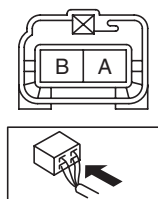
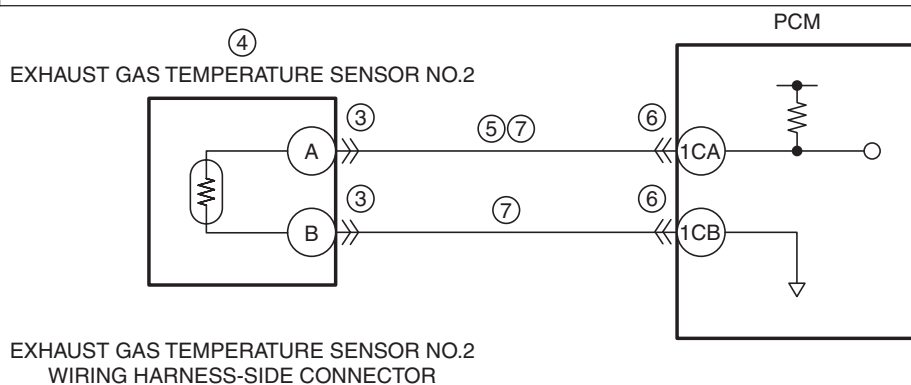
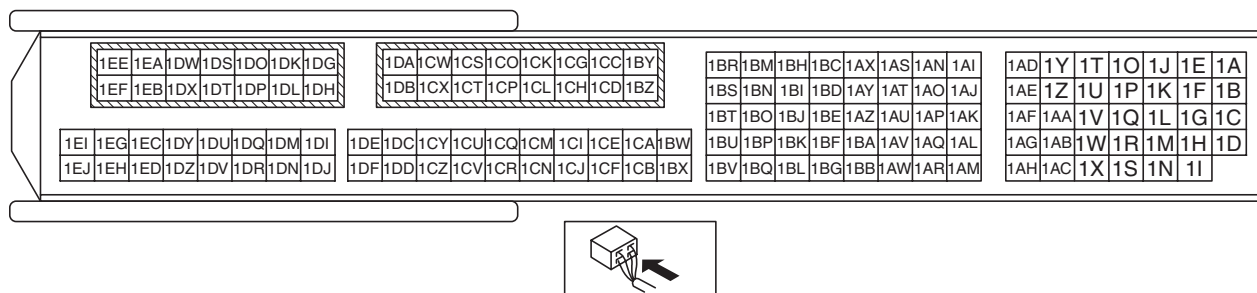


<b>DTC P2032:00</b>	<b>Exhaust gas temperature sensor No.2 circuit low input</b>
<b>DETECTION CONDITION</b>	<ul style="list-style-type: none"> <li>The PCM monitors the exhaust gas temperature sensor No.2 signal. If the PCM detects that the exhaust gas temperature sensor No.2 voltage at the PCM terminal 1CA is <b>below 0.24 V for 1 s</b>, the PCM determines that the exhaust gas temperature sensor No.2 circuit has a malfunction.</li> </ul> <p><b>MONITORING CONDITIONS</b></p> <ul style="list-style-type: none"> <li>Battery voltage: <b>8—20 V</b></li> </ul> <p><b>Diagnostic support note</b></p> <ul style="list-style-type: none"> <li>This is a continuous monitor (CCM).</li> <li>The check engine light illuminates if the PCM detects the above malfunction condition during the first drive cycle.</li> <li>FREEZE FRAME DATA (Mode 2)/Snapshot data is available.</li> <li>DTC is stored in the PCM memory.</li> </ul>
<b>FAIL-SAFE FUNCTION</b>	<ul style="list-style-type: none"> <li>PCM restricts engine torque.</li> <li>Inhibits the EGR control.</li> <li>Inhibits the diesel particulate filter regeneration control.</li> <li>The fast idle up correction for the idle speed control is inhibited.</li> <li>Inhibits engine-stop by operating the i-stop function.</li> <li>PCM restricts engine-transaxle integration control.</li> </ul>
<b>POSSIBLE CAUSE</b>	<ul style="list-style-type: none"> <li>Exhaust gas temperature sensor No.2 connector or terminals malfunction</li> <li>Exhaust gas temperature sensor No.2 malfunction</li> <li>Short to ground in wiring harness between exhaust gas temperature sensor No.2 terminal A and PCM terminal 1CA</li> <li>PCM connector or terminals malfunction</li> <li>Exhaust gas temperature sensor No.2 signal circuit and ground circuit are shorted to each other</li> <li>PCM malfunction</li> </ul>



