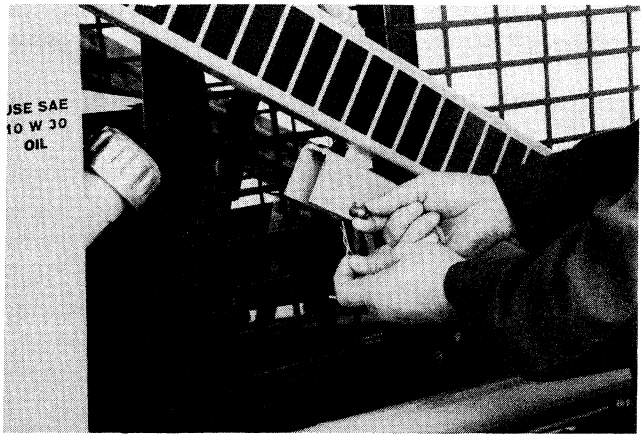
Removal

STEP 1
Park the machine on a level surface.

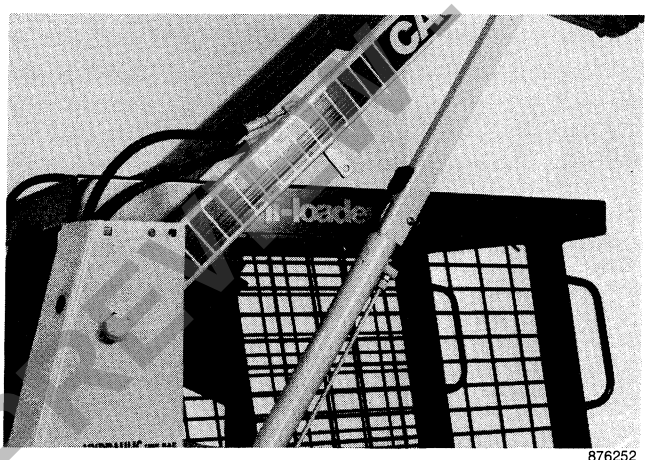
STEP 2


876250

Remove the pins that hold the strut in position and lower the strut onto the lift cylinder.

STEP 3
Start the engine and run the engine at low idle.

STEP 4
Move the machine forward and backward as required to make sure that the pin in each parking latch engages the cluster sprocket.

STEP 5

876252

Raise the loader frame until the strut falls onto the piston rod. Then lower the loader frame until the strut is against the end of the lift cylinder. Stop the engine. Put the clutch control lever in the OFF position.

STEP 6

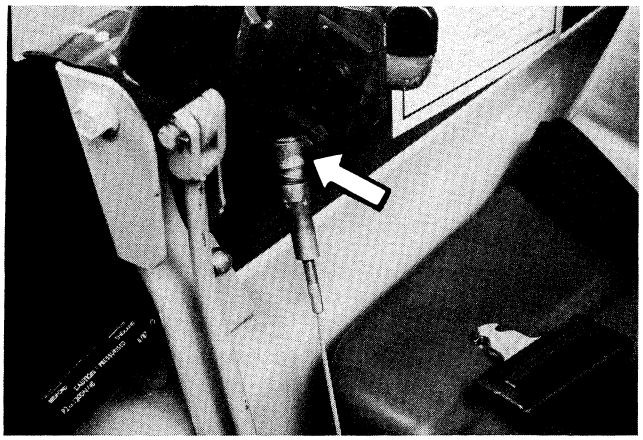
876251

Install the pins that hold the strut.

STEP 7


876214

Loosen and remove the cap screws, lock washers, and flat washers that fasten the ROPS canopy to the posts on the rear of the machine.

STEP 8

876240

Disconnect the cables from the protection bars. Push down the sleeve on the socket and remove the socket from the pin.

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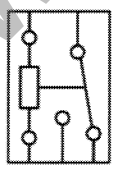
ELECTRICAL SYMBOLS

BATTERY, 12 VOLT 

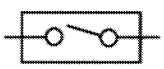
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DIODE 

SWITCH 

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WATER TEMPERATURE SWITCH 

HYDRAULIC FILTER RESTRICTION SWITCH 

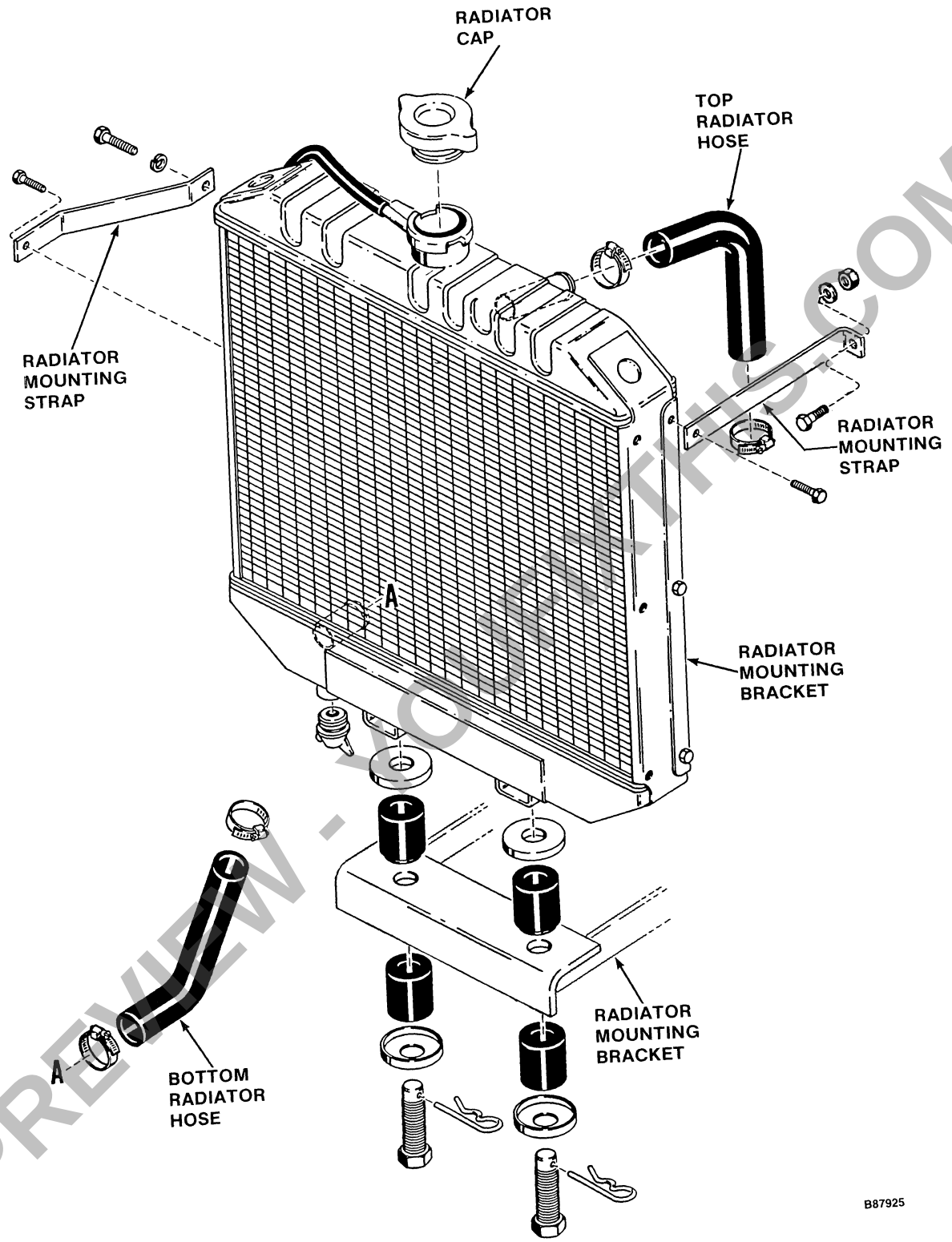
ENGINE OIL PRESSURE SWITCH 

HI00L001

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RADIATOR



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1818 Uni-Loader Service Manual
8-66102
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1001

