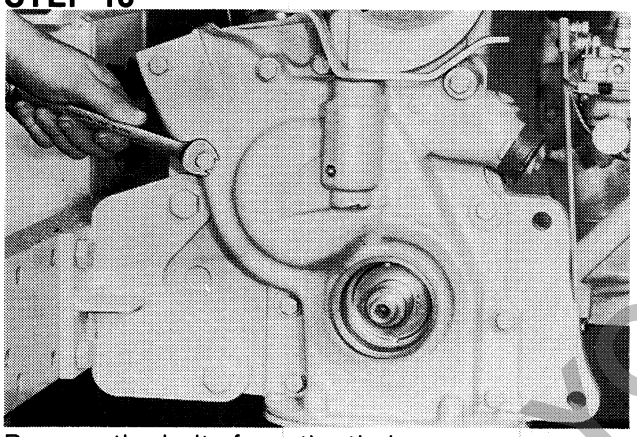
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STEP 17



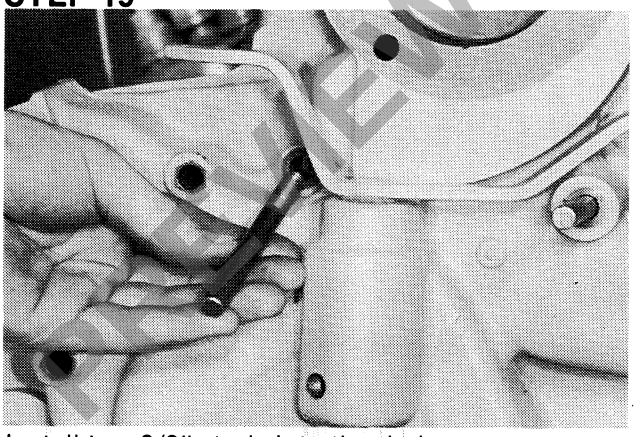
Remove the set screw from the timing gear cover.

STEP 18



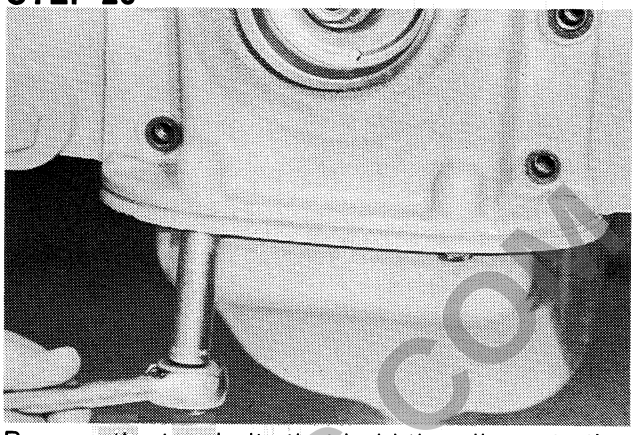
Remove the bolts from the timing gear cover.

STEP 19



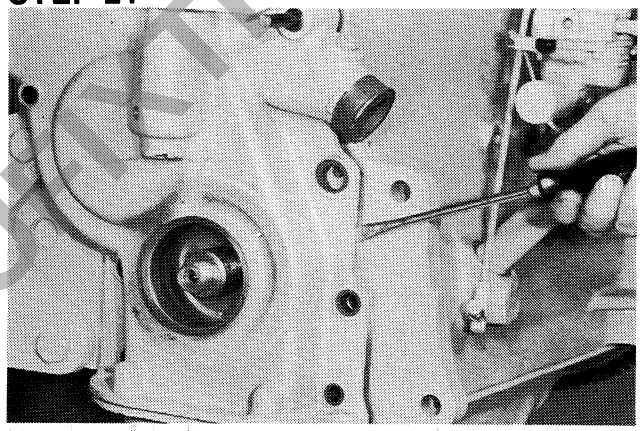
Install two 3/8" studs into the timing gear cover to make the removal easier.

STEP 20



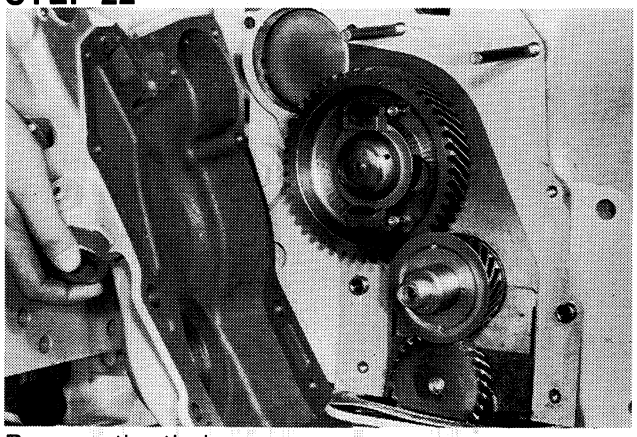
Remove the two bolts that hold the oil pan to the timing gear cover.

STEP 21



Use a prybar to separate the cover from the engine block.

STEP 22



Remove the timing gear cover.

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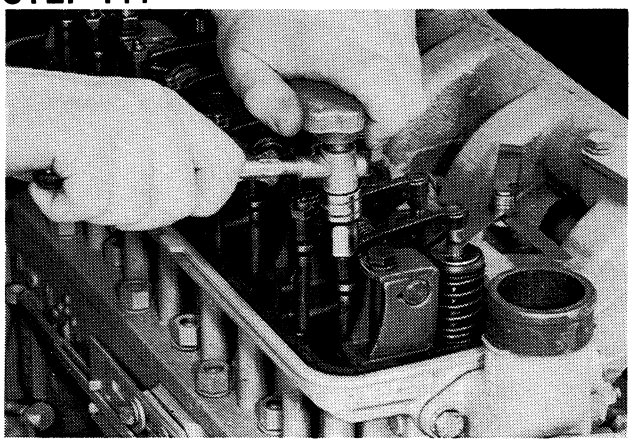
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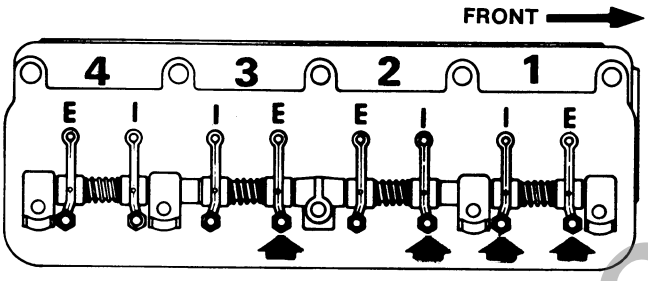
Issued 5-80 Printed in U.S.A.

