

Remove any carbon deposits from the piston ring grooves, using an old piston ring as shown.



## PISTON INSPECTION

Temporarily install the piston rings to their proper position with the mark facing up.

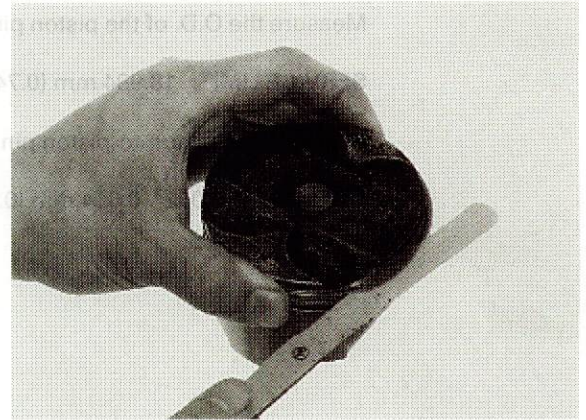
Measure the piston ring-to-ring groove clearance with the rings pushed into the grooves.

### SERVICE LIMITS:

**Top:** 0.08 mm (0.003 in)

**Second:** 0.06 mm (0.002 in)

Inspect the piston for wear or damage.



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

### NOTE:

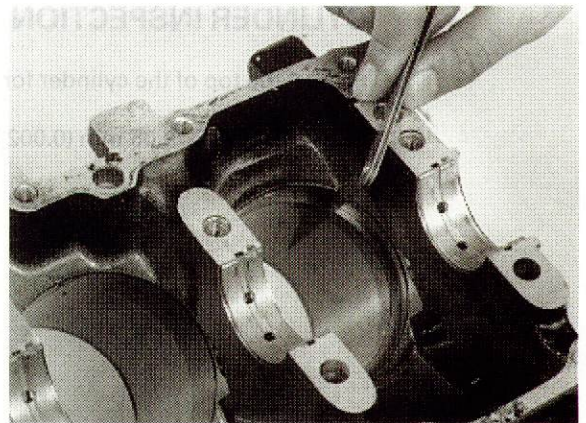
Push the rings into the cylinder with the top of the piston to be sure they are squarely in the cylinder.

### SERVICE LIMITS:

**Top:** 0.5 mm (0.02 in)

**Second:** 0.7 mm (0.03 in)

**Oil (side rail):** 1.0 mm (0.04 in)



Measure the diameter of the piston at 15 mm (0.6 in) from the bottom and 90 degrees to the piston pin hole.

**SERVICE LIMIT:** 78.90 mm (3.106 in)