SAFETY RULES
SERVICE MANUAL INTRODUCTION AND TORQUE SPECIFICATIONS

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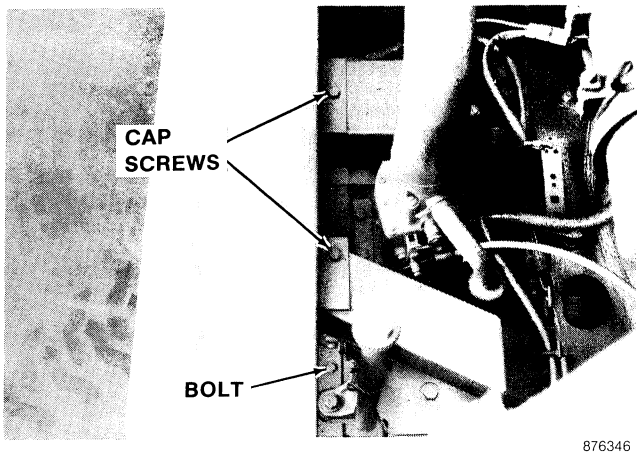
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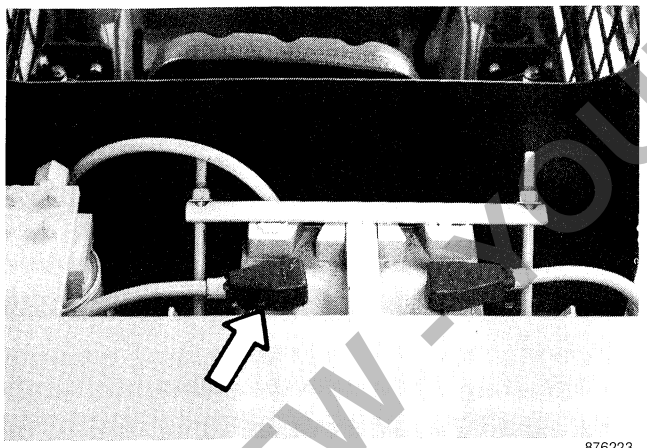
STEP 21



876346

Install the cap screws and lock washers that fasten the top of the engine shroud to the exhaust manifold cover. Install the bolts, lock washers, and nuts that fasten the bottom of the engine shroud to the frame.

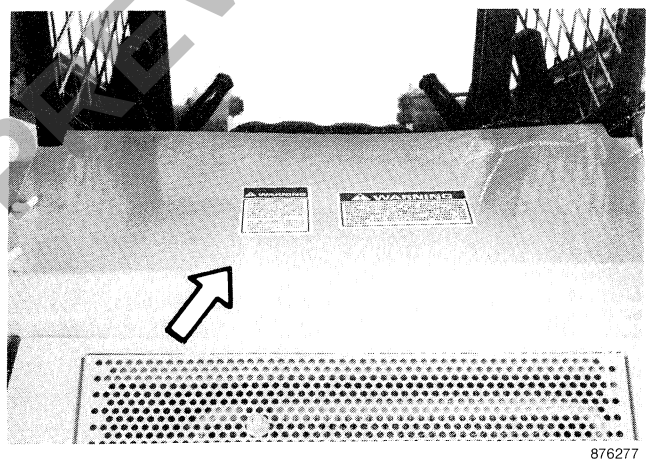
STEP 22



876223

Install the ground cable on the negative terminal on the battery.

STEP 23



876277

Install the battery cover on the machine.

STEP 24



876235

Use the grab handles and tilt the ROPS canopy toward the rear of the machine. Carefully lower the ROPS canopy into position.

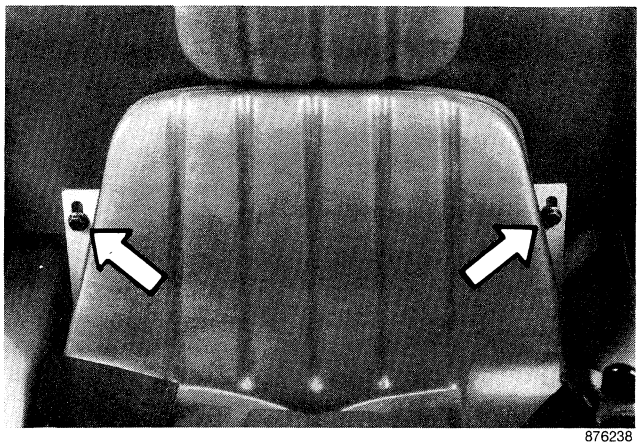
STEP 25



876237

Install the seat and seat mounting plate in the machine.

STEP 26



876238

Install the cap screws that fasten the seat and seat mounting plate to the ROPS canopy.

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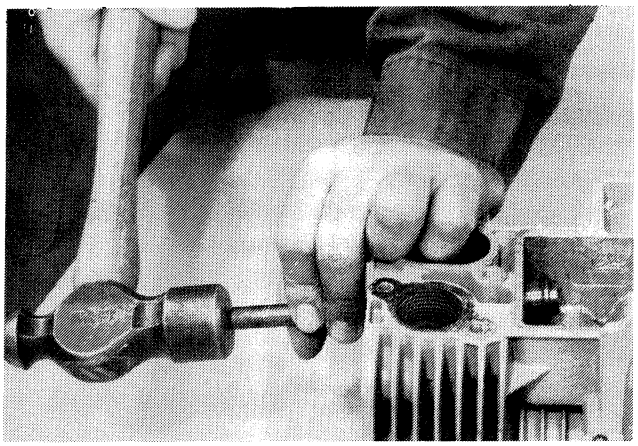
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Valve Guide Replacement

STEP 62

Before removing valve guides, remove carbon and other deposits from the top surface of the guides to prevent damage to the guide bores when removing the guides.

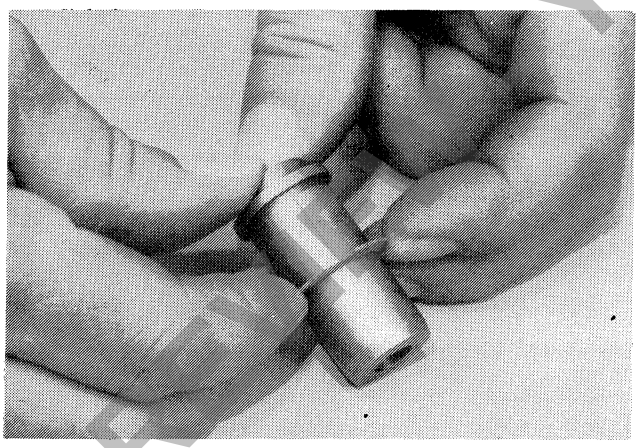
STEP 63



Use a valve guide removal tool to drive the valve guide from the bore.

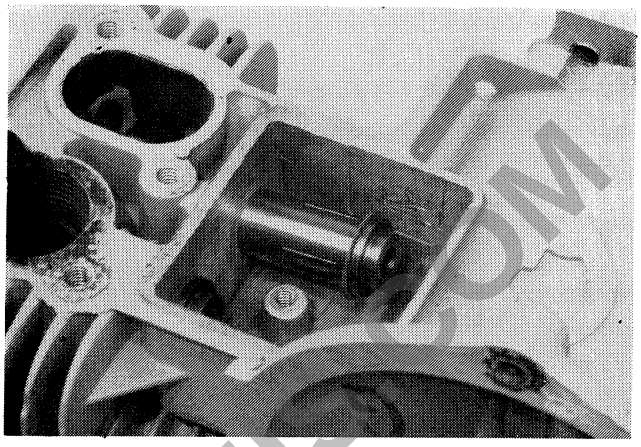
NOTE: *Inlet valve guides only have a gasket installed.*

STEP 64



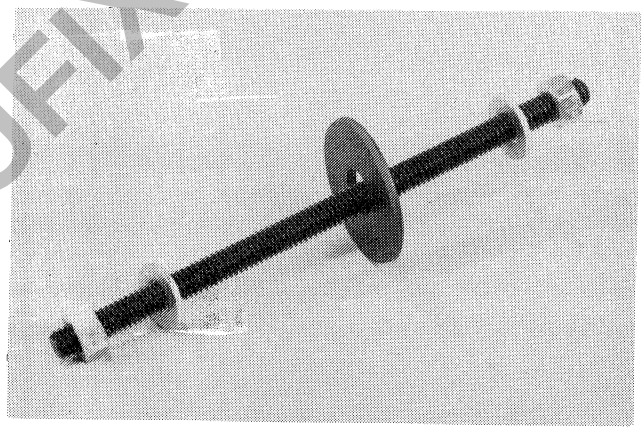
Install a new gasket on the inlet valve guide.

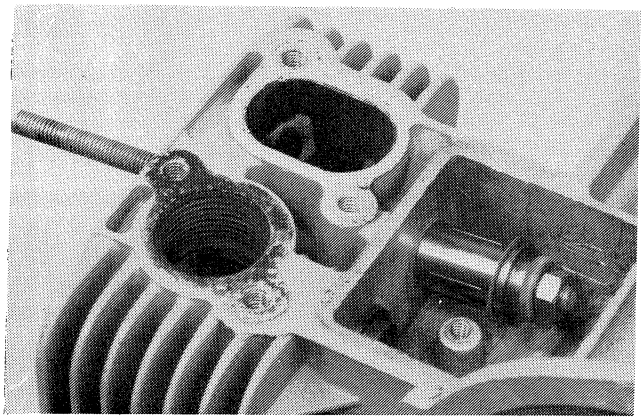
STEP 65



Lubricate the valve guide and valve guide bore with clean engine oil and install the guide into the bore as shown.

