

# DTC B1048:7B [FRONT BODY CONTROL MODULE (FBCM)]

id0902p2006600

<b>System malfunction location</b>	<b>Brake fluid level sensor circuit malfunction</b>
<b>Detection condition</b>	<ul style="list-style-type: none"> <li>The front body control module (FBCM) detected that the brake fluid level is less than MIN with the ignition switched ON (engine off or on).</li> </ul>
<b>Fail-safe</b>	—
<b>Possible cause</b>	<ul style="list-style-type: none"> <li>Insufficient brake fluid level</li> <li>Brake fluid level sensor connector or terminal malfunction</li> <li>Front body control module (FBCM) connector or terminal malfunction</li> <li>Short to ground in wiring harness between brake fluid level sensor terminal B and front body control module (FBCM) terminal 2Q</li> <li>Brake fluid level sensor malfunction</li> <li>Front body control module (FBCM) malfunction</li> </ul>

## Diagnostic Procedure

Step	Inspection	Action
1	<b>VERIFY FRONT BODY CONTROL MODULE (FBCM) DTCs AGAIN</b> <ul style="list-style-type: none"> <li>Clear DTC for the front body control module (FBCM) 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 DTC inspection for the front body control module (FBCM) using the M-MDS. (See DTC INSPECTION [FRONT BODY CONTROL MODULE (FBCM)].)</li> <li>Is DTC B1048:7B displayed?</li> </ul>	Yes: Go to the next step. No: Go to Step 8.
2	<b>INSPECT BRAKE FLUID LEVEL</b> <ul style="list-style-type: none"> <li>Inspect the brake fluid level. (See BRAKE FLUID INSPECTION.)</li> <li>Is the brake fluid level normal?</li> </ul>	Yes: Go to the next step. No: Add genuine brake fluid, then go to Step 7.

Step	Inspection	Action	
3	<b>INSPECT BRAKE FLUID LEVEL SENSOR CONNECTOR CONDITION</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>• Disconnect the brake fluid level sensor 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 7.
4	<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 7.
5	<b>INSPECT BRAKE FLUID LEVEL SENSOR SIGNAL CIRCUIT FOR SHORT TO GROUND</b> <ul style="list-style-type: none"> <li>• Verify that the brake fluid level sensor and front body control module (FBCM) connectors are disconnected.</li> <li>• Inspect for continuity between rear body control module (FBCM) terminal 2Q (vehicle wiring harness) and body ground.</li> <li>• Is there continuity?</li> </ul>	Yes	Repair or replace the wiring harness, then go to Step 7.
		No	Go to the next step.
6	<b>INSPECT BRAKE FLUID LEVEL SENSOR</b> <ul style="list-style-type: none"> <li>• Inspect the brake fluid level sensor. (See BRAKE FLUID LEVEL SENSOR INSPECTION.)</li> <li>• Is the brake fluid level sensor normal?</li> </ul>	Yes	Go to the next step.
		No	Replace the brake fluid level sensor, then go to the next step. (See MASTER CYLINDER REMOVAL/INSTALLATION.)

Step	Inspection	Action
7	<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 DTC for the front body control module (FBCM) 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 DTC inspection for the front body control module (FBCM) using the M-MDS. (See DTC INSPECTION [FRONT BODY CONTROL MODULE (FBCM)].)</li> <li>• Is DTC B1048:7B 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.
8	<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.