DTC P0628:00 [SKYACTIV-G 2.0]

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DTC P0628:00			
DETECTION CONDITION	 When the PCM outputs a duty signal to the fuel pump control module, the difference in voltage between fuel pump unit terminals B and D is less than 1.5 V for a continuous 5 s. Diagnostic support note This is a continuous monitor (CCM). The check engine light illuminates if the PCM detects the above malfunction condition during the first drive cycle. FREEZE FRAME DATA (Mode 2)/Snapshot data is available. The DTC is stored in the PCM memory. 		
FAIL-SAFE FUNCTION	_		
POSSIBLE CAUSE	 Fuel pump unit connector or terminals malfunction Fuel pump unit malfunction Fuel pump control module connector or terminals malfunction Short to ground in wiring harness between fuel pump unit terminal A and fuel pump control module terminal 2C Open circuit in wiring harness between the following terminals: — Fuel pump unit terminal A—Fuel pump control module terminal 2C Fuel pump unit terminal B—Fuel pump control module terminal 2D Fuel pump control module malfunction PCM malfunction 		
	FUEL PUMP RELAY TERMINAL C FUEL PUMP UNIT	(2A) (2C) (3) (4) (2D)	
		UEL PUMP CONTROL MODULE WIRING HARNESS-SIDE CONNECTOR	
	D C B A	2D 2C 2B 2A	

Diagnostic Procedure

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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	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.	

STEP	INSPECTION		ACTION
3	INSPECT FUEL PUMP UNIT CONNECTOR	Yes	Repair or replace the connector and/or terminals, then go to
	CONDITION		Step 9.
	Switch the ignition to off.	No	Go to the next step.
	Disconnect the fuel pump unit connector.		
	Inspect for poor connection (such as damaged/		
	pulled-out pins, corrosion).		
	Is there any malfunction?		
4	INSPECT FUEL PUMP UNIT	Yes	Replace the fuel pump unit, then go to Step 9.
	Inspect the fuel pump unit.		(See FUEL PUMP UNIT REMOVAL/INSTALLATION
	(See FUEL PUMP UNIT INSPECTION		[SKYACTIV-G 2.0].)
	[SKYACTIV-G 2.0].)	No	Go to the next step.
	• Is there any malfunction?	.,	
5	INSPECT FUEL PUMP CONTROL MODULE CONNECTOR CONDITION	Yes	Repair or replace the connector and/or terminals, then go to Step 9.
	Disconnect the fuel pump control module	No	Go to the next step.
	connector.		
	Inspect for poor connection (such as damaged/		
	pulled-out pins, corrosion).		
L	Is there any malfunction?	L	
6	INSPECT FUEL PUMP UNIT CONTROL CIRCUIT	Yes	Repair or replace the wiring harness for a possible short to
	FOR SHORT TO GROUND		ground, then go to Step 9.
	Verify that the fuel pump unit and fuel pump	No	Go to the next step.
	control module connectors are disconnected.		
	Inspect for continuity between fuel pump unit		
	terminal A (wiring harness-side) and body ground.		
<u> </u>	• Is there continuity?	.,	
7	INSPECT FUEL PUMP UNIT CIRCUIT FOR OPEN CIRCUIT	Yes	Go to the next step.
	Verify that the fuel pump unit and fuel pump	No	Repair or replace the wiring harness for a possible open circuit, then go to Step 9.
	control module connectors are disconnected.		circuit, then go to Step 9.
	Inspect for continuity between the following		
	terminals (wiring harness-side):		
	Fuel pump unit terminal A—Fuel pump		
	control module terminal 2C		
	Fuel pump unit terminal B—Fuel pump		
	control module terminal 2D		
	Is there continuity?		
8	INSPECT FUEL PUMP CONTROL MODULE	Yes	Replace the fuel pump control module, then go to the next
	Inspect the fuel pump control module.		step.
	(See FUEL PUMP CONTROL MODULE		(See FUEL PUMP CONTROL MODULE REMOVAL/
	INSPECTION [SKYACTIV-G 2.0].)		INSTALLATION [SKYACTIV-G 2.0].)
	Is there any malfunction?	No	Go to the next step.
9	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].) • Perform the KOEO or KOER self test.		
	(See KOEO/KOER SELF TEST [SKYACTIV-G 2.0].)		
	• Is the same DTC present?		
10	VERIFY AFTER REPAIR PROCEDURE	Yes	Go to the applicable DTC inspection.
'0	• Perform the "AFTER REPAIR PROCEDURE".	103	(See DTC TABLE [SKYACTIV-G 2.0].)
	(See AFTER REPAIR PROCEDURE	No	DTC troubleshooting completed.
	[SKYACTIV-G 2.0].)	'10	5 . 5 % odbiodriodding ddinpiotod.
	• Are any DTCs present?		
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