STEP 66



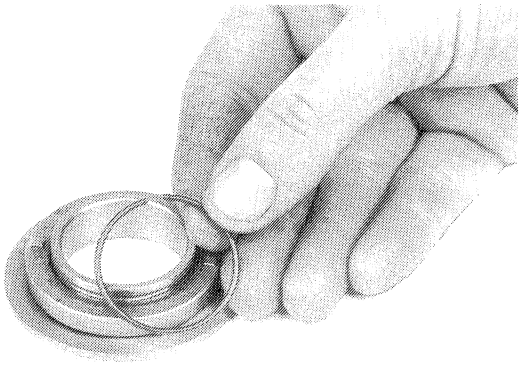


Use the valve guide installation tool to pull the valve guide into the bore. Make sure the guide is seated against the housing. Repeat STEPS 62 to 66 for the exhaust valve guide.

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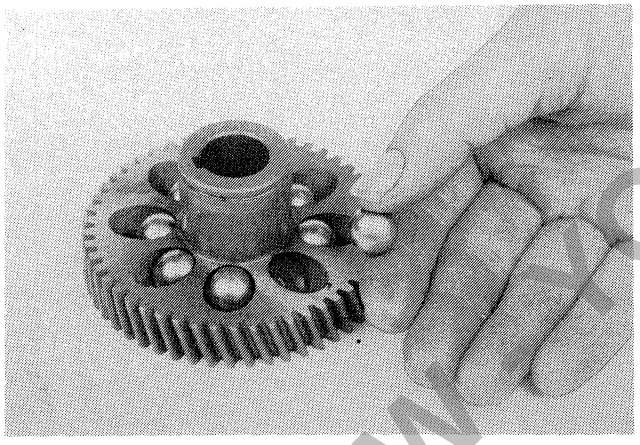
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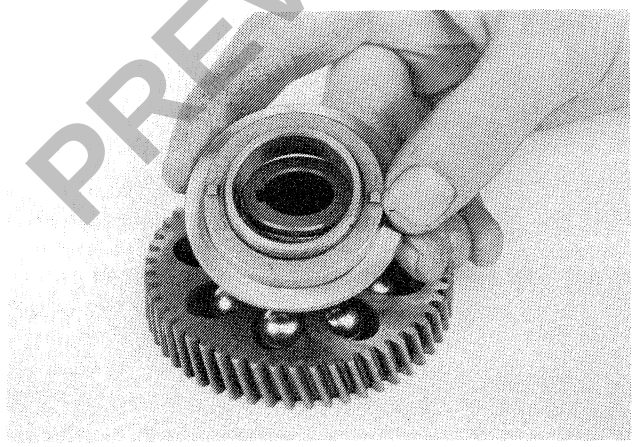
Hold the case to the governor sleeve. Put the assembly onto the flat surface so that the governor sleeve is at the bottom. Fit the retaining ring into the groove in the governor sleeve.

STEP 79



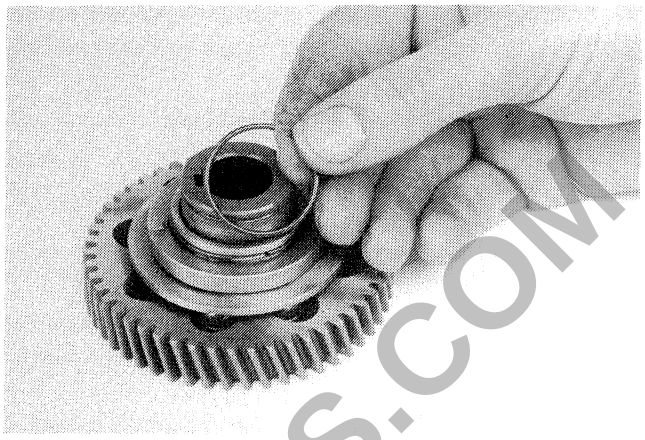
Lubricate the eight large governor balls with clean engine oil. Install the balls into the grooves in the gear.

STEP 80



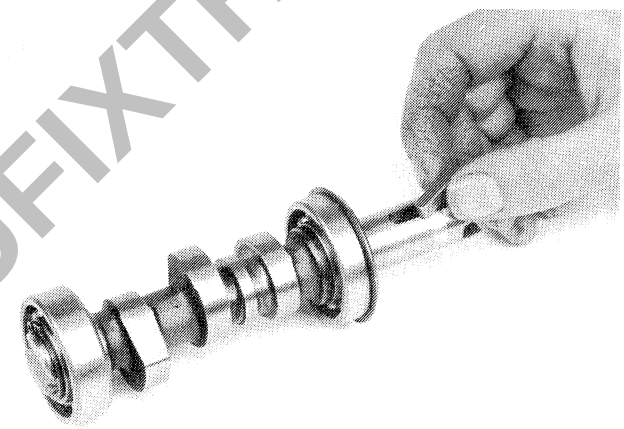
Fit the governor sleeve assembly onto the gear so that the large flat end is toward the steel balls.

STEP 81



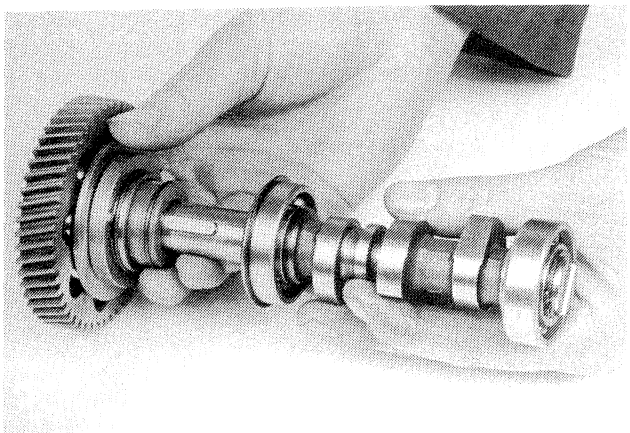
Fit the retaining ring into the groove in the gear.

STEP 82



Check that the key is fitted correctly in its groove in the camshaft.

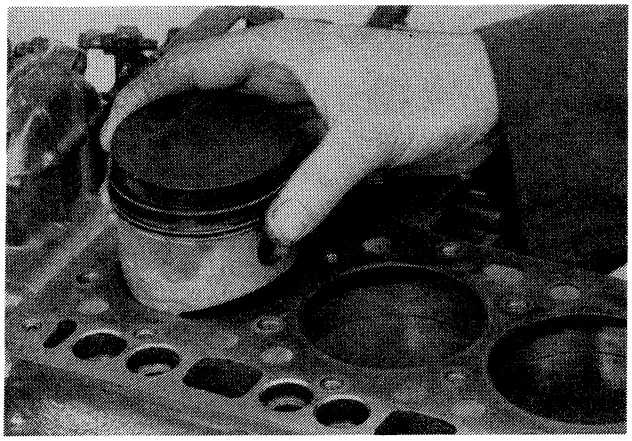
STEP 83



Align the slot in the gear with the key in the camshaft.

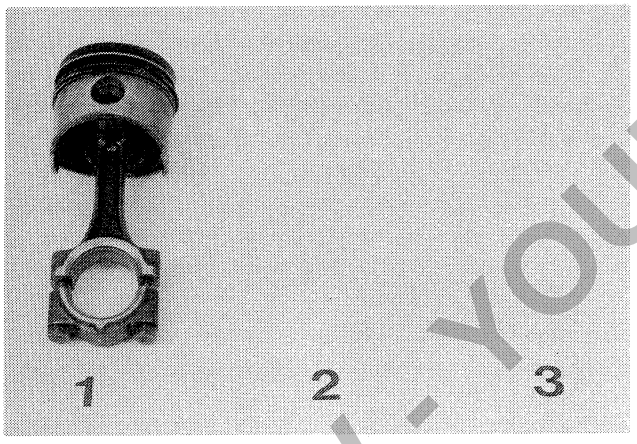
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STEP 11



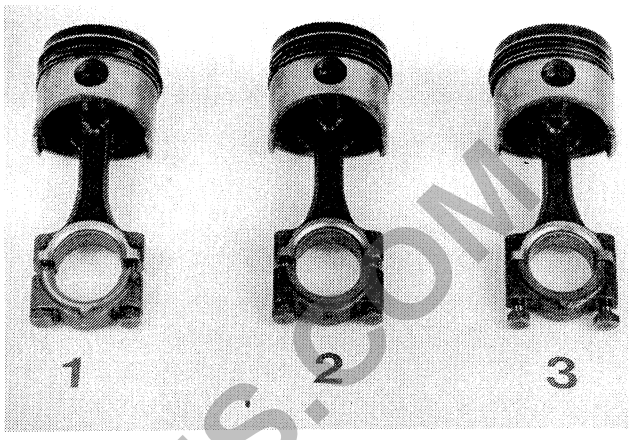
Remove the piston and connecting rod from the cylinder liner.

