DTC P0555:00 [SKYACTIV-D 2.2]

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DTC P0555:00	Power brake unit vacuum sensor circuit problem						
DETECTION	The PCM monitors the power brake unit vacuum sensor signal voltage while the ignition switch is ON. If the PCM detects the power brake unit vacuum sensor voltage is below 0.15 V or above 4.8 V , the PCM determines that the power brake unit vacuum sensor circuit has problem. Diagnostic support note This is a continuous monitor (other). The check engine light does not illuminate. FREEZE FRAME DATA (Mode 2)/Snapshot data is not available. DTC is stored in the PCM memory.						
FAIL-SAFE FUNCTION	Inhibits engine-stop by operating the i-stop function.						
POSSIBLE CAUSE	 Power brake unit vacuum sensor connector or terminals malfunction Short to ground in wiring harness between the following terminals: Power brake unit vacuum sensor terminal C—PCM terminal 2BB Power brake unit vacuum sensor terminal B—PCM terminal 2BC PCM connector or terminals malfunction Short to power supply in wiring harness between power brake unit vacuum sensor terminal B and PCM terminal 2BC Power brake unit vacuum sensor circuits are shorted to each other Open circuit in wiring harness between the following terminals: Power brake unit vacuum sensor terminal C—PCM terminal 2BB Power brake unit vacuum sensor terminal B—PCM terminal 2BC Power brake unit vacuum sensor terminal A—PCM terminal 2BD Power brake unit vacuum sensor malfunction PCM malfunction 						
	9 PCM						
POWER E	BRAKE UNIT VACUUM SENSOR						
	(2BB) (3) (4) (6) (7) (8) (5) (2BC) (A) (7) (8) (5) (2BC) (A) (2BD)						
_	BRAKE UNIT VACUUM SENSOR PCM WIRING HARNESS-SIDE CONNECTOR VIRING HARNESS-SIDE						
	CONNECTOR 2BE 2AZ 2AU 2AP 2AK 2BF 2BA 2AV 2AQ 2AL 2BG 2BB 2AW 2AR 2AM 2BH 2BC 2AX 2AS 2AN 2BD 2AY 2AT 2AO 2AE 2AA 2W 2S 2O 2K 2G 2C 2AF 2AB 2X 2T 2P 2L 2H 2D 2AF 2AB 2X 2T 2P 2L 2H 2D 2AF 2AB 2AB 2AB 2B						

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?					

STEP	INSPECTION		ACTION
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 POWER BRAKE UNIT VACUUM SENSOR CONNECTOR CONDITION	Yes	Repair or replace the connector and/or terminals, then go to Step 10.
	Switch the ignition off.Disconnect the power brake unit vacuum sensor	No	Go to the next step.
	connector. Inspect for poor connection (such as damaged/		
	pulled-out pins, corrosion). • Is there any malfunction?		
4	INSPECT POWER BRAKE UNIT VACUUM SENSOR CIRCUIT FOR SHORT TO GROUND	Yes	If the short to ground circuit could be detected in the wiring harness:
	 Verify that the power brake unit vacuum sensor connector is disconnected. 		Repair or replace the wiring harness for a possible short to ground.
	 Inspect for continuity between the following terminals (wiring harness-side) and body ground: 		If the short to ground circuit could not be detected in the wiring harness:
	 Power brake unit vacuum sensor terminal C 		Replace the PCM (short to ground in the PCM internal
	Power brake unit vacuum sensor terminal BIs there continuity?		circuit). (See PCM REMOVAL/INSTALLATION [SKYACTIV-D
			2.2].) Go to Step 10.
		No	Go to the next step.
5	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/ pulled out pine correction)	No	Go to the next step.
	pulled-out pins, corrosion). Is there any malfunction?		
6	INSPECT POWER BRAKE UNIT VACUUM	Yes	Go to the next step.
	SENSOR SIGNAL CIRCUIT FOR SHORT TO	No	Repair or replace the wiring harness for a possible short to
	POWER SUPPLY		power supply, then go to Step 10.
	Verify that the power brake unit vacuum sensor		
	and PCM connectors are disconnected.		
	Switch the ignition ON (engine off).		
	 Measure the voltage at the power brake unit vacuum sensor terminal B (wiring harness-side). 		
	• Is the voltage 0 V ?		
7	INSPECT POWER BRAKE UNIT VACUUM	Yes	Repair or replace the wiring harness for a possible short to
	SENSOR CIRCUITS FOR SHORT TO EACH		each other, then go to Step 10.
	OTHER	No	Go to the next step.
	Verify that the power brake unit vacuum sensor		
	and PCM connectors are disconnected. • Switch the ignition off.		
	Inspect for continuity between power brake unit		
	vacuum sensor terminals C, B and A (wiring		
	harness-side).		
	Is there continuity?		
8	INSPECT POWER BRAKE UNIT VACUUM	Yes	Go to the next step.
	SENSOR CIRCUIT FOR OPEN CIRCUIT • Verify that the power brake unit vacuum sensor	No	Repair or replace the wiring harness for a possible open circuit, then go to Step 10.
	and PCM connectors are disconnected.		onean, men go to otep 10.
	Inspect for continuity between the following		
	terminals (wiring harness-side):		
	Power brake unit vacuum sensor terminal C—PCM terminal 2BB		
	Power brake unit vacuum sensor terminal B—PCM terminal 2BC		
	Power brake unit vacuum sensor terminal A —PCM terminal 2BD		
	Is there continuity?		
	•		

STEP	INSPECTION		ACTION		
9	INSPECT POWER BRAKE UNIT VACUUM	Yes	Replace the power brake unit vacuum sensor, then go to the		
	SENSOR		next step.		
	Reconnect all disconnected connectors.		(See POWER BRAKE UNIT VACUUM SENSOR		
	Inspect the power brake unit vacuum sensor.		REMOVAL/INSTALLATION.)		
	(See POWER BRAKE UNIT VACUUM SENSOR	No	Go to the next step.		
	INSPECTION [SKYACTIV-D 2.2].)		'		
	Is there any malfunction?				
10	VERIFY DTC TROUBLESHOOTING	Yes	Repeat the inspection from Step 1.		
	COMPLETED		If the malfunction recurs, replace the PCM.		
	Always reconnect all disconnected connectors.		(See PCM REMOVAL/INSTALLATION [SKYACTIV-D		
	Clear the DTC from the PCM memory using the		2.2].)		
	M-MDS.		Go to the next step.		
	(See AFTER REPAIR PROCEDURE	No	Go to the next step.		
	[SKYACTIV-D 2.2].)				
	Perform the KOER self test.				
	(See KOEO/KOER SELF TEST [SKYACTIV-D				
	2.2].)				
	Is the same DTC present?				
11	VERIFY AFTER REPAIR PROCEDURE	Yes	Go to the applicable DTC inspection.		
	Perform the "AFTER REPAIR PROCEDURE".		(See DTC TABLE [SKYACTIV-D 2.2].)		
	(See AFTER REPAIR PROCEDURE	No	DTC troubleshooting completed.		
	[SKYACTIV-D 2.2].)		-		
	Are any DTCs present?				