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Abnormal noise

Engine knocking (mechanical noise that occurs when engine is suddenly loaded)

Check ignition timing

NO

OK

Adjust

Check spark plugs for excessive burning

NO

OK

Install spark
plugs of correct
heat range

OK

NO

Further checks
unnecessary

Repeat test with fuel system drained and
refilled with other fuel

OK

NO

Further checks
unnecessary

Deposit of carbon in combustion cham-
bers

Overhaul

**Thumping noise from around cylinder head cover that
increases with engine speed**

Check valve clearances

NO

OK

Adjust

Check rocker arms and cam faces for
abnormal wear

NO

OK

Replace

Check valve springs for distortion or
breakage

NO

OK

Replace

Valve stem(s) seized up in guide tube
(In this instance, noise will not be
rhythmical and may be higher than
noise caused by excessive valve
clearances)