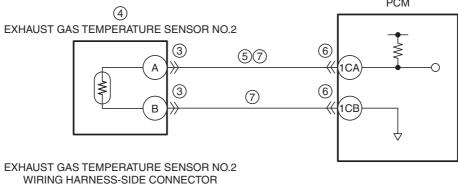
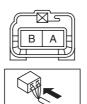
DTC P2032:00 [SKYACTIV-D 2.2]

id0102s4150300

DTC P2032:00	Exhaust gas temperature sensor No.2 circuit low input
DETECTION CONDITION	 The PCM monitors the exhaust gas temperature sensor No.2 signal. If the PCM detects that the exhaust gas temperature sensor No.2 voltage at the PCM terminal 1CA is below 0.24 V for 1 s, the PCM determines that the exhaust gas temperature sensor No.2 circuit has a malfunction. MONITORING CONDITIONS — 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	 PCM restricts engine torque. Inhibits the EGR control. Inhibits the diesel particulate filter regeneration control. The fast idle up correction for the idle speed control is inhibited. Inhibits engine-stop by operating the i-stop function. PCM restricts engine-transaxle integration control.
POSSIBLE CAUSE	 Exhaust gas temperature sensor No.2 connector or terminals malfunction Exhaust gas temperature sensor No.2 malfunction Short to ground in wiring harness between exhaust gas temperature sensor No.2 terminal A and PCM terminal 1CA PCM connector or terminals malfunction Exhaust gas temperature sensor No.2 signal circuit and ground circuit are shorted to each other PCM malfunction
	PCM





PCM WIRING HARNESS-SIDE CONNECTOR

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1		1EE	1E/	AIDV	/1DS	1D0	1DK	1DG		1DA	1CW	1CS	1CO	1CK	1CG	1CC	1BY	H	18	3R 1	ВМ	1BH	1BC	1AX	1AS	1AN	1AI	1AI	1Y	1T	10	1J	1E	1A
								1DH	I N		-		-		1CH	- 1		KI .	1 E	3S 1	BN	1BI	1BD	1AY	1AT	1AO	1AJ	1AI	1Z	1U	1P	1K	1F	1B
									1 6			,,,,,			1111			21	16	3T 1	во	1BJ	1BE	1AZ	1AU	1AP	1AK	1AI	1A/	11	1Q	1L	1G	1C
	1EI	1EG	1E0	1DY	1DU	1DQ	1DM	1DI	1DE	1DC	1CY	1CU	1CQ	1CM	1CI	1CE	1CA	1BW	18	3U 1	BP	1BK	1BF	1BA	1AV	1AQ	1AL	1A0	3 1 AE	1 W	/1R	1M	1H	1D
	1EJ	1EH	1E	1DZ	1DV	1DR	1DN	1DJ	1DF	1DD	1CZ	1CV	1CR	1CN	1CJ	1CF	1CB	1BX	1 E	3V 1	BQ	1BL	1BG	1BB	1AW	1AR	1AM	1Al	11AC	1X	1S	1N	11	
V																																		



Diagnostic Procedure

	ostic Procedure		ACTION
STEP	INSPECTION	V	ACTION
1	VERIFY FREEZE FRAME DATA (MODE 2)/ SNAPSHOT DATA HAS BEEN RECORDED	Yes	Go to the next step. Record the FREEZE FRAME DATA (Mode 2)/snapshot data
	Has the FREEZE FRAME DATA (Mode 2)/	No	on the repair order, then go to the next step.
	snapshot data been recorded?		on the repair order, then go to the next step.
2	VERIFY RELATED SERVICE INFORMATION	Yes	Perform repair or diagnosis according to the available
_	AVAILABILITY	. 00	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 TEMPERATURE	Yes	Repair or replace the connector and/or terminals, then go to
	SENSOR NO.2 CONNECTOR CONDITION		Step 8.
	Switch the ignition off.	No	Go to the next step.
	Disconnect the exhaust gas temperature sensor		·
	No.2 connector.		
	Inspect for poor connection (such as damaged/		
	pulled-out pins, corrosion).		
	Is there any malfunction?		
4	INSPECT EXHAUST GAS TEMPERATURE	Yes	Replace the exhaust gas temperature sensor No.2, then go
	SENSOR NO.2		to Step 8.
	 Inspect the exhaust gas temperature sensor No. 2. 		(See EXHAUST GAS TEMPERATURE SENSOR
	(See EXHAUST GAS TEMPERATURE SENSOR	No	REMOVAL/INSTALLATION [SKYACTIV-D 2.2].) Go to the next step.
	INSPECTION [SKYACTIV-D 2.2].)	INO	Go to the next step.
	• Is there any malfunction?		
5	INSPECT EXHAUST GAS TEMPERATURE	Yes	If the short to ground circuit could be detected in the wiring
	SENSOR NO.2 SIGNAL CIRCUIT FOR SHORT		harness:
	TO GROUND		Repair or replace the wiring harness for a possible short to
	Verify that the exhaust gas temperature sensor		ground.
	No.2 connector is disconnected.		If the short to ground circuit could not be detected in the
	Inspect for continuity between exhaust gas		wiring harness:
	temperature sensor No.2 terminal A (wiring		Replace the PCM (short to ground in the PCM internal
	harness-side) and body ground.		circuit).
	Is there continuity?		(See PCM REMOVAL/INSTALLATION [SKYACTIV-D
			2.2].)
		No	Go to Step 8. Go to the next step.
6	INSPECT PCM CONNECTOR CONDITION	No Yes	Repair or replace the connector and/or terminals, then go to
0	• Disconnect the PCM connector.	165	Step 8.
	Inspect for poor connection (such as damaged/	No	Go to the next step.
	pulled-out pins, corrosion).	140	of to the flext step.
	• Is there any malfunction?		
7	INSPECT EXHAUST GAS TEMPERATURE	Yes	Repair or replace the wiring harness for a possible short to
	SENSOR NO.2 SIGNAL CIRCUIT AND GROUND		each other, then go to the next step.
	CIRCUIT FOR SHORT TO EACH OTHER	No	Go to the next step.
	Verify that the exhaust gas temperature sensor		
	No.2 and PCM connectors are disconnected.		
	Inspect for continuity between exhaust gas		
	temperature sensor No.2 terminals A and B		
	(wiring harness-side).		
8	• Is there continuity?	Voc	Panast the inspection from Stan 1
°	VERIFY DTC TROUBLESHOOTING COMPLETED	Yes	Repeat the inspection from Step 1. • 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].)		r
	Perform the KOEO or KOER self test.		
	(See KOEO/KOER SELF TEST [SKYACTIV-D		
	2.2].)		
	Is the same DTC present?		

STEP	INSPECTION		ACTION
9	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?		