

IN-VEHICLE SERVICE (Continued)

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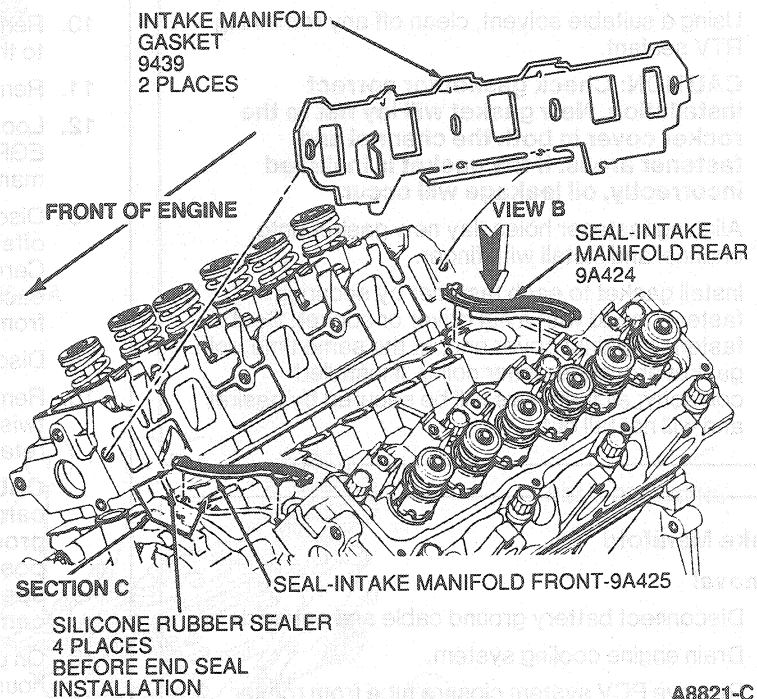
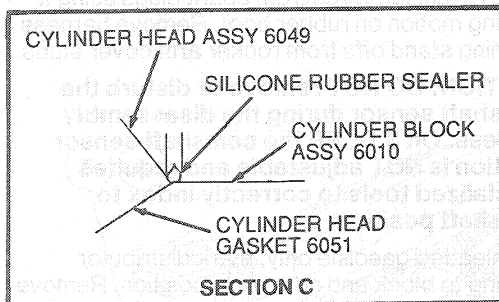
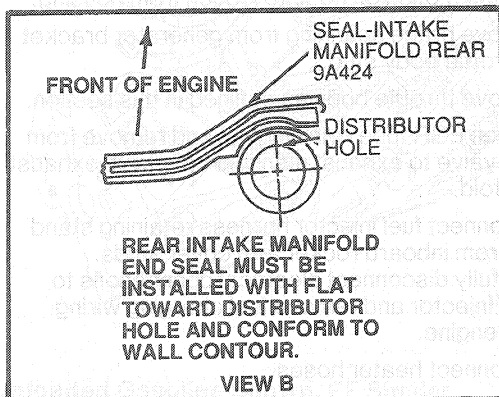
20. Remove intake manifold retaining bolts using a Torx® head socket. Before attempting to remove intake manifold, break seal between manifold and cylinder block. Wedge a large screwdriver or similar tool between intake manifold and block. Pry upward on tool using area between thermostat and transaxle as a leverage point.

Installation

NOTE: Lightly oil all retaining bolt and stud bolt threads before installation.

CAUTION: Aluminum components gouge easily which may cause gasket leaks. Always use care when scraping aluminum gasket surfaces.

1. Clean mating gasket surfaces of intake manifold and cylinder head. Lay a clean cloth or shop cloth in tappet valley to catch any gasket material. After scraping, carefully lift cloth from tappet valley preventing any particles to enter oil drain holes or cylinder head. Use a suitable solvent to remove old rubber sealant.
2. If installing a new intake manifold, transfer ECT sensor, thermostat, gasket and housing, heater hose elbow and coolant temperature sending unit to new manifold as outlined.
3. If removed, install fuel supply manifold. Apply lubricant XO-10W30-QSP (ESE-M2C153-E) or equivalent oil lightly to fuel injector rubber O-rings before installation. Install injectors into fuel supply manifold. Carefully align manifold assembly to intake manifold injector holes. Push one side into place at a time until manifold "clicks" into place. Install fuel supply manifold retaining bolts and tighten to 8-12 N·m (71-106 lb-in).



4. Apply a 5-6mm (1/4-inch) drop of Silicone Rubber D6AZ-19562-AA or BA (ESB-M4G92-A and ESE-M4G195-A) or equivalent to intersection of cylinder block and cylinder head assembly at four corners as shown.
5. Position intake gaskets onto cylinder heads. Align intake gasket locking tabs to provisions on cylinder head gaskets as shown.
6. Install front and rear intake manifold seals as shown. Secure with retainers.

7. Carefully lower intake manifold into position aligning manifold bolt holes to those in cylinder head. Use care to prevent disturbing rubber sealer which can cause sealing voids. Install bolts No. one, two, three and four and hand tighten. Install remaining bolts and tighten in a two step process. Tighten in numerical sequence to 20-30 N·m (15-22 lb-ft), then again in sequence to 26-32 N·m (19-24 lb-ft).