Adjusting The Rocker Arm To Valve Clearance

COLD SETTING

STEP 144



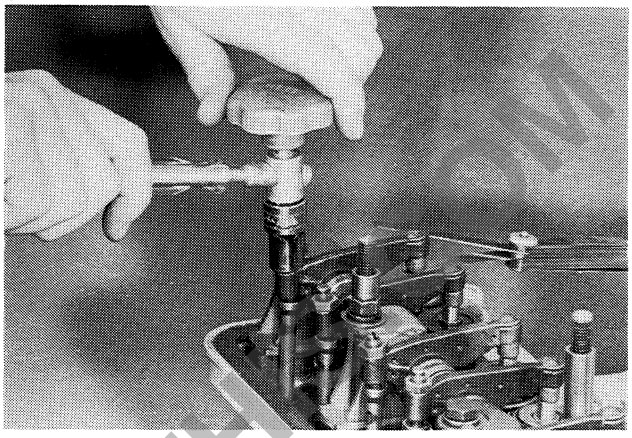


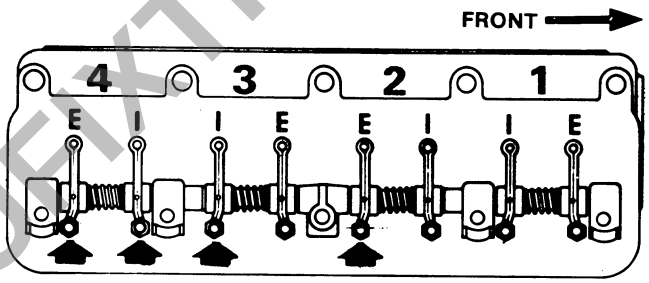
NUMBER ONE CYLINDER AT TOP DEAD CENTER OF COMPRESSION STROKE

Check and adjust the intake and exhaust valves as the arrows show below.

Valve clearance, cold: INTAKE VALVES - 0.014" (0.3556 mm)
EXHAUST VALVES - 0.020" (0.5080 mm)

STEP 145





NUMBER FOUR CYLINDER AT TOP DEAD CENTER OF COMPRESSION STROKE

Turn the engine over one complete revolution and align the timing pointer with the Top Dead Center timing mark on the flywheel.

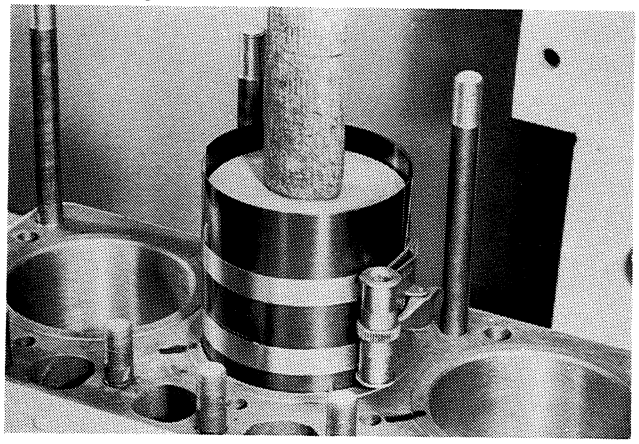
Check and adjust the intake and exhaust valves as the arrows show below.

Valve clearance, cold: INTAKE VALVES - 0.014" (0.3556 mm)
EXHAUST VALVES - 0.020" (0.5080 mm)

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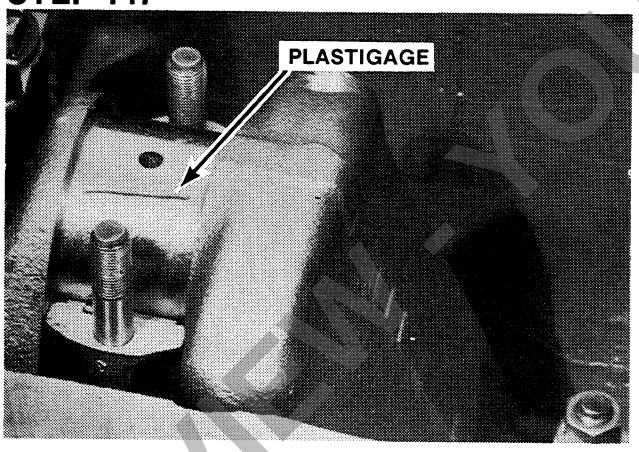
STEP 146



Install a ring compressor on the piston and carefully push the piston down into the cylinder sleeve.

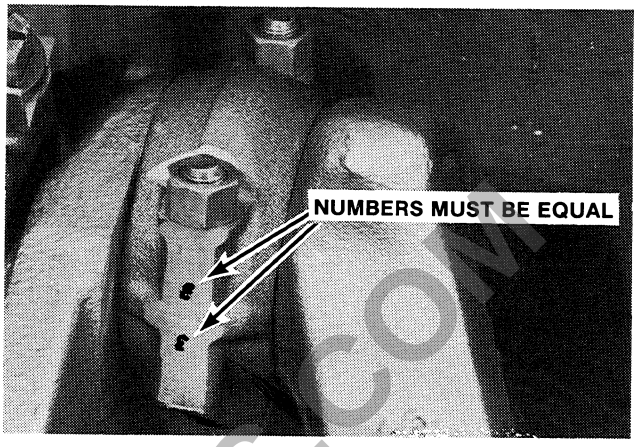
NOTE: *Make sure that the piston rings are in the grooves to the maximum depth before tightening the ring compressor. Tighten the ring compressor, a little at a time, making sure that the rings are free to be pushed into the sleeve.*

STEP 147



Clean the connecting rod journals and the bearing liners. Put a piece of Plastigage on the journal.

