

TROUBLESHOOTING

- Engine top-end problems usually affect engine performance. These problem can be diagnosed by a compression test or by tracing engine noises to the top-end with a sounding rod stethoscope.
- If the performance is poor at low speeds, check for white smoke in the crankcase breather tube. If the tube is smoky, check for seized piston ring.

LOW COMPRESSION

- Worn cylinder or piston ring

HIGH COMPRESSION

- Excessive carbon build-up on piston head or on combustion chamber

EXCESSIVE SMOKE

- Worn cylinder, piston or piston ring
- Improper installation of piston rings
- Scored or scratched piston or cylinder wall

ROUGH IDLE

- Low cylinder compression

OVER HEATING

- Excessive carbon build-up on piston head or on combustion chamber

KNOCKING OR ABNORMAL NOISE

- Worn cylinder and piston
- Excessive carbon build-up