

**2.5 Stock Inspection Sheet** (REVISED 4/20)

Regatta: \_\_\_\_\_ Date: \_\_\_\_\_ Boat # \_\_\_\_\_

- **Length:** (Min: 13'6" Max: 17'6") \_\_\_\_\_
- **Width:** (Max: 9'6") \_\_\_\_\_
- **Weight:** (Min:1025 lbs.) \_\_\_\_\_
- **Fuel Type** \_\_\_\_\_
  - Specific Gravity \_\_\_\_\_ (0.715-0.765 @60°F)
  - Digatron Reading \_\_\_\_\_ (Must be negative)

Carburetor	Venturi	Throttle bore	Measured (V)	Measured (TB)
<b>Rochester</b>	<b>1.320"</b>	<b>1.690"</b>		
<b>0-4412, HP 0-80583-1</b>	<b>1.380"</b>	<b>1.690"</b>		
<b>0-7448, HP 0-80787-1</b>	<b>1.190"</b>	<b>1.502"</b>		

The total dimension of wedge and gaskets measured from the intake manifold to carb base shall not exceed 1.250 inches. Measurement: \_\_\_\_\_

\*Throttle shaft may be altered or modified for connecting to the throttle cable. No thinning of throttle shaft is allowed; must maintain stock diameter.

- **Intake Manifold**
  - OMC #912470 \_\_\_\_\_
  - Esslinger #2724.5 \_\_\_\_\_
- **Cam Profile**
  - Adjust the valve to zero lash and set the dial indicator to zero. Set the degree wheel to zero degrees, rotate the cam in normal direction of rotation to 0.050 inches valve lift. Set the degree to 17 degrees. Repeat for each 0.050 of increasing and decreasing valve lift as shown in the table. At the point of maximum lift, note the angular width of the flat area. Repeat with the exhaust valve. Compare recorded data with the table data.

Valve Lift	Intake degrees	Actual degrees	Exhaust degrees	Actual degrees
0.050	17		17	
0.100	22		22	
0.150	27		27	
0.200	32		32	
0.250	37		37	
0.300	43		43	
0.350	51		51	
0.400	67		67	
MAX (0.410)	70		70	
0.402	73		72	
0.400	75		74	
.0.350	91		90	
0.300	99		99	
0.250	105		104	
0.200	110		110	
0.150	115		115	
0.100	120		120	
0.050	126		126	

Check lobe spacing (Use setup of prior check): Set dial indicator on intake valve spring retainer. Rotate the cam until the heel is clear of the rocker arm. Adjust valve to zero lash and stop at .005 inches valve lift. Set the degree wheel to zero degrees. Rotate the cam in normal direction of rotation to 0.050 inches valve lift. Record the degree wheel reading. Repeat the above procedure on the exhaust valve except that the degree wheel is not reset to zero. The two angle recordings are subtracted to obtain lobe spacing; 111 degrees.

**Lobe spacing** \_\_\_\_\_

- **Engine**

- Bore: Max. 3.825" \_\_\_\_\_
- Stroke: Max. 3.126: \_\_\_\_\_
- Top of piston must be below the top surface of the compressed head gasket a minimum of 0.040": **Measurement** \_\_\_\_\_
- **Head:**
  - No dual plug heads \_\_\_\_\_
  - Cast Iron? \_\_\_\_\_
  - Chamber volume: Min. 61 cc \_\_\_\_\_
  - Adaptor plate use? \_\_\_\_\_
    - Total thickness of plate and two gaskets: Max. 0.500: \_\_\_\_\_
  - If running aluminum look for APBA/ACHA stamp: \_\_\_\_\_
- **Valves (Option 1, Aluminum Head):**
  - Intake: Max. 1.890" (11792 or 11794) \_\_\_\_\_
  - Exhaust: Max. 1.590" (11793 or 11795) \_\_\_\_\_
  - Valve Springs:
    - O.D. Max. 1.460" \_\_\_\_\_
    - Retainer: Must be stock or stock steel replacement \_\_\_\_\_
- **Valves (Option 2, Cast Iron Head):**
  - Intake: Max. 1.735" \_\_\_\_\_
    - If back cut: 20° X Max. 0.205" width \_\_\_\_\_
    - Valve stem diameter: Min. 0.340" \_\_\_\_\_
  - Exhaust: Max. 1.500" \_\_\_\_\_
    - No back cutting allowed \_\_\_\_\_
    - Valve stem diameter: Min. 0.340" \_\_\_\_\_
  - Seats: 90° or less, no more than 0.250" from deck into bowl area.
    - Intake \_\_\_\_\_
    - Exhaust \_\_\_\_\_
  - Valve Springs:
    - O.D. Max. 1.460" \_\_\_\_\_
    - Retainer: Must be stock or stock steel replacement \_\_\_\_\_
- **Lifters:**
  - Must be hydraulic \_\_\_\_\_
  - The Inspector will verify that the lifter is hydraulic by compressing the lifter to a min. of .175
  - Inspector may disassemble hydraulic lifter to insure it is approved. Inspector will inspect the Lifter Boss in the head for any alterations.

○ **Pistons:**

- Federal Mogul #H435P or #495P
- Top of piston to first ring: Min. 0.245" \_\_\_\_\_
- SRP #148221 or #148222
- Top of piston to first ring: Min. 0.195" \_\_\_\_\_
- Only straight walled pins may be used \_\_\_\_\_

NOTES:

- Check all parts for any grinding, polishing and any other alterations from the furnished stock configuration. However, the distributor intermediate shaft is not inspect-able.
- Rods need to be checked to ensure material was removed for balancing and not lightening.

Chief Inspector \_\_\_\_\_ APBA # \_\_\_\_\_

Inspector \_\_\_\_\_ APBA # \_\_\_\_\_

Referee \_\_\_\_\_ APBA# \_\_\_\_\_

Inboard Commissioner \_\_\_\_\_ APBA# \_\_\_\_\_

Boat Owner's signature \_\_\_\_\_ APBA# \_\_\_\_\_