

CYLINDER HEAD INSPECTION

id011000507100

1. Inspect the cylinder head surface for cracks and other damage using a red dye penetrant.
 - If there is a malfunction, replace the cylinder head.
2. Measure the combustion chamber side of the cylinder head for distortion in six directions as shown in the figure using a straight edge and feeler gauge.
 - If the distortion exceeds the maximum specification, replace the cylinder head. Do not attempt to repair the cylinder head by milling or grinding.

Maximum distortion, head gasket side of the cylinder head

0.05 mm {0.002 in}

3. Inspect the contact surface of the exhaust manifold and the intake manifold for distortion by measuring as shown in the figure using a straight edge and feeler gauge.
 - If the distortion on intake manifold side exceeds the maximum specification, replace the cylinder head.
 - If the distortion on exhaust manifold side exceeds the maximum specification, grind the surface or replace the cylinder head.

Maximum distortion, manifold side

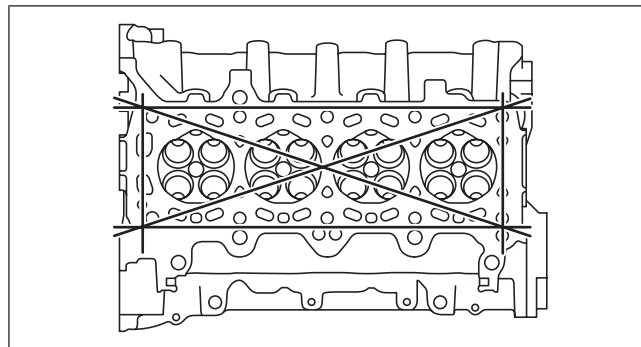
IN: 0.10 mm {0.0039 in}

EX: 0.05 mm {0.002 in}

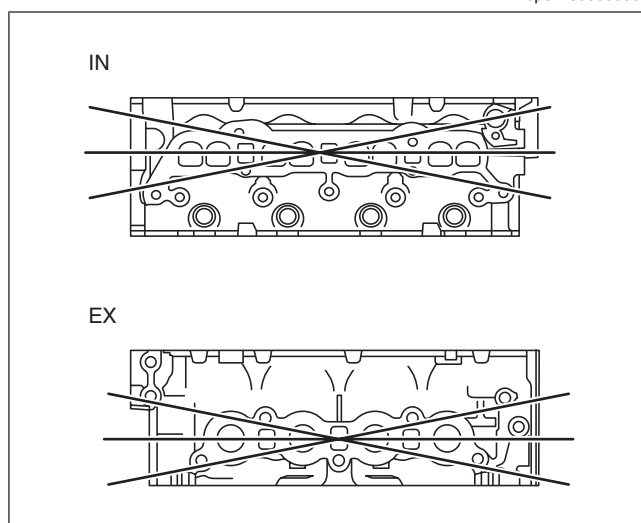
Maximum cutting length, manifold side

IN: Cutting not authorized

EX: 0.20 mm {0.0079 in}



bpe1ze00000003



bpe1ze00000004