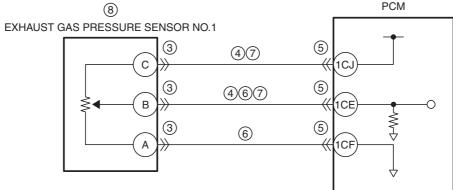
DTC P0472:00	Exhaust gas pressure sensor No.1 circuit low input			
	 If the input voltage at the PCM terminal 1CE is less than 0.33 V for 4 s, the PCM determines that the exhaust gas pressure sensor No.1 circuit has a malfunction. MONITORING CONDITIONS 			
DETECTION CONDITION	 Battery voltage: 8—20 V 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. DTC is stored in the PCM memory. 			
FAIL-SAFE FUNCTION	• Inhibits the EGR control.			
POSSIBLE CAUSE	Exhaust gas pressure sensor No.1 connector or terminals malfunction Short to ground in wiring harness between the following terminals: Exhaust gas pressure sensor No.1 terminal C—PCM terminal 1CJ Exhaust gas pressure sensor No.1 terminal B—PCM terminal 1CE PCM connector or terminals malfunction Exhaust gas pressure sensor No.1 signal circuit and ground circuit are shorted to each other Open circuit in wiring harness between the following terminals: Exhaust gas pressure sensor No.1 terminal C—PCM terminal 1CJ Exhaust gas pressure sensor No.1 terminal B—PCM terminal 1CE Exhaust gas pressure sensor No.1 malfunction PCM malfunction			
	8 PCM			



EXHAUST GAS PRESSURE SENSOR NO.1 WIRING HARNESS-SIDE CONNECTOR



PCM WIRING HARNESS-SIDE CONNECTOR

-		,						
/	/	***************************************						
′	/ 	1BR1BM1BH1BC1AX1AS1AN1AI	1AD 1Y 1T 1O 1J 1E 1A					
		1CL 1CH 1CD 1BZ 1BN 1BI 1BD 1AY 1AT 1AO 1AJ	1AE 1Z 1U 1P 1K 1F 1B					
1BT 1BO 1BJ 1BE 1AZ 1AU 1AP 1AK								
	1EI 1EG 1EC 1DY 1DU 1DQ 1DM 1DI 1DE 1DC 1CY 1CU 1C	1CM 1CI 1CE 1CA BW 1BU 1BP 1BK 1BF 1BA 1AV 1AQ 1AL	1AG 1AB 1W 1R 1M 1H 1D					
	1EJ 1EH 1ED 1DZ 1DV 1DR 1DN 1DJ 1DF 1DD 1CZ 1CV 1C	1CN 1CJ 1CF 1CB 1BX 1BV 1BQ 1BL 1BG 1BB 1AW 1AR 1AM	1AH 1AC 1X 1S 1N 1I					
١	<u> </u>							



Diagnostic Procedure

	Diagnostic 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 9.		
	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 EXHAUST GAS PRESSURE SENSOR	Yes	If the short to ground circuit could be detected in the wiring		
-	NO.1 CIRCUIT FOR SHORT TO GROUND	163	harness:		
	Verify that the exhaust gas pressure sensor No.1		Repair or replace the wiring harness for a possible short to		
	connector is disconnected.		· · · · · · · · · · · · · · · · · · ·		
			ground. If the short to ground circuit could not be detected in the		
	 Inspect for continuity between the following terminals (wiring harness-side) and body ground: 				
	, , , , , , , , , , , , , , , , , , , ,		wiring harness:		
	Exhaust gas pressure sensor No.1 terminal C Exhaust gas pressure sensor No.1 terminal R		• Replace the PCM (short to ground in the PCM internal		
	Exhaust gas pressure sensor No.1 terminal B		Circuit).		
	Is there continuity?		(See PCM REMOVAL/INSTALLATION [SKYACTIV-D		
			2.2].)		
		N. I.	Go to Step 9.		
	INCREAT BOW CONNECTOR CONDITION	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 9.		
	• Inspect for poor connection (such as damaged/	No	Go to the next step.		
	pulled-out pins, corrosion).				
	• Is there any malfunction?	\/	Denois an analysis the minimum homeon for a constitute should be		
6	INSPECT EXHAUST GAS PRESSURE SENSOR NO.1 SIGNAL CIRCUIT AND GROUND CIRCUIT	Yes	Repair or replace the wiring harness for a possible short to		
		NI-	each other, then go to Step 9.		
	FOR SHORT TO EACH OTHER	No	Go to the next step.		
	Verify that the exhaust gas pressure sensor No.1 and DCM connectors are disconnected.				
	and PCM connectors are disconnected.				
	Inspect for continuity between exhaust gas				
	pressure sensor No.1 terminals B and A (wiring				
	harness-side).				
7	• Is there continuity? INSPECT EXHAUST GAS PRESSURE SENSOR	Vac	Co to the payt aton		
7	NO.1 CIRCUIT FOR OPEN CIRCUIT	Yes	Go to the next step.		
		No	Repair or replace the wiring harness for a possible open		
	 Verify that the exhaust gas pressure sensor No.1 and PCM connectors are disconnected. 		circuit, then go to Step 9.		
	Inspect for continuity between the following terminals (wiring harmons side):				
	terminals (wiring harness-side):				
	Exhaust gas pressure sensor No.1 terminal C Contact and the contact				
	—PCM terminal 1CJ				
	Exhaust gas pressure sensor No.1 terminal B BOM terminal 4.65				
	—PCM terminal 1CE				
	• Is there continuity?		D. L. G.		
8	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.		(See EXHAUST GAS PRESSURE SENSOR REMOVAL/		
	• Inspect the exhaust gas pressure sensor No.1.		INSTALLATION [SKYACTIV-D 2.2].)		
	(See EXHAUST GAS PRESSURE SENSOR	No	Go to the next step.		
	INSPECTION [SKYACTIV-D 2.2].)				
	Is there any malfunction?				

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?		