

TROUBLESHOOTING

8. Cylinder compression Inspection

Test the cylinder compression.

Is the compression as specified?

- NO** – • Valve clearance too small
• Valve stuck open
• Worn cylinder and piston rings
• Damaged cylinder head gasket
• Improper valve timing

YES – GO TO STEP 9.

9. Fuel Pump Inspection

Inspect the fuel flow.

Is the fuel pump unit normal?

NO – Faulty fuel pump unit (page 6-58).

YES – GO TO STEP 10.

10. Programmed Fuel Injection System Inspection

Check the fuel injection system.

Is the fuel injection system normal?

NO – Faulty fuel injection system (page 6-79), (page 6-67).

YES – GO TO STEP 11.

11. Lubrication Inspection

Remove cylinder head cover and inspect lubrication.

Is the valve train lubricated properly?

- NO** – • Faulty oil pump
• Faulty pressure regulator valve
• Clogged oil strainer
• Clogged oil passage

YES – GO TO STEP 12.

12. Over Heating Inspection

Check for engine over heating.

Is the engine over heating?

- YES** – • Coolant level too low
• Fan motor not working
• Thermostat stuck closed
• Excessive carbon build-up in combustion chamber
• Use of poor quality fuel
• Wrong type of fuel
• Clutch slipping

NO – GO TO STEP 13.

13. Engine Knocking Inspection

Accelerate or run at high speed.

Is the engine knocking?

- YES** – • Worn piston and cylinder
• Wrong type of fuel
• Excessive carbon build-up in combustion chamber
• Ignition timing too advance (Faulty ECM)
• Faulty ignition pulse generator
• Faulty cam pulse generator

NO – • Engine does not knock