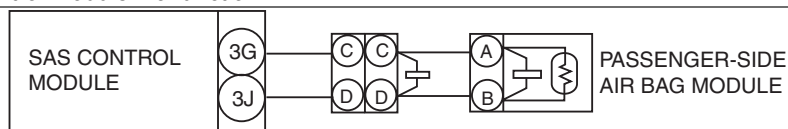


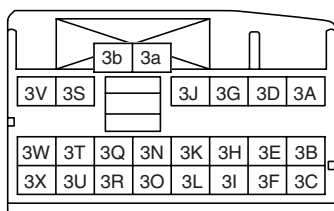
# DTC B0010:11/B0010:12/B0010:13/B0010:19/B0010:1A

id080200821200

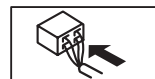
<b>System malfunction location</b>	<ul style="list-style-type: none"> <li>• B0010:11: Passenger-side air bag module circuit short to body ground</li> <li>• B0010:12: Passenger-side air bag module circuit short to power supply</li> <li>• B0010:13: Passenger-side air bag module circuit open circuit or resistance high</li> <li>• B0010:19: Short circuit to passenger-side air bag module and other air bag module circuits</li> <li>• B0010:1A: Passenger-side air bag module circuit resistance low</li> </ul>
<b>Detection condition</b>	<p><b>Warning</b></p> <ul style="list-style-type: none"> <li>• <b>Detection conditions are for understanding the DTC outline before performing an inspection. Performing an inspection according to only the detection conditions may cause injury due to an operating error, or damage the system. When performing an inspection, always follow the inspection procedure.</b></li> </ul> <ul style="list-style-type: none"> <li>• Resistance <b>other than 0.81–6.42 ohms</b> detected in passenger-side air bag module circuit</li> <li>• Wiring harness between passenger-side air bag module and SAS control module has malfunction</li> </ul>
<b>Fail-safe</b>	—
<b>Possible cause</b>	<ul style="list-style-type: none"> <li>• Passenger-side air bag module connector malfunction</li> <li>• Short circuit to power supply or body ground in the wiring harness between the passenger-side air bag module and the SAS control module</li> <li>• Open circuit in the wiring harness between the passenger-side air bag module and the SAS control module</li> <li>• Passenger-side air bag module malfunction</li> <li>• SAS control module malfunction</li> </ul>



SAS CONTROL MODULE  
HARNESS-SIDE CONNECTOR



PASSENGER-SIDE AIR BAG MODULE  
HARNESS-SIDE CONNECTOR



## Diagnostic Procedure

Step	Inspection	Action	
1	<b>INSPECT PASSENGER-SIDE AIR BAG MODULE CONNECTOR</b>  <b>Warning</b> <ul style="list-style-type: none"><li>• Handling the component parts improperly can accidentally operate (deploy) the air bag module, which may seriously injure you. Read the service warnings/cautions and the workshop manual before handling the air bag system components. (See AIR BAG SYSTEM SERVICE WARNINGS.) (See AIR BAG SYSTEM SERVICE CAUTIONS.)</li></ul> <ul style="list-style-type: none"><li>• Switch the ignition to off.</li><li>• Disconnect the negative battery cable and wait for <b>1 min or more</b>. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].)</li><li>• Remove the glove compartment. (See GLOVE COMPARTMENT REMOVAL/ INSTALLATION.)</li><li>• Disconnect the passenger-side air bag module connector. (See PASSENGER-SIDE AIR BAG MODULE REMOVAL/INSTALLATION.)</li><li>• Inspect the passenger-side air bag module connector. (Corrosion, damage, and disconnected pins)</li><li>• Is there any malfunction of the passenger-side air bag module connector?</li></ul>	Yes	Replace the malfunctioning part, then go to Step 6.
		No	Go to the next step.