STEP 12



Loosely assemble the end cap to the connecting rod. Put the piston and connecting rod on a clean work bench next to the correct piston number.

STEP 13



Repeat the removal procedure for the other two pistons and connecting rods.

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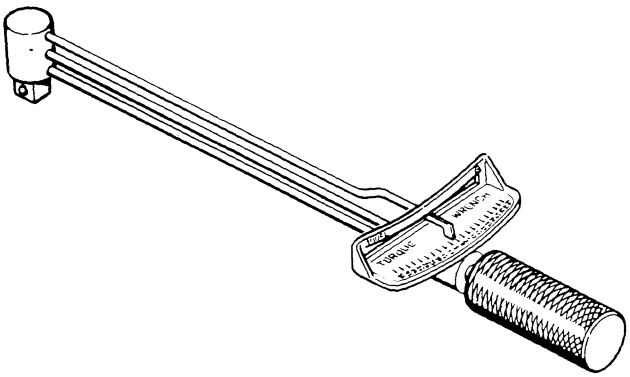
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THIS SAFETY ALERT SYMBOL INDICATES IMPORTANT SAFETY MESSAGES IN THIS MANUAL. WHEN YOU SEE THIS SYMBOL, CAREFULLY READ THE MESSAGE THAT FOLLOWS AND BE ALERT TO THE POSSIBLITY OF PERSONAL INJURY OR DEATH.

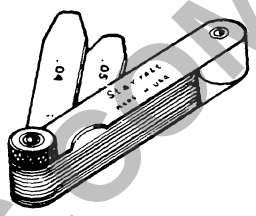
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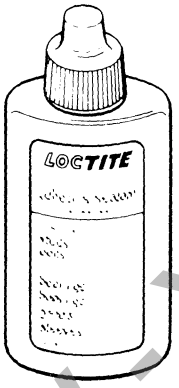
SPECIAL TOOLS



1. TORQUE WRENCH



2. FEELER GAUGES



3. LOCTITE SUPERFLEX
SILICONE SEALANT

4. THREE LEG PULLER

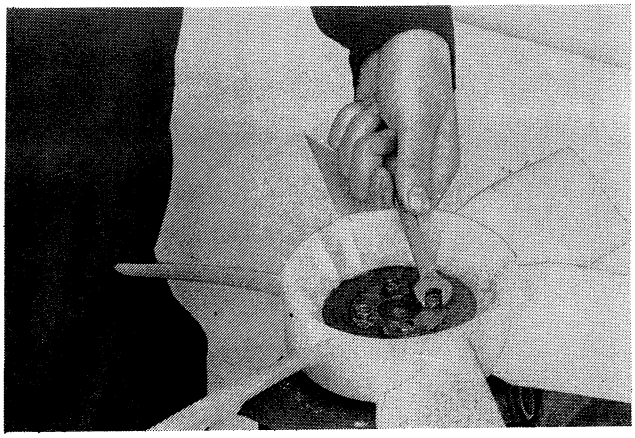


5. CRANKSHAFT NUT SOCKET
(CAS-1891)

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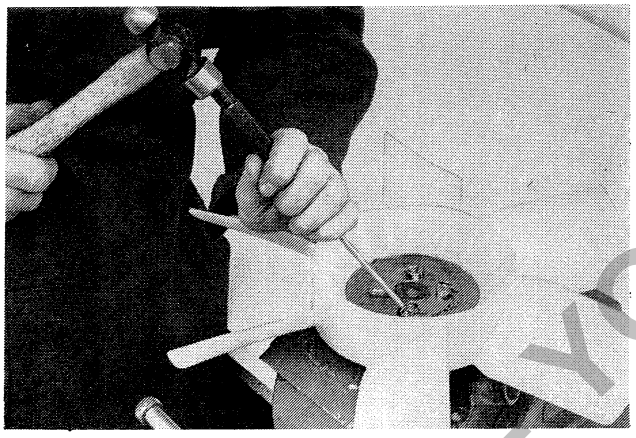
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STEP 48



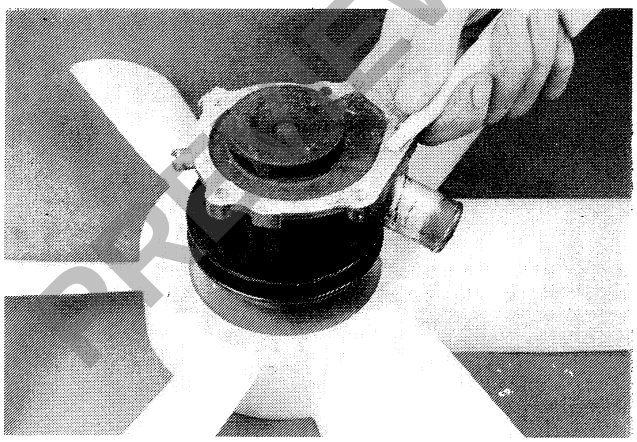
Evenly tighten the setscrews.

STEP 49



Use a punch to move the taps onto the setscrews.

STEP 50



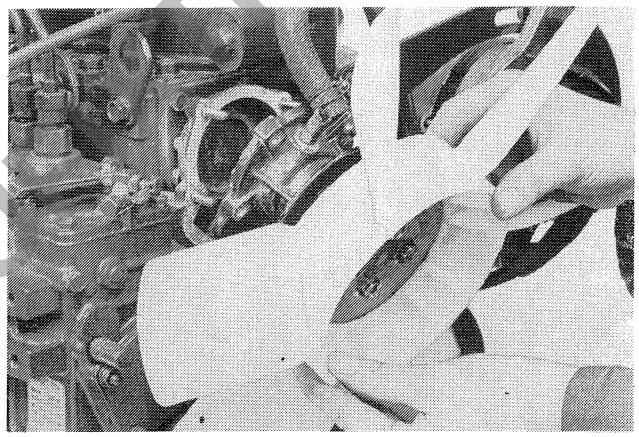
Apply a continuous bead of Loctite Superflex Silicone Sealant onto the joint face of the pump body.

STEP 51



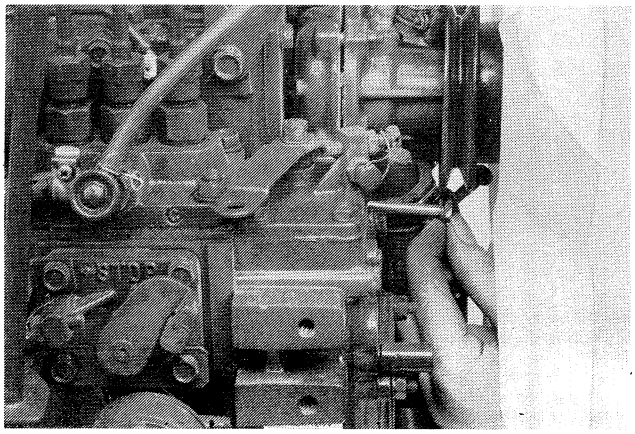
Fit a new gasket onto the body.

STEP 52



Install the pump assembly onto the bottom hose and timing cover.

STEP 53



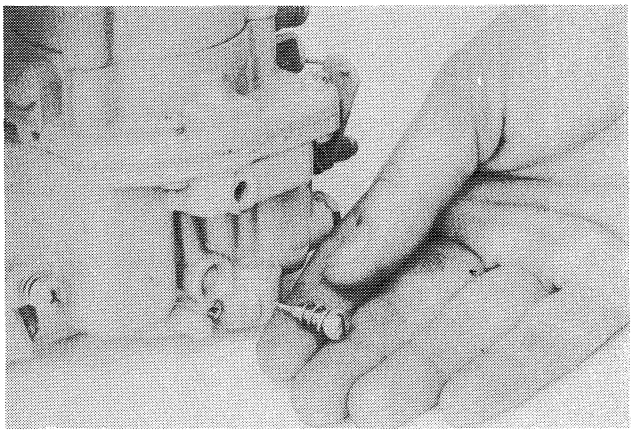
Install the setscrew and spring washer through the bottom hole but DO NOT tighten.

