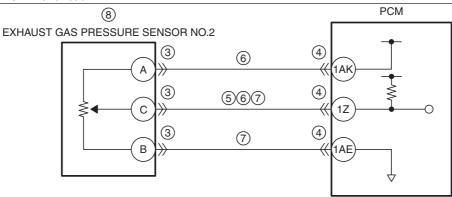
DTC P2455:00	Exhaust gas pressure sensor No.2 circuit high input
	• If the input voltage at the PCM terminal 1Z is more than 4.81 V for 30 s , the PCM determines that the exhaust
	gas pressure sensor No.2 circuit has a malfunction.
	MONITORING CONDITIONS
	— Battery voltage: 8—20 V
DETECTION	
CONDITION	• 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.
	DTC is stored in the PCM memory.
	PCM restricts engine torque.
FAIL-SAFE	Inhibits the EGR control.
FUNCTION	Inhibits the diesel particulate filter regeneration control.
1 Onto Hon	Inhibits engine-stop by operating the i-stop function.
	PCM restricts engine-transaxle integration control.
	Exhaust gas pressure sensor No.2 connector or terminals malfunction
	PCM connector or terminals malfunction
	• Short to power supply in wiring harness between exhaust gas pressure sensor No.2 terminal C and PCM
	terminal 1Z
POSSIBLE	• Exhaust gas pressure sensor No.2 power supply circuit and signal circuit are shorted to each other
CAUSE	Open circuit in wiring harness between the following terminals:
	Exhaust gas pressure sensor No.2 terminal C—PCM terminal 1Z
	Exhaust gas pressure sensor No.2 terminal B—PCM terminal 1AE
	Exhaust gas pressure sensor No.2 malfunction
	PCM malfunction



EXHAUST GAS PRESSURE SENSOR NO.2 WIRING HARNESS-SIDE CONNECTOR







Diagnostic Procedure

STEP	INSPECTION		ACTION
1	VERIFY FREEZE FRAME DATA (MODE 2)/SNAPSHOT DATA HAS	Yes	Go to the next step.
'	BEEN RECORDED	No	Record the FREEZE FRAME DATA
	Has the FREEZE FRAME DATA (Mode 2)/snapshot data been	INO	(Mode 2)/snapshot data on the repair
	recorded?		
	VERIFY RELATED SERVICE INFORMATION AVAILABILITY	V	order, then go to the next step.
2		Yes	Perform repair or diagnosis according to
	Verify related Service Information availability.		the available Service Information.
	Is any related Service Information available?		If the vehicle is not repaired, go to the
			next step.
		No	Go to the next step.
3	INSPECT EXHAUST GAS PRESSURE SENSOR NO.2	Yes	Repair or replace the connector and/or
	CONNECTOR CONDITION	N	terminals, then go to Step 9.
	• Switch the ignition off.	No	Go to the next step.
	Disconnect the exhaust gas pressure sensor No.2 connector. The ground for the exhaust gas pressure sensor No.2 connector. The ground for the exhaust gas pressure sensor No.2 connector. The ground for the exhaust gas pressure sensor No.2 connector.		
	Inspect for poor connection (such as damaged/pulled-out pins,		
	corrosion).		
	• Is there any malfunction?	V	Danaia an andra de a constant andra
4	INSPECT PCM CONNECTOR CONDITION	Yes	Repair or replace the connector and/or
	Disconnect the PCM connector.		terminals, then go to Step 9.
	• Inspect for poor connection (such as damaged/pulled-out pins,	No	Go to the next step.
	corrosion).		
	• Is there any malfunction?	V- ·	Co to the most -t
5	INSPECT EXHAUST GAS PRESSURE SENSOR NO.2 CIRCUIT	Yes	Go to the next step.
	FOR SHORT TO POWER SUPPLY	No	Repair or replace the wiring harness for
	Verify that the exhaust gas pressure sensor No.2 and PCM		a possible short to power supply, then go
	connectors are disconnected.		to Step 9.
	Switch the ignition ON (engine off).		
	Measure the voltage at the exhaust gas pressure sensor No.2		
	terminal C (wiring harness-side).		
6	Is the voltage 0 V? INSPECT EXHAUST GAS PRESSURE SENSOR NO.2 POWER	Voo	Danair or raplace the wiring barness for
6	SUPPLY CIRCUIT AND SIGNAL CIRCUIT FOR SHORT TO EACH	Yes	Repair or replace the wiring harness for
	OTHER		a possible short to each other, then go to Step 9.
	Verify that the exhaust gas pressure sensor No.2 and PCM	No	Go to the next step.
	connectors are disconnected.	INO	Go to the next step.
	Switch the ignition off.		
	Inspect for continuity between exhaust gas pressure sensor No.2		
	terminals A and C (wiring harness-side).		
	• Is there continuity?		
7	INSPECT EXHAUST GAS PRESSURE SENSOR NO.2 CIRCUIT	Yes	Go to the next step.
'	FOR OPEN CIRCUIT	No	Repair or replace the wiring harness for
	Verify that the exhaust gas pressure sensor No.2 and PCM	INO	a possible open circuit, then go to Step
	connectors are disconnected.		9.
	Inspect for continuity between the following terminals (wiring harness-		9.
	side):		
	Exhaust gas pressure sensor No.2 terminal C—PCM terminal 1Z		
	Exhaust gas pressure sensor No.2 terminal B—PCM terminal Exhaust gas pressure sensor No.2 terminal B—PCM terminal		
	1AE		
	• Is there continuity?		
8	INSPECT EXHAUST GAS PRESSURE SENSOR NO.2	Yes	Replace the exhaust gas pressure
	Reconnect all disconnected connectors.		sensor No.2, then go to the next step.
	Inspect the exhaust gas pressure sensor No.2.		(See EXHAUST GAS PRESSURE
	(See EXHAUST GAS PRESSURE SENSOR INSPECTION		SENSOR REMOVAL/INSTALLATION
	[SKYACTIV-D 2.2].)		[SKYACTIV-D 2.2].)
	• Is there any malfunction?	No	Go to the next step.
9	VERIFY DTC TROUBLESHOOTING COMPLETED	Yes	Repeat the inspection from Step 1.
9	Always reconnect all disconnected connectors.	168	• If the malfunction recurs, replace the
	Clear the DTC from the PCM memory using the M-MDS.		PCM.
	(See AFTER REPAIR PROCEDURE [SKYACTIV-D 2.2].)		(See PCM REMOVAL/INSTALLATION
	Perform the KOEO or KOER self test.		[SKYACTIV-D 2.2].)
	(See KOEO/KOER SELF TEST [SKYACTIV-D 2.2].)		Go to the next step.
	• Is the same DTC present?	No	Go to the next step.
	is the same DTO present:	INU	טט נט נוופ וופגנ אנפף.

STEP	INSPECTION		ACTION
10	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 [SKYACTIV-D 2.2].)	No	DTC troubleshooting completed.
	Are any DTCs present?		