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## **1998 MAZDA 626 (Mk.4) Hatchback OEM Service and Repair Workshop Manual**

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STEP	INSPECTION	RESULTS	ACTION
2	<b>VERIFY RELATED REPAIR INFORMATION AVAILABILITY</b> <ul style="list-style-type: none"> <li>• Verify related Service Bulletins and/or on-line repair information availability.</li> <li>• Is any related repair information available?</li> </ul>	Yes	Perform repair or diagnosis according to the available repair information. • If the vehicle is not repaired, go to the next step.
		No	Go to the next step.
3	<b>VERIFY DTC FOR MODULE COMMUNICATION</b> <ul style="list-style-type: none"> <li>• Switch the ignition off, then ON (engine off).</li> <li>• Perform the Pending Trouble Code Access Procedure and DTC Reading Procedure. (See <b>ON-BOARD DIAGNOSTIC TEST [PCM (SKYACTIV-G 2.5 (WITH CYLINDER DEACTIVATION))]</b>.)</li> <li>• Are any other PENDING CODEs and/or DTCs present?</li> </ul>	Yes	Go to the applicable PENDING CODE or DTC inspection. (See <b>DTC TABLE [PCM (SKYACTIV-G 2.5 (WITH CYLINDER DEACTIVATION))]</b> .)
		No	Go to the next step.
4	<b>VERIFY START STOP UNIT DTC</b> <ul style="list-style-type: none"> <li>• Perform the start stop unit DTC inspection using the M-MDS. (See <b>DTC INSPECTION [START STOP UNIT]</b>.)</li> <li>• Are any DTCs present?</li> </ul>	Yes	Go to the applicable DTC inspection. (See <b>DTC TABLE [START STOP UNIT]</b> .)
		No	Go to the next step.
5	<b>INSPECT START STOP UNIT CONNECTOR CONDITION</b> <ul style="list-style-type: none"> <li>• Switch the ignition off.</li> <li>• Disconnect the start stop unit 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 7.
		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 the next step.
		No	Go to the next step.
7	<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 <b>CLEARING DTC [PCM (SKYACTIV-G 2.5 (WITH CYLINDER DEACTIVATION))]</b>.)</li> <li>• Perform the KOEO or KOER self test. (See <b>KOEO/KOER SELF TEST [PCM (SKYACTIV-G 2.5 (WITH CYLINDER DEACTIVATION))]</b>.)</li> <li>• Is the same Pending DTC present?</li> </ul>	Yes	Repeat the inspection from Step 1. • If the malfunction recurs, replace the PCM. (See <b>PCM REMOVAL/INSTALLATION [SKYACTIV-G 2.5 (WITH CYLINDER DEACTIVATION)]</b> .) Go to the next step.
		No	Go to the next step.
8	<b>VERIFY AFTER REPAIR PROCEDURE</b> <ul style="list-style-type: none"> <li>• Perform the "AFTER REPAIR PROCEDURE". (See <b>AFTER REPAIR PROCEDURE [PCM (SKYACTIV-G 2.5 (WITH CYLINDER DEACTIVATION))]</b>.)</li> <li>• Are any DTCs present?</li> </ul>	Yes	Go to the applicable DTC inspection. (See <b>DTC TABLE [PCM (SKYACTIV-G 2.5 (WITH CYLINDER DEACTIVATION))]</b> .)
		No	DTC troubleshooting completed.

