

## CYLINDER/PISTON

Measure the piston pin O.D. at three points.

**SERVICE LIMIT: 63.40 mm (2.496 in)**

Calculate the piston-to-piston pin clearance.

**SERVICE LIMIT: 0.04 mm (0.0016 in)**



Measure the connecting rod small end I.D.

**SERVICE LIMIT: 15.09 mm (0.594 in)**

Calculate the connecting rod small end-to-piston pin clearance.

**SERVICE LIMIT: 0.075 mm (0.0030 in)**



### NOTE:

Always replace the piston rings as a set.

Inspect the piston ring, and replace them if they are worn.

Temporarily install the piston rings (page 11-7) into the piston grooves.

Push in the ring until the outer surface of the piston ring is nearly flush with the piston and measure the clearance using a feeler gauge.

### SERVICE LIMIT:

**Top: 0.10 mm (0.004 in)**

**Second: 0.08 mm (0.03 in)**



Using a piston, push the ring securely into the cylinder and measure the end gap using a feeler gauge.

### SERVICE LIMIT:

**Top: 0.3 mm (0.01 in)**

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

**Oil: 1.1 mm (0.04 in)**