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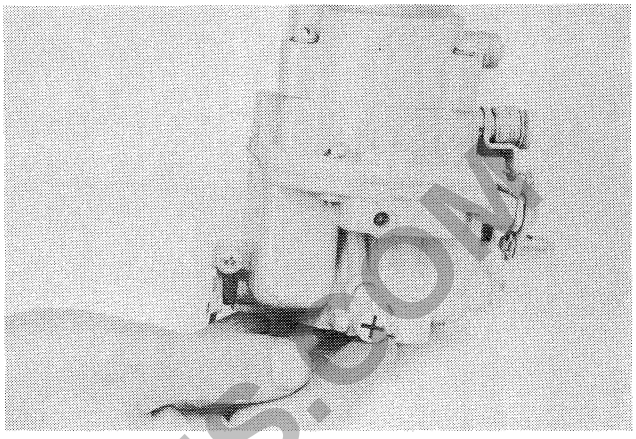
STEP 95



Install the idle adjustment needle and spring. Turn the idle adjustment needle to its original position.

NOTE: *If a new idle adjustment needle is fitted, turn it clockwise until it just touches the seat then 1 to 1 1/4 revolutions counterclockwise. Tightening the idle adjustment needle too much will result in damage to the needle and seat in the carburetor.*

STEP 96



Fit the cap so that the pointer is vertical.

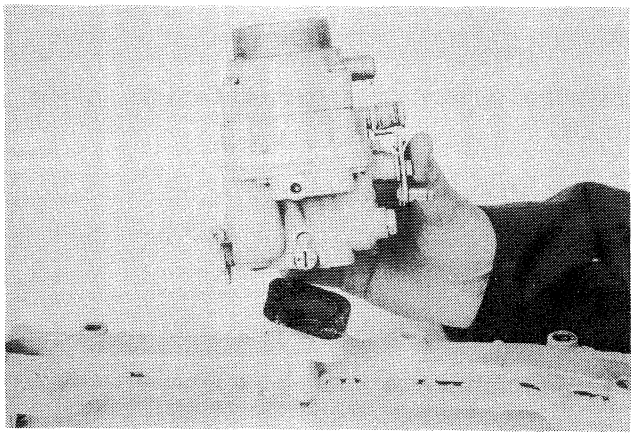
Installation

STEP 97



Put a new gasket onto the inlet manifold.

STEP 98

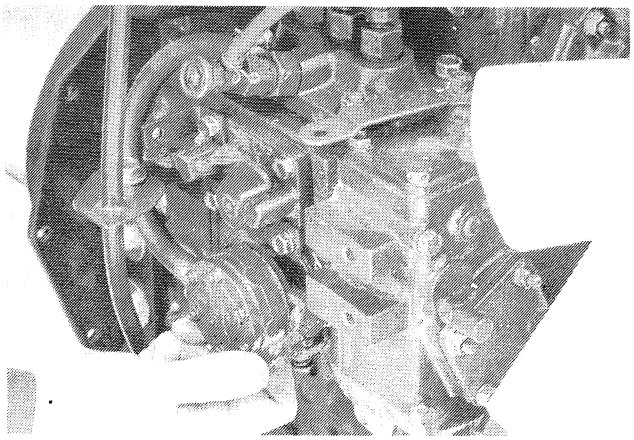


Fit the carburetor onto the manifold so that the choke lever is on the left hand side.

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STEP 140



Operate the hand lever on the fuel pump until fuel without air is flowing from the air removal screw on the injection pump. Tighten the air removal screw.

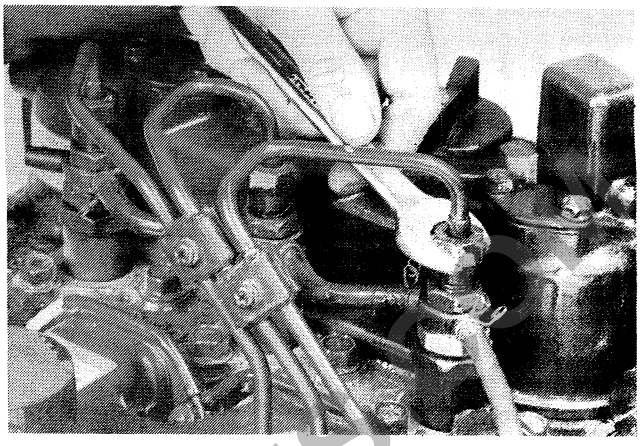
STEP 141

Put all the control levers in neutral then start the engine and check for leaks.

WARNING: *The fuel system operates at high pressure. Fuel with high pressure will pass through the skin and result in serious injury or death. Use a piece of card to check for leaks. never use your hands Always use eye protection.*

WARNING: *Never operate the engine in a closed building. Proper ventilation is required under all circumstances.*

STEP 142



If the engine is running rough, loosen the union on the high pressure pipe at the No. 1 injector. Tighten the union when fuel without air is flowing. Repeat the procedure at the other injectors if necessary.

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REMOVING THE STARTER MOTOR

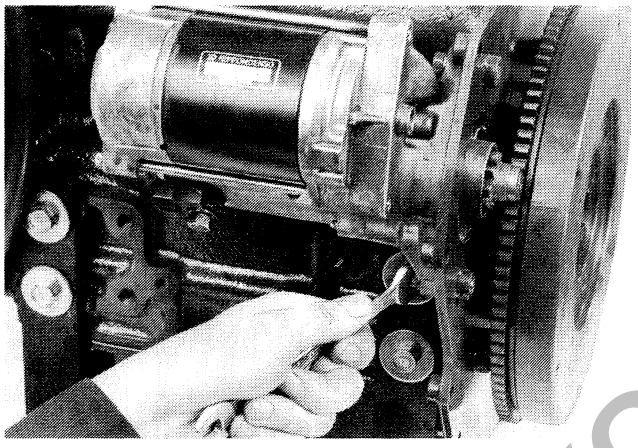
STEP 1

The following procedure shows the engine removed from the machine. Refer to Section 4000 for the removal procedure if the engine is installed.

STEP 2

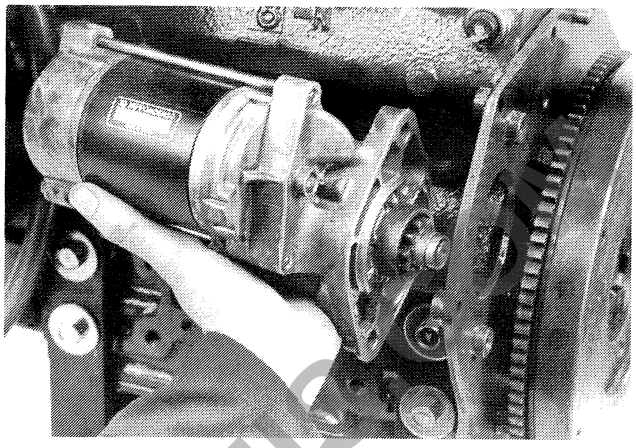
Disconnect the start wire and positive (+ ve) cable from the starter motor.

STEP 3



Remove the two setscrews and spring washers that hold the starter motor in position.

STEP 4



Remove the starter motor from the engine.

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8001

MAINTENANCE

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8006

AUXILIARY CONTROL VALVE

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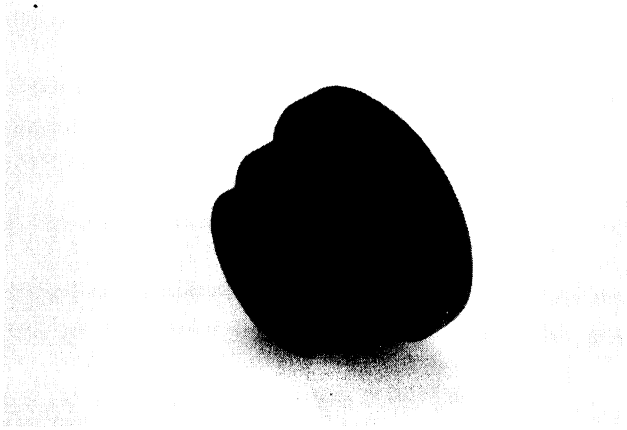
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STEP 60



Install a new valve seat insert using a valve seat installation tool N⁰. CAS-1895-1. Make sure the insert is installed square and that the insert touches the bottom of the insert recess completely around its circumference.