STEP	INSPECTION	RESULTS	ACTION
8	<b>INSPECT AIR CLEANER ELEMENT</b> <ul style="list-style-type: none"> <li>Remove the air cleaner element with the engine is running. (See <b>INTAKE-AIR SYSTEM REMOVAL/INSTALLATION [SKYACTIV-G (WITHOUT EGR COOLER)]</b>.) (See <b>INTAKE-AIR SYSTEM REMOVAL/INSTALLATION [SKYACTIV-G (WITH EGR COOLER)]</b>.)</li> <li>Does the engine speed increase?</li> </ul>	Yes	Clean or replace the air cleaner element, then go to Step 12. (See <b>INTAKE-AIR SYSTEM REMOVAL/INSTALLATION [SKYACTIV-G (WITHOUT EGR COOLER)]</b> .) (See <b>INTAKE-AIR SYSTEM REMOVAL/INSTALLATION [SKYACTIV-G (WITH EGR COOLER)]</b> .)
		No	Go to the next step.
9	<b>INSPECT THROTTLE BODY PASSAGE</b> <ul style="list-style-type: none"> <li>Visually inspect the throttle body passage.</li> <li>Is the throttle body passage dirty and/or restricted?</li> </ul>	Yes	Clean or replace the throttle body passage, then go to Step 12. (See <b>INTAKE-AIR SYSTEM REMOVAL/INSTALLATION [SKYACTIV-G (WITHOUT EGR COOLER)]</b> .) (See <b>INTAKE-AIR SYSTEM REMOVAL/INSTALLATION [SKYACTIV-G (WITH EGR COOLER)]</b> .)
		No	Go to the next step.
10	<b>INSPECT ENGINE COMPRESSION</b> <ul style="list-style-type: none"> <li>Inspect the engine compression. (See <b>COMPRESSION INSPECTION [SKYACTIV-G 2.5 (WITH CYLINDER DEACTIVATION)]</b>.)</li> <li>Are compression pressures within specification?</li> </ul>	Yes	Go to the next step.
		No	Repair or replace the malfunctioning part according to the inspection results, then go to Step 12.
11	<b>INSPECT GENERATOR CONTROL CIRCUIT FOR SHORT TO POWER SUPPLY</b> <ul style="list-style-type: none"> <li>Apply the electrical load (such as blower fan, rear window defogger, or headlight).</li> <li>Does the engine speed increase?</li> </ul>	Yes	Go to the next step.
		No	Repair or replace the malfunctioning part according to the inspection results, then go to the next step.
12	<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 <b>CLEARING DTC [PCM (SKYACTIV-G 2.5 (WITH CYLINDER DEACTIVATION))]</b>.)</li> <li>Start the engine and warm it up completely.</li> <li>Depress the brake pedal for 14 s or more.</li> <li>Perform the KOER self test. (See <b>KOEO/KOER SELF TEST [PCM (SKYACTIV-G 2.5 (WITH CYLINDER DEACTIVATION))]</b>.)</li> <li>Perform the Pending Trouble Code Access Procedure. (See <b>ON-BOARD DIAGNOSTIC TEST [PCM (SKYACTIV-G 2.5 (WITH CYLINDER DEACTIVATION))]</b>.)</li> <li>Is the PENDING CODE and/or DTC for this DTC present?</li> </ul>	Yes	Repeat the inspection from Step 1. <ul style="list-style-type: none"> <li>If the malfunction recurs, replace the PCM. (See <b>PCM REMOVAL/INSTALLATION [SKYACTIV-G 2.5 (WITH CYLINDER DEACTIVATION)]</b>.)</li> </ul> Go to the next step.
		No	Go to the next step.
13	<b>VERIFY AFTER REPAIR PROCEDURE</b> <ul style="list-style-type: none"> <li>Perform the "AFTER REPAIR PROCEDURE". (See <b>AFTER REPAIR PROCEDURE [PCM (SKYACTIV-G 2.5 (WITH CYLINDER DEACTIVATION))]</b>.)</li> <li>Are any DTCs present?</li> </ul>	Yes	Go to the applicable DTC inspection. (See <b>DTC TABLE [PCM (SKYACTIV-G 2.5 (WITH CYLINDER DEACTIVATION))]</b> .)
		No	DTC troubleshooting completed.

