



## GUIDELINES FOR OIL SEAL INSTALLATION

This kit contains premium quality components, that, when properly installed, will provide years of trouble free performance. Care must be taken to insure that all mounting, mating, parallel or bore surface areas are wire brushed clean to remove all foreign material from the seal area. Extra care in surface preparation and attention to proper placement will help to insure professional results. Keep seals in the dust free bag until ready for installation.

All of the following seals may not be included, or required, in the particular set you have purchased.

### REAR MAIN CRANKSHAFT SEALS

This type of seal must be thoroughly saturated with engine oil prior to installation. Dry cranking on this seal will rapidly decrease service life.

Full round, or **radial type** seals, may require special installation tools, to properly position seal for use.

The **single lip split seal type** is designed with two halves that may not be equal in length. The upper half installs in the engine block and the lower half installs in the main cap, with each half meeting at the main cap to block parting line. The tapered, or ramp, side of the seal lip, must face inboard, for proper functioning. Apply additional oil to crankshaft seal area, prior to main cap installation.

The **dual lip split seal type** is designed with primary and secondary, or dust lip molded into the finished part. The primary lip is angled toward the crankcase and incorporates helix lines that pump excessive oil back into the engine. The dust lip helps to prevent outside contaminants from entering the primary seal area. Again, it is wise to apply additional oil to crankshaft seal area, prior to main cap installation.

### REAR MAIN BEARING CAP SEALS

This type of seal comes in various shapes and material composition, depending on application. The left and right sides may vary slightly in length or shape and should be compared before inserting. If your set contains rubber rails and steel pins, the steel pin is used to tension the rubber rail tight against the oil source area. Each of the materials used are designed for moderate swell, when exposed to engine oil, in order to properly conform to the seal cavity.

### OIL PAN END SEALS

If more than one front or rear seal is contained in your set, test fit for proper selection. It is important to obtain a smooth, uniform thickness from the seal to the gasket surface area.

### CAM OR TIMING COVER SEALS

These rotational shaft seals are usually dual lip design, with the primary sealing lip being tensioned by a garter spring. A moderate press fit secures the seal in place, using evenly distribute pressure. A small amount of gasket sealer may be brushed in the bore, prior to installation, to prevent oil seepage.

### VALVE STEM/GUIDE OIL SEALS

O-ring type - designed to keep the oil that is collected in the retainer dish, from flowing down the valve stem. Compress the valve spring/retainer assembly and install the o-ring seal into the lower most groove on the valve stem. Install valve locks, keepers, and release tension on valve spring. If stem to guide tolerances have not been returned to factory specifications, it is recommended that an umbrella, or positive type, seal be used in conjunction with the o-ring seal.

### INTAKE MANIFOLD END SEALS

If more than one front or rear seal is included in your set, test fit for proper selection. It is important to obtain a smooth, uniform thickness from the seal, to the gasket surface area. Some end seals are notched, in order to receive the side rail gasket, other seals have a uniform taper, or step, that flows into the gasket surface. A small amount of RTV sealant should be used for extra protection, where the seal meets the gasket surface area.

Care must be taken when installing the intake manifold, be sure the end seals have not shifted from their proper sealing position. Visual inspection, of front and rear seal positioning should be confirmed, prior to torque being applied to intake bolts.

**Be sure to specify Mr. Gasket accessories when rebuilding your engine. For your convenience the following Engine Dress-Up Kits are available.**

### CHROME ENGINE DRESS-UP PACKAGES\*

#### BOX PACKAGED

Available for the Small and Big Block Chevy engines, Ford's 260 thru 351W and the 351C engines as well as Pontiac and Olds V-8 applications. These packages include the most popular Chrome Engine Accessories. They are ideal starter kits . . . there are literally hundreds of related custom accessories from air cleaners to oil pans available from Mr. Gasket Co.

## ENGINE DRESS-UP KITS

### EXPRESS PRODUCTS

Kits include the most popular chrome dress-up components, including short, OEM height valve covers with integral oil baffles.

#### CHEVY SMALL BLOCK *Package Contains:*

- 2-Short chrome valve covers
- 2-Valve cover gaskets
- 1-Chrome push-on breather
- 1-Chrome dipstick & tube
- 1-Chrome timing chain cover
- 1-Chrome timing tab
- 1-Rubber grommet for valve
- 1-Breather grommet

cover PCV hole

Chevy Small Block 1958-85 .....**9834**

#### CHEVY SMALL BLOCK *Package Contains:*

- 2-Short chrome valve cover
- 2-Valve cover gaskets
- 1-Chrome push-on breather
- 1-Chrome dipstick & tube
- 8-Chrome hold-down clamps
- 8-Chrome wing bolts
- 1-Rubber grommet for valve
- 1-Breather grommet

cover PCV hole

Chevy Small Block 1958-85 .....**9836**

#### CHEVY SMALL BLOCK-ECONO KIT *Package Contains:*

- 2-Chrome valve covers-short style
- 1-PCV grommet
- 1-Chrome push-on breather
- 2-Valve cover gaskets
- 1-Chrome dipstick with tube
- 1-Breather grommet

Chevy Small Block 1958-85 .....**9841**

#### CHEVY BIG BLOCK *Package Contains:*

- 1-Chrome dipstick with tube
- 2-Valve cover gaskets
- 1-Chrome push-on breather
- 1-Breather grommet
- 2-Chrome wire loom brackets
- 14-Chrome wing bolts
- 1-Rubber grommet for valve
- 2-Chrome valve covers

cover PCV hole

-short OEM height

Chevy Big Block 1965-90 .....**9840**

#### PONTIAC 301-455 *Package Contains:*

- 1-Chrome dipstick with tube
- 2-Chrome valve covers
- 1-Chrome push-on breather
- 2-Valve cover gaskets
- 8-Chrome hold-down clamps
- 8-Chrome wing bolts
- 1-Rubber grommet for valve
- 1-Breather grommet

cover PCV hole

Pontiac 301-455 1967-76 .....**9830**

#### CHRYSLER 273-360 *Package Contains:*

- 1-Chrome dipstick with tube
- 2-Chrome valve covers
- 1-Chrome push-on breather
- 2-Valve cover gaskets
- 10-Chrome hold-down clamps
- 10-Chrome wing bolts
- 1-Rubber grommet for valve
- 1-Breather grommet

cover PCV hole

Chrysler 273-360 thru '92, ex. Magnum 1967-91 .....**9831**

#### FORD SMALL BLOCK 289-351W *Package Contains:*

- 2-Chrome valve covers
- 2-Chrome wire looms, 4-wire
- 2-Valve cover gaskets
- 2-Chrome wire dividers, 2-wire
- 12-Chrome wing bolts
- 1-Chrome push-on breather
- 1-Breather grommet
- 12-Chrome hold-down clamps

- 1-Rubber grommet for valve cover PCV hole

Ford Small Block 289-351W 1964-85 .....**9833**

## TRUCK ENGINE DRESS-UP KIT

### EXPRESS PRODUCTS

Designed for late model Chevy and GMC trucks, this is an ideal starter kit for customizing engines and enhancing the appearance of the engine compartment. The kit includes valve cover caps with hold down bolts, oil filler cap, master cylinder cover cap, power steering cap cover and air cleaner lid, and fits 305-350 V8 engines having center hold down valve covers. All parts are chrome-plated for lasting beauty.

1988-92 ..... **9461**

1993-96 ..... **9462**



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