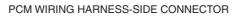
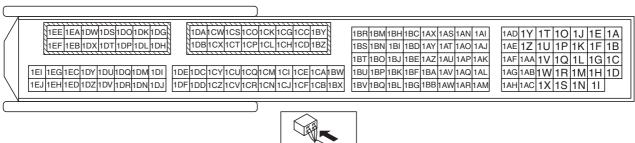
DTC P0443:00	Purge solenoid valve circuit problem					
DETECTION CONDITION	Diagnostic support noto					
FAIL-SAFE FUNCTION	——————————————————————————————————————					
POSSIBLE CAUSE	 Purge solenoid valve connector or terminals malfunction Short to ground or open circuit in purge solenoid valve power 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 Short to ground in wiring harness between purge solenoid valve terminal A and PCM terminal 1AI PCM connector or terminals malfunction 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 					
MAIN RELAY TERMINAL C	DCM					





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)/	INO	on the repair order, then go to the next step.
	snapshot data been recorded?		on the repair order, then go to the next step.
2	VERIFY RELATED SERVICE INFORMATION	Yes	Perform repair or diagnosis according to the available
_	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 to 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	·
	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 or on).		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.
5	INSPECT BURGE SOLENOID VALVE CONTROL	Voo	Go to Step 10.
) 5	INSPECT PURGE SOLENOID VALVE CONTROL CIRCUIT FOR SHORT TO GROUND	Yes	If the short to ground circuit could be detected in the wiring harness:
	Verify that the purge solenoid valve connector is		Repair or replace the wiring harness for a possible short to
	disconnected.		ground.
	Switch the ignition to off.		If the short to ground circuit could not be detected in the
	Inspect for continuity between purge solenoid		wiring harness:
	valve terminal A (wiring harness-side) and body		Replace the PCM (short to ground in the PCM internal
	ground.		circuit).
	Is there continuity?		(See PCM REMOVAL/INSTALLATION [SKYACTIV-G
			2.0].)
			Go to Step 10.
		No	Go to the next step.
6	INSPECT PCM CONNECTOR CONDITION	Yes	Repair or replace the connector and/or terminals, then go to
	Disconnect the PCM connector.		Step 10.
	• Inspect for poor connection (such as damaged/	No	Go to the next step.
	pulled-out pins, corrosion).		
7	• Is there any malfunction? INSPECT PURGE SOLENOID VALVE CONTROL	Vec	Go to the next sten
'	CIRCUIT FOR SHORT TO POWER SUPPLY	Yes No	Go to the next step. Repair or replace the wiring harness for a possible short to
	Verify that the purge solenoid valve and PCM	INU	power supply, then go to Step 10.
	connectors are disconnected.		power suppry, then go to step 10.
	Switch the ignition ON (engine off or on).		
	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.		
	Inspect for continuity between purge solenoid		
	valve terminal A (wiring harness-side) and PCM		
	terminal 1AI (wiring harness-side).		
	Is there continuity?		

STEP	INSPECTION	ACTION	
			1121121
9	INSPECT PURGE SOLENOID VALVE	Yes	-,
	 Inspect the purge solenoid valve. 		(See PURGE SOLENOID VALVE REMOVAL/
	(See PURGE SOLENOID VALVE INSPECTION		INSTALLATION [SKYACTIV-G 2.0].)
	[SKYACTIV-G 2.0].)	No	Go to the next step.
	Is there any malfunction?		
10	VERIFY DTC TROUBLESHOOTING	Yes	Repeat the inspection from Step 1.
	COMPLETED		If the malfunction recurs, replace the PCM.
	Make sure to reconnect all disconnected		(See PCM REMOVAL/INSTALLATION [SKYACTIV-G
	connectors.		2.0].)
	Clear the DTC from the PCM memory using the		Go to the next step.
	M-MDS.	No	Go to the next step.
	(See AFTER REPAIR PROCEDURE		·
	[SKYACTIV-G 2.0].)		
	Start the engine.		
	Perform the KOER self test.		
	(See KOEO/KOER SELF TEST [SKYACTIV-G		
	2.0].)		
	Is the PENDING CODE for this DTC present?		
11	VERIFY AFTER REPAIR PROCEDURE	Yes	Go to the applicable DTC inspection.
	 Perform the "AFTER REPAIR PROCEDURE". 		(See DTC TABLE [SKYACTIV-G 2.0].)
	(See AFTER REPAIR PROCEDURE	No	DTC troubleshooting completed.
	[SKYACTIV-G 2.0].)		
	Are any DTCs present?		