



4. Crank engine thru at least 4 compression strokes to obtain highest possible reading.
5. Check and record compression of each cylinder. Variation of more than 15 psi (103.5 kPa) between cylinders indicates that lower compression cylinder is in some way defective, such as worn or sticking piston rings and/or scored piston and cylinder.
6. Compression check is important because an engine with low or uneven compression cannot be tuned successfully to give peak performance. It is essential, therefore, that improper compression be corrected before proceeding with an engine tuneup.
7. Cylinder scoring: If powerhead shows any indication of overheating, such as discolored or scorched paint, visually inspect cylinders for scoring or other damage as outlined in Section 4 "Powerhead."

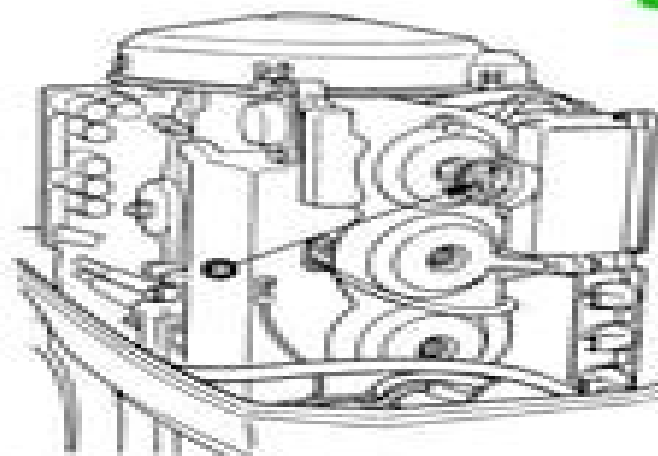
Water Pressure Check

NOTE: To perform these checks, a Water Pressure Gauge Kit, PIN 91-79250-02 is recommended.

1. Water pressure at idle, in neutral, is 1-3 psi (7-21 kPa).
2. Water pressure should increase, then drop to 4-6 psi (27-35 kPa) prior to 2500 RPM (due to poppet valve opening.)
3. At 2500 RPM, water pressure should not exceed 12 psi (83 kPa). Readings above 12 psi at 2500 RPM may indicate a stuck poppet valve.
4. Static test (boat stationary) - operate in forward gear with a cut down "smaller diameter" propeller at 5000 RPM or above is 7-12 psi (48-83 kPa).

⚠ CAUTION

A MODIFIED PROPELLER OR LOW PITCH PROPELLER IS REQUIRED TO PERFORM THE ABOVE STATIC TEST. STATIC TEST REQUIRES THE BOAT BE STATIONARY IN THE WATER SECURED TO A DOCK OR TRAILER AND RUN IN FORWARD GEAR. DO NOT USE A FLUSHING DEVICE FOR THIS TEST.

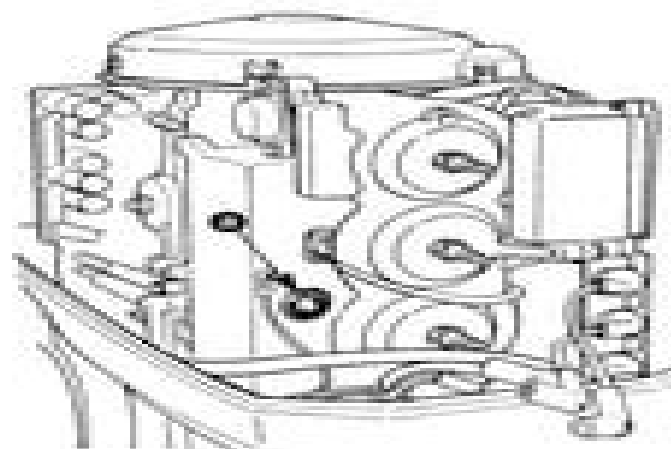


a - Compression Gauge (PIN 91-25257)

911285

Serial Number Location

The engine serial number is located on the starboard side of the valve bracket (as on all Mariner/Mercury models) and also on the cylinder head (a).



911286

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