

TROUBLESHOOTING

Engine top-end problems are usually performance-related and can usually be diagnosed by a compression test. Engine noises can usually be traced to the top-end with a sounding rod or stethoscope.

Low Compression

- Valve
 - Incorrect valve adjustment
 - Burned or bent valves
 - Incorrect valve timing
 - Broken valve spring
- Cylinder head
 - Leaking or damaged head gasket
 - Warped or cracked cylinder head
- Cylinder and piston (Refer to Section 7)

High Compression

- Excessive carbon build-up on piston head or combustion chamber
- Decompressor does not operate or damaged

Excessive Noise

- Incorrect valve adjustment
- Sticking valve or broken valve spring
- Damaged or worn rocker arm or camshaft
- Loose or worn cam chain
- Worn or damaged cam chain tensioner
- Worn cam sprocket teeth

Poor Idling

- Compression too low
- Manual decompressor out of adjustment

Kick Starting Difficult

- Manual decompressor out of adjustment
- Decompressor does not operate