STEP	INSPECTION	RESULTS	ACTION
3	<b>INSPECT ACTIVE AIR SHUTTER CONNECTOR CONDITION</b> <ul style="list-style-type: none"> <li>• Switch the ignition off.</li> <li>• Disconnect the active air shutter 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 11.
		No	Go to the next step.
4	<b>INSPECT ACTIVE AIR SHUTTER POWER SUPPLY CIRCUIT FOR SHORT TO GROUND OR OPEN CIRCUIT</b> <ul style="list-style-type: none"> <li>• Verify that the active air shutter connector is disconnected.</li> <li>• Switch the ignition ON (engine off).</li> </ul> <p><b>Note</b></p> <ul style="list-style-type: none"> <li>• Another DTC may be stored by the PCM detecting an open circuit.</li> <li>• Measure the voltage at the active air shutter terminal A (wiring harness-side).</li> <li>• Is the voltage B+?</li> </ul>	Yes	Go to the next step.
		No	Inspect the ENGINE3 15 A fuse. <ul style="list-style-type: none"> <li>• If the fuse is blown:               <ul style="list-style-type: none"> <li>— Refer to the wiring diagram and verify whether or not there is a common connector between ENGINE3 15 A fuse and active air shutter terminal A.</li> </ul> </li> </ul> <p><b>If there is a common connector:</b></p> <ul style="list-style-type: none"> <li>• Determine the malfunctioning part by inspecting the common connector and the terminal for corrosion, damage, or pin disconnection, and the common wiring harness for a short to ground.</li> <li>• Repair or replace the malfunctioning part.</li> </ul> <p><b>If there is no common connector:</b></p> <ul style="list-style-type: none"> <li>• Repair or replace the wiring harness which has a short to ground.</li> <li>• Replace the fuse.</li> </ul> <ul style="list-style-type: none"> <li>• If the fuse is damaged:               <ul style="list-style-type: none"> <li>— Replace the fuse.</li> </ul> </li> <li>• If the fuse is normal:               <ul style="list-style-type: none"> <li>— Refer to the wiring diagram and verify whether or not there is a common connector between sub relay terminal C and active air shutter terminal A.</li> </ul> </li> </ul> <p><b>If there is a common connector:</b></p> <ul style="list-style-type: none"> <li>• Determine the malfunctioning part by inspecting the common connector and the terminal for corrosion, damage, or pin disconnection, and the common wiring harness for an open circuit.</li> <li>• Repair or replace the malfunctioning part.</li> </ul> <p><b>If there is no common connector:</b></p> <ul style="list-style-type: none"> <li>• Repair or replace the wiring harness which has an open circuit.</li> </ul> Go to Step 11.



# DTC U0298:00 [PCM (SKYACTIV-G 2.5 (WITH CYLINDER DEACTIVATION))]

SM3511178

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DTC U0298:00	CAN/LIN communication system: DC-DC converter information communication error with front body control module (FBCM)
DETECTION CONDITION	<ul style="list-style-type: none"><li>• PCM detects a DC-DC converter information communication error from front body control module (FBCM).</li></ul> <b>Diagnostic support note</b> <ul style="list-style-type: none"><li>• This is a continuous monitor (other).</li><li>• The check engine light does not illuminate.</li><li>• FREEZE FRAME DATA is not available.</li><li>• Snapshot data is available.</li><li>• DTC is stored in the PCM memory.</li></ul>
FAIL-SAFE FUNCTION	<ul style="list-style-type: none"><li>• Inhibits engine-stop by operating the i-stop function.</li></ul>
VEHICLE STATUS WHEN DTCs ARE OUTPUT	<ul style="list-style-type: none"><li>• Flashes i-stop warning light (amber).</li></ul>
POSSIBLE CAUSE	<ul style="list-style-type: none"><li>• Communication line malfunction between DC-DC converter and front body control module (FBCM)</li><li>• Communication line malfunction between front body control module (FBCM) and PCM</li><li>• DC-DC converter connector or terminals malfunction</li><li>• Short to ground or open circuit in DC-DC converter power supply circuit<ul style="list-style-type: none"><li>— Short to ground in wiring harness between DCDC 50 A fuse and DC-DC converter terminal L</li><li>— DCDC 200 A fuse malfunction</li><li>— Open circuit in wiring harness between battery positive terminal and DC-DC converter terminal L</li></ul></li><li>• Short to ground or open circuit in DC-DC converter power supply circuit<ul style="list-style-type: none"><li>— Short to ground in wiring harness between C/U IG1 15 A fuse and DC-DC converter terminal H</li><li>— C/U IG1 15 A fuse malfunction</li><li>— Open circuit in wiring harness between IG1 relay terminal C and DC-DC converter terminal H</li></ul></li><li>• Front body control module (FBCM) connector or terminals malfunction</li><li>• Short to ground in wiring harness between DC-DC converter terminal C and front body control module (FBCM) terminal 2H</li><li>• Open circuit in wiring harness between DC-DC converter terminal C and front body control module (FBCM) terminal 2H</li><li>• PCM connector or terminals malfunction</li><li>• Short to ground in wiring harness between the following terminals:<ul style="list-style-type: none"><li>— Front body control module (FBCM) terminal 2P–PCM terminal 1H</li><li>— Front body control module (FBCM) terminal 2N–PCM terminal 1L</li></ul></li><li>• Open circuit in wiring harness between the following terminals:<ul style="list-style-type: none"><li>— Front body control module (FBCM) terminal 2P–PCM terminal 1H</li><li>— Front body control module (FBCM) terminal 2N–PCM terminal 1L</li></ul></li><li>• DC-DC converter malfunction</li><li>• Front body control module (FBCM) malfunction</li><li>• PCM malfunction</li></ul>

