

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

TECHNICAL BULLETIN	
	August 1998
	TB 1599
Mfg:	GM
Model:	S10
Liter:	4.3L
V I N:	W
Year:	92-05

Premature Main Bearing Failures On
1996-2003 GM 4.3L VIN W & X Engines

The AERA Technical Committee offers the following information regarding premature main bearing failures on 1996-2003 GM 4.3L VIN W & X engines. It has been reported that improper installation of the lower intake manifold to the cylinder heads may cause main bearing failures. Most of the problems have been reported after the intake manifold has been recently reinstalled on the engine.

Beginning in 1996 General Motors revised the method of mounting this manifold to the cylinder heads. This revision was made so that the intake manifold bolts go into the cylinder head in a vertical position. Over tightening of the intake manifold bolts may cause the crankshaft main bearing bores to become distorted, reducing oil clearance to the bearings. To reduce main bearing failures, follow the correct torque procedure and sequence listed below.

Lower Manifold Torque

Step 1. 27 In/Lbs
Step 2. 106 In/Lbs
Step 3. 11 Ft/Lbs

Upper Manifold Torque

44 In/Lbs
88 In/Lbs

*NOTICE: General Motors states; If intake manifold bolt torque and tightening sequence is not followed as shown in this Technical Bulletin, the main bearing bore may become distorted, which may cause main bearing failure.

The AERA Technical Committee

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Reference:	
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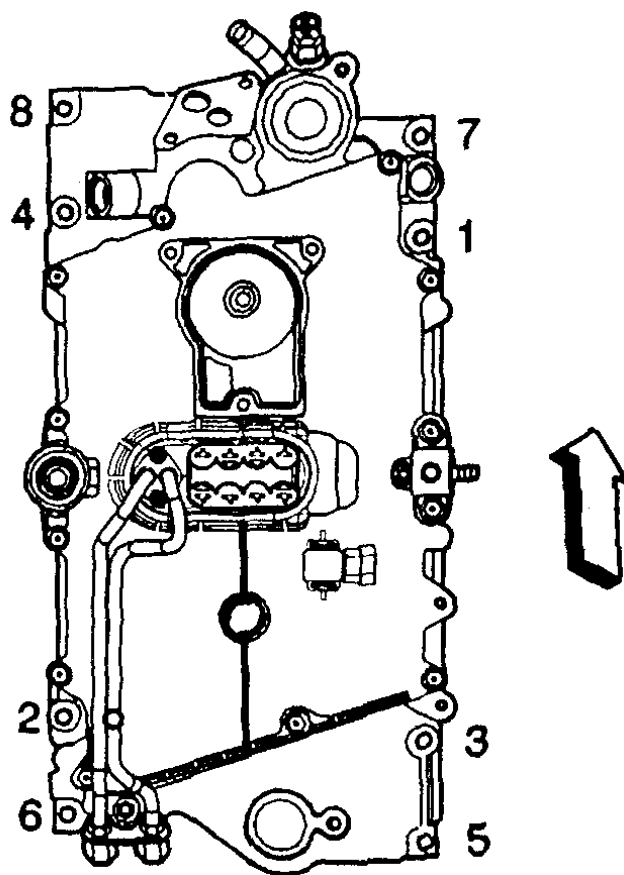
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Bulletin Diagram: Untitled Graphic #2325 for TB 01599



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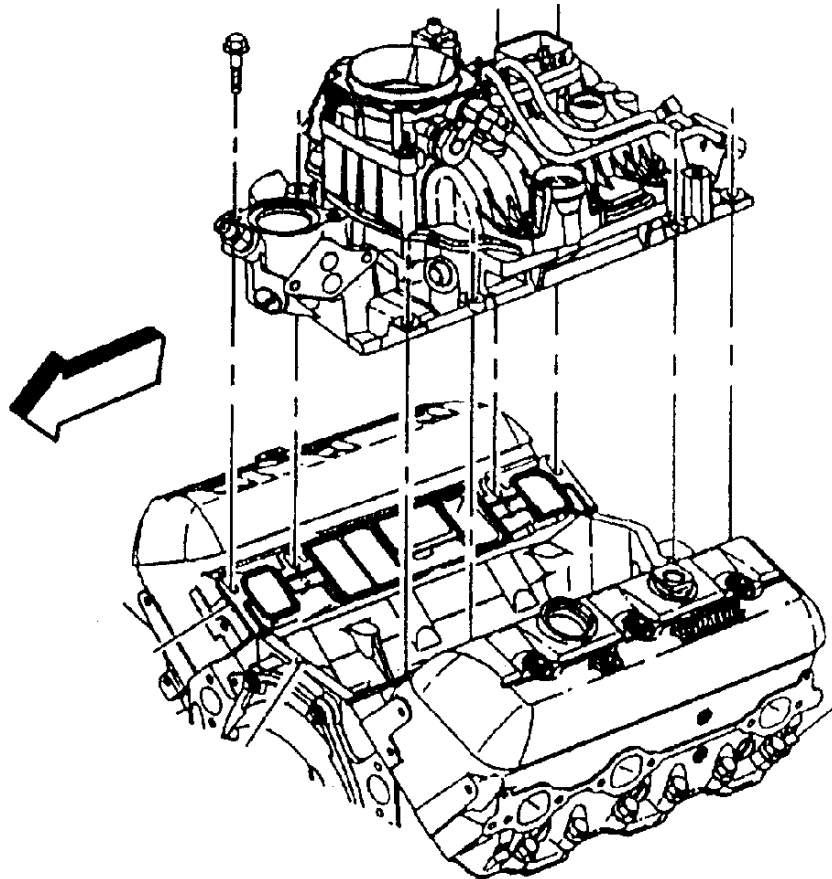
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Bulletin Diagram: Untitled Graphic #2326 for TB 01599



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