

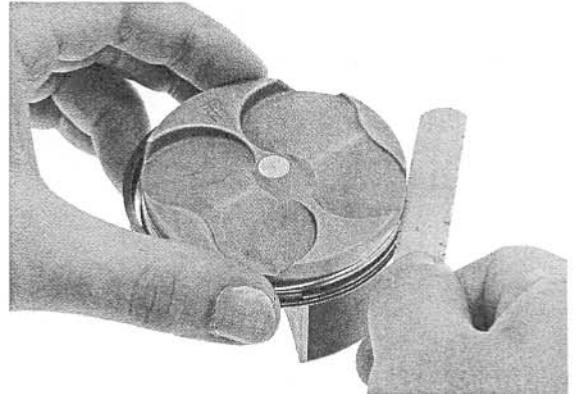
**PISTON INSPECTION**

Inspect the piston rings for movement by rotating the rings. The rings should be able to move in their grooves without catching.

Push the ring until the outer surface of the piston ring is nearly flush with the piston and measure the ring-to-ring groove clearance.

**SERVICE LIMITS:**

- Top: 0.10 mm (0.004 in)**
- Second: 0.08 mm (0.003 in)**

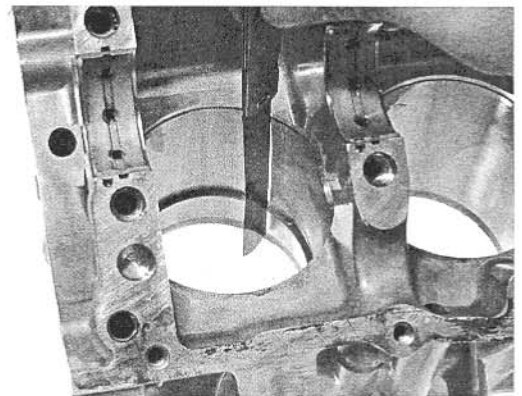


*Push the rings into the cylinder with the top of the piston to be sure they are squarely in the cylinder.*

Insert the piston ring squarely into the top of the cylinder and measure the ring end gap.

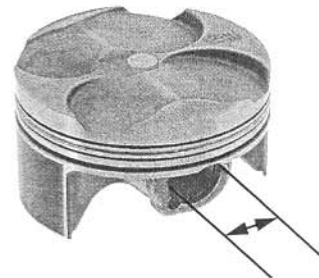
**SERVICE LIMITS:**

- Top: 0.4 mm (0.02 in)**
- Second: 0.5 mm (0.02 in)**
- Oil (side rail): 1.0 mm (0.04 in)**



Measure the piston pin bore.

**SERVICE LIMIT: 16.02 mm (0.631 in)**



Measure the O.D. of the piston pin.

**SERVICE LIMIT: 15.98 mm (0.629 in)**

Calculate the piston-to-piston pin clearance.

**SERVICE LIMIT: 0.04 mm (0.002 in)**