STEP	INSPECTION	RESULTS	ACTION
5	<b>INSPECT DC-DC CONVERTER POWER SUPPLY CIRCUIT FOR SHORT TO GROUND OR OPEN CIRCUIT</b> <ul style="list-style-type: none"> <li>• Verify that the DC-DC converter connector is disconnected.</li> <li>• Measure the voltage at the DC-DC converter terminal L (wiring harness-side).</li> <li>• Is the voltage B+?</li> </ul>	Yes	Go to the next step.
		No	<p>Inspect the DCDC 200 A fuse.</p> <ul style="list-style-type: none"> <li>• If the fuse is blown: <ul style="list-style-type: none"> <li>— Refer to the wiring diagram and verify whether or not there is a common connector between DCDC 200 A fuse and DC-DC converter terminal L.</li> </ul> </li> </ul> <p><b>If there is a common connector:</b></p> <ul style="list-style-type: none"> <li>• Determine the malfunctioning part by inspecting the common connector and the terminal for corrosion, damage, or pin disconnection, and the common wiring harness for a short to ground.</li> <li>• Repair or replace the malfunctioning part.</li> </ul> <p><b>If there is no common connector:</b></p> <ul style="list-style-type: none"> <li>• Repair or replace the wiring harness which has a short to ground.</li> <li>• Replace the fuse.</li> </ul> <ul style="list-style-type: none"> <li>• If the fuse is damaged: <ul style="list-style-type: none"> <li>— Replace the fuse.</li> </ul> </li> <li>• If the fuse is normal: <ul style="list-style-type: none"> <li>— Refer to the wiring diagram and verify whether or not there is a common connector between battery positive terminal and DC-DC converter terminal L.</li> </ul> </li> </ul> <p><b>If there is a common connector:</b></p> <ul style="list-style-type: none"> <li>• Determine the malfunctioning part by inspecting the common connector and the terminal for corrosion, damage, or pin disconnection, and the common wiring harness for an open circuit.</li> <li>• Repair or replace the malfunctioning part.</li> </ul> <p><b>If there is no common connector:</b></p> <ul style="list-style-type: none"> <li>• Repair or replace the wiring harness which has an open circuit.</li> </ul> <p>Go to Step 15.</p>

