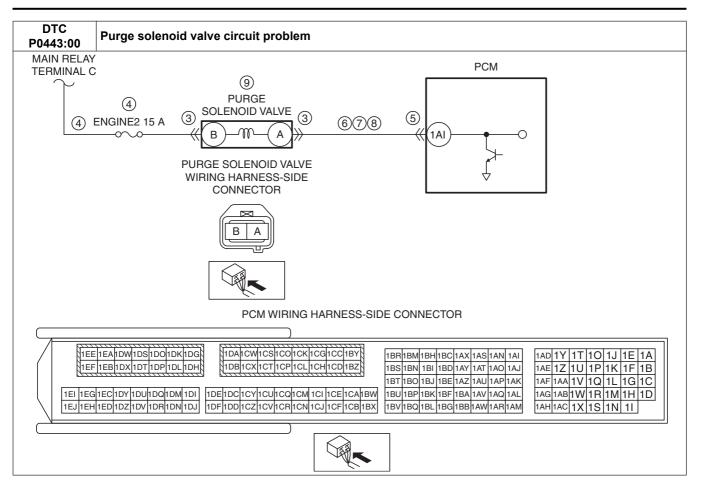
Caution

• Vehicle specifications differ depending on the vehicle identification number (VIN).

— Type A VIN:
 JM0 KE****** 100001—
 JM6 KE****** 100001—
 JM7 KE****** 100001—
 JM8 KE****** 100001—
 JMZ KE***** 100001—
 KE10** 100001—
 Type B VIN:
 JM0 KE****** 200001—
 JM6 KE****** 200001—
 JM8 KE****** 200001—
 JMZ KE****** 200001—
 KE10** 200001—

DTC P0443:00	Purge solenoid valve circuit problem			
DETECTION	 Type A VIN The PCM monitors the purge solenoid valve control signal voltage and current. If the following conditions are met, the PCM determines that there is the purge solenoid valve control circuit problem. The PCM turns the purge solenoid valve off, but the voltage of the purge solenoid valve control signal remains low. The PCM turns the purge solenoid valve on, but the current of the purge solenoid valve control signal remains high. Type B VIN The purge control voltage at the PCM terminal 1AI exceeds the specification or the purge control voltage is less than the specification relative to the PCM control condition. Diagnostic support note This is a continuous monitor (CCM). The check engine light illuminates if the PCM detects the above malfunction condition in two consecutive drive cycles or in one drive cycle while the DTC for the same malfunction has been stored in the PCM. PENDING CODE is available if the PCM detects the above malfunction condition during the first drive cycle. FREEZE FRAME DATA (Mode 2)/Snapshot data is available. DTC is stored in the PCM memory. 			
FAIL-SAFE FUNCTION	Not applicable			
POSSIBLE CAUSE	 Purge solenoid valve connector or terminals malfunction Short to ground or open circuit in purge solenoid valve power supply circuit Short to ground in wiring harness between ENGINE2 15 A fuse and purge solenoid valve terminal B ENGINE2 15 A fuse malfunction Open circuit in wiring harness between main relay terminal C and purge solenoid valve terminal B PCM connector or terminals malfunction Short to ground in wiring harness between purge solenoid valve terminal A and PCM terminal 1AI Short to power supply in wiring harness between purge solenoid valve terminal A and PCM terminal 1AI Open circuit in wiring harness between purge solenoid valve terminal A and PCM terminal 1AI Purge solenoid valve malfunction PCM malfunction			



Diagno	Diagnostic Procedure					
STEP	INSPECTION		ACTION			
1	VERIFY FREEZE FRAME DATA (MODE 2)/	Yes	Go to the next step.			
	SNAPSHOT DATA HAS BEEN RECORDED	No	Record the FREEZE FRAME DATA (Mode 2)/snapshot data			
	Has the FREEZE FRAME DATA (Mode 2)/		on the repair order, then go to the next step.			
	snapshot data been recorded?					
2	VERIFY RELATED SERVICE INFORMATION	Yes				
	AVAILABILITY		Service Information.			
	Verify related Service Information availability.		If the vehicle is not repaired, go to the next step.			
	Is any related Service Information available?	No	Go to the next step.			
3	INSPECT PURGE SOLENOID VALVE	Yes	Repair or replace the connector and/or terminals, then go to			
	CONNECTOR CONDITION		Step 10.			
	Switch the ignition off.	No	Go to the next step.			
	Disconnect the purge solenoid valve connector.					
	Inspect for poor connection (such as damaged/					
	pulled-out pins, corrosion).					
	Is there any malfunction?					
4	INSPECT PURGE SOLENOID VALVE POWER	Yes	Go to the next step.			
	SUPPLY CIRCUIT FOR SHORT TO GROUND OR	No	Inspect the ENGINE2 15 A fuse.			
	OPEN CIRCUIT		If the fuse is blown:			
	Verify that the purge solenoid valve connector is		 Repair or replace the wiring harness for a possible 			
	disconnected.		short to ground.			
	Switch the ignition ON (engine off).		 Replace the fuse. 			
	Measure the voltage at the purge solenoid valve		If the fuse is deteriorated:			
	terminal B (wiring harness-side).		 Replace the fuse. 			
	• Is the voltage B+ ?		If the fuse is normal:			
			Repair or replace the wiring harness for a possible			
			open circuit.			
			Go to Step 10.			

