

Enginotech Inc
For Technical Assistance Call:
1-800-410-3664 ext 340 or ext 237

TECHNICAL BULLETIN	
	August 2000
	TB 1817
Mfg:	TOYOTA
Model:	AVALON
Liter:	3.0L
V I N:	1MZFE
Year:	94-06

Camshaft Installation Caution For
1994-98 Toyota 3.0L 1MZFE Engines

The AERA Technical Committee offers the following information on a camshaft installation caution for 1994-98 Toyota 3.0L 1MZFE engines. The four camshafts used in this engine are unique to the left or right side head. At first glance, the cams appear to be the same as only a few degrees of lobe orientation difference exists. Therefore, assembling the camshafts in the wrong head can easily be done.

There are two cams per head on this engine and each camshaft has a small identification mark to help identify it for proper location. Those marks (dots) are made on the rearward side of the cam timing gear. Two of the cams have one dot and two cams have two dots. The right side cylinder head takes both camshafts marked with two dots and the left side cylinder head takes the two camshafts marked with the single dot. When correctly positioned in the head the dot or dots should be right next to each other as show in Figure 1.

NOTE: Camshaft bearing caps are numbered for location on top of the bearing cap. Camshaft bearing caps are also marked with "I" and "E" for intake and exhaust camshaft location. The arrow on top of the camshaft-bearing cap must point toward the timing belt end of the engine as shown in Figure 2.

The AERA Technical Committee

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Reference:	
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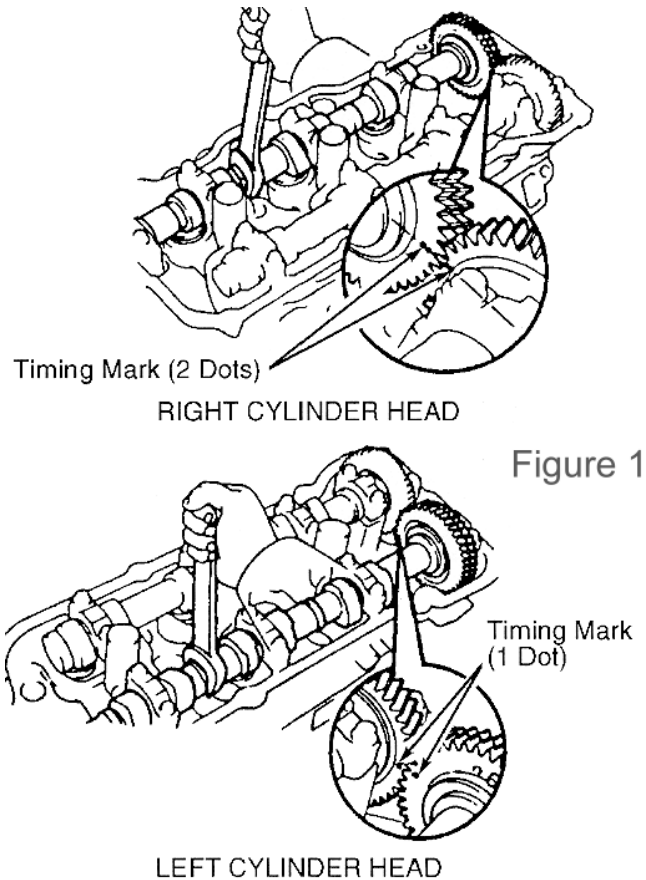
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Bulletin Diagram: TB 1817 Figure 1



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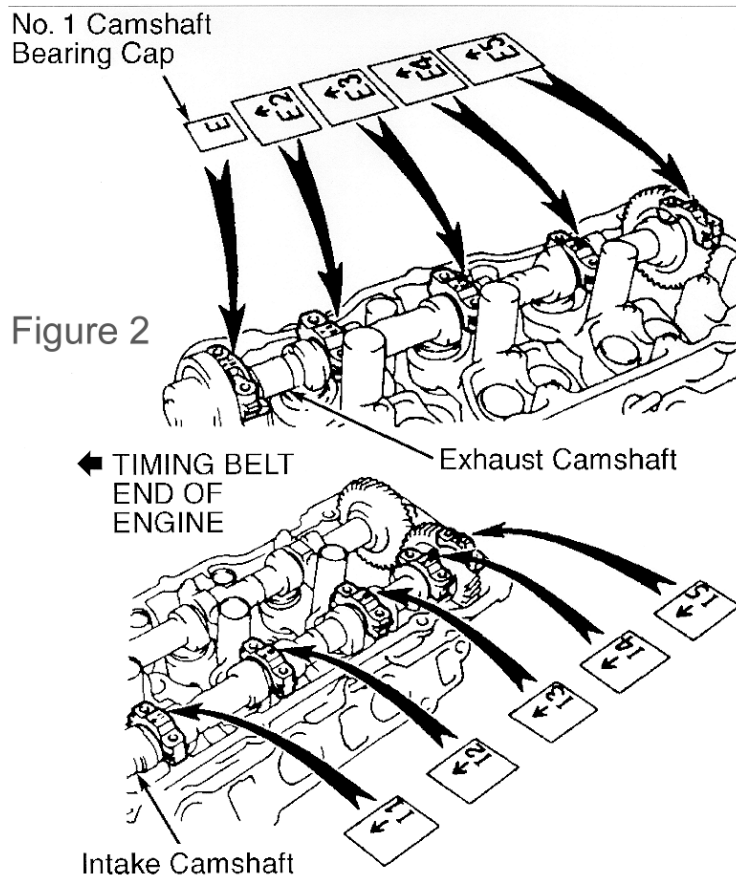
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Bulletin Diagram: TB 1817 Figure 2



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