STEP	INSPECTION	RESULTS	ACTION
12	<b>INSPECT FRONT BODY CONTROL MODULE (FBCM) CIRCUIT FOR OPEN CIRCUIT</b> <ul style="list-style-type: none"> <li>• Verify that the DC-DC converter, front body control module (FBCM) and PCM connectors are disconnected.</li> <li>• Inspect for continuity between the following terminals (wiring harness-side): <ul style="list-style-type: none"> <li>— Front body control module (FBCM) terminal 2P–PCM terminal 1H</li> <li>— Front body control module (FBCM) terminal 2N–PCM terminal 1L</li> </ul> </li> <li>• Is there continuity?</li> </ul>	Yes	Go to the next step.
		No	Refer to the wiring diagram and verify whether or not there is a common connector between the following terminals: <ul style="list-style-type: none"> <li>• Front body control module (FBCM) terminal 2P–PCM terminal 1H</li> <li>• Front body control module (FBCM) terminal 2N–PCM terminal 1L</li> </ul> <b>If there is a common connector:</b> <ul style="list-style-type: none"> <li>• Determine the malfunctioning part by inspecting the common connector and the terminal for corrosion, damage, or pin disconnection, and the common wiring harness for an open circuit.</li> <li>• Repair or replace the malfunctioning part.</li> </ul> <b>If there is no common connector:</b> <ul style="list-style-type: none"> <li>• Repair or replace the wiring harness which has an open circuit.</li> </ul> Go to Step 15.
13	<b>INSPECT DC-DC CONVERTER</b> <ul style="list-style-type: none"> <li>• Inspect the DC-DC converter. (See <b>DC-DC CONVERTER INSPECTION [SKYACTIV-G 2.5 (WITH CYLINDER DEACTIVATION)]</b>.)</li> <li>• Is there any malfunction?</li> </ul>	Yes	Replace the DC-DC converter, then go to Step 15. (See <b>DC-DC CONVERTER REMOVAL/INSTALLATION [SKYACTIV-G 2.5 (WITH CYLINDER DEACTIVATION)]</b> .)
		No	Go to the next step.
14	<b>INSPECT FRONT BODY CONTROL MODULE (FBCM)</b> <ul style="list-style-type: none"> <li>• Inspect the front body control module (FBCM). (See <b>FRONT BODY CONTROL MODULE (FBCM) INSPECTION</b>.)</li> <li>• Is there any malfunction?</li> </ul>	Yes	Replace the front body control module (FBCM), then go to the next step. (See <b>FRONT BODY CONTROL MODULE (FBCM) REMOVAL/INSTALLATION</b> .)
		No	Go to the next step.
15	<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 <b>CLEARING DTC [PCM (SKYACTIV-G 2.5 (WITH CYLINDER DEACTIVATION))]</b>.)</li> <li>• Start the engine.</li> <li>• Perform the DTC Reading Procedure. (See <b>ON-BOARD DIAGNOSTIC TEST [PCM (SKYACTIV-G 2.5 (WITH CYLINDER DEACTIVATION))]</b>.)</li> <li>• Is the same Pending DTC present?</li> </ul>	Yes	Repeat the inspection from Step 1. <ul style="list-style-type: none"> <li>• If the malfunction recurs, replace the PCM. (See <b>PCM REMOVAL/INSTALLATION [SKYACTIV-G 2.5 (WITH CYLINDER DEACTIVATION)]</b>.)</li> </ul> Go to the next step.
		No	Go to the next step.
16	<b>VERIFY AFTER REPAIR PROCEDURE</b> <ul style="list-style-type: none"> <li>• Perform the "AFTER REPAIR PROCEDURE". (See <b>AFTER REPAIR PROCEDURE [PCM (SKYACTIV-G 2.5 (WITH CYLINDER DEACTIVATION))]</b>.)</li> <li>• Are any DTCs present?</li> </ul>	Yes	Go to the applicable DTC inspection. (See <b>DTC TABLE [PCM (SKYACTIV-G 2.5 (WITH CYLINDER DEACTIVATION))]</b> .)
		No	DTC troubleshooting completed.

