

2012 - Mazda6 - Engine

NO.27 FUEL REFILL CONCERNS [MZI 3.7 V6]

27	FUEL REFILL CONCERNS
DESCRIPTION	Fuel tank is not filled smoothly.
POSSIBLE CAUSE	- Clogged EVAP pipes - Nonreturn valve malfunction - Improper use of fuel nozzle - Inadequate fuel filling speed WARNING: - The following troubleshooting flow chart contains the fuel system diagnosis and repair procedures. Read the following warnings before servicing the fuel system: - 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 [MZI 3.7 V6] .) (See AFTER SERVICE PRECAUTION [MZI 3.7 V6] .) CAUTION: - Disconnecting/connecting quick release connector without cleaning it may 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	VERIFY PCM DTC Switch the ignition to ON	Yes	DTC is displayed:

	(Engine off). • Retrieve any DTCs using the M-MDS. (See ON-BOARD DIAGNOSTIC TEST [MZI 3.7 V6] .) • Are there any DTCs displayed?		• Go to the appropriate DTC inspection. (See DTC TABLE [MZI 3.7 V6] .)
		No	No DTC is displayed: • Go to the next step.
2	DETERMINE IF MALFUNCTION CAUSE IS NONRETURN VALVE OR OTHER • Make sure the nonreturn valve is installed properly. • Inspect the nonreturn valve operation. (See NON-RETURN VALVE INSPECTION [MZI 3.7 V6] .) • Is the nonreturn valve normal?	Yes	Inspect for the following: • Improper use of fuel nozzle • Inadequate fuel filling speed Repair or replace the malfunctioning part according to the inspection results.
		No	Nonreturn valve is installed improperly: • Reinstall nonreturn valve to proper position. Nonreturn valve does not operate properly: • Replace the nonreturn valve.
3	Verify test results. • If normal, return to diagnostic index to service any additional symptoms. (See SYMPTOM DIAGNOSTIC INDEX [MZI 3.7 V6] .) • If malfunction remains, inspect related Service Bulletins and/or On-line Repair Information and perform repair or diagnosis. ▪ If vehicle is repaired, troubleshooting completed. ▪ If vehicle is not repaired or additional diagnostic information is not available, reprogram the PCM if a later calibration is available. Retest.		

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