



Head Gasket Selection for 1997-2004 Toyota 1KZ-TE Diesel Engines

The AERA Technical Committee offers the following information regarding head gasket selection for 1997-2004 Toyota 1KZ-TE diesel engines. The 1KZ-TE engine uses three different head gasket thicknesses depending on what the piston protrusion measures.

Piston protrusion measurement is taken at TDC (Top Dead Center) to determine the correct head gasket thickness to use. Once the piston protrusion has been measured, refer to the head gasket hole marking image and chart (shown below) to determine which head gasket should be used. Failure to check piston protrusion and using the incorrect gasket could result in piston to head contact or piston to valve contact.

Note: There are 5 different head gaskets installed at the factory (hole numbers 1-5) but only 3 head gaskets are available for replacement (hole numbers 1, 3 and 5).

<u>Hole Numbers</u>	<u>Piston Protrusion</u>	<u>Gasket Thickness</u>
1	.0031-.0047" (.080-.120 MM)	.0315-.0354" (.800-.900 MM)
3	.0051-.0087" (.130-.220 MM)	.0354-.0394" (.900-1.000 MM)
5	.0091-.0130" (.230-.330 MM)	.0394-.0433" (1.000-1.100 MM)

