

This superior gasket is the result of exhaustive research and strict quality control. However, no gasket is better than the quality of its installation.

## A VALVE STEM SEALS

The Valve Stem Seals below are included in this set. Use them for the applications according to the purpose indicated.

POSITIVE INTAKE POSITIVE EXHAUST

Black Rubber

Brown Rubber

- REMOVE SPRING ASSEMBLIES AND KEEPERS and the old valve stem seals.
- REMOVE BURRS (IF ANY) FROM VALVE STEMS. Use a fine stone
  or crocus cloth. Clean stems thoroughly to remove all abrasive or
  dust particles. Lubricate lightly.
- 3. INSTALL NEW SEALS. POSITIVE GUIDE SEAL

Prepare plastic installation sleeve. Trim it so it extends 1/16" below keeper groove. Place sleeve on valve stem. It protects seal from abrasion.

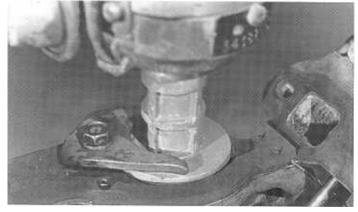
Carefully start valve stem seal over sleeve. Continue to push seal down with fingers on seal body until it nests snugly over valve guide. Remove plastic installation sleeve and use for installing remaining seals.

- REPLACE VALVE SPRING ASSEMBLIES. Only compress springs enough to install keepers. Excessive compression can result in spring retainer damaging valve stem seal.
- **B** INTAKE MANIFOLD GASKETS

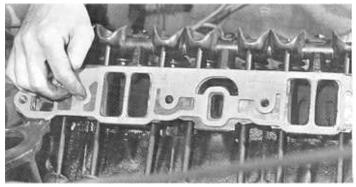


**IMPORTANT:** Install **both** intake manifold side rail gaskets with **restricted port toward rear** of engine

 Thoroughly clean all mating surfaces where manifold gaskets are to be installed.



Install end strip on center dowel pin. Secure both ends by locking to head gasket, using metal tabs. On those applications not having center dowel pin, secure end strip with a quick-drying adhesive.



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3. Insert one plastic retainer into second hole from each end of side gaskets.



- Using RTV sealant, apply 1/4" bead as caulk for butt joint at four corners of installation.
- 5. Install intake manifold casting and torque to manufacturer's specifications.

## C VALVE COVER GASKET

#### INSTALLATION PROCEDURE FOR HIGH TEMPERATURE GASKET

The valve cover gasket in this set is constructed of a rubber coated, exceptionally heat resistant, high temperture fiber.

It is equivalent to the latest OEM specifications intended to provide superior performance where extreme heat is encountered. Other brands of gaskets, are labeled "high temperature" but not constructed of this superior material, may not withstand extreme heat.

- **1.CLEAN MATING SURFACES** of all foreign material including old gaskets, RTV and oil. You may wish to use a degreaser. Also, clean oil return holes.
- 2.CHECK COVER FLANGES for flatness. Straighten stamped metal covers. Distorted cast aluminum or plastic covers are difficult to straighten and should be replaced. Replace severely distorted stamped covers as well.



- 3.ATTACH AND ALIGN GASKET TO COVER. Apply quick-drying adhesive to mating surface of cover in small, spaced dabs. If gasket has installation tabs, adhesive is NOT required. Mount gasket on cover; allow time for adhesive to set.
- **4.REINSTALL VALVE COVER TO ENGINE.** Torque securely to OEM speci fications. **CAUTION:** Avoid over-torquing, distortion of cover can cause leakage.

Torque valve cover bolts to 90 in. lbs.

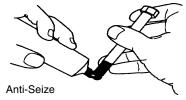
# D WATER OUTLET GASKET

To assist in alignment and sealing during assembly, we recommend that a thin, even coat of gasket sealer be applied to both sides of these gaskets.

#### E EXHAUST MANIFOLD GASKET

INSTALL METAL SIDE OF GASKET TOWARD MANIFOLD CASTING.

BOLTTHREADS OF EXHAUST MANIFOLD, EXHAUST PIPE FLANGE, E.G.R. VALVE



To prevent seizing and galling, apply a high performance lubricant to head bolt threads.

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

**NOTE:** RTV is included in this set.



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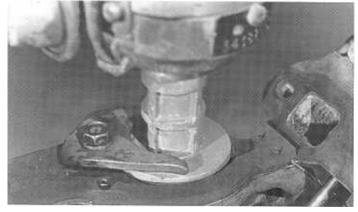
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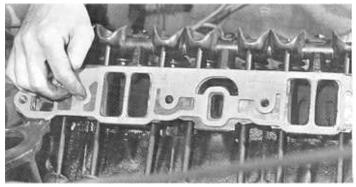


**IMPORTANT:** Install **both** intake manifold side rail gaskets with **restricted port toward rear** of engine

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Install end strip on center dowel pin. Secure both ends by locking to head gasket, using metal tabs. On those applications not having center dowel pin, secure end strip with a quick-drying adhesive.



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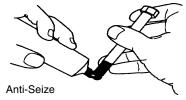
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