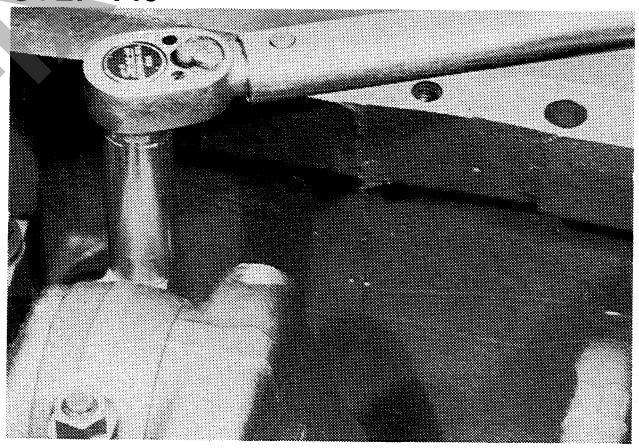
STEP 148



Install the bearing caps and nuts.

NOTE: *Make sure that the number on the cap is equal to the number on the connecting rod.*

STEP 149



Tighten the nuts to a torque of 45 to 50 ft. lbs. (61 to 68 Nm)(6.1 to 6.8 kgm).

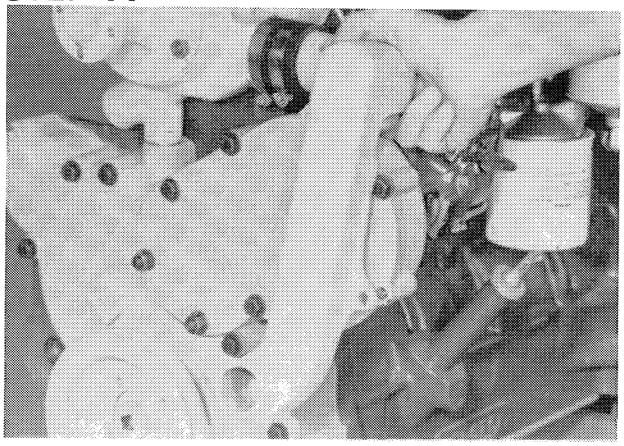
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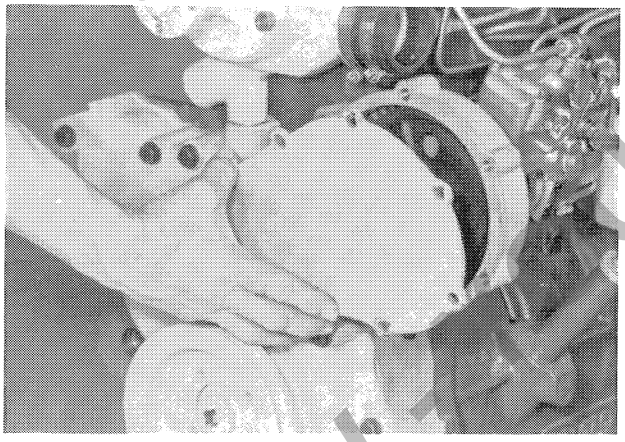
Checking Pump Gear Backlash

STEP 77



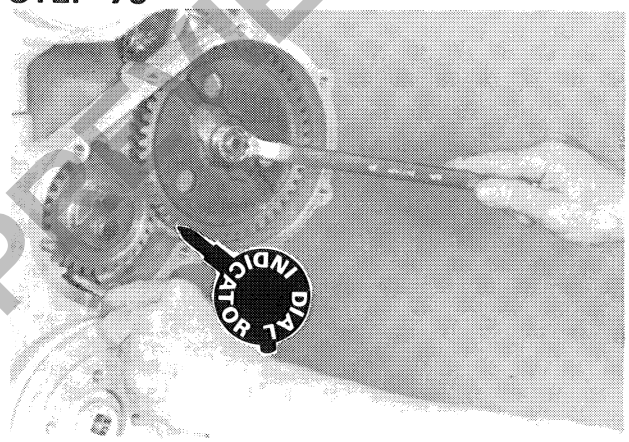
Remove water tube.

STEP 78



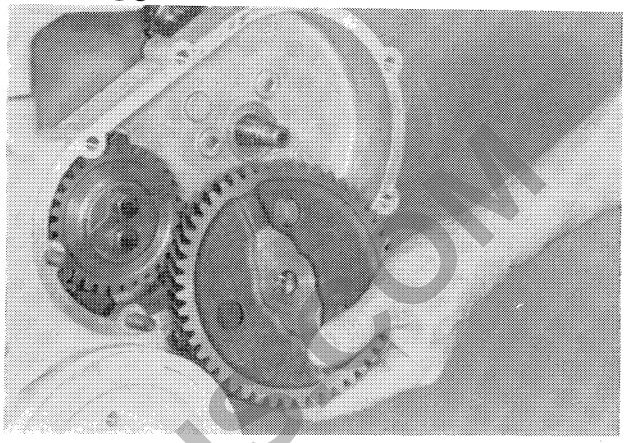
Remove cover plate and gasket.

STEP 79



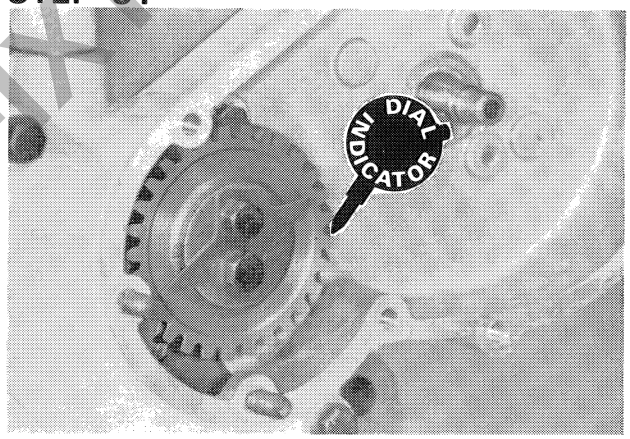
Check drive gear to idler gear backlash using a dial indicator. Maximum backlash .007 inch. Excessive backlash will cause erratic pump action.

