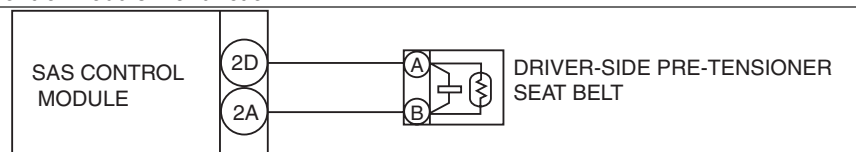


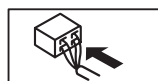
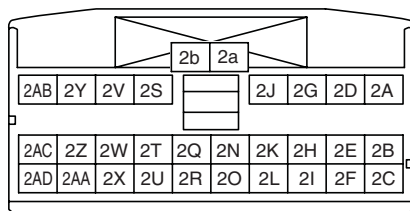
# DTC B1211:11/B1211:12/B1211:13/B1211:19/B1211:1A

id080200880200

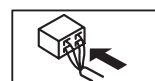
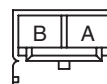
<b>System malfunction location</b>	<ul style="list-style-type: none"> <li>• B1211:11: Driver-side pre-tensioner seat belt circuit short to body ground</li> <li>• B1211:12: Driver-side pre-tensioner seat belt circuit short to power supply</li> <li>• B1211:13: Driver-side pre-tensioner seat belt circuit open circuit or resistance high</li> <li>• B1211:19: Short circuit to driver-side pre-tensioner seat belt and other air bag module circuits</li> <li>• B1211:1A: Driver-side pre-tensioner seat belt 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 other than <b>0.81—6.42 ohms</b> detected in driver-side pre-tensioner seat belt circuit</li> <li>• Wiring harness between the driver-side pre-tensioner seat belt and SAS control module has a malfunction</li> </ul>
<b>Fail-safe</b>	—
<b>Possible cause</b>	<ul style="list-style-type: none"> <li>• Driver-side pre-tensioner seat belt connector malfunction</li> <li>• Short circuit to power supply or body ground in the wiring harness between the driver-side pre-tensioner seat belt and SAS control module</li> <li>• Open circuit in the wiring harness between the driver-side pre-tensioner seat belt and SAS control module</li> <li>• Driver-side pre-tensioner seat belt malfunction</li> <li>• SAS control module malfunction</li> </ul>



SAS CONTROL MODULE WIRING HARNESS-SIDE CONNECTOR



DRIVER-SIDE PRE-TENSIONER SEAT BELT WIRING HARNESS-SIDE CONNECTOR



## Diagnostic Procedure

Step	Inspection	Action	
1	<b>INSPECT DRIVER-SIDE PRE-TENSIONER SEAT BELT CONNECTOR</b>  <b>Warning</b> <ul style="list-style-type: none"><li>• <b>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.)</b></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 driver-side B-pillar lower trim. (See B-PILLAR LOWER TRIM REMOVAL/ INSTALLATION.)</li><li>• Disconnect the driver-side pre-tensioner seat belt connector. (See FRONT SEAT BELT REMOVAL/INSTALLATION.)</li><li>• Inspect the driver-side pre-tensioner seat belt connector. (Corrosion, damage, and disconnected pins)</li><li>• Is there any malfunction of the driver-side pre-tensioner seat belt 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 DRIVER-SIDE PRE-TENSIONER SEAT BELT 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>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>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 connector. (See CURTAIN AIR BAG MODULE REMOVAL/INSTALLATION.)</li> <li>Remove the passenger-side B-pillar lower trim. (See B-PILLAR LOWER TRIM REMOVAL/INSTALLATION.)</li> <li>Disconnect the passenger-side pre-tensioner seat belt connector. (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 2D</li> <li>SAS control module terminal 2A</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 driver-side pre-tensioner seat belt.</li> </ul>	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 DRIVER-SIDE PRE-TENSIONER SEAT BELT CIRCUIT FOR OPEN CIRCUIT</b> <ul style="list-style-type: none"> <li>Driver-side pre-tensioner seat belt 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>Driver-side pre-tensioner seat belt terminal A—SAS control module terminal 2D</li> <li>Driver-side pre-tensioner seat belt terminal B—SAS control module terminal 2A</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 driver-side pre-tensioner seat belt.</li> </ul>	Yes	Go to the next step.
		No	Replace the wiring harness for a possible open circuit, then go to Step 6.
	• Is there continuity?		
	• Is there continuity?		

Step	Inspection	Action	
4	<b>INSPECT DRIVER-SIDE PRE-TENSIONER SEAT BELT CIRCUIT FOR SHORT TO POWER SUPPLY</b> <ul style="list-style-type: none"> <li>• Driver-side pre-tensioner seat belt 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 2D</li> <li>— SAS control module terminal 2A</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 driver-side pre-tensioner seat belt.</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 DRIVER-SIDE PRE-TENSIONER SEAT BELT</b> <ul style="list-style-type: none"> <li>• Switch the ignition to off.</li> <li>• Disconnect the negative battery cable and wait for <b>1min 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 driver-side pre-tensioner seat belt 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 driver-side pre-tensioner seat belt connector terminals A–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 driver-side pre-tensioner seat belt. (See FRONT SEAT BELT 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>1min 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 driver-side pre-tensioner seat belt 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.