FEL-PRO INSTALLATION TIPS

Fel-Pro products are the result of exhaustive research and strict quality control. However, no sealing product is better than the quality of its installaiton.

HEAD GASKET

IMPORTANT: Due to some recent engineering changes, the cylinder head gasket(s) in this set may appear different from those previously provided for this application.

The engine this cylinder head gasket will be installed on is a lean burn-high fuel efficient design. It can experience localized “hot spots” between cylinders. Consequently, premature cylinder head gasket failure may occur. The formation of localized hot spots can be minimized by following the preparation and installation procedure outlined below:

CLEAN MATING SURFACES of all foreign materials. You may wish to use a degreaser. Improper use of power scrapers and abrasive pads can cause deep scratches, waviness and rounded edges.

CHECK HEAD AND BLOCK for flatness. Recommended maximum combined head and block out-of-flat is .004" when measured diagonally and lengthwise; .002" maximum widthwise. If resurfacing is required, remove only the minimal amount of material to provide a flat casting. Surface finish is critical. A surface roughness of less than 65 RMS (60 RA) is recommended. A smooth surface is more beneficial for sealing this particular engine than a rough surface.
IMPORTANT: The use of OEM steel washers under each bolt head is required for the installation of the head bolts. **NOTE:** Washers not included in this set. Existing washers can be reused.
Late 1985 and newer engines use 11mm head bolts. **DO NOT** interchange 10 mm/11 mm head bolts as cylinder block bolt hole threads will be damaged.

Continued

LUBRICATE the threads and the underside of every bolt head with oil. **DO NOT DIP BOLTS INTO OIL.**

ATTACH AND ALIGN GASKET FOLLOWING ANY DIRECTIONAL MARKINGS SHOWN ON THE GASKET. If no markings exist, simply intall the gasket by matching the gasket to engine deck surface.

REINSTALL CYLINDER HEAD(S) TO ENGINE. Torque securely to OEM specifications.

TO INSURE PROPER ENGINE OPERATION WE RECOMMED THE FOLLOWING:

Thoroughly inspect radiator for corrosion, test the radiator coolant flow rate, check for bent or damged fins. To ensure proper engine performance replacement of the radiator is recommended.

• Bleed cooling system, prior to engine start up. It may be necessary to raise the front of the vehicle to completely bleed the air from the cooling system.
• Use OEM recommended spark plugs, with the correct heat range. • Check and adjust air/fuel mixture ratio for proper emissions standards; mixture is critical to proper engine operation. • Vacuum leaks cause lean air/fuel ratios and hot engine operation. • Check vacuum hoses. • Check the carburetor base gasket for cracks and leaks.

ANY CYLINDER HEAD GASKET INSTALLATION SHOULD INCLUDE THE FOLLOWING CHECKS:

• Radiator flow and corrosion condition. • All coolant hoses for deterioration • Thermostat operation • Fan belt tension • Water pump flow • Radiator thermostatic fan switch operation • Antifreeze mixture • Radiator cap that maintains rated pressure • Coolant reservoir fill level
• Ignition timing setting • Emission controls • Vacuum leaks • Restriction in exhaust system.

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