STEP 80



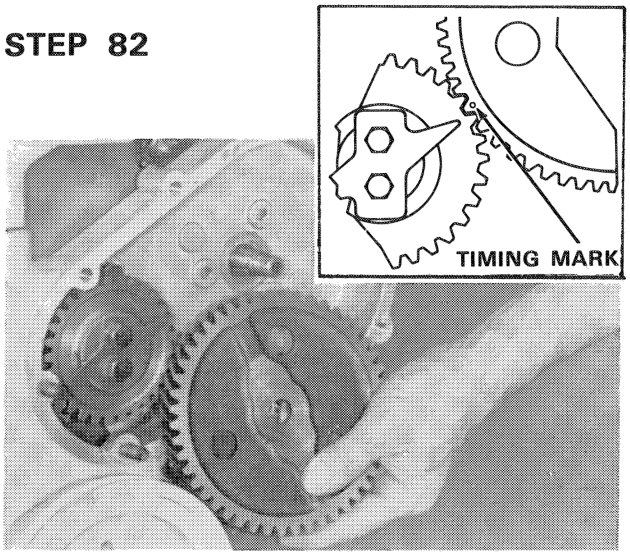
Remove pump drive gear.

STEP 81



Check idler gear to camshaft gear backlash. Maximum backlash .006 inch.

STEP 82



Install pump drive gear. Be sure timing mark on gear aligns with timing pointer of idler gear.

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4004

FUEL GAUGE AND WARNING LAMPS

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Checking the Warning Lamps 4004-4

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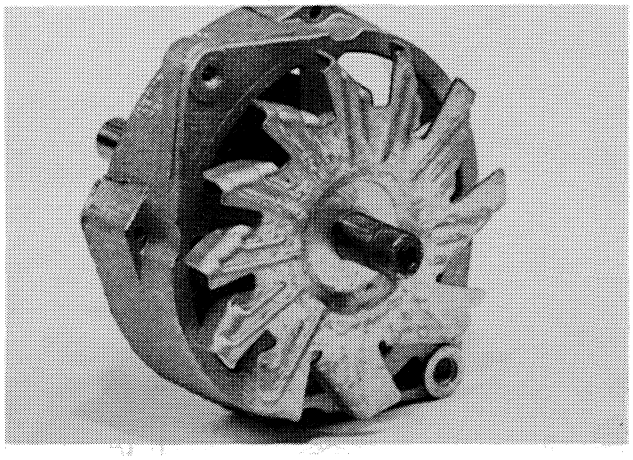
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8-41760

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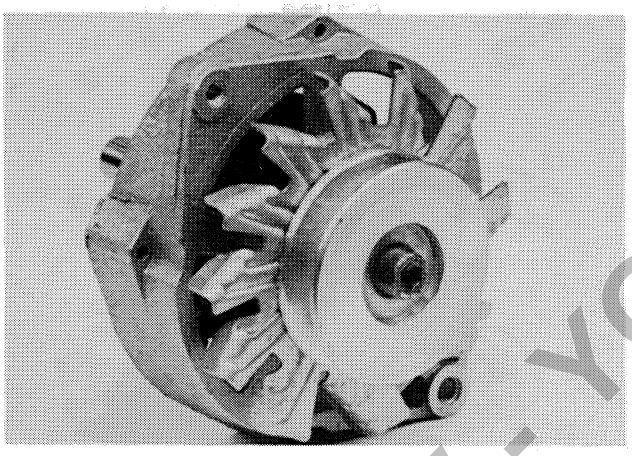
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25. Put the fan on the rotor shaft.



837609

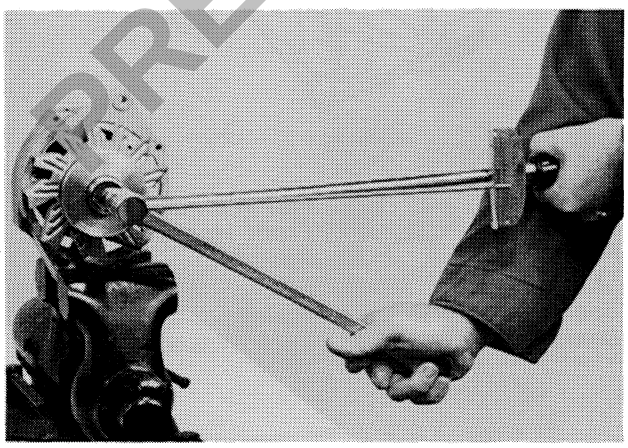
26. Put the pulley on the rotor shaft.



837608

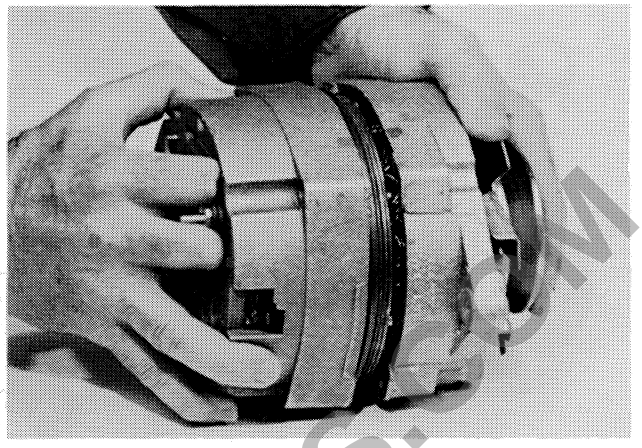
27. Install the lock washer and nut on the rotor shaft.

28. Fasten the front housing in the vise. Tighten the nut to 40 to 50 pound-feet (54 to 68 N m, 6 to 7 kg/m).



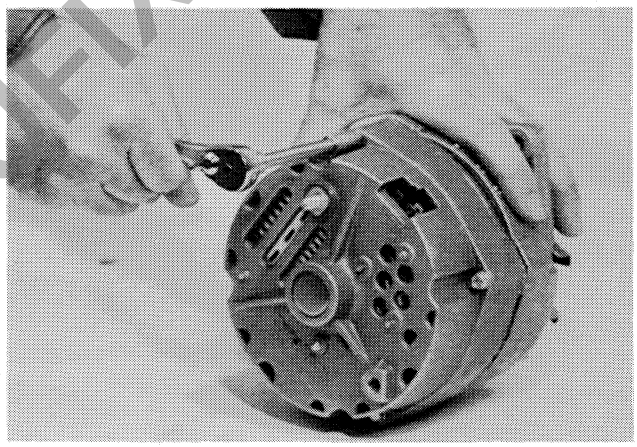
837616

29. Push the rear housing onto the rotor shaft.



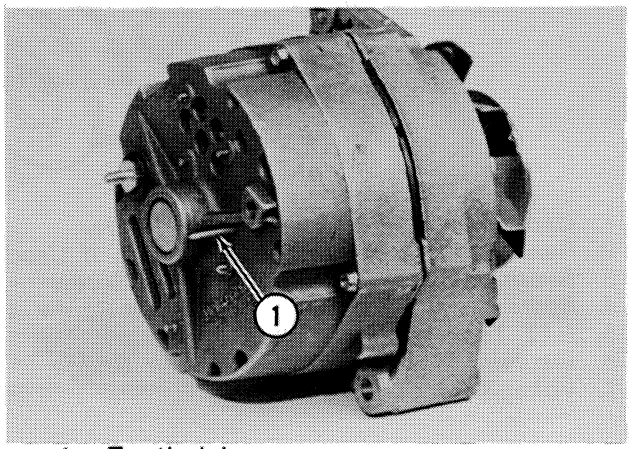
837508

30. Align the alignment marks on the front housing and rear housing. Install and tighten the cap screws that hold the front housing and rear housing together.



