
POOR PERFORMANCE AT LOW AND IDLE SPEED

1. Intake Pipe Leaking Inspection

Check for leaks at the intake pipe.

Does it leak?

YES – • Loose intake pipe mounting nut
• Damaged intake pipe O-ring

NO – GO TO STEP 2.

2. Spark Plug Inspection

Remove and inspect the spark plug.

Is spark plug in good condition?

YES – GO TO STEP 3.

NO – • Plug not serviced frequently enough
• Incorrect spark plug heat range
• Incorrect spark plug gap
• Dirty air cleaner element

3. Spark Test

Perform spark test.

Is there weak or intermittent spark?

YES – GO TO STEP 4.

NO – • Faulty spark plug
• Fouled spark plug
• Opened or shorted spark plug wire
• Faulty ignition coil
• Faulty CKP sensor
• Faulty ECM

4. Ignition Timing Inspection

Check the ignition timing.

Is the ignition timing correct?

YES – GO TO STEP 5.

NO – • Faulty CKP sensor
• Faulty ECM

5. Valve clearance Inspection

Check the valve clearance.

Is the valve clearance correct?

YES – GO TO STEP 6.

NO – Improper valve clearance

6. Cylinder Compression Inspection

Test the cylinder compression.

Is the compression within specification?

YES – GO TO STEP 7.

NO – • Valve stuck open
• Worn cylinder and piston rings
• Damaged cylinder head gasket
• Seized valve
• Incorrect valve seat contact