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**POOR PERFORMANCE AT LOW AND IDLE SPEED****1. Spark Plug Inspection**

Remove and inspect spark plugs.

*Are the spark plugs in good condition?*

- NO** – • Plugs not serviced frequently enough  
• Incorrect spark plug heat range  
• Incorrect spark plug gap

**YES** – GO TO STEP 2.

**2. Ignition Timing Inspection**

Check the ignition timing.

*Is the ignition timing as specified?*

- NO** – • Faulty engine control module (ECM)  
• Faulty ignition pulse generator  
• Faulty cam pulse generator  
• Faulty vehicle speed sensor  
• Improper valve timing

**YES** – GO TO STEP 3.

**3. Fuel Pump Inspection**

Inspect the fuel flow.

*Is the fuel pump unit normal?*

- NO** – Faulty fuel pump unit (page 6-33).

**YES** – GO TO STEP 4.

**4. Programmed Fuel Injection System Inspection**

Check the fuel injection system.

*Is the fuel injection system normal?*

- NO** – Faulty fuel injection system (page 6-54, 6-43).

**YES** – GO TO STEP 5.

**5. Starter Valve Synchronization Inspection**

Check the starter valve synchronization.

*Is the starter valve synchronization as specified?*

- NO** – Adjust the starter valve synchronization (page 6-61).

**YES** – GO TO STEP 6.

**6. Intake Pipes Leaking Inspection**

Check for leaks at the intake manifold pipes.

*Are there leaks?*

- YES** – • Loose insulator  
• Damaged insulator