A micrometer is the most used measuring instrument in engine service and repair. The thimble rotates over the barrel on a screw that has 40 threads per inch. Every revolution of the thimble moves the spindle 0.025 inch. The thimble is graduated into 25 equally spaced lines; therefore, each line represents 0.001 inch. Measure and record the following engine components.

Evaluation (Enter number from 4, 3, 2, 1) :\_\_\_\_\_\_\_\_\_

**Meets ASE task: (**A0-B-5) Demonstrate proper use of precision measuring tools (e.g., micrometer, dial-indicator, dial-caliper).

**Micrometer**

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date:\_\_\_\_\_\_\_\_\_\_\_\_\_

Time on Task:\_\_\_\_\_\_\_\_\_\_\_\_\_

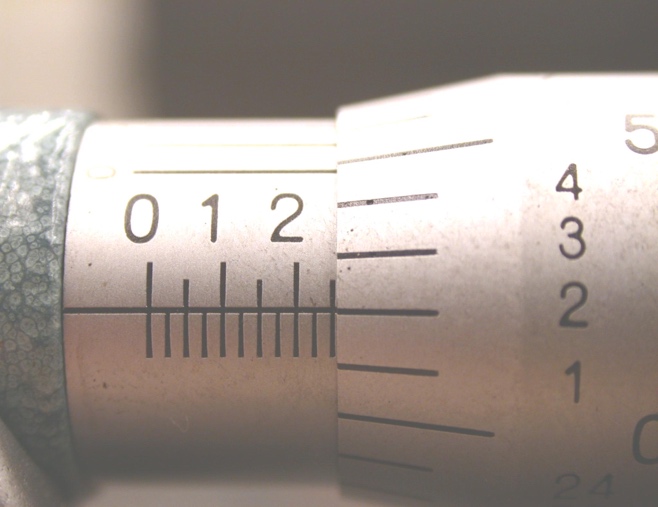
Make/Model/Year:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

VIN:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Page 16

**1.** Pushrod diameter = \_\_\_\_\_\_\_\_\_\_\_\_\_

**2.** Intake valve stem diameter = \_\_\_\_\_\_\_\_\_\_\_

 **3.** Exhaust valve stem diameter = \_\_\_\_\_\_\_\_\_\_

**4.** Camshaft bearing diameter = \_\_\_\_\_\_\_\_

**5.** Piston diameter = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Check the factory specifications for

exact location on the piston to measure

the diameter.

Location = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**6.** Crankshaft main bearing journal diameter = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**7.** Crankshaft rod bearing journal diameter = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_