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TECHNICAL BULLETIN		
	March 2010 TB 2528	

Engine Coolant Loss On
2006-2008 GM 3.5 & 3.9L VIN N, K, R, W, 1, & 3 Engines

The AERA Technical Committee offers the following information regarding coolant loss on 2006-2008 GM 3.5 & 3.9L VIN N, K, R, W, 1, & 3 Engines. Some customers may comment on a coolant leak. The comments may range from spots on the driveway to having to add more coolant. Upon inspection, the technician may find that there is a external coolant leak coming from the top end of either cylinder head.

If a coolant leak is detected and determined to be coming from a cylinder head gasket, that gasket must be replaced. When replacing the head gasket, be advised that larger flanged hex head bolts are now to be used at head bolt locations 5 and 8. The larger flanged hex bolts are the same as the ones used at the other six locations. When installing the two large flanged hex head bolts at locations 5 and 8, a new style lower intake manifold gasket must be used. That intake manifold gasket has provisions to allow for the larger flanged bolts that are recommended to be used. These new lower intake manifold gaskets are contained in the gasket kits listed below. Also Note: Replace the other six cylinder head bolts during this head gasket renewal process.

Caution: Failure to use the new lower intake manifold gaskets when installing the larger flange hex head bolts at locations 5 and 8 may result in the lower intake manifold not fitting properly, which may result in a leak condition.

Important: Lower intake manifold gaskets contained in older gasket kits will not have the provisions needed when installing the larger flange bolts.

	Parts Information	
Part Number	Description	Quantity
19179755	Gasket Kit, Cylinder Head	1

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Reference:	
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11569648

Bolt, Cylinder Head

8 required per head

Figure 1. Cylinder Head Bolt Torque Sequence (SEE DIAGRAM TAB ABOVE)

Notice: This component uses torque-to-yield bolts. When servicing this component do not reuse the bolts, new torque-to-yield bolts must be installed. Reusing used torque-to-yield bolts will not provide proper bolt torque and clamp load. Failure to install NEW torque-to-yield bolts may lead to engine damage.

To install the cylinder heads on these engines follow the steps listed below and reference figure 1 for the sequence to tight the bolts.

1. Install the NEW cylinder head bolts and tighten all bolts finger tight.
2. Tighten all bolts in sequence to 44 FT/LBS (40 Nm).
- 3 .Rotate all bolts in sequence an additional 95° turn using torque angle tool J45059.

The AERA Technical Committee

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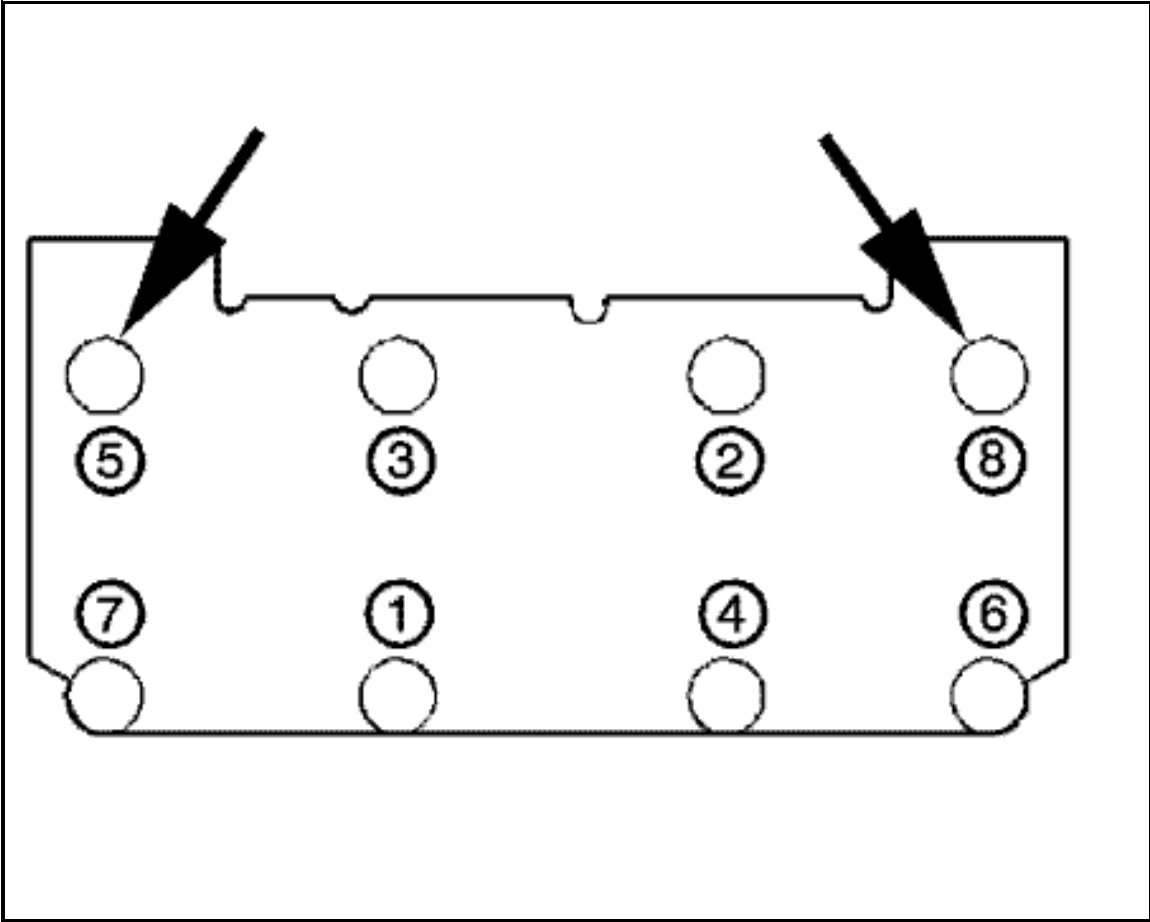
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Bulletin Diagram: FIGURE 1. CYLINDER HEAD BOLT TORQUE SEQUENCE - CYLINDER HEAD



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