

DTC B13CF:19 [FRONT BODY CONTROL MODULE (FBCM)]

id0902p2008400

System malfunction location	IG2 power supply output circuit malfunction
Detection condition	• The front body control module (FBCM) detects over-current in IG2 power supply output circuit with the ignition switched ON (engine off or on).
Fail-safe	—
Possible cause	• Front body control module (FBCM) connector or terminal malfunction • Short to ground in front body control module (FBCM) IG2 power supply output circuit • Front body control module (FBCM) malfunction
System wiring diagram	—

Diagnostic Procedure

Step	Inspection	Action
1	VERIFY FRONT BODY CONTROL MODULE (FBCM) DTCs AGAIN <ul style="list-style-type: none">• Clear front body control module (FBCM) DTCs using the M-MDS. (See CLEARING DTC [FRONT BODY CONTROL MODULE (FBCM)].)• Switch the ignition ON (engine off or on).• Perform the front body control module (FBCM) DTC inspection using the M-MDS. (See DTC INSPECTION [FRONT BODY CONTROL MODULE (FBCM)].)• Is DTC B13CF:19 displayed?	Yes Go to the next step.
		No Go to Step 5.
2	INSPECT FRONT BODY CONTROL MODULE (FBCM) CONNECTOR CONDITION <ul style="list-style-type: none">• Switch the ignition to off.• 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].)• Disconnect the front body control module (FBCM) connector.• Inspect the connector engagement and connection condition and inspect the terminals for damage, deformation, corrosion, or disconnection.• Is the connector normal?	Yes Go to the next step.
		No Repair or replace the connector, then go to Step 4.
3	INSPECT FRONT BODY CONTROL MODULE (FBCM) IG2 POWER SUPPLY OUTPUT CIRCUIT FOR SHORT TO GROUND <ul style="list-style-type: none">• Verify that the front body control module (FBCM) connector is disconnected.• Inspect for continuity between front body control module (FBCM) terminal 1C and body ground.• Is there continuity?	Yes Repair or replace the wiring harness which has a short to ground, then go to the next step.
		No Go to the next step.

Step	Inspection	Action
4	VERIFY THAT REPAIRS HAVE BEEN COMPLETED <ul style="list-style-type: none"> • Reconnect all the disconnected connectors. • 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].) • Clear front body control module (FBCM) DTCs using the M-MDS. (See CLEARING DTC [FRONT BODY CONTROL MODULE (FBCM)].) • Switch the ignition ON (engine off or on). • Perform the front body control module (FBCM) DTC inspection using the M-MDS. (See DTC INSPECTION [FRONT BODY CONTROL MODULE (FBCM)].) • Is DTC B13CF:19 displayed? 	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.
5	VERIFY IF OTHER DTCs DISPLAYED <ul style="list-style-type: none"> • Are any other DTCs displayed? 	Yes Repair the malfunctioning part according to the applicable DTC troubleshooting. (See DTC TABLE [FRONT BODY CONTROL MODULE (FBCM)].)
		No DTC troubleshooting completed.