



FEL-PRO INSTALLATION TIPS

A HEAD GASKET

In order to apply proper clamp load to the head gasket, it is important that:

1. All bolt holes be cleaned out with a tap.
2. All threads be thoroughly cleaned with a wire brush.
3. All bolts that enter water jackets have a sealer applied to them.
4. All bolts that do not enter water jackets be lightly oiled.

B VALVE COVER GASKET

Remove foreign particles from gasket surfaces. Remove excess oil with a degreasing agent. Straighten the cover flanges. Severely distorted covers should be replaced. Cement gasket to cover using a quick drying adhesive. Apply sparingly and allow 1-2 minutes to set prior to gasket installation. Install cover and avoid overtorquing.

C INTAKE MANIFOLD GASKET

NOTE: Best performance will be obtained by matching the gasket ports to the cylinder head ports. Read the following instructions thoroughly, then proceed.

1. Install side rail gaskets on the heads using the installation aids supplied. One gasket will have the blue beads facing up; the other will be facing down.
2. Using a sharp cutting tool, trim the gasket ports to match the head ports.
3. Install the two exhaust crossover inserts. An adhesive or sealant can be used to hold them in place while installing manifold.
4. Install the intake manifold and torque to specifications.

D IMPORTANT PREPARATIONS FOR ROTATING SHAFT SEALS

Wipe a thin film of lubricant on sealing lip and on shaft before installation.

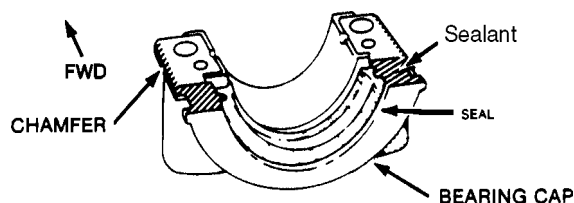
NEVER INSTALL ANY SEAL WITHOUT BREAK-IN LUBRICANT PROTECTION.

E REAR MAIN BEARING SEAL

1. Clean all foreign material from cylinder block, bearing cap, and crankshaft.

NOTE: CHECK CRANKSHAFT SEALING SURFACE FOR NICKS AND SCRATCHES AND REMOVE WITH CROCUS CLOTH BEFORE INSTALLING SEAL.

2. TO OBTAIN A POSITIVE SEAL PRESS PACKING FIRMLY INTO BEARING CAP GROOVE THEN TRIM ENDS FLUS WITH FACE OF CAP.

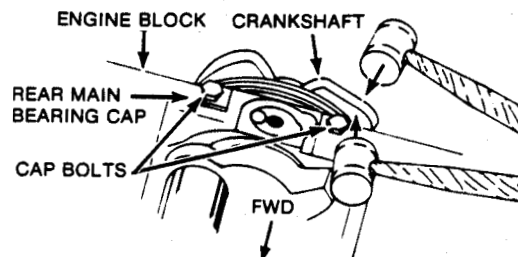


3. Apply a thin coat of sealant on the bearing cap mating surface immediately adjacent to the seal, and to the chamfer as shown.

CAUTION: KEEP SEALANT AWAY FROM SEAL MATING ENDS.

4. Place the rear main bearing cap in position and install the cap bolts finger tight.

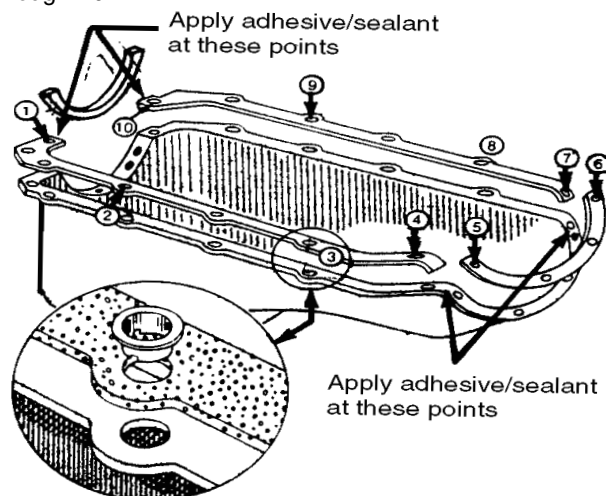
NOTE: THE REAR MAIN BEARING CAP MUST BE POSITIONED BEFORE THE CAP IS TORQUED TO SPECS.



5. Initially torque the cap bolts to 10.12 ft. lbs. Tap the crankshaft first rear ward and then forward with a lead hammer and leave in forward position. Torque cap bolts to specs.
6. After seal is installed, rotate crankshaft slowly at least 15 to 20 turns to insure proper seating of seal against crankshaft.

F OIL PAN GASKET

1. Clean pan gasket surface. Remove excess oil with a degreasing agent.
2. Straighten the pan flanges. Severely distorted pans should be replaced.
3. Apply a fast drying adhesive to rear oil pan end seal, then install into proper cavity.
4. Align pan gaskets on oil pan flanges and retain with plastic grommets, as shown in the illustration below, at numbers 1 through 10.





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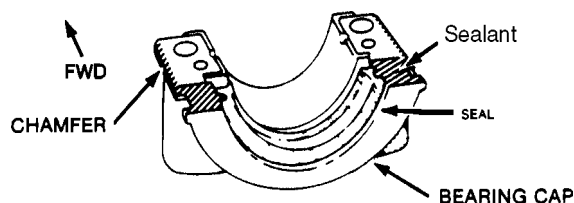
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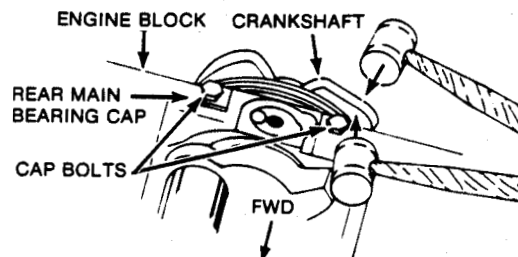


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