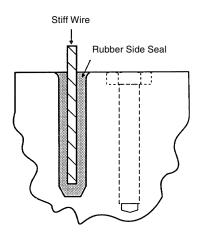
IMPORTANT: Never install any seal without break-in lubricant protection.

REINSTALL SEAL RETAINER TO CYLINDER BLOCK. Torque to OEM specifications.



INSTALL RUBBER SIDE SEAL(S).

To aid installation, insert a stiff wire inside each side(s). Stretch the side seal over the wire, make certain wire bottoms out.

Install seals into the side cavities of the rear main bearing cap.

Release seal (seal will snap into place).

REMOVE STIFF WIRE.

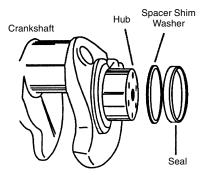
TEST RUN ENGINE. Check all mating areas thoroughly to determine that all seal hold during operation.



FLYWHEEL BOLTS

REINSTALL FLYWHEEL to crankshaft. **Note:** On some engines that use a one-piece rear main bearing seal, a condition may exist where the bolt holes in the crankshaft rear flange have been drilled too deep by the manufacturer. This can result in oil seepage which may be misdiagnosed as coming from the oil pan or rear main bearing seal. To prevent seepage, coat bolt threads with thread locking sealer. Torque securely to OEM specifications.

CRANKSHAFT



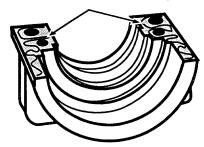
PRIOR TO INSTALLING THE CRANKSHAFT SEAL, check crankshaft for grooves. If grooves are present, install the spacer shim washer first. Note: When the spacer shim washer is installed. The sealing lip of the replacement seal will position itself on a different area of the shaft in order to avoid seal leakage problems commonly associated with groove worn shafts

IMPORTANT: The seal will function on refinished shafts up to 0.15" undersize.

REAR MAIN BEARING SEAL

CLEAN MATING SURFACES (cap, block and grooves of cap and block). You may wish to use a degreaser.

REMOVE NICKS AND SCRATCHES (IF ANY) FROM THE CRANKSHAFT SEALING SURFACE using a crocus cloth.



PRIOR TO INSTALLING THE REAR MAIN BEARING CAP apply an anaerobic sealant to either the rear main bearing cap or cylinder block mating surfaces. **Never** apply sealant on the ends of the seals.

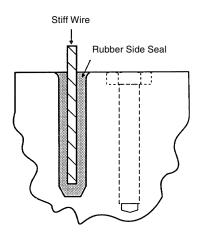
INSTALL NEW SEAL(S):

INSTALL SEAL: into the cylinder block. The seal is properly installed when its largest raised sealing lip is toward the **front** of the engine. (Seals with a metal garter spring require the springs to face towards the **front** of the engine.)

LUBRICATE SURFACE of seal lip and crankshaft by applying a thin coat of motor oil or grease. If engine will not be started within several days, grease is recommended.

IMPORTANT: Never install any seal without break-in lubricant protection.

REINSTALL SEAL RETAINER TO CYLINDER BLOCK. Torque to OEM specifications.



INSTALL RUBBER SIDE SEAL(S).

To aid installation, insert a stiff wire inside each side(s). Stretch the side seal over the wire, make certain wire bottoms out.

Install seals into the side cavities of the rear main bearing cap.

Release seal (seal will snap into place).

REMOVE STIFF WIRE.

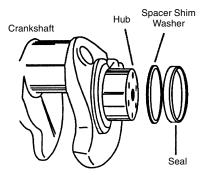
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FLYWHEEL BOLTS

REINSTALL FLYWHEEL to crankshaft. **Note:** On some engines that use a one-piece rear main bearing seal, a condition may exist where the bolt holes in the crankshaft rear flange have been drilled too deep by the manufacturer. This can result in oil seepage which may be misdiagnosed as coming from the oil pan or rear main bearing seal. To prevent seepage, coat bolt threads with thread locking sealer. Torque securely to OEM specifications.

CRANKSHAFT



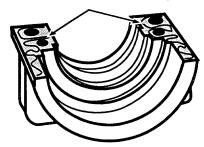
PRIOR TO INSTALLING THE CRANKSHAFT SEAL, check crankshaft for grooves. If grooves are present, install the spacer shim washer first. Note: When the spacer shim washer is installed. The sealing lip of the replacement seal will position itself on a different area of the shaft in order to avoid seal leakage problems commonly associated with groove worn shafts

IMPORTANT: The seal will function on refinished shafts up to 0.15" undersize.

REAR MAIN BEARING SEAL

CLEAN MATING SURFACES (cap, block and grooves of cap and block). You may wish to use a degreaser.

REMOVE NICKS AND SCRATCHES (IF ANY) FROM THE CRANKSHAFT SEALING SURFACE using a crocus cloth.



PRIOR TO INSTALLING THE REAR MAIN BEARING CAP apply an anaerobic sealant to either the rear main bearing cap or cylinder block mating surfaces. **Never** apply sealant on the ends of the seals.

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