837808

31. Remove the toothpick from the rear housing and brush holder.

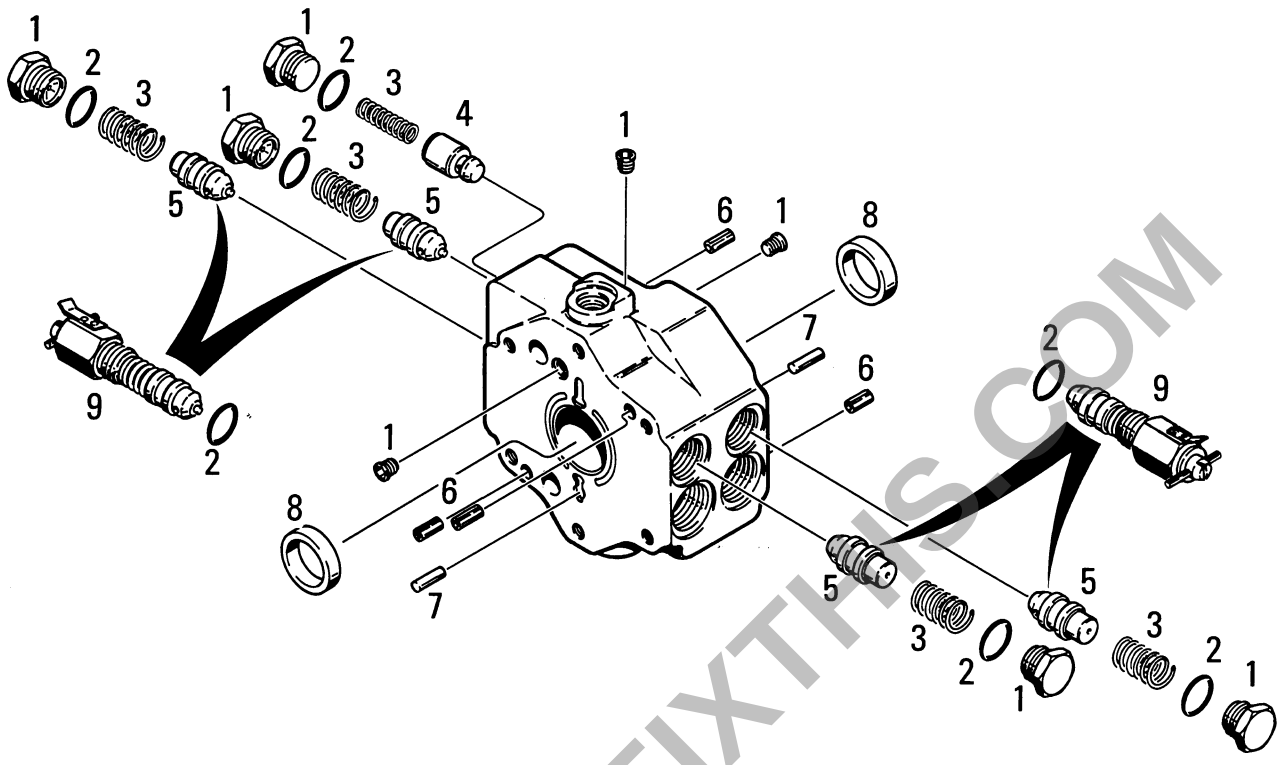


1. Toothpick

837510

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1. *Plug*
2. *O-ring*
3. *Spring*
4. *Poppet*
5. *Circuit Relief Valve*
6. *Roll Pin*
7. *Dowel Pin*
8. *Bearing Cup*
9. *Optional Circuit Relief Valve*
10. *Valve Block*

Valve Block

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6006

HYDROSTATIC CONTROLS

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Machine Will Not Move at Maximum Speed 6006-2

Illustration of Control Linkage 6006-3

Adjustment of Control Linkage 6006-4

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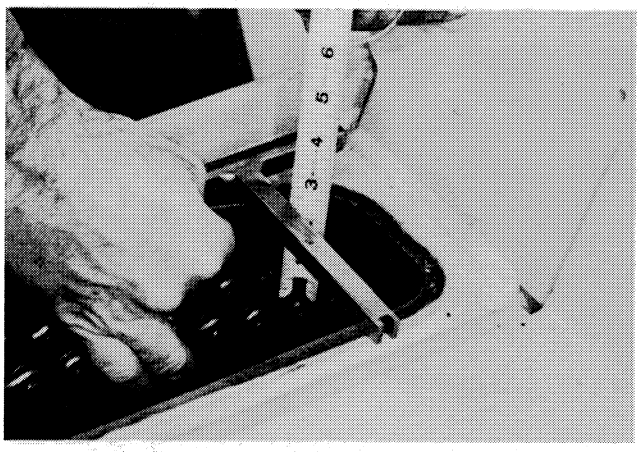
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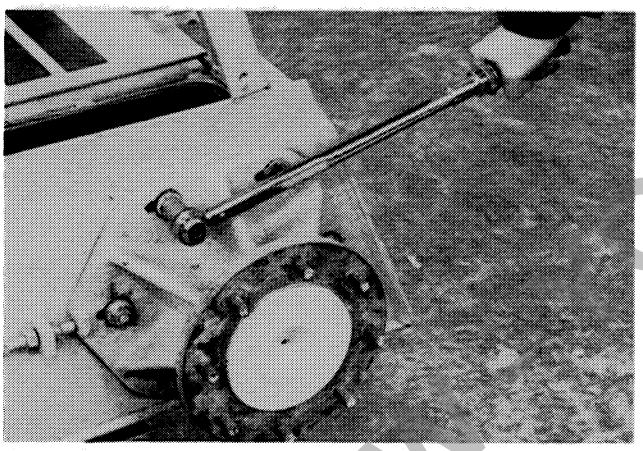
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17. Measure the deflection of the driven chain.