STEP	INSPECTION		ACTION
5	INSPECT PCM CONNECTOR CONDITION	Yes	Repair or replace the connector and/or terminals, then go to
	Switch the ignition off.		Step 10.
	Disconnect the PCM connector.	No	Go to the next step.
	 Inspect for poor connection (such as damaged/ 		
	pulled-out pins, corrosion).		
	Is there any malfunction?		
6	INSPECT PURGE SOLENOID VALVE CONTROL	Yes	Repair or replace the wiring harness for a possible short to
	CIRCUIT FOR SHORT TO GROUND		ground, then go to Step 10.
	Verify that the purge solenoid valve and PCM	No	Go to the next step.
	connectors are disconnected.		·
	Inspect for continuity between purge solenoid		
	valve terminal A (wiring harness-side) and body		
	ground.		
	Is there continuity?		
7	INSPECT PURGE SOLENOID VALVE CONTROL	Yes	Go to the next step.
	CIRCUIT FOR SHORT TO POWER SUPPLY	No	Repair or replace the wiring harness for a possible short to
	Verify that the purge solenoid valve and PCM		power supply, then go to Step 10.
	connectors are disconnected.		
	Switch the ignition ON (engine off).		
	Note		
	Note • Another DTC may be stored by the PCM		
	detecting an open circuit.		
	Measure the voltage at the purge solenoid valve		
	terminal A (wiring harness-side).		
	• Is the voltage 0 V ?		
8	INSPECT PURGE SOLENOID VALVE CONTROL	Yes	Go to the next step.
	CIRCUIT FOR OPEN CIRCUIT	No	Repair or replace the wiring harness for a possible open
	Verify that the purge solenoid valve and PCM		circuit, then go to Step 10.
	connectors are disconnected.		
	Switch the ignition off.		
	Inspect for continuity between purge solenoid		
	valve terminal A (wiring harness-side) and PCM		
	terminal 1AI (wiring harness-side).		
	Is there continuity? INSPECT PURGE SOLENOID VALVE	Vaa	Deplete the purpose level welve they not to the post step
9		Yes	Replace the purge solenoid valve, then go to the next step. (See PURGE SOLENOID VALVE REMOVAL/
	Inspect the purge solenoid valve. (See PURGE SOLENOID VALVE INSPECTION		INSTALLATION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)
	[SKYACTIV-G 2.0, SKYACTIV-G 2.5].)	No	
	• Is there any malfunction?	INU	Go to the next step.
10	VERIFY DTC TROUBLESHOOTING	Yes	Repeat the inspection from Step 1.
'	COMPLETED	. 00	• If the malfunction recurs, replace the PCM.
	Always reconnect all disconnected connectors.		(See PCM REMOVAL/INSTALLATION [SKYACTIV-G 2.0,
	Clear the DTC from the PCM memory using the		SKYACTIV-G 2.5].)
	M-MDS.		Go to the next step.
	(See AFTER REPAIR PROCEDURE	No	Go to the next step.
	[SKYACTIV-G 2.0, SKYACTIV-G 2.5].)		
	Start the engine.		
	Perform the KOER self test.		
	(See KOEO/KOER SELF TEST [SKYACTIV-G		
	2.0, SKYACTIV-G 2.5].)		
	• Is the PENDING CODE for this DTC present?		0 4 11 11 11 11 11 11
11	VERIFY AFTER REPAIR PROCEDURE	Yes	Go to the applicable DTC inspection.
	• Perform the "AFTER REPAIR PROCEDURE".		(See DTC TABLE [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)
	(See AFTER REPAIR PROCEDURE	No	DTC troubleshooting completed.
	[SKYACTIV-G 2.0, SKYACTIV-G 2.5].)		
	Are any DTCs present?		