

NO.20 FUEL ODOR (IN ENGINE COMPARTMENT) [LF]

B3E010318881W22

20	FUEL ODOR (IN ENGINE COMPARTMENT)
DESCRIPTION	Gasoline fuel smell or visible leakage
POSSIBLE CAUSE	<ul style="list-style-type: none"> Excessive fuel pressure Purge valve malfunction Fuel tank vent system blockage Charcoal canister malfunction Fuel leakage from fuel system <p>Warning</p> <p>The following troubleshooting flow chart contains fuel system diagnosis and repair procedures. Read following warnings before performing fuel system services:</p> <ul style="list-style-type: none"> Fuel vapor is hazardous. It can easily ignite, causing serious injury and damage. Always keep sparks and flames away from fuel. 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 "BEFORE SERVICE PRECAUTION" and "AFTER SERVICE PRECAUTION" described in this manual. (See BEFORE SERVICE PRECAUTION [ZJ, Z6, LF].) (See AFTER SERVICE PRECAUTION [ZJ, Z6, LF].) <p>Caution</p> <ul style="list-style-type: none"> Disconnecting/connecting quick release connector without cleaning it may possibly cause damage to fuel pipe and quick release connector. Always clean quick release connector joint area before disconnecting/connecting, and make sure that it is free of foreign material.

Diagnostic procedure

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

			REMOVAL/INSTALLATION [LF].)
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	DTC is displayed: Go to the appropriate DTC inspection. (See DTC TABLE [LF].)
		No	No DTC is displayed: 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 ENGINE SYMPTOM TROUBLESHOOTING [LF].) • 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 PCM REMOVAL/INSTALLATION [LF].)		