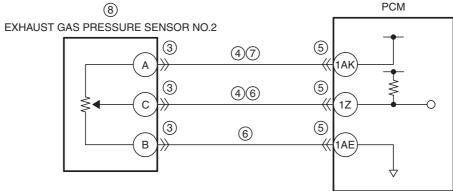
DTC P2454:00	Exhaust gas pressure sensor No.2 circuit low input
	• If the input voltage at the PCM terminal 1Z is less than 0.52 V for 30 s, the PCM determines that the exhaust
	gas pressure sensor No.2 circuit has a malfunction.
	MONITORING CONDITIONS
	— Battery voltage: 8—20 V
DETECTION	Diagnostic support note
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.
FUNCTION	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
	Short to ground in wiring harness between the following terminals:
	 Exhaust gas pressure sensor No.2 terminal A—PCM terminal 1AK
POSSIBLE	 Exhaust gas pressure sensor No.2 terminal C—PCM terminal 1Z
CAUSE	PCM connector or terminals malfunction
CAUSE	Exhaust gas pressure sensor No.2 signal circuit and ground circuit are shorted to each other
	• Open circuit in wiring harness between Exhaust gas pressure sensor No.2 terminal A and PCM terminal 1AK
	Exhaust gas pressure sensor No.2 malfunction
	• PCM malfunction
	© PCM



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



PCM WIRING HARNESS-SIDE CONNECTOR

/		1EE	1E <i>A</i>	1DV 1DX	/1DS	1DC	1DK	1DG		N-	1DB	1CX	1CT	1CP	1CL	1CH		1BY 1BZ	N	\vdash	+	\rightarrow	\rightarrow	_		_	_	1AI 1AJ	_	D 1		1T 1U	10 1P	_	1E 1F	1A 1B
\	ı ⊢—	-		-	-		-	1 1DI 1 1DJ	l ⊢	\rightarrow		-			_	_	_	1CA 1CB	-	1BI	J 1E	BP 1	1BK	1BF	1BA	1AV	1AQ	1AK 1AL 1AM	1A	G 1,	АВ 1	W	$\overline{}$	1M		_

Diagnostic Procedure

STEP	INSPECTION		ACTION
1	VERIFY FREEZE FRAME DATA (MODE 2)/	Yes	Go to the next step.
·	• Has the FREEZE FRAME DATA (Mode 2)/	No	Record the FREEZE FRAME DATA (Mode 2)/snapshot data on the repair order, then go to the next step.
2	snapshot data been recorded? VERIFY RELATED SERVICE INFORMATION AVAILABILITY	Yes	Perform repair or diagnosis according to the available 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 NO.2 CONNECTOR CONDITION	Yes	Repair or replace the connector and/or terminals, then go to Step 9.
	 Switch the ignition off. Disconnect the exhaust gas pressure sensor No. 2 connector. Inspect for poor connection (such as damaged/pulled-out pins, corrosion). Is there any malfunction? 	No	Go to the next step.
4	INSPECT EXHAUST GAS PRESSURE SENSOR NO.2 CIRCUIT FOR SHORT TO GROUND • Verify that the exhaust gas pressure sensor No.2 connector is disconnected. • Inspect for continuity between the following terminals (wiring harness-side) and body ground: — Exhaust gas pressure sensor No.2 terminal A — Exhaust gas pressure sensor No.2 terminal C • Is there continuity?	Yes	If the short to ground circuit could be detected in the wiring harness: Repair or replace the wiring harness for a possible short to ground. If the short to ground circuit could not be detected in the wiring harness: Replace the PCM (short to ground in the PCM internal circuit). (See PCM REMOVAL/INSTALLATION [SKYACTIV-D 2.2].) Go to Step 9.
		No	Go to the next step.
5	INSPECT PCM CONNECTOR CONDITION Disconnect the PCM connector. Inspect for poor connection (cuch as demand).	Yes	Repair or replace the connector and/or terminals, then go to Step 9.
	 Inspect for poor connection (such as damaged/pulled-out pins, corrosion). Is there any malfunction? 	No	Go to the next step.
6	INSPECT EXHAUST GAS PRESSURE SENSOR NO.2 SIGNAL CIRCUIT AND GROUND CIRCUIT	Yes	Repair or replace the wiring harness for a possible short to each other, then go to Step 9.
	 FOR SHORT TO EACH OTHER Verify that the exhaust gas pressure sensor No.2 and PCM connectors are disconnected. Inspect for continuity between exhaust gas pressure sensor No.2 terminals C and B (wiring harness-side). Is there continuity? 	No	Go to the next step.
7	INSPECT EXHAUST GAS PRESSURE SENSOR	Yes	
	 NO.2 CIRCUIT FOR OPEN CIRCUIT Verify that the exhaust gas pressure sensor No.2 and PCM connectors are disconnected. Inspect for continuity between exhaust gas pressure sensor No.2 terminal A (wiring harness-side) and PCM terminal 1AK (wiring harness-side). Is there continuity? 	No	Repair or replace the wiring harness for a possible open circuit, then go to Step 9.
8	INSPECT EXHAUST GAS PRESSURE SENSOR NO.2 Reconnect all disconnected connectors. Inspect the exhaust gas pressure sensor No.2.	Yes	Replace the exhaust gas pressure sensor No.2, then go to the next step. (See EXHAUST GAS PRESSURE SENSOR REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
	(See EXHAUST GAS PRESSURE SENSOR INSPECTION [SKYACTIV-D 2.2].) • Is there any malfunction?	No	Go to the next step.

STEP	INSPECTION		ACTION
9	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 KOEO or KOER self test.		
	(See KOEO/KOER SELF TEST [SKYACTIV-D		
	2.2].)		
	Is the same DTC present?		
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	No	DTC troubleshooting completed.
	[SKYACTIV-D 2.2].)		
	Are any DTCs present?		