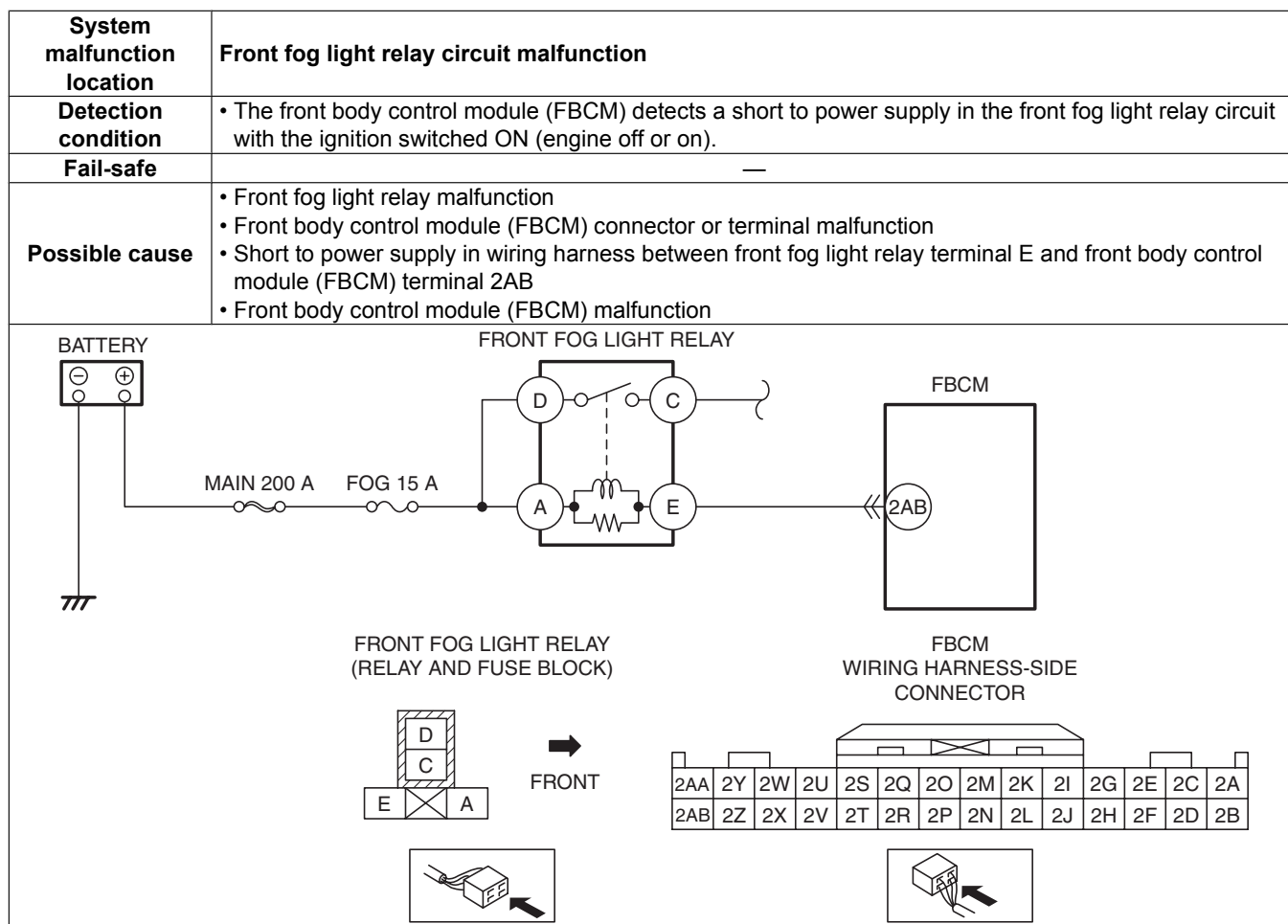


## DTC B13D2:12 [FRONT BODY CONTROL MODULE (FBCM)]

id0902p2008700



### Diagnostic Procedure

Diagnostic Procedure			
Step	Inspection	Action	
1	<b>VERIFY FRONT BODY CONTROL MODULE (FBCM) DTCs AGAIN</b> <ul style="list-style-type: none"><li>• Clear front body control module (FBCM) DTCs using the M-MDS. (See CLEARING DTC [FRONT BODY CONTROL MODULE (FBCM)].)</li><li>• Switch the ignition ON (engine off or on).</li><li>• Perform the front body control module (FBCM) DTC inspection using the M-MDS. (See DTC INSPECTION [FRONT BODY CONTROL MODULE (FBCM)].)</li><li>• Is DTC B13D2:12 displayed?</li></ul>	Yes	Go to the next step.
		No	Go to Step 6.

Step	Inspection	Action	
2	<b>INSPECT FRONT FOG LIGHT RELAY FOR MALFUNCTION</b> <ul style="list-style-type: none"> <li>• Switch the ignition to off.</li> <li>• Disconnect 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>• Remove the front fog light relay.</li> <li>• Inspect the front fog light relay. (See RELAY INSPECTION.)</li> <li>• Is the front fog light relay normal?</li> </ul>	Yes	Go to the next step.
		No	Replace the front fog light relay, then go to Step 5.
3	<b>INSPECT FRONT BODY CONTROL MODULE (FBCM) CONNECTOR CONDITION</b> <ul style="list-style-type: none"> <li>• Disconnect the front body control module (FBCM) connector.</li> <li>• Inspect the connector engagement and connection condition and inspect the terminals for damage, deformation, corrosion, or disconnection.</li> <li>• Is the connector normal?</li> </ul>	Yes	Go to the next step.
		No	Repair or replace the connector, then go to Step 5.
4	<b>INSPECT FRONT FOG LIGHT RELAY CONTROL CIRCUIT FOR SHORT TO POWER SUPPLY</b> <ul style="list-style-type: none"> <li>• Verify that the front fog light relay is removed.</li> <li>• Verify that the front body control module (FBCM) connector is 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 front body control module (FBCM) terminal 2AB (vehicle wiring harness side).</li> <li>• Is the voltage <b>0 V</b>?</li> </ul>	Yes	Go to the next step.
		No	Repair or replace the wiring harness and go to the next step.

Step	Inspection	Action
5	<b>VERIFY THAT REPAIRS HAVE BEEN COMPLETED</b> <ul style="list-style-type: none"> <li>• Reconnect all the disconnected connectors.</li> <li>• Reconnect the disconnected 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>• Clear front body control module (FBCM) DTCs using the M-MDS. (See CLEARING DTC [FRONT BODY CONTROL MODULE (FBCM)].)</li> <li>• Switch the ignition ON (engine off or on).</li> <li>• Operate the light switch in HEAD position and fog light switch in F.FOG position.</li> <li>• Perform the front body control module (FBCM) DTC inspection using the M-MDS. (See DTC INSPECTION [FRONT BODY CONTROL MODULE (FBCM)].)</li> <li>• Is DTC B13D2:12 displayed?</li> </ul>	Yes Repeat the inspection from Step 1. • If the malfunction recurs, replace the front body control module (FBCM), then go to the next step. (See FRONT BODY CONTROL MODULE (FBCM) REMOVAL/INSTALLATION.)
		No Go to the next step.
6	<b>VERIFY IF OTHER DTCs DISPLAYED</b> <ul style="list-style-type: none"> <li>• Are any other DTCs displayed?</li> </ul>	Yes Repair the malfunctioning part according to the applicable DTC troubleshooting. (See DTC TABLE [FRONT BODY CONTROL MODULE (FBCM)].)
		No DTC troubleshooting completed.