STEP 61



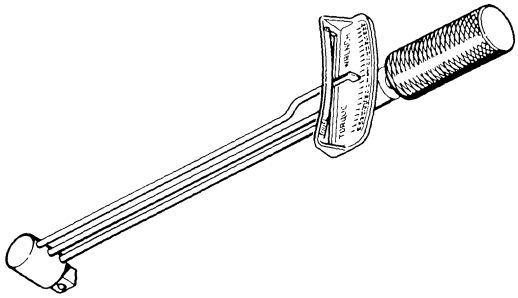
Install a valve seat staking tool CAS-1895-3 into the valve seat and hit the tool with a hammer to wedge the new valve insert firmly in place and remove the staking tool.

IMPORTANT: *After installing new valve seat inserts they must be refaced as in STEP 57.*

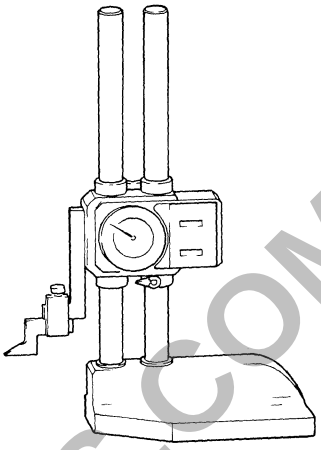
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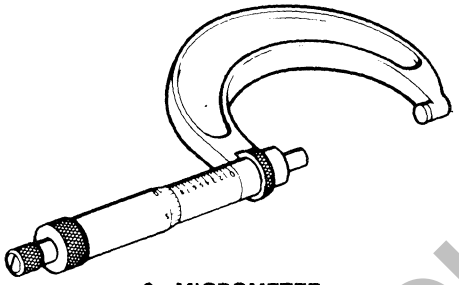
SPECIAL TOOLS



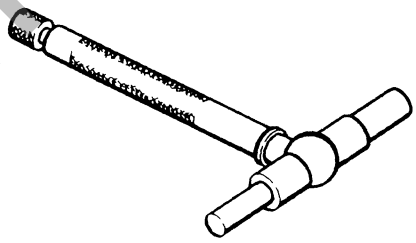
1. TORQUE WRENCH



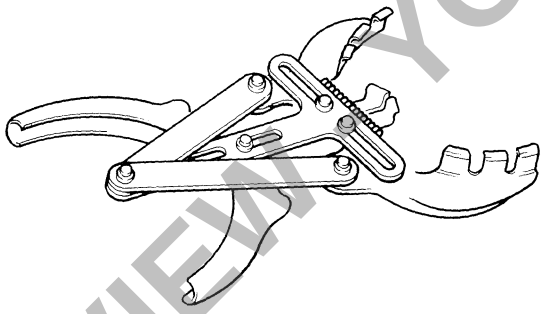
2. VERNIER HEIGHT GAUGE



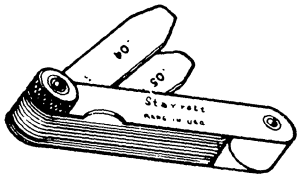
3. MICROMETER



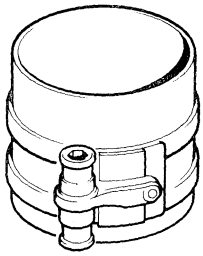
4. BORE GAUGE



5. PISTON RING EXPANDER



6. FEELER GAUGE



7. PISTON RING COMPRESSOR

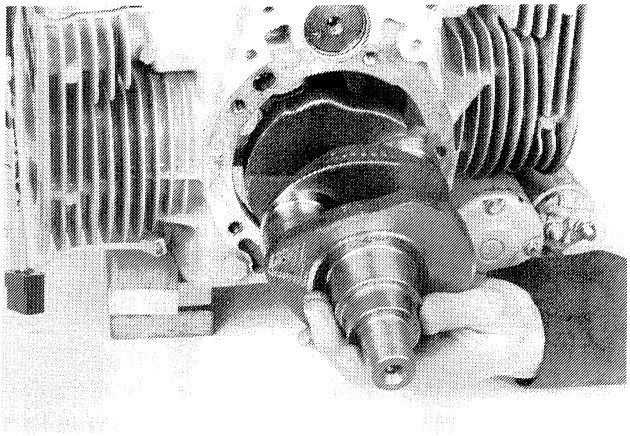
8. LINER HONE
9. PLASTIGAGE
10. LINER RIDGE REMOVER

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Installation

STEP 76



Apply clean engine oil to the crankshaft main bearings and carefully install the crankshaft into the engine block.

STEP 77

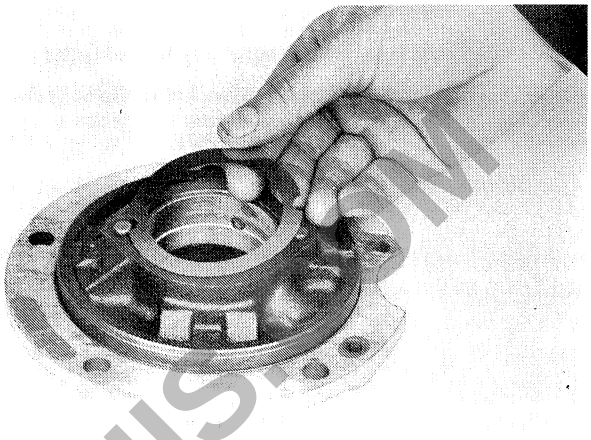
See STEPS 23 to 26 to install a new front crankshaft oil seal.

STEP 78



Install a new gasket onto the front crankshaft main bearing housing.

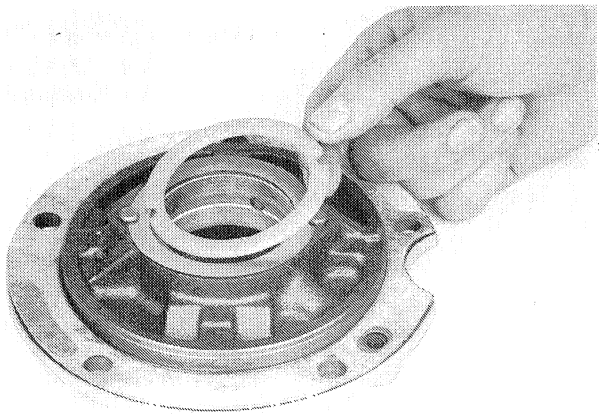
STEP 79



Install the shim.

NOTE: *If the crankshaft end play measured at STEP 45 was not correct or if new bearings have been installed or the crankshaft reconditioned do not install the shim at this stage.*

STEP 80



Install the thrust washer.

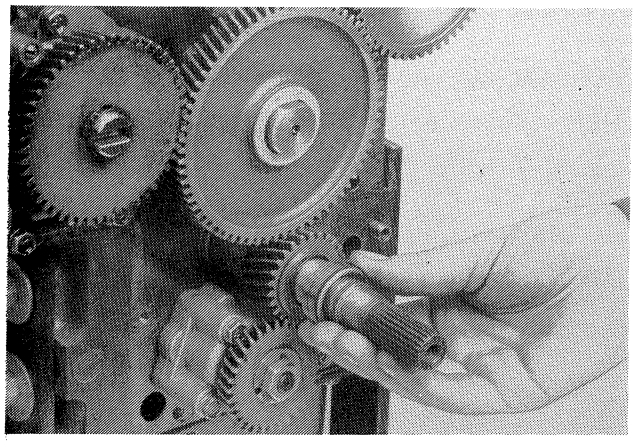
NOTE: *If replacement main bearing has been installed the thrust washer is a built in part of the main bearing.*

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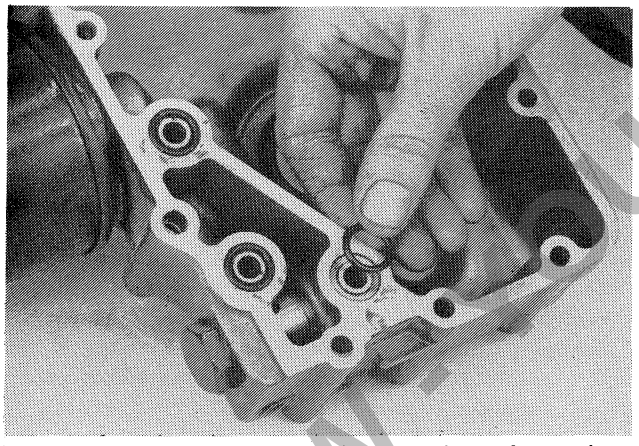
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STEP 170



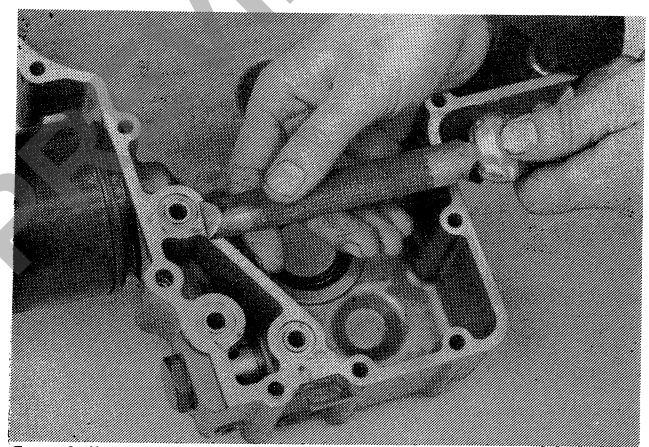
Check the collar for damage to the outside diameter. If there is damage install a new collar onto the crankshaft.

