

ENGINE DISPLACEMENT INSPECTION

RECORD APPLICANT

Name: _____ NAMBA # _____ Date: _____
Class: _____ Engine: _____

MEASUREMENTS

- 1) Cylinder Diameter (bore): _____ inches (dimension "A")
- 2) Piston depth @ BDC: _____ inches (dimension "B")
- 3) Piston depth @ TDC: _____ inches (dimension "C")

CALCULATIONS

$$\text{Displacement} = \pi R^2 \times \text{stroke}$$

- 1) Dimension "A" (diameter) _____ inches $\div 2$ = Radius _____ inches "R"
- 2) Radius "R" ² = _____ inches
- 3) Dimension "B" _____ inches minus Dimension "C" _____ inches = _____ inches (STROKE)
- 4) $3.14159 (\pi) \times R^2$ _____ inches = _____ $\times$ stroke _____ inches =

Displacement _____ in³ (cubic inches)

CONVERSIONS

- 1) Cubic Inches (in³) to Cubic Centimeters (cm³)
_____ in³ $\times 1.6387 \times 10$ = _____ cm³
- 2) Cubic Centimeters (cm³) to Cubic Inches (in³)
_____ cm³ $\times 6.1024 \times .01$ = _____ in³

CLASS DISPLACEMENT LIMITS

CLASS A - 0 to 3.509 cm³ (0 to 0.21 in³)
CLASS B - 3.51 to 7.509 cm³ (0.22 to 0.45 in³)
CLASS C - 7.51 to 11.009 cm³ (0.46 to 0.67 in³)
CLASS X - 11.01 to 30.009 cm³ (0.68 to 1.80 in³)

INSPECTION RESULTS

This engine **PASSES / FAILS** the displacement inspection for the _____ class.

Inspector Name: _____ NAMBA# _____

Inspector Signature: _____