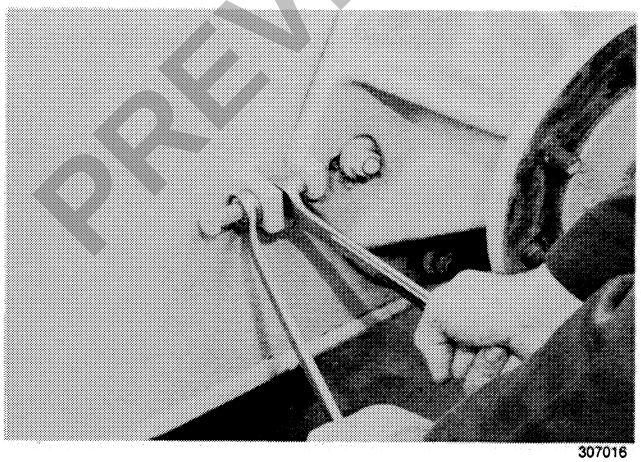
308115

18. When the deflection is 3/4 to 1 inch (19 to 25 mm), tighten the self-locking nuts to 80 to 100 pound-feet (102 to 135 N m, 108 to 135 kg/m).



308002

19. Tighten the lock nut on the adjusting bolt.



307016

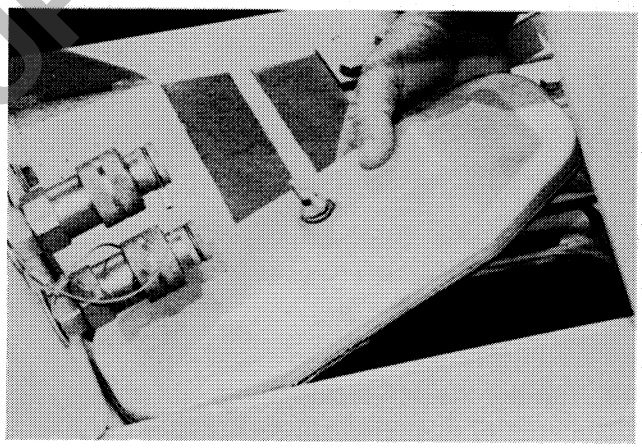
20. Make sure the drain plug has been installed and fill the chain compartment with the oil specified in Section 1002.



308003

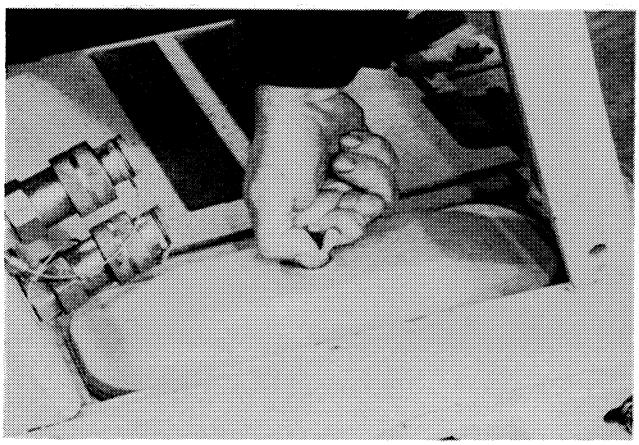
21. Check the condition of the gasket on the cover, and if necessary, install a new gasket.

22. Install the cover.



307015

23. Tighten the wing nut.

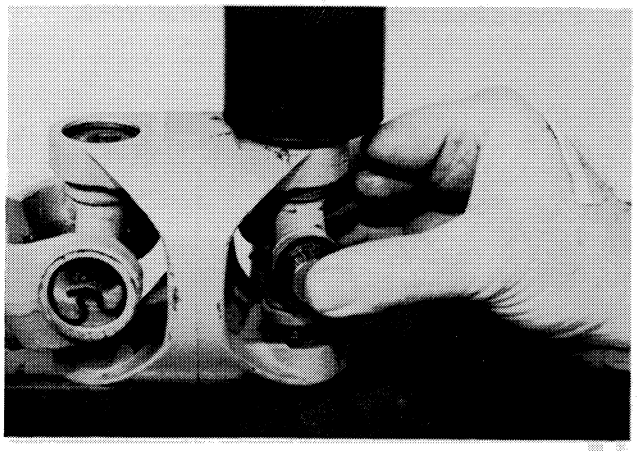


308004

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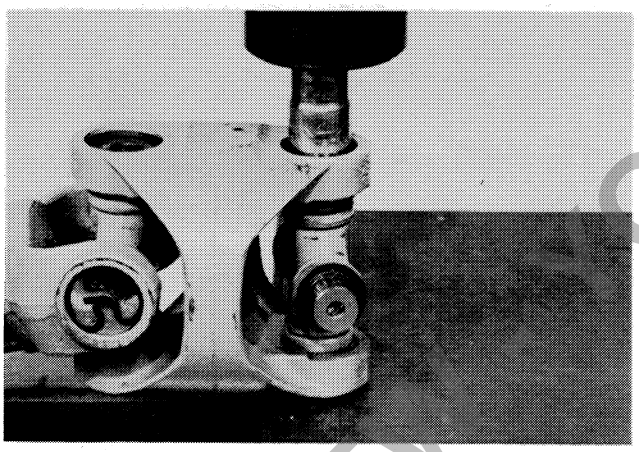
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4. Carefully raise the cross into the top bearing cap and press the bearing cap into the center yoke.