STEP 171



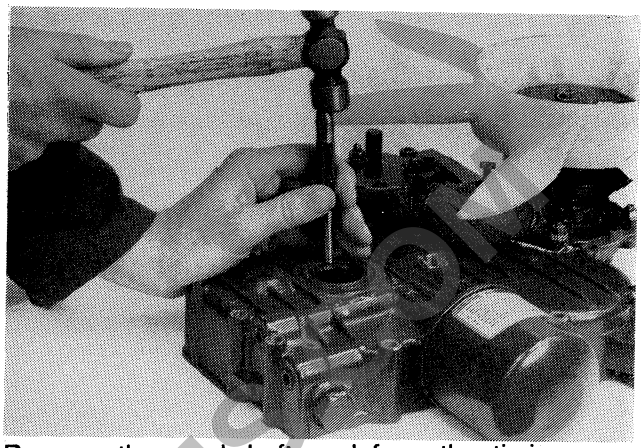
Remove and discard the three o-rings from the grooves in the timing gear cover.

STEP 172



Carefully use a scraper to remove any old joint material from the timing gear cover.

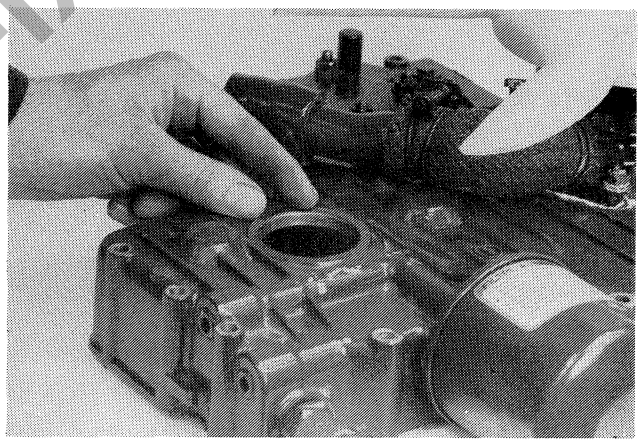
STEP 173



Remove the crankshaft seal from the timing gear cover as shown.

NOTE: *Push the seal from the outside to the inside of the cover to prevent damage to the bore.*

STEP 174

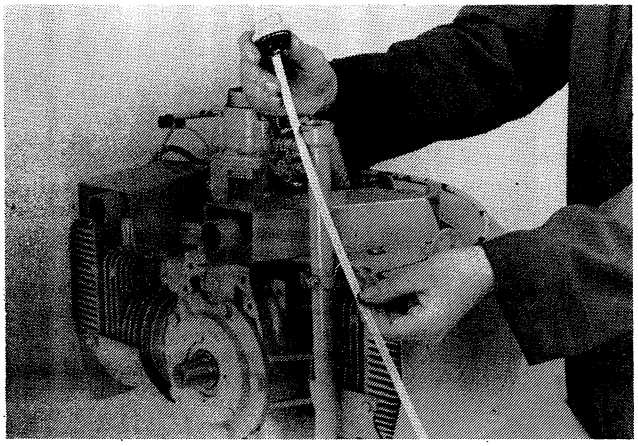


Check the bore for damage. Install a new timing gear cover if there is damage.

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STEP 184



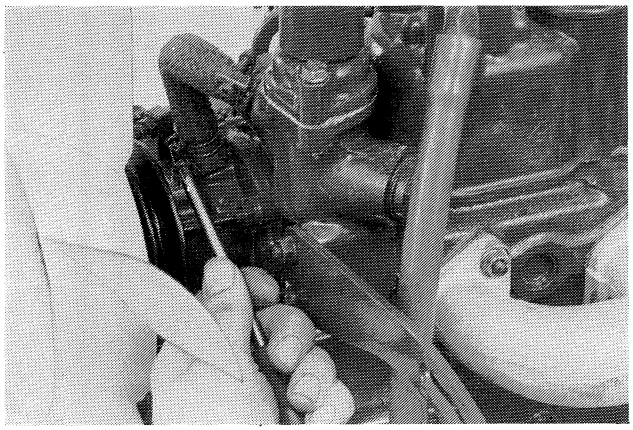
Add oil through the dipstick tube up to the 'FULL' mark on the dipstick.

CAUTION: *DO NOT add oil above the 'FULL' level on the dipstick. Too much oil will cause higher operating temperatures and foaming. This will result in damage to the engine oil seals.*

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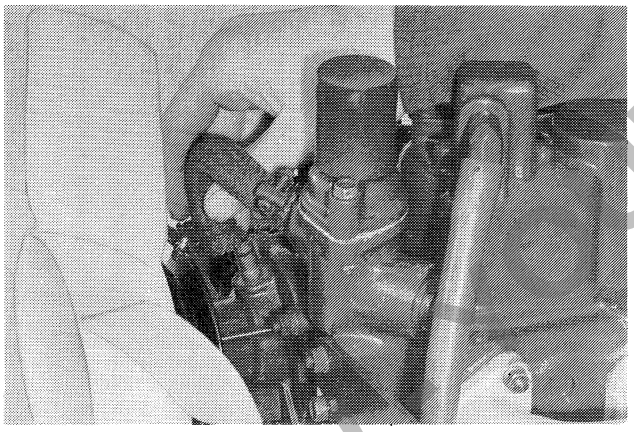
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STEP 20



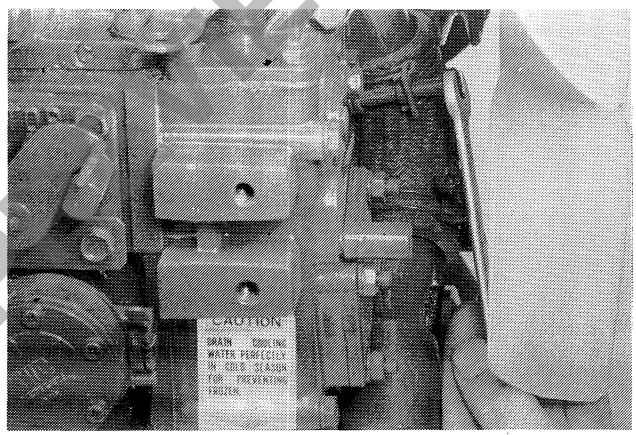
Loosen the clip from the top hose on the water pump.

STEP 21



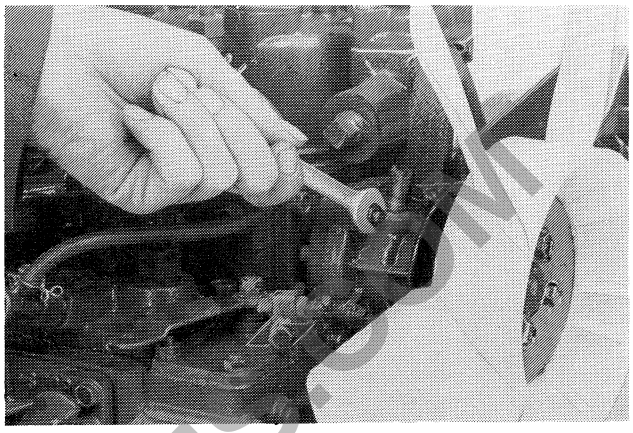
Pull the hose clear of the water pump.

