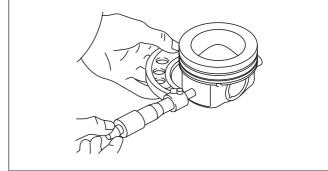
PISTON INSPECTION

Caution

- If the piston is replaced, replace the piston, piston pin, and the snap ring as a single component.
- Measure the piston outer diameter using the micrometer. Perform the inspection at the following location.
 - 10.4 mm {0.409 in} from the lower end of the piston (area with no coating on piston skirt)
 - If it is not within the specification, replace the piston.

Standard piston outer diameter 85.958—85.984 mm {3.3842—3.3851 in}

2. Measure the cylinder bore diameter. (See CYLINDER BLOCK INSPECTION.)



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- 3. Calculate the cylinder-to-piston clearance from the cylinder bore diameter and the piston outer diameter.
 - If the clearance exceeds the maximum specification, replace the piston or cylinder block.

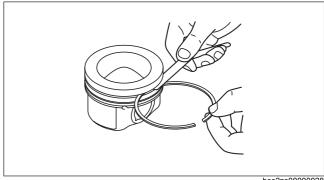
Standard clearance between piston and cylinder 0.031—0.049 mm {0.0013—0.0019 in}

Maximum clearance between piston and cylinder 0.067 mm {0.0026 in}

- 4. Measure the piston-to-ring groove clearance along the perimeter using a feeler gauge. For the O-ring, measure the clearance with the O-ring assembled to the piston.
 - If the clearance exceeds the maximum specification, replace the piston or piston ring.

Standard clearance between piston ring and ring groove

Top: 0.07—0.11 mm {0.003—0.004 in} Second: 0.05—0.09 mm {0.002—0.003 in} Oil: 0.03—0.07 mm {0.0012—0.0027 in}



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Maximum clearance between piston ring and ring groove

Top: 0.16 mm {0.0063 in} Second: 0.12 mm {0.0047 in} Oil: 0.11 mm {0.0043 in}