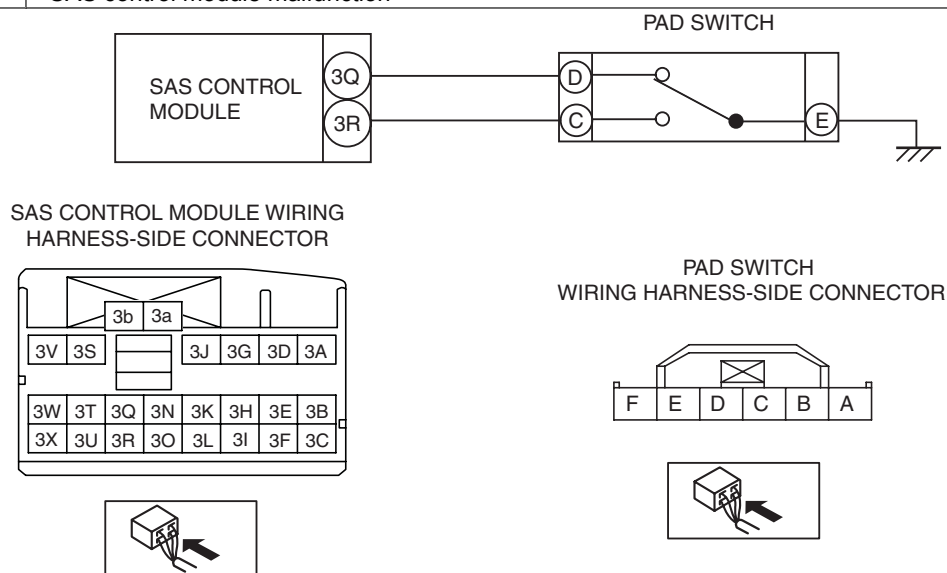


# DTC B1D75:62

id080200827900

<b>System malfunction location</b>	<ul style="list-style-type: none"> <li>PAD switch circuit open circuit or short to body ground</li> </ul>
<b>Detection condition</b>	<p><b>Warning</b></p> <ul style="list-style-type: none"> <li>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.</li> </ul> <ul style="list-style-type: none"> <li>Wiring harness between the PAD switch and SAS control module has a malfunction</li> <li>PAD switch has a malfunction</li> </ul>
<b>Fail-safe</b>	—
<b>Possible cause</b>	<ul style="list-style-type: none"> <li>PAD switch connector malfunction</li> <li>Open or short circuit or short to ground or short to power supply in the wiring harness between the PAD switch and SAS control module</li> <li>PAD switch malfunction</li> <li>SAS control module malfunction</li> </ul>



## Diagnostic Procedure

Step	Inspection	Action
1	<b>INSPECT PAD SWITCH CONNECTOR</b>	Yes Replace the malfunctioning part, then go to Step 5.
	<p><b>Warning</b></p> <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 passenger-side lower panel. (See LOWER PANEL REMOVAL/INSTALLATION.)</li> <li>Disconnect the PAD switch connector. (See PASSENGER AIR BAG DEACTIVATION (PAD) SWITCH REMOVAL/INSTALLATION.)</li> <li>Inspect the PAD switch connector. (Corrosion, damage, and disconnected pins)</li> <li>Is there any malfunction of the PAD switch connector?</li> </ul>	No Go to the next step.

Step	Inspection	Action	
2	<b>INSPECT PAD SWITCH 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 B-pillar lower trim. (See B-PILLAR LOWER TRIM REMOVAL/INSTALLATION.)</li> <li>Disconnect the driver and passenger-side pretensioner 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 3Q</li> <li>SAS control module terminal 3R</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 PAD switch.</li> </ul>	Yes	Replace the wiring harness for a possible short to ground, then go to Step 5.
		No	Go to the next step.
3	<b>INSPECT PAD SWITCH CIRCUIT FOR OPEN CIRCUIT</b> <ul style="list-style-type: none"> <li>PAD switch 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>PAD switch terminal D—SAS control module terminal 3Q</li> <li>PAD switch terminal C—SAS control module terminal 3R</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 PAD switch.</li> </ul>	Yes	Go to the next step.
		No	Replace the wiring harness for a possible open circuit, then go to Step 5.
	<ul style="list-style-type: none"> <li>Is there continuity?</li> </ul>		

Step	Inspection	Action
4	<b>INSPECT PAD SWITCH CIRCUIT FOR SHORT TO POWER SUPPLY</b> <ul style="list-style-type: none"> <li>PAD switch 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 3Q</li> <li>SAS control module terminal 3R</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 PAD switch.</li> </ul> <p>• Is the voltage <b>0V</b>?</p>	Yes Replace the PAD switch, then go to the next step. (See PASSENGER AIR BAG DEACTIVATION (PAD) SWITCH REMOVAL/INSTALLATION.)
		No Replace the wiring harness for a possible short to power supply, then go to the next step.
5	<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>Connect the SAS control module connectors.</li> <li>Reconnect all disconnected connectors.</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.