

# ENGINE DOES NOT START OR IS HARD TO START

### 1. Spark Plug Inspection

Remove and inspect spark plug.

***Is spark plug in good condition?***

**YES** – GO TO STEP 2.

**NO** –

- Plug not serviced frequently enough
- Incorrect spark plug heat range
- Incorrect spark plug gap
- Dirty air cleaner element

### 2. Spark Test

Perform spark test.

***Is there weak or no spark?***

**YES** –

- Faulty spark plug
- Fouled spark plug
- Opened or shorted spark plug wire
- Broken spark plug cap
- Broken or shorted ignition coil
- Faulty CKP sensor
- Loose or disconnected ignition system wires
- Faulty ECM

**NO** – GO TO STEP 3.

### 3. Fuel Pump Inspection

You should hear the pump hum when the ignition switch is turned ON.

***Is the hum heard?***

**YES** – GO TO STEP 4.

**NO** –

- Broken fuel pump wire
- Faulty fuel pump

### 4. Cylinder Compression Inspection

Test the cylinder compression.

***Is the compression within specification?***

**YES** – GO TO STEP 5.

**NO** –

- Valve stuck open
- Worn cylinder and piston rings
- Damaged cylinder head gasket
- Seized valve
- Incorrect valve seat contact
- Improper valve timing

### 5. Fuel Flow Inspection

Inspect the fuel flow (page 6-35).

***Is the fuel flow within specification?***

**YES** – GO TO STEP 6.

**NO** –

- Clogged fuel feed hose
- Faulty fuel pump

### 6. Engine Start Condition

Start the engine by following the normal procedure.

***Does the engine start but then stops?***

**YES** –

- Intake pipe leaking
- Improper ignition timing (faulty ECM or CKP sensor)
- Contaminated fuel
- Clogged IACV passage