STEP 22



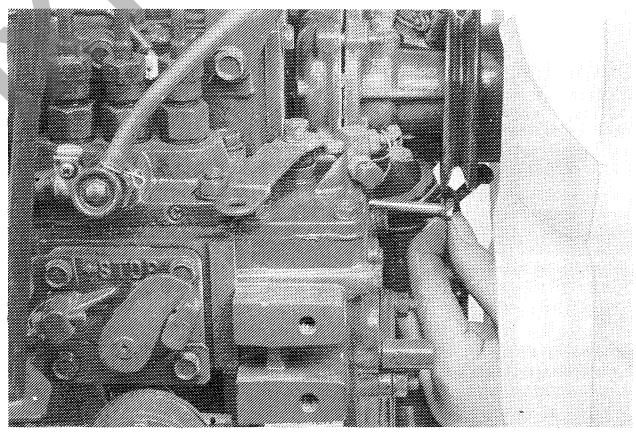
Loosen the clip from the bottom hose on the water pump

STEP 23



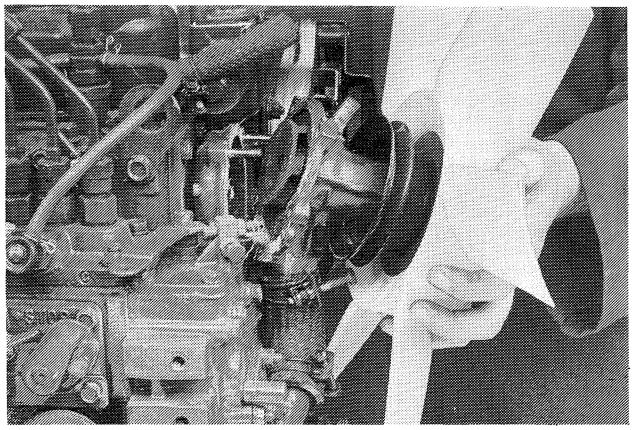
Remove the four nuts and spring washers from the water pump.

STEP 24



Remove the bolt and spring washer from the bottom of the water pump.

STEP 25



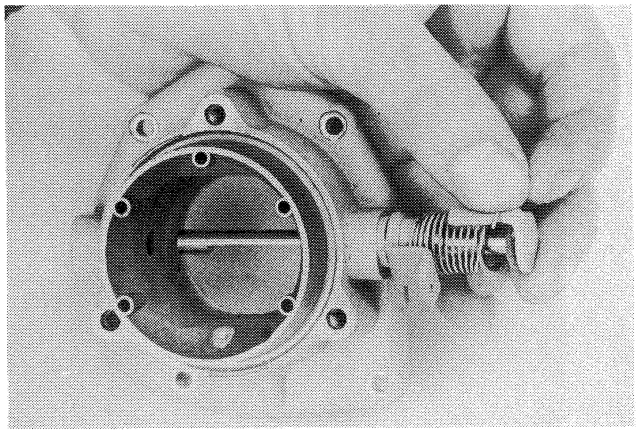
Pull the water pump clear of the studs and bottom hose.

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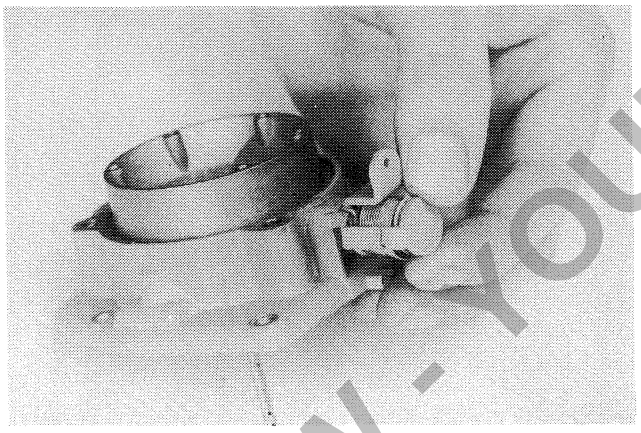
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STEP 59



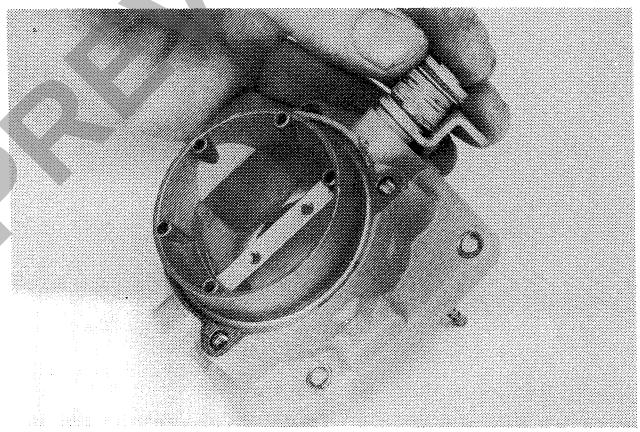
Hold the end of the return spring in position. Pull the choke shaft from the carburetor until the lever is clear of the operating lever on the carburetor.

STEP 60



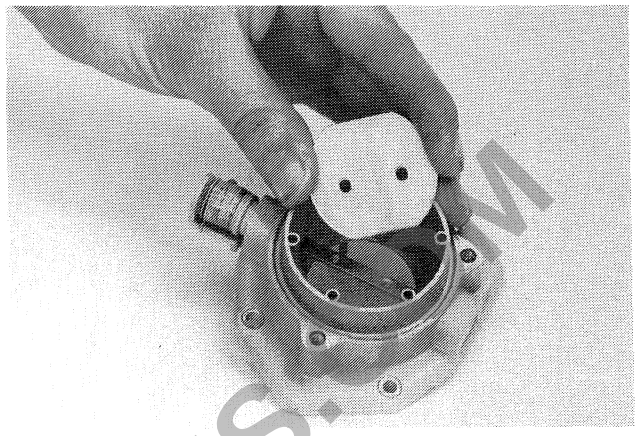
Turn the choke shaft counterclockwise then push it into the carburetor on the other side of the operating lever.

STEP 61



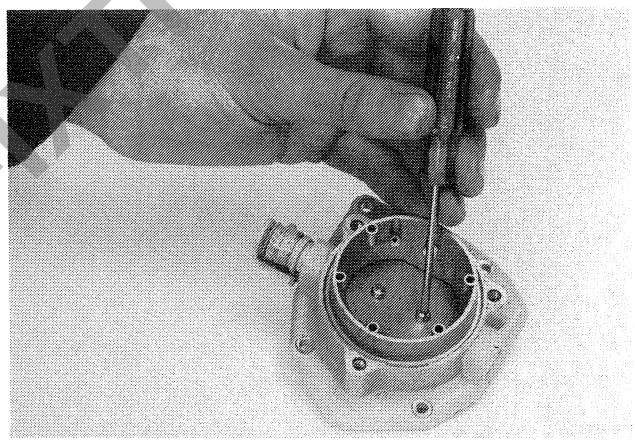
Turn the choke shaft clockwise so that the flat is upward.

STEP 62



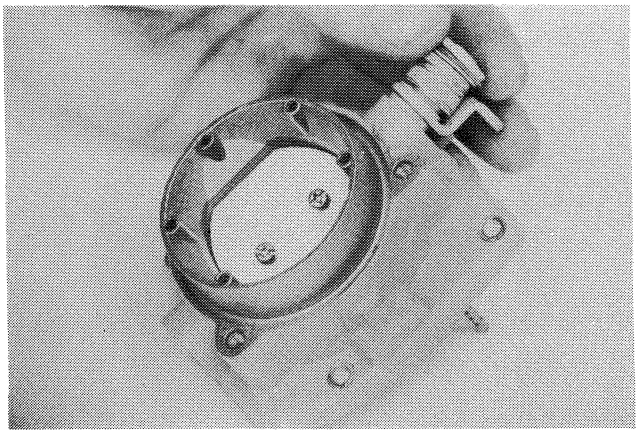
Fit the plate onto the choke shaft.

STEP 63



Install and evenly tighten the two screws and spring washers.

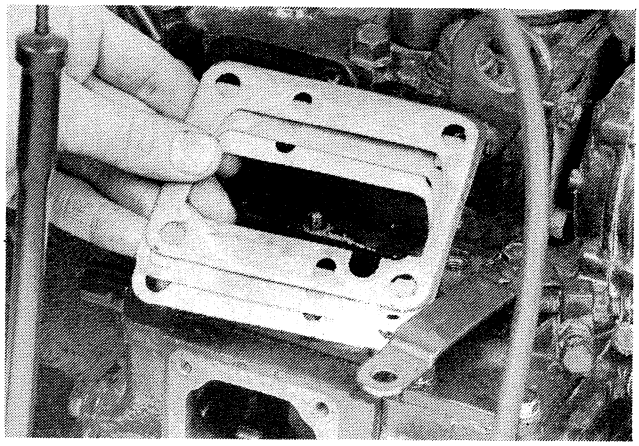
STEP 64



Check the opertion of the choke shaft. Make sure that the plate fits correctly in the bore. Adjust the position of the plate if necessary.

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STEP 96



Remove the shims but DO NOT discard.

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