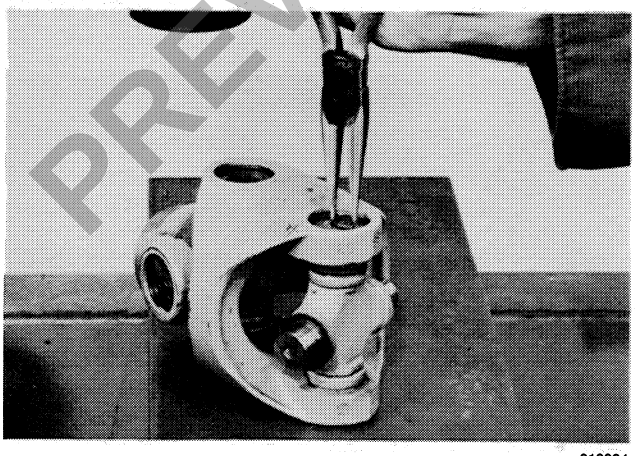
313022

5. Use an acceptable driver and press the bearing cap into the center yoke until the groove for the snap ring can be seen.



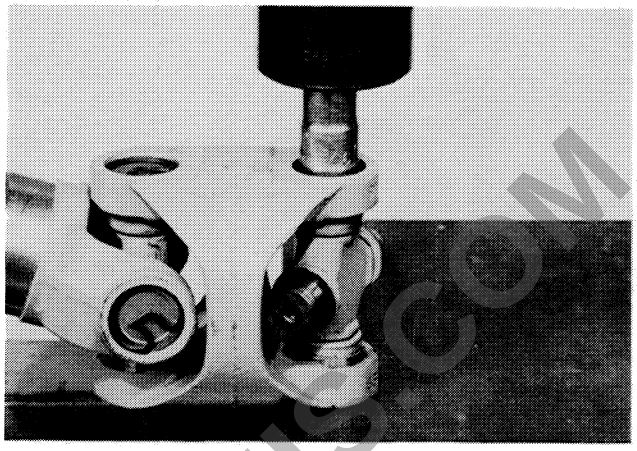
313023

6. Install a snap ring.



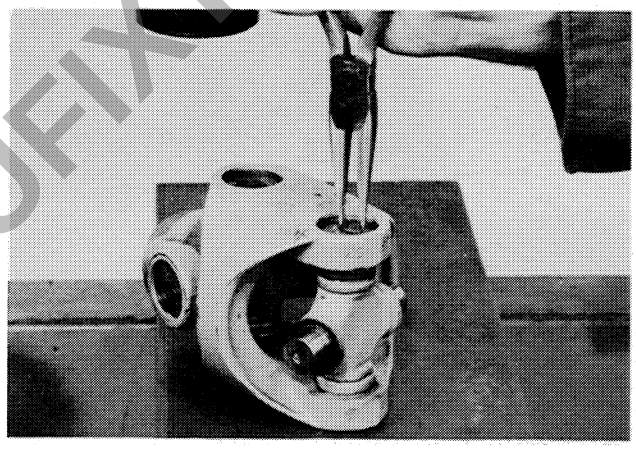
313024

7. Press the other bearing cap into the center yoke until the groove can be seen.



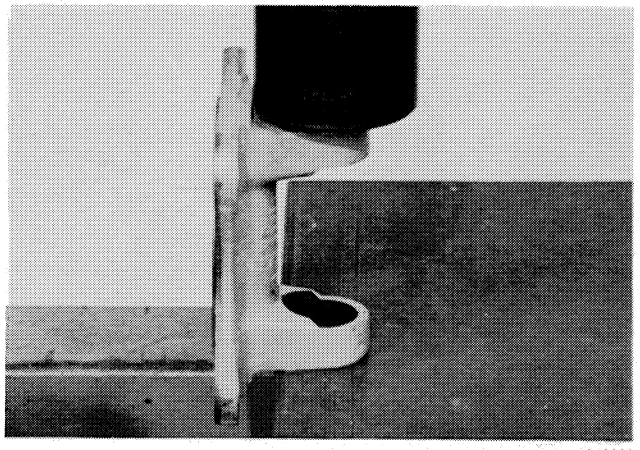
313025

8. Install a snap ring.



313024

9. Press a bearing cap into the yoke.

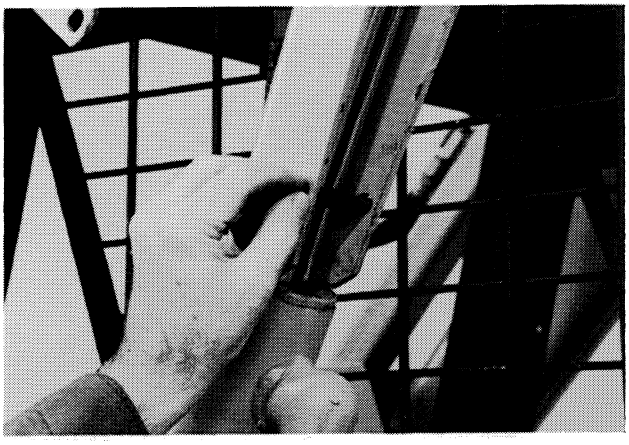


313026

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27. Raise the loader frame and lift the strut off the piston rod.



305539

28. Lower the loader frame all the way.



309243

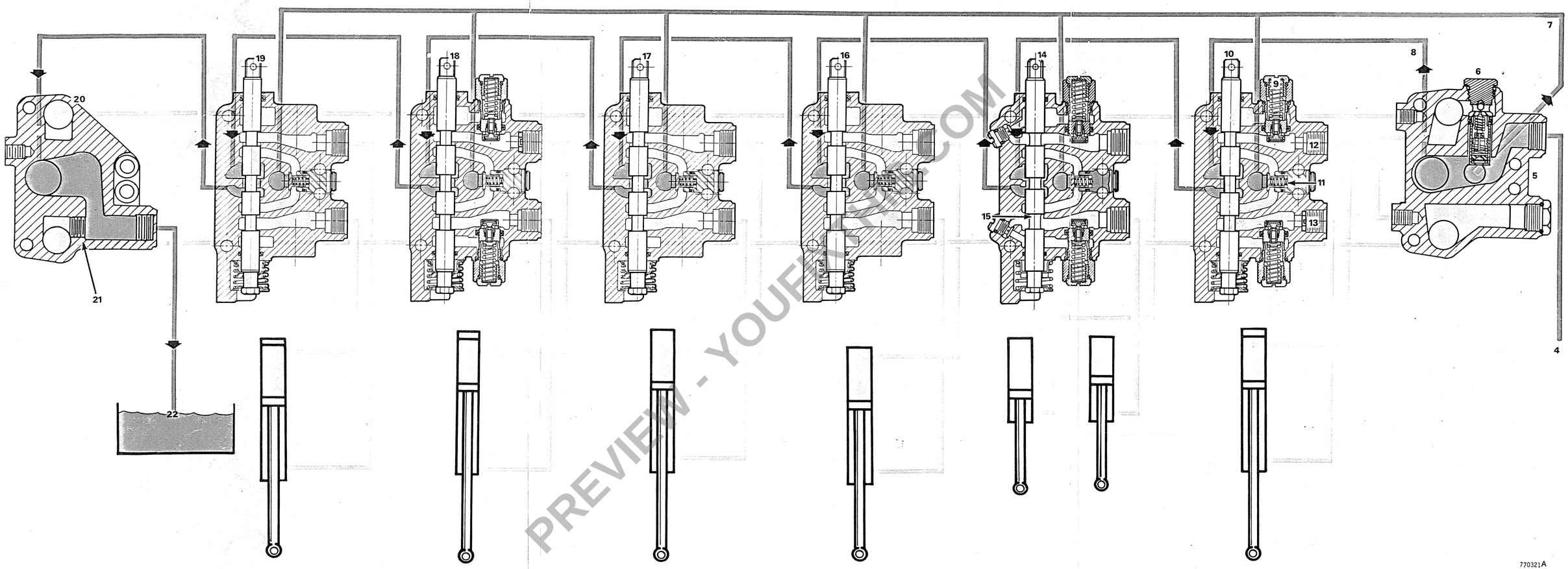
29. Install the pins that hold the strut in place.



