

# DTC U1007:68 [FRONT BODY CONTROL MODULE (FBCM)]

id0902p2011000

<b>System malfunction location</b>	<b>Communication error with current sensor</b>
<b>Detection condition</b>	• The front body control module (FBCM) detects communication error with the current sensor for <b>5 s</b> .
<b>Fail-safe</b>	—
<b>Possible cause</b>	<ul style="list-style-type: none"> <li>• Malfunction in communication line between front body control module (FBCM) and current sensor</li> <li>• Current sensor connector or terminal malfunction</li> <li>• Short to ground or open circuit in current sensor power supply circuit <ul style="list-style-type: none"> <li>— Short to ground in wiring harness between battery positive terminal and current sensor terminal A</li> <li>— MAIN 200 A fuse malfunction</li> <li>— ENG.+B 7.5 A fuse malfunction</li> <li>— Open circuit in wiring harness between battery positive terminal and current sensor terminal A</li> </ul> </li> <li>• Front body control module (FBCM) connector or terminal malfunction</li> <li>• Short to ground in wiring harness between current sensor terminal B and front body control module (FBCM) terminal 2E</li> <li>• Open circuit in wiring harness between current sensor terminal B and front body control module (FBCM) terminal 2E</li> <li>• Current sensor malfunction</li> <li>• Front body control module (FBCM) malfunction</li> </ul>

## 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) and wait for <b>5 s or more</b>.</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 U1007:68 displayed?</li></ul>	Yes Go to the next step.
		No Go to Step 9.

Step	Inspection	Action
2	<b>INSPECT CURRENT SENSOR CONNECTOR</b> <ul style="list-style-type: none"> <li>• Switch the ignition to off.</li> <li>• Disconnect the current sensor connector.</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>• 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 8.
3	<b>INSPECT CURRENT SENSOR POWER SUPPLY CIRCUIT FOR OPEN CIRCUIT OR SHORT TO GROUND</b> <ul style="list-style-type: none"> <li>• Verify that the current sensor 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>• Measure the voltage at current sensor terminal A (vehicle wiring harness side).</li> <li>• Is the voltage B+?</li> </ul>	Yes Go to the next step.
		No <b>INSPECT MAIN 200 A FUSE AND ENG.+B 7.5 A FUSE</b> <ul style="list-style-type: none"> <li>• If a fuse is burnt out: <ul style="list-style-type: none"> <li>— Repair or replace the wiring harness which is shorted to ground.</li> <li>— Replace the burnt out fuse.</li> </ul> </li> <li>• If a fuse is damaged: <ul style="list-style-type: none"> <li>— Replace the damaged fuse.</li> </ul> </li> <li>• All fuses are normal: <ul style="list-style-type: none"> <li>— Repair or replace the wiring harness which has an open circuit.</li> </ul> </li> </ul> Go to Step 8.
4	<b>INSPECT FRONT BODY CONTROL MODULE (FBCM) CONNECTOR CONDITION</b> <ul style="list-style-type: none"> <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>• 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 8.

Step	Inspection	Action	
5	<b>INSPECT CURRENT SENSOR LIN COMMUNICATION CIRCUIT FOR SHORT TO GROUND</b> <ul style="list-style-type: none"> <li>• Verify that the current sensor and front body control module (FBCM) connectors are disconnected.</li> <li>• Inspect for continuity between current sensor terminal B (vehicle wiring harness) and body ground.</li> <li>• Is there continuity?</li> </ul>	Yes	Repair or replace the wiring harness, then go to Step 8.
		No	Go to the next step.
6	<b>INSPECT CURRENT SENSOR LIN COMMUNICATION CIRCUIT FOR OPEN CIRCUIT</b> <ul style="list-style-type: none"> <li>• Verify that the current sensor and front body control module (FBCM) connectors are disconnected.</li> <li>• Inspect the wiring harness for continuity between current sensor terminal B (vehicle wiring harness side) and front body control module (FBCM) terminal 2E (vehicle wiring harness side).</li> <li>• Is there continuity?</li> </ul>	Yes	Go to the next step.
		No	Repair or replace the wiring harness, then go to Step 8.
7	<b>INSPECT CURRENT SENSOR</b> <ul style="list-style-type: none"> <li>• Inspect the current sensor. (See CURRENT SENSOR INSPECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See CURRENT SENSOR INSPECTION [SKYACTIV-D 2.2].)</li> <li>• Is the current sensor normal?</li> </ul>	Yes	Go to the next step.
		No	Replace the current sensor, then go to the next step. (See CURRENT SENSOR REMOVAL/INSTALLATION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See CURRENT SENSOR REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
8	<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) and wait for <b>5 s or more</b>.</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 U1007:68 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.
9	<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.