DTC P0471:00	Exhaust gas pressure sensor No.1 circuit range/performance problem
DETECTION CONDITION	 The following conditions remain for a continuous specified time when the battery voltage is 8 V or more: Difference between barometric pressure and exhaust gas pressure: Specified value (kPa {kgf/cm², psi}) or more Difference between air charging pressure and exhaust gas pressure: Specified value (kPa {kgf/cm², psi}) or more Difference between manifold absolute pressure and exhaust gas pressure: Specified value (kPa {kgf/cm², psi}) or more 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. Inhibits the EGR control.
FAIL-SAFE FUNCTION	 Inhibits engine-stop by operating the i-stop function. PCM restricts engine-transaxle integration control.
POSSIBLE CAUSE	Exhaust gas pressure sensor No.1 connector or terminals malfunction PCM connector or terminals malfunction Exhaust gas pressure sensor No.1 malfunction PCM malfunction
SYSTEM WIRING DIAGRAM	Not applicable

Diagnostic Procedure

Diagno	ostic 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	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 EXHAUST GAS PRESSURE SENSOR	Yes	Repair or replace the connector and/or terminals, then go to
	NO.1 CONNECTOR CONDITION		Step 6.
	Switch the ignition off.	No	Go to the next step.
	Disconnect the exhaust gas pressure sensor No.		
	1 connector.		
	Inspect for poor connection (such as damaged/		
	pulled-out pins, corrosion).		
	Is there any malfunction?		
4	INSPECT PCM CONNECTOR CONDITION	Yes	Repair or replace the connector and/or terminals, then go to
	Disconnect the PCM connector.		Step 6.
	Inspect for poor connection (such as damaged/	No	Go to the next step.
	pulled-out pins, corrosion).		
	• Is there any malfunction?		D. L. H.
5	INSPECT EXHAUST GAS PRESSURE SENSOR	Yes	Replace the exhaust gas pressure sensor No.1, then go to
	NO.1		the next step.
	Reconnect all disconnected connectors. Inspect the exhaust gas pressure sensor No. 1.		(See EXHAUST GAS PRESSURE SENSOR REMOVAL/
	• Inspect the exhaust gas pressure sensor No.1.	No	INSTALLATION [SKYACTIV-D 2.2].)
	(See EXHAUST GAS PRESSURE SENSOR INSPECTION [SKYACTIV-D 2.2].)	No	Go to the next step.
	Is there any malfunction?		

STEP	INSPECTION		ACTION
6	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].)		
	Start the engine and let it idle.		
	• Switch the ignition off and wait for 10 s .		
	Perform the Pending Trouble Code Access		
	Procedure.		
	(See ON-BOARD DIAGNOSTIC TEST		
	[SKYACTIV-D 2.2].)		
	• Is the PENDING CODE for this DTC present?		
7	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?		