305537

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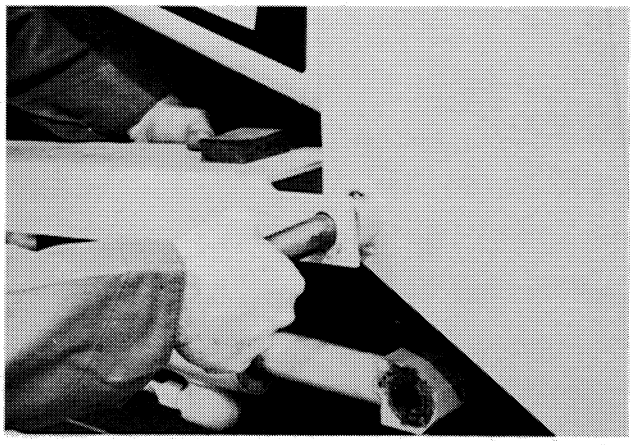
1. PUMP FLOW
2. STATIC OIL
3. RESERVOIR
4. FROM PUMP
5. INLET/OUTLET
6. MAIN RELIEF VALVE
7. PARALLEL PASSAGE (INTERNAL)
8. OPEN CENTER PASSAGE (INTERNAL)
9. SECONDARY RELIEF VALVE
10. BOOM
11. LOAD CHECK VALVE
12. A PORT
13. B PORT
14. SWING
15. ANTICAVITATION VALVE
16. LEFT-HAND STABILIZER
17. RIGHT-HAND STABILIZER
18. DIPPER
19. BUCKET
20. OUTLET
21. PLUG
22. TO LOADER CONTROL VALVE INLET

Oil Flow - Spools in Neutral

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13. Remove the driver and the strut.



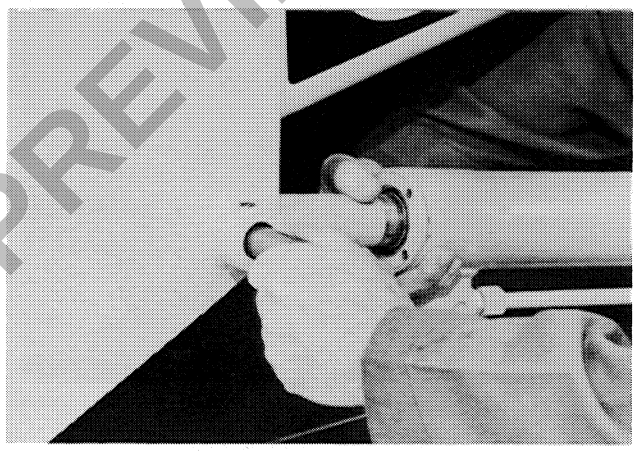
310112

14. If the machine has ether injection, remove the starting fluid container.



310125

15. Hold the lift cylinder, remove the driver and lower the lift cylinder.



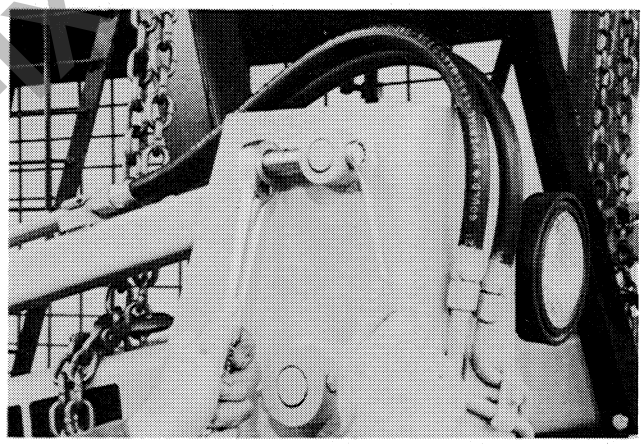
310124

16. Connect acceptable lifting equipment to the loader frame.



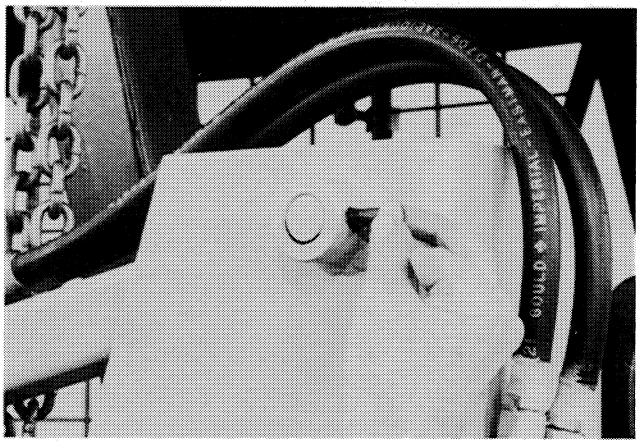
310244

17. Loosen and remove the self-locking nut from the bolt that holds the pivot pin for the leveling link.



310201

18. Remove the bolt.



310202

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