



## FEL-PRO INSTALLATION TIPS

### GENERAL INSTRUCTIONS

**CLEAN MATING SURFACES** of all foreign material. Use a degreaser.

**CLEAN THREADS** of all bolts/studs using a wire brush; all nuts/threaded holes use a bottoming tap.

**Determine Which Bolts** extend into the coolant passages. Those **entering** the coolant passages require a pliable non-hardening sealer on the bolt threads and the underside of the bolt head. Those **not entering** the coolant passages require oil on the bolt threads and the underside of the bolt head.

**Exhaust Assembly:** Apply a high temperature anti-seize lubricant to the threadings.

**CHECK ALL CASTINGS** for flatness; straighten, resurface or replace if out of flat conditions exists.

**CYLINDER HEAD AND BLOCK:** refer to OEM manual to determine flatness tolerances and resurfacing limitations.

**Attach and align gasket(s) following any directional markings shown on the gasket.** If no markings exist, simply install the gasket by matching the gasket to engine deck surface.

**Fiber Faced Gasket(s)** are to be installed dry. **Metal Faced Gasket(s)** require a thin even coat of sealer, such as BRUSH TACK, to be applied to the metal side(s) of the gasket.

**FINAL ASSEMBLY** always requires torquing of fasteners according to OEM specifications. For certain assemblies we have provided specific torquing specifications.

**NOTE:** CYLINDER HEAD torquing procedures are critical and therefore we recommend to double-check with OEM.

**Some procedures may be repeated with additional specific information for your application.**

### VALVE STEM SEALS



Positive Intake & Exhaust  
Use green striped plastic installation sleeve.



Positive Auxiliary  
Use brown plastic installation sleeve.



"O" Ring Auxiliary

Use the valve stem seals included in this set with the proper installation aid (see illustration).

**POSITIVE GUIDE SEAL:** Use the plastic installation sleeve(s), included in this set, to prevent damage to the lip of the seal. Trim the plastic sleeve so it extends 1/16" below the keeper groove. Place the sleeve on the stem.

Carefully start valve stem seal over sleeve.

Remove plastic installation sleeve and reuse for installing remaining seals.

**FOR RUBBER JACKET SEALS:** Push seal down over valve guide until it bottoms.

**FOR SOLID OR METAL JACKET SEALS:** The use of an OEM service tool is recommended. If tool is unavailable, use a deep socket or rigid tube of appropriate diameter. Center tool (or socket) over the shoulder of the seal and tap the seal down over the guide until it bottoms.

**"O" RING TYPE SEAL:** Place "O" Ring seal on valve stem and position it into the proper groove. If "O" RING IS USED IN CONJUNCTION WITH A POSITIVE OR UMBRELLA SEAL, install the "O" Ring last.

### VALVE COVER GASKET

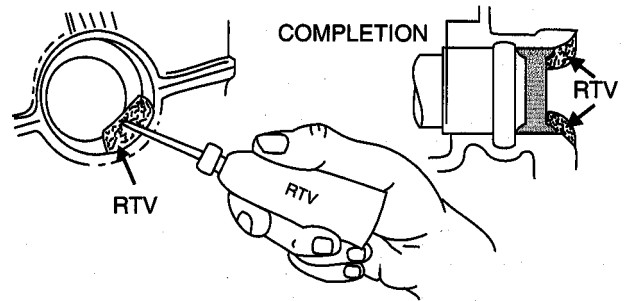
**ATTACH AND ALIGN GASKET.**

### CAM BORE PLUG

This set contains 1 cam bore plug. Identify and install as indicated.

5/31/83 and earlier engines - install rubber plug.

6/1/83 and later engines - install metal plug.



**INSTALL CAM BORE PLUG.** Now apply a continuous bead of silicone sealer, such as RTV, around the outer edge of the plug.

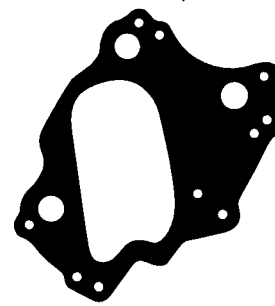
### INTAKE MANIFOLD GASKET

**ATTACH AND ALIGN GASKET.**

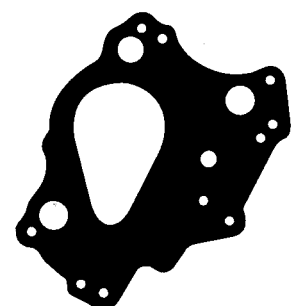
### EXHAUST MANIFOLD GASKET

**ATTACH AND ALIGN GASKET(S).** If gasket has only one steel faced side, install steel side towards manifold.

### OIL PUMP



Open Center



Restricted Center

This set contains 2 oil pump gaskets. Identify and install as indicated.



### Passenger Car

Chrysler 4

2.6L (FWD) Eng. 1982 ..... ☐

Dodge 4

2.6L (F) Eng. 1978 - 7/1/82 ..... ☐

2.6L (FWD) Eng. 1981 - 82 ..... ☐

2.6L Eng. after 7/1/82 - 89 ..... ☒

Mitsubishi 4

2.6L 2555 cc Eng. 1983 - 89 ..... ☒

Plymouth 4

2.6L (F) Eng. 1978 - 7/1/82 ..... ☐

2.6L (FWD) Eng. 1981 - 82 ..... ☐

2.6L Eng. after 7/1/82 - 86 ..... ☒

- Continued -

## Truck

### Dodge 4

2.6L (W) Eng. 1979 - 7/1/82 ..... ☐

2.6L Eng. after 7/1/82 - 89 ..... ☒

### Mazda 4

2.6L 2600 cc Eng. 1987-88 ..... ☒

### Mitsubishi 4

2.6L 2555 cc Eng. 1983-89 ..... ☒

### Plymouth 4

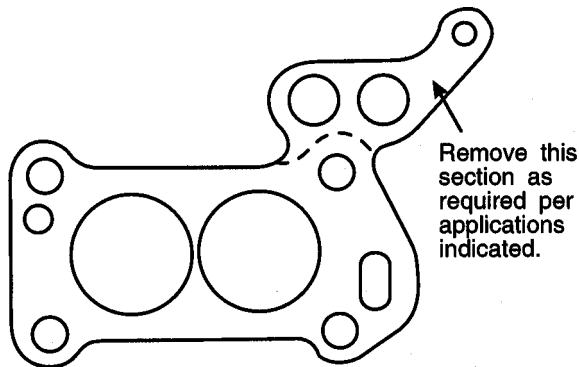
2.6L (W) Eng. 1979 - 82 ..... ☐

2.6L Eng. after 7/1/82 - 86 ..... ☒

## MISCELLANEOUS FLUID SEALING GASKETS

**ATTACH AND ALIGN GASKET(S)/SEAL(S):** If supplementary sealer is desired, apply a thin coat of gasket sealer to both sides of gasket(s). However, molded rubber gasket(s) or those with colored Printoseal® sealing beads, install **DRY**.

## CARBURETOR GASKET



The gasket included in this set is a consolidated design. Modification is required for the following applications:

- 1.4L Eng. 1981-84 Canadian Only
- 1.5L Eng. 1985 Canadian Only
- 1986 All Models
- 1.6L Eng. 1970-77 "K & Z" Only
- 1981-84 "K" Canadian Colt Only
- 2.0L Eng. 1974-77 All Models
- 1978-79 Canadian Only
- 2.6L Eng. 1978-83 Canadian Only