

# NO.20 FUEL ODOR (IN ENGINE COMPARTMENT) [ZJ, Z6]

B3E010318881W53

20	FUEL ODOR (IN ENGINE COMPARTMENT)
DESCRIPTION	Gasoline fuel smell or visible leakage
POSSIBLE CAUSE	<ul style="list-style-type: none"> <li>Excessive fuel pressure</li> <li>Purge solenoid valve malfunction</li> <li>Fuel tank vent system blockage</li> <li>Charcoal canister malfunction</li> <li>Fuel leakage from fuel system</li> </ul> <p><b>Warning</b></p> <p>The following troubleshooting flow chart contains the fuel system diagnosis and repair procedures. Read the following warnings before performing the fuel system services:</p> <ul style="list-style-type: none"> <li>Fuel vapor is hazardous. It can easily ignite, causing serious injury and damage. Always keep sparks and flames away from fuel.</li> <li>Fuel line spills and leakage are dangerous. Fuel can ignite and cause serious injuries or death and damage. Fuel can also irritate skin and eyes. To prevent this, always complete the "BEFORE SERVICE PRECAUTION" and "AFTER SERVICE PRECAUTION" described in this manual. (See <a href="#">BEFORE SERVICE PRECAUTION [ZJ, Z6, LF]</a>.) (See <a href="#">AFTER SERVICE PRECAUTION [ZJ, Z6, LF]</a>.)</li> </ul> <p><b>Caution</b></p> <ul style="list-style-type: none"> <li>If there is foreign material on the connecting area of the quick release connector, it might damage the connector or fuel pipe. To prevent this, disconnect the connector and clean the connecting area before connecting.</li> </ul>

## Diagnostic procedure

STEP	INSPECTION	RESULTS	ACTION
1	Visually inspect for fuel leakage at the fuel injector O-ring and fuel line. Service if necessary. Install fuel pressure gauge between fuel pipe and the fuel distributor. Start the engine and idle it. Measure fuel line pressure at idle. Is fuel line pressure correct at idle? (See <a href="#">FUEL LINE PRESSURE INSPECTION [ZJ, Z6, LF]</a> .)	Yes	Go to the next step.
		No	Replace the fuel pump unit. (See <a href="#">FUEL PUMP UNIT REMOVAL/INSTALLATION [ZJ, Z6, LF]</a> .)
2	Inspect for blockage/restriction or open circuit in wiring harness between the engine vacuum port and the charcoal canister. Inspect for blockage in fuel tank vent system. Is fault indicated?	Yes	Replace the vacuum hose.
		No	Go to the next step.
3	Inspect the purge solenoid valve. (See <a href="#">PURGE SOLENOID VALVE INSPECTION [ZJ, Z6, LF]</a> .) Is the solenoid operating properly?	Yes	Go to the next step.
		No	Replace the purge solenoid valve.

4	Connect the WDS or equivalent to the DLC-2. Retrieve any continuous memory, KOEO and KOER DTCs using WDS or equivalent. Are there any DTCs displayed?	Yes	<b>DTC is displayed:</b> Go to the appropriate DTC inspection. (See <a href="#">DTC TABLE [ZJ, Z6]</a> .)
		No	<b>No DTC is displayed:</b> Inspect the charcoal canister for fuel saturation. • If excess amount of liquid fuel is present, replace the charcoal canister.
5	Verify test results. • If normal, return to diagnostic index to service any additional symptoms. (See <a href="#">ENGINE SYMPTOM TROUBLESHOOTING [ZJ, Z6]</a> .) • If malfunction remains, inspect related Service information perform repair or diagnosis.  - If vehicle repaired, troubleshooting completed. - If vehicle not repaired or additional diagnostic information not available, replace the PCM. (See <a href="#">INTAKE-AIR SYSTEM REMOVAL/INSTALLATION [ZJ, Z6]</a> .)		