PCM WIRING HARNESS-SIDE CONNECTOR



## Diagnostic Procedure

STEP	INSPECTION		ACTION
1	<b>VERIFY FREEZE FRAME DATA (MODE 2)/ SNAPSHOT DATA HAS BEEN RECORDED</b> <ul style="list-style-type: none"> <li>Has the FREEZE FRAME DATA (Mode 2)/ snapshot data been recorded?</li> </ul>	Yes	Go to the next step.
		No	Record the FREEZE FRAME DATA (Mode 2)/snapshot data on the repair order, then go to the next step.
2	<b>VERIFY RELATED SERVICE INFORMATION AVAILABILITY</b> <ul style="list-style-type: none"> <li>Verify related Service Information availability.</li> <li>Is any related Service Information available?</li> </ul>	Yes	Perform repair or diagnosis according to the available Service Information. • If the vehicle is not repaired, go to the next step.
		No	Go to the next step.
3	<b>INSPECT EXHAUST GAS TEMPERATURE SENSOR NO.2 CONNECTOR CONDITION</b> <ul style="list-style-type: none"> <li>Switch the ignition off.</li> <li>Disconnect the exhaust gas temperature sensor No.2 connector.</li> <li>Inspect for poor connection (such as damaged/ pulled-out pins, corrosion).</li> <li>Is there any malfunction?</li> </ul>	Yes	Repair or replace the connector and/or terminals, then go to Step 8.
		No	Go to the next step.
4	<b>INSPECT EXHAUST GAS TEMPERATURE SENSOR NO.2</b> <ul style="list-style-type: none"> <li>Inspect the exhaust gas temperature sensor No. 2. (See EXHAUST GAS TEMPERATURE SENSOR INSPECTION [SKYACTIV-D 2.2].)</li> <li>Is there any malfunction?</li> </ul>	Yes	Replace the exhaust gas temperature sensor No.2, then go to Step 8. (See EXHAUST GAS TEMPERATURE SENSOR REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
		No	Go to the next step.
5	<b>INSPECT EXHAUST GAS TEMPERATURE SENSOR NO.2 SIGNAL CIRCUIT FOR SHORT TO GROUND</b> <ul style="list-style-type: none"> <li>Verify that the exhaust gas temperature sensor No.2 connector is disconnected.</li> <li>Inspect for continuity between exhaust gas temperature sensor No.2 terminal A (wiring harness-side) and body ground.</li> <li>Is there continuity?</li> </ul>	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 8.
		No	Go to the next step.
6	<b>INSPECT PCM CONNECTOR CONDITION</b> <ul style="list-style-type: none"> <li>Disconnect the PCM connector.</li> <li>Inspect for poor connection (such as damaged/ pulled-out pins, corrosion).</li> <li>Is there any malfunction?</li> </ul>	Yes	Repair or replace the connector and/or terminals, then go to Step 8.
		No	Go to the next step.
7	<b>INSPECT EXHAUST GAS TEMPERATURE SENSOR NO.2 SIGNAL CIRCUIT AND GROUND CIRCUIT FOR SHORT TO EACH OTHER</b> <ul style="list-style-type: none"> <li>Verify that the exhaust gas temperature sensor No.2 and PCM connectors are disconnected.</li> <li>Inspect for continuity between exhaust gas temperature sensor No.2 terminals A and B (wiring harness-side).</li> <li>Is there continuity?</li> </ul>	Yes	Repair or replace the wiring harness for a possible short to each other, then go to the next step.
		No	Go to the next step.
8	<b>VERIFY DTC TROUBLESHOOTING COMPLETED</b> <ul style="list-style-type: none"> <li>Always reconnect all disconnected connectors.</li> <li>Clear the DTC from the PCM memory using the M-MDS. (See AFTER REPAIR PROCEDURE [SKYACTIV-D 2.2].)</li> <li>Perform the KOEO or KOER self test. (See KOEO/KOER SELF TEST [SKYACTIV-D 2.2].)</li> <li>Is the same DTC present?</li> </ul>	Yes	Repeat the inspection from Step 1. • If the malfunction recurs, replace the PCM. (See PCM REMOVAL/INSTALLATION [SKYACTIV-D 2.2].) Go to the next step.
		No	Go to the next step.

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STEP	INSPECTION		ACTION
9	<b>VERIFY AFTER REPAIR PROCEDURE</b> • Perform the “AFTER REPAIR PROCEDURE”. (See AFTER REPAIR PROCEDURE [SKYACTIV-D 2.2].) • Are any DTCs present?	Yes	Go to the applicable DTC inspection. (See DTC TABLE [SKYACTIV-D 2.2].)
		No	DTC troubleshooting completed.