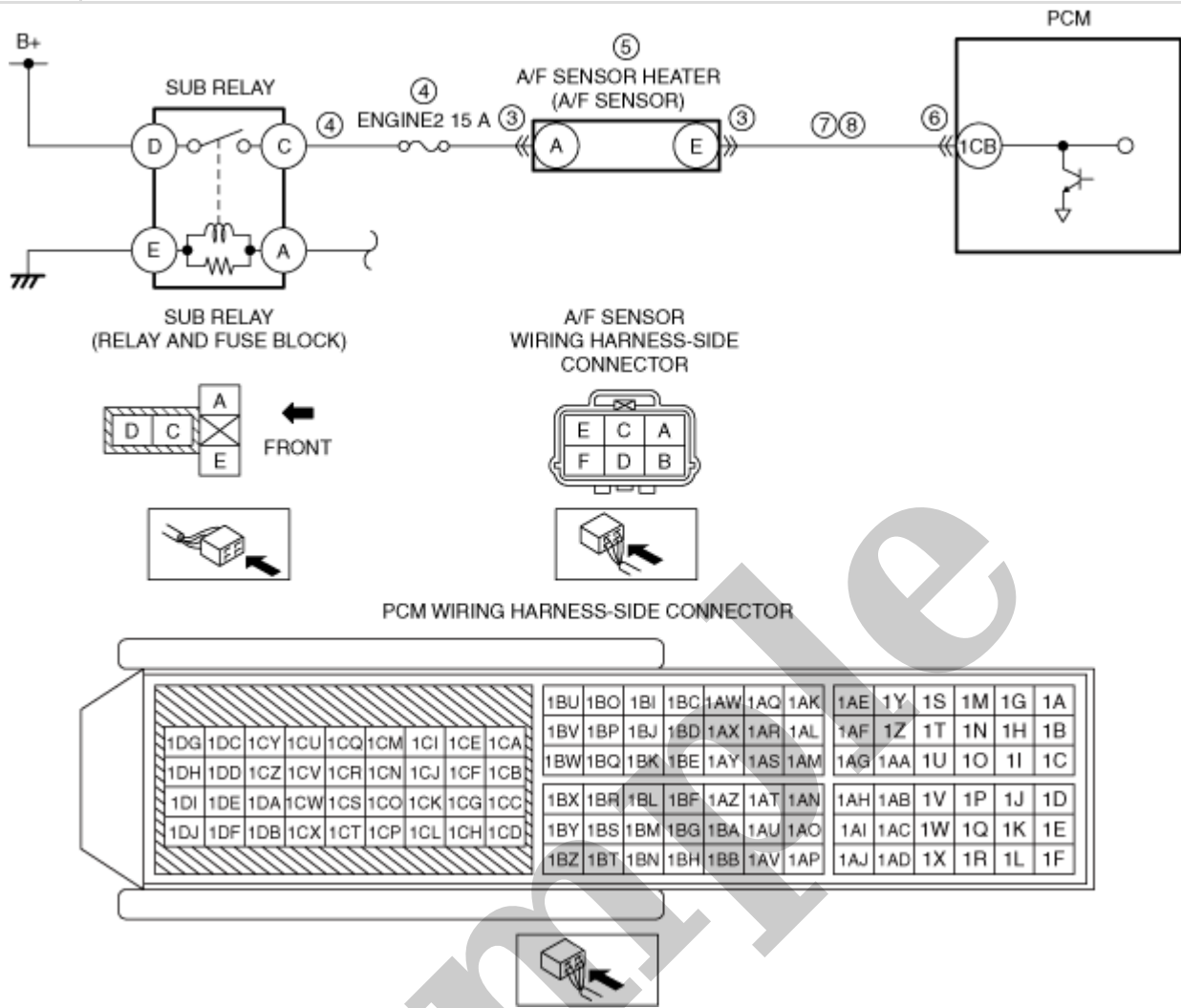
STEP	INSPECTION	RESULTS	ACTION
11	<b>INSPECT EXHAUST CMP SENSOR CONNECTOR CONDITION</b> <ul style="list-style-type: none"> <li>• Switch the ignition off.</li> <li>• Disconnect the exhaust CMP sensor connector.</li> <li>• Inspect for poor connection (such as damaged/pulled-out pins, corrosion).</li> <li>• Is there any malfunction?</li> </ul>	Yes	Repair or replace the connector and/or terminals, then go to Step 16.
		No	Go to the next step.
12	<b>INSPECT EXHAUST CMP SENSOR FOR FOREIGN MATTER</b> <ul style="list-style-type: none"> <li>• Visually inspect the exhaust CMP sensor for foreign matter. (See <b>CAMSHAFT POSITION (CMP) SENSOR INSPECTION [SKYACTIV-G 2.5 (WITH CYLINDER DEACTIVATION)]</b>.)</li> <li>• Is there any foreign matter on the exhaust CMP sensor?</li> </ul>	Yes	Remove the foreign matter from the exhaust CMP sensor, then go to Step 16.
		No	Go to the next step.
13	<b>INSPECT EXHAUST CMP SENSOR PULSE WHEEL</b> <ul style="list-style-type: none"> <li>• Visually inspect the exhaust CMP sensor pulse wheel.</li> <li>• Is there any damage or scratching on the exhaust CMP sensor pulse wheel?</li> </ul>	Yes	Replace the exhaust CMP sensor pulse wheel, then go to Step 16.
		No	Go to the next step.
14	<b>INSPECT EXHAUST CMP SENSOR</b> <ul style="list-style-type: none"> <li>• Reconnect all disconnected connectors.</li> <li>• Inspect the exhaust CMP sensor. (See <b>CAMSHAFT POSITION (CMP) SENSOR INSPECTION [SKYACTIV-G 2.5 (WITH CYLINDER DEACTIVATION)]</b>.)</li> <li>• Is there any malfunction?</li> </ul>	Yes	Replace the exhaust CMP sensor, then go to Step 16. (See <b>CAMSHAFT POSITION (CMP) SENSOR REMOVAL/INSTALLATION [SKYACTIV-G 2.5 (WITH CYLINDER DEACTIVATION)]</b> .)