Step	Inspection	Action	
2	<b>INSPECT PASSENGER-SIDE AIR BAG MODULE CIRCUIT FOR SHORT TO GROUND</b> <ul style="list-style-type: none"><li>Remove the column cover. (See COLUMN COVER REMOVAL/INSTALLATION.)</li><li>Disconnect the clock spring connector. (See CLOCK SPRING REMOVAL/INSTALLATION.)</li><li>Disconnect the driver and passenger-side front seat connector. (See FRONT SEAT REMOVAL/INSTALLATION.)</li><li>Remove the headliner. (See HEADLINER REMOVAL/INSTALLATION.)</li><li>Disconnect the driver and passenger-side curtain air bag module connectors. (See CURTAIN AIR BAG MODULE REMOVAL/INSTALLATION.)</li><li>Remove the B-pillar lower trim. (See B-PILLAR LOWER TRIM REMOVAL/INSTALLATION.)</li><li>Disconnect the driver and passenger-side pretensioner seat belt connectors. (See FRONT SEAT BELT REMOVAL/INSTALLATION.)</li><li>Remove the rear console. (See REAR CONSOLE REMOVAL/INSTALLATION.)</li><li>Disconnect the all SAS control module connectors. (See SAS CONTROL MODULE REMOVAL/INSTALLATION.)</li><li>Inspect for continuity between the following terminals (wiring harness-side) and body ground:<ul style="list-style-type: none"><li>SAS control module terminal 3G</li><li>SAS control module terminal 3J</li></ul></li></ul> <p><b>Note</b></p> <ul style="list-style-type: none"><li>Inspect for continuity while shaking the wiring harness between the SAS control module and passenger-side air bag module.</li></ul> <p>• Is there continuity?</p>	Yes	Replace the wiring harness for a possible short to ground, then go to Step 6.
		No	Go to the next step.
3	<b>INSPECT PASSENGER-SIDE AIR BAG MODULE CIRCUIT FOR OPEN CIRCUIT</b> <ul style="list-style-type: none"><li>Passenger-side air bag module and SAS control module connectors are disconnected.</li><li>Inspect for continuity between the following terminals (wiring harness-side):<ul style="list-style-type: none"><li>Passenger-side air bag module terminal A<ul style="list-style-type: none"><li>SAS control module terminal 3G</li></ul></li><li>Passenger-side air bag module terminal B<ul style="list-style-type: none"><li>SAS control module terminal 3J</li></ul></li></ul></li></ul> <p><b>Note</b></p> <ul style="list-style-type: none"><li>Inspect for continuity while shaking the wiring harness between the SAS control module and passenger-side air bag module.</li></ul> <p>• Is there continuity?</p>	Yes	Go to the next step.
		No	Replace the wiring harness for a possible open circuit, then go to Step 6.

Step	Inspection	Action	
4	<b>INSPECT PASSENGER-SIDE AIR BAG MODULE CIRCUIT FOR SHORT TO POWER SUPPLY</b> <ul style="list-style-type: none"> <li>• Passenger-side air bag module and SAS control module connectors are disconnected.</li> <li>• Connect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].)</li> <li>• Switch the ignition ON (engine off or on).</li> <li>• Measure the voltage at the following terminals (wiring harness-side): <ul style="list-style-type: none"> <li>— SAS control module terminal 3G</li> <li>— SAS control module terminal 3J</li> </ul> </li> </ul> <p><b>Note</b></p> <ul style="list-style-type: none"> <li>• Measure the voltage while shaking the wiring harness between the SAS control module and passenger-side air bag module.</li> </ul>	Yes	Go to the next step.
		No	Replace the wiring harness for a possible short to power supply, then go to Step 6.
	<ul style="list-style-type: none"> <li>• Is the voltage <b>0V</b>?</li> </ul>		

Step	Inspection	Action
5	<b>INSPECT PASSENGER-SIDE AIR BAG MODULE</b> <ul style="list-style-type: none"> <li>Switch the ignition to off.</li> <li>Disconnect the negative battery cable and wait for <b>1 min or more</b>. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].)</li> <li>Connect the SAS control module connectors.</li> <li>Except for the passenger-side air bag module connector, reconnect all disconnected connectors.</li> <li>Connect the <b>SST (Fuel and thermometer checker)</b> or apply <b>2 ohms</b> resistance to the passenger-side air bag module connector terminals A and B.</li> <li>Set the <b>SST (Fuel and thermometer checker)</b> to <b>2 ohms</b>.</li> <li>Connect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].)</li> <li>Switch the ignition ON (engine off or on).</li> <li>Clear the DTC for the SAS control module using the M-MDS. (See CLEARING DTC.)</li> <li>Perform the DTC inspection for the SAS control module using the M-MDS. (See DTC INSPECTION.)</li> <li>Are the same DTCs present?</li> </ul>	Yes Go to the next step.
		No Replace the passenger-side air bag module. (See PASSENGER-SIDE AIR BAG MODULE REMOVAL/INSTALLATION.) Then go to the next step.

Step	Inspection	Action	
6	<b>PERFORM SAS CONTROL MODULE DTC INSPECTION</b> <ul style="list-style-type: none"><li>• Switch the ignition to off.</li><li>• Disconnect the negative battery cable and wait for <b>1 min or more</b>. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].)</li><li>• Disconnect the <b>SST (Fuel and thermometer checker)</b> or the <b>2 ohms</b> resistance.</li><li>• Connect the passenger-side air bag module connector.</li><li>• Connect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].)</li><li>• Switch the ignition ON (engine off or on).</li><li>• Clear the DTC for the SAS control module using the M-MDS. (See CLEARING DTC.)</li><li>• Perform the DTC inspection for the SAS control module using the M-MDS. (See DTC INSPECTION.)</li><li>• Are the same DTCs present?</li></ul>	Yes	Replace the SAS control module. (See SAS CONTROL MODULE REMOVAL/INSTALLATION.)
		No	DTC troubleshooting completed.