

Enginetech Inc
Tech Assistance 800-410-3664 ext. 340 or 237

TECHNICAL BULLETIN	
	October 1999
	TB 1736
Mfg:	GM
Model:	C-SERIES
Liter:	5.7L
V I N:	R
Year:	96-02

Intake Manifold Installation Caution On
1996-99 GM 5.7L VIN K & R Engines

The AERA Technical Committee offers the following information on intake manifold installation for 1996-99 GM 5.7L VIN K & R engines. This installation procedure is significantly different than previous years of 5.7L engines as the bolt torque values are expressed in inch pounds instead of foot-pounds.

Beginning in 1996 General Motors revised the method of mounting this manifold to the cylinder heads. Previously, the bolt clamped parallel to the intake gasket mating surfaces. Now, the revised method clamps the intake manifold at a 10° angle to the cylinder head and Loctite on the fasteners. The end result has the intake manifold bolts going into the cylinder head in a vertical position as shown in Figure 1.

Over tightening of the intake manifold bolts may cause distortion of the mating surfaces, allowing air or oil leakage. Or, it may also produce a "wedging" effect and unseat the intake gasket. Follow the correct torque procedure and sequence shown in Figure 2 below. A locking compound is also required to prevent the bolts from loosening.

1. Obtain a container of Loctite 242 (GM #1052289) and apply a small amount on all the lower intake manifold bolt threads.
2. Torque all bolts in sequence to 71-inch pounds (8 N.m.).
3. Torque all bolts in sequence to 106-inch pounds (12 N.m.).
4. Torque all bolts in sequence to 133-inch pounds (15 N.m.).

The AERA Technical Committee

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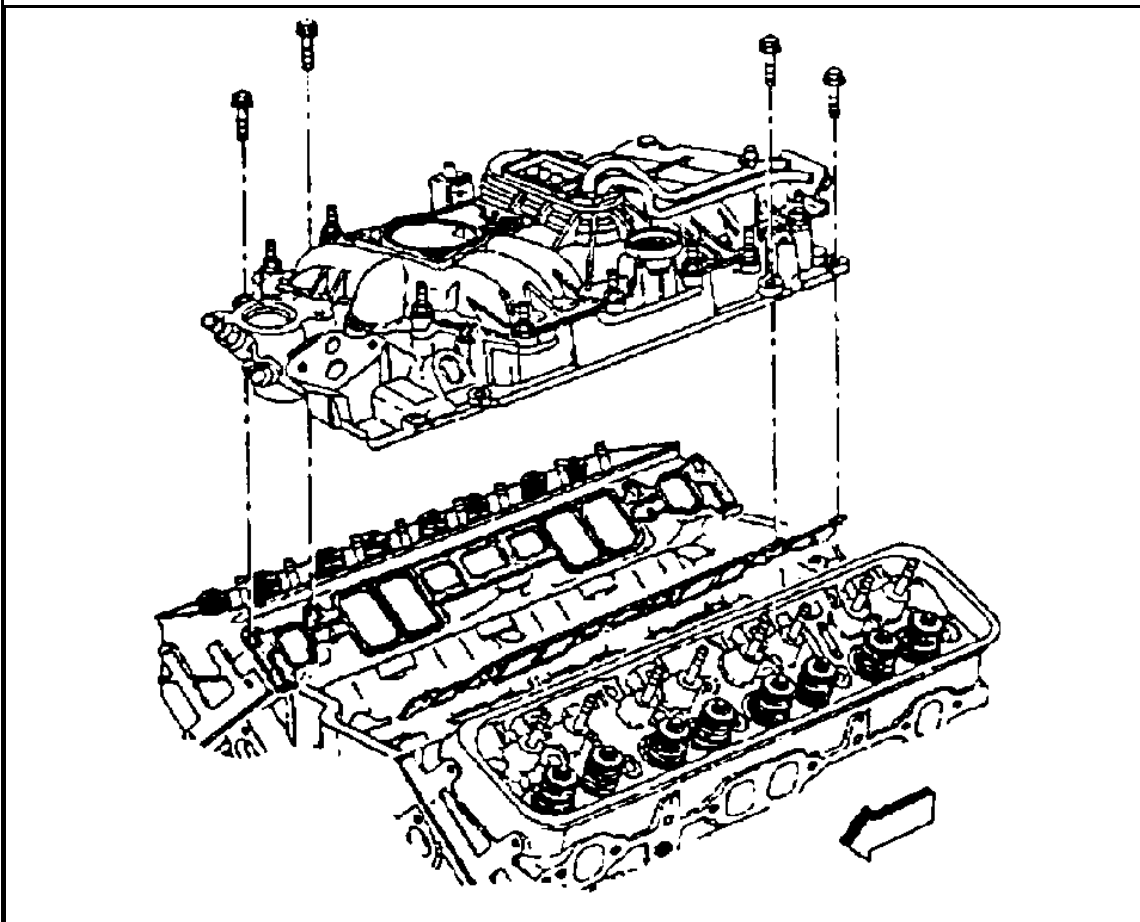


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Bulletin Diagram: FIGURE 1, INTAKE MANIFOLD INSTALLATION - CYLINDER BLOCK



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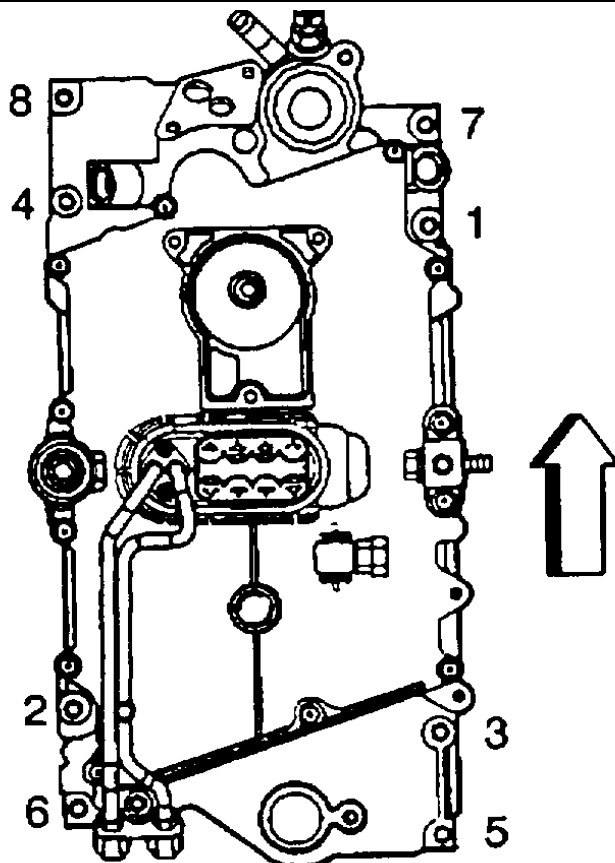


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Bulletin Diagram: FIGURE 2, INTAKE MANIFOLD TORQUE SEQUENCE - CYLINDER BLOCK



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