		No	Go to the next step.
15	<b>INSPECT PCM CONNECTOR CONDITION</b> <ul style="list-style-type: none"> <li>• Switch the ignition off.</li> <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 the next step.
		No	Go to the next step.
16	<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 <b>CLEARING DTC [PCM (SKYACTIV-G 2.5 (WITH CYLINDER DEACTIVATION))]</b>.)</li> <li>• Start the engine and warm it up completely.</li> <li>• Perform the Pending Trouble Code Access Procedure. (See <b>ON-BOARD DIAGNOSTIC TEST [PCM (SKYACTIV-G 2.5 (WITH CYLINDER DEACTIVATION))]</b>.)</li> <li>• Is the PENDING CODE for this DTC present?</li> </ul>	Yes	Repeat the inspection from Step 1. <ul style="list-style-type: none"> <li>• If the malfunction recurs, replace the PCM. (See <b>PCM REMOVAL/INSTALLATION [SKYACTIV-G 2.5 (WITH CYLINDER DEACTIVATION)]</b>.)</li> </ul> Go to the next step.
		No	Go to the next step.
17	<b>VERIFY AFTER REPAIR PROCEDURE</b> <ul style="list-style-type: none"> <li>• Perform the "AFTER REPAIR PROCEDURE". (See <b>AFTER REPAIR PROCEDURE [PCM (SKYACTIV-G 2.5 (WITH CYLINDER DEACTIVATION))]</b>.)</li> <li>• Are any DTCs present?</li> </ul>	Yes	Go to the applicable DTC inspection. (See <b>DTC TABLE [PCM (SKYACTIV-G 2.5 (WITH CYLINDER DEACTIVATION))]</b> .)
		No	DTC troubleshooting completed.

