



STEP	INSPECTION		ACTION
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.
		No	Go to the next step.
3	<b>DETERMINE IF IAT SENSOR NO.2 OR WIRING HARNESS MALFUNCTION</b> <ul style="list-style-type: none"> <li>• Access the IAT2 PID using the M-MDS. (See ON-BOARD DIAGNOSTIC TEST [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)</li> <li>• Verify the IAT2 PID value.</li> <li>• Is the IAT2 PID value <b>5 V</b> or <b>B+</b>?</li> </ul>	Yes	Go to Step 7.
		No	Go to the next step.
4	<b>INSPECT MAP SENSOR/IAT SENSOR NO.2 CONNECTOR CONDITION</b> <ul style="list-style-type: none"> <li>• Switch the ignition off.</li> <li>• Disconnect the MAP sensor/IAT 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 10.
		No	Go to the next step.
5	<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 10.
		No	Go to the next step.
6	<b>INSPECT IAT SENSOR NO.2</b> <ul style="list-style-type: none"> <li>• Inspect the IAT sensor No.2. (See INTAKE AIR TEMPERATURE (IAT) SENSOR INSPECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)</li> <li>• Is there any malfunction?</li> </ul>	Yes	Replace the MAP sensor/IAT sensor No.2, then go to Step 10. (See MANIFOLD ABSOLUTE PRESSURE (MAP) SENSOR/INTAKE AIR TEMPERATURE (IAT) SENSOR NO.2 REMOVAL/INSTALLATION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)
		No	Go to Step 10.
7	<b>DETERMINE IF IAT SENSOR NO.2 SIGNAL CIRCUIT OR IAT SENSOR NO.2 GROUND CIRCUIT MALFUNCTION</b> <ul style="list-style-type: none"> <li>• Switch the ignition off.</li> <li>• Disconnect the MAP sensor/IAT sensor No.2 connector.</li> <li>• Access the IAT2 PID using the M-MDS. (See ON-BOARD DIAGNOSTIC TEST [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)</li> <li>• Verify the IAT2 PID value.</li> <li>• Is the IAT2 PID value <b>5 V</b> or <b>B+</b>?</li> </ul>	Yes	Go to the next step.
		No	Go to Step 9.
8	<b>INSPECT IAT SENSOR NO.2 SIGNAL CIRCUIT FOR OPEN CIRCUIT</b> <ul style="list-style-type: none"> <li>• Verify that the MAP sensor/IAT sensor No.2 connector is disconnected.</li> <li>• Switch the ignition off.</li> <li>• Disconnect the PCM connector.</li> <li>• Inspect for continuity between MAP sensor/IAT sensor No.2 terminal B (wiring harness-side) and PCM terminal 1CE (wiring harness-side).</li> <li>• Is there continuity?</li> </ul>	Yes	Repair or replace the wiring harness for a possible short to power supply, then go to Step 10.
		No	Repair or replace the wiring harness for a possible open circuit, then go to Step 10.
9	<b>INSPECT IAT SENSOR NO.2 GROUND CIRCUIT FOR OPEN CIRCUIT</b> <ul style="list-style-type: none"> <li>• Verify that the MAP sensor/IAT sensor No.2 connector is disconnected.</li> <li>• Switch the ignition off.</li> <li>• Disconnect the PCM connector.</li> <li>• Inspect for continuity between MAP sensor/IAT sensor No.2 terminal A (wiring harness-side) and PCM terminal 1BX (wiring harness-side).</li> <li>• Is there continuity?</li> </ul>	Yes	Replace the MAP sensor/IAT sensor No.2, then go to the next step. (See MANIFOLD ABSOLUTE PRESSURE (MAP) SENSOR/INTAKE AIR TEMPERATURE (IAT) SENSOR NO.2 REMOVAL/INSTALLATION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)
		No	Repair or replace the wiring harness for a possible open circuit, then go to the next step.

STEP	INSPECTION	ACTION	
10	<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-G 2.0, SKYACTIV-G 2.5].)</li> <li>• Perform the KOEO or KOER self test. (See KOEO/KOER SELF TEST [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)</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-G 2.0, SKYACTIV-G 2.5].) Go to the next step.
		No	Go to the next step.
11	<b>VERIFY AFTER REPAIR PROCEDURE</b> <ul style="list-style-type: none"> <li>• Perform the "AFTER REPAIR PROCEDURE". (See AFTER REPAIR PROCEDURE [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)</li> <li>• Are any DTCs present?</li> </ul>	Yes	Go to the applicable DTC inspection. (See DTC TABLE [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)
		No	DTC troubleshooting completed.