

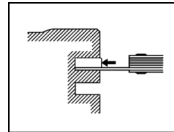
## CYLINDER/PISTON

Clean carbon deposits from the ring grooves with a ring that will be discarded.



### 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-groove clearance.

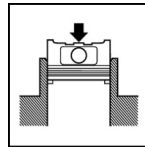


#### SERVICE LIMIT:

Top/Second: 0.08 mm (0.003 in)

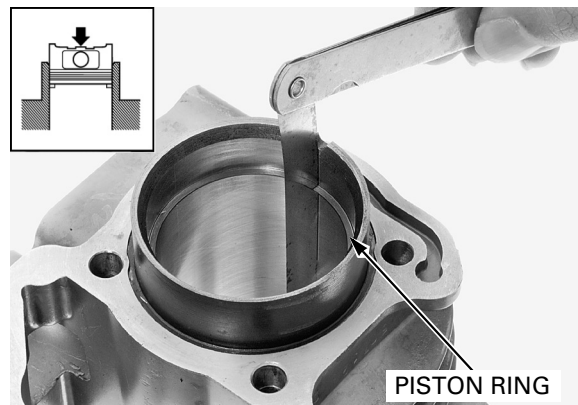


Insert each piston ring into the bottom of the cylinder squarely using the piston. Measure the ring end gap.



#### SERVICE LIMIT:

Top/Second: 0.45 mm (0.018 in)



Check the piston outer surface for scratches or damage.

Measure the piston pin hole. Take the maximum reading to determine I.D.

**SERVICE LIMIT: 13.04 mm (0.513 in)**

Measure the piston pin O.D. at piston and connecting rod sliding areas.

**SERVICE LIMIT: 12.96 mm (0.510 in)**

Calculate the piston-to-piston pin clearance.

**SERVICE LIMIT: 0.02 mm (0.001 in)**