DTC U0151:00	<b>CAN communication: communication error to SAS control module</b>
DETECTION CONDITION	<ul style="list-style-type: none"> <li>Communication error between the PCM and SAS control module continues for 5 s or more.</li> </ul> <b>Diagnostic support note</b> <ul style="list-style-type: none"> <li>This is a continuous monitor (other).</li> <li>The check engine light does not illuminate.</li> <li>FREEZE FRAME DATA is not available.</li> <li>Snapshot data is available.</li> <li>DTC is stored in the PCM memory.</li> </ul>
FAIL-SAFE FUNCTION	<ul style="list-style-type: none"> <li>Not applicable</li> </ul>
POSSIBLE CAUSE	<ul style="list-style-type: none"> <li>CAN communication line malfunction between PCM and SAS control module</li> <li>SAS control module malfunction</li> <li>PCM malfunction</li> </ul>
SYSTEM WIRING DIAGRAM	<ul style="list-style-type: none"> <li>Not applicable</li> </ul>

DTC U0155:00	<b>CAN communication: communication error to instrument cluster</b>
DETECTION CONDITION	<ul style="list-style-type: none"> <li>Communication error between the PCM and instrument cluster continues for 5 s or more.</li> </ul> <b>Diagnostic support note</b> <ul style="list-style-type: none"> <li>This is a continuous monitor (other).</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/Snapshot data is available.</li> <li>DTC is stored in the PCM memory.</li> </ul>
FAIL-SAFE FUNCTION	<ul style="list-style-type: none"> <li>Not applicable</li> </ul>
POSSIBLE CAUSE	<ul style="list-style-type: none"> <li>CAN communication line malfunction between PCM and instrument cluster</li> <li>Instrument cluster malfunction</li> <li>PCM malfunction</li> </ul>
SYSTEM WIRING DIAGRAM	<ul style="list-style-type: none"> <li>Not applicable</li> </ul>

DTC U0214:00	<b>CAN communication: communication error to start stop unit</b>
DETECTION CONDITION	<ul style="list-style-type: none"> <li>Communication error between the PCM and start stop unit continues for 5 s or more.</li> </ul> <b>Diagnostic support note</b> <ul style="list-style-type: none"> <li>This is a continuous monitor (other).</li> <li>The check engine light does not illuminate.</li> <li>FREEZE FRAME DATA is not available.</li> <li>Snapshot data is available.</li> <li>DTC is stored in the PCM memory.</li> </ul>
FAIL-SAFE FUNCTION	<ul style="list-style-type: none"> <li>Not applicable</li> </ul>
POSSIBLE CAUSE	<ul style="list-style-type: none"> <li>CAN communication line malfunction between PCM and start stop unit</li> <li>Start stop unit malfunction</li> <li>PCM malfunction</li> </ul>
SYSTEM WIRING DIAGRAM	<ul style="list-style-type: none"> <li>Not applicable</li> </ul>

DTC U023A:00	<b>CAN communication: communication error to forward sensing camera (FSC)</b>
DETECTION CONDITION	<ul style="list-style-type: none"> <li>Communication error between the PCM and forward sensing camera (FSC) continues for 5 s or more.</li> </ul> <b>Diagnostic support note</b> <ul style="list-style-type: none"> <li>This is a continuous monitor (other).</li> <li>The check engine light does not illuminate.</li> <li>FREEZE FRAME DATA is not available.</li> <li>Snapshot data is available.</li> <li>DTC is stored in the PCM memory.</li> </ul>
FAIL-SAFE FUNCTION	<ul style="list-style-type: none"> <li>The smart city brake support (SCBS) function is cancelled. (with smart city brake support (SCBS))</li> </ul>



Diagnostic Procedure

STEP	INSPECTION	RESULTS	ACTION
1	<p><b>RECORD FREEZE FRAME DATA/SNAPSHOT DATA AND DIAGNOSTIC MONITORING TEST RESULTS TO UTILIZE WITH REPEATABILITY VERIFICATION</b></p> <p><b>Note</b></p> <ul style="list-style-type: none"><li>Recording can be facilitated using the screen capture function of the PC.</li><li>Record the FREEZE FRAME DATA/snapshot data and DIAGNOSTIC MONITORING TEST RESULTS (A/F sensor heater, HO2S heater related) on the repair order.</li></ul>	—	Go to the next step.
2	<p><b>VERIFY RELATED REPAIR INFORMATION AVAILABILITY</b></p> <ul style="list-style-type: none"><li>Verify related Service Bulletins and/or on-line repair information availability.</li><li>Is any related repair information available?</li></ul>	<div>Yes</div> <div>No</div>	<div>Perform repair or diagnosis according to the available repair information.</div> <div>• If the vehicle is not repaired, go to the next step.</div> <div>Go to the next step.</div>