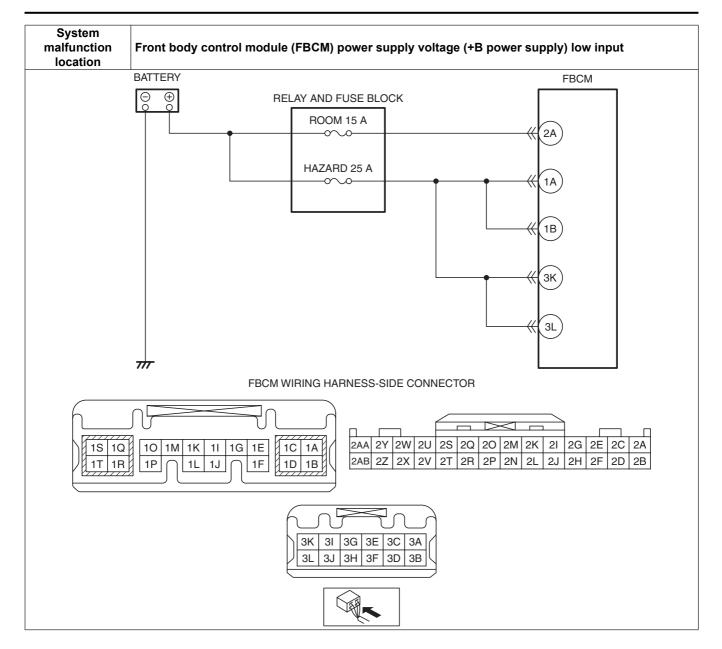
DTC U3003:16 [FRONT BODY CONTROL MODULE (FBCM)]

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System malfunction location	Front body control module (FBCM) power supply voltage (+B power supply) low input				
Detection	• Front body control module (FBCM) power supply circuit voltage of 8.8 V or less is detected for 10 s or				
condition	more with the ignition switched ON (engine off or on).				
Fail-safe	_				
Possible cause	 • DTCs are stored in the PCM. • Battery malfunction • Front body control module (FBCM) connector or terminal malfunction • Front body control module (FBCM) power supply circuit malfunction — Short to ground in the wiring harness between ROOM 15 A fuse and front body control module (FBCM) terminal 2A — Short to ground in the wiring harness between HAZARD 25 A fuse and front body control module (FBCM) terminal 1A — Short to ground in the wiring harness between HAZARD 25 A fuse and front body control module (FBCM) terminal 1B — Short to ground in the wiring harness between HAZARD 25 A fuse and front body control module (FBCM) terminal 3K — Short to ground in the wiring harness between HAZARD 25 A fuse and front body control module (FBCM) terminal 3L — ROOM 15 A fuse malfunction — HAZARD 25 A fuse malfunction — HAZARD 25 A fuse malfunction — Open circuit in wiring harness between battery positive terminal and front body control module (FBCM) terminal 1A — Open circuit in wiring harness between battery positive terminal and front body control module (FBCM) terminal 1B — Open circuit in wiring harness between battery positive terminal and front body control module (FBCM) terminal 1B — Open circuit in wiring harness between battery positive terminal and front body control module (FBCM) terminal 3K — Open circuit in wiring harness between battery positive terminal and front body control module (FBCM) terminal 3K — Open circuit in wiring harness between battery positive terminal and front body control module (FBCM) terminal 3L — Front body control module (FBCM) malfunction 				



Diagnostic Procedure

Step	Inspection		Action
1	VERIFY FRONT BODY CONTROL MODULE	Yes	Go to the next step.
	(FBCM) DTCs AGAIN	No	Go to Step 8.
	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) and		
	wait for 10 s or more.		
	Perform the front body control module (FBCM)		
	DTC inspection using the M-MDS.		
	(See DTC INSPECTION [FRONT BODY		
	CONTROL MODULE (FBCM)].)		
	Is DTC U3003:16 displayed?		

Step	Inspection		Action
2	VERIFY PCM DTCs Perform the DTC inspection for the PCM using the M-MDS.	Yes	Repair the malfunctioning part according to the applicable DTC troubleshooting. (See DTC TABLE [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)
	(See ON-BOARD DIAGNOSTIC TEST [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)	No	(See DTC TABLE [SKYACTIV-D 2.2].) Go to the next step.
	(See ON-BOARD DIAGNOSTIC TEST [SKYACTIV-D 2.2].) • Is the DTC displayed?		
3	INSPECT BATTERY	Yes	Go to the next step.
Š	Inspect the battery. (See BATTERY INSPECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See BATTERY INSPECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].) (See BATTERY INSPECTION [SKYACTIV-D 2.2].) Is the battery normal?	No	Recharge or replace the battery, then go to Step 7. (See BATTERY RECHARGING [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See BATTERY RECHARGING [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].) (See BATTERY RECHARGING [SKYACTIV-D 2.2].) (See BATTERY REMOVAL/INSTALLATION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See BATTERY REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
4	INSPECT GENERATOR	Yes	Go to the next step.
	Inspect the generator. (See GENERATOR INSPECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See GENERATOR INSPECTION [SKYACTIV-D 2.2].) Is the generator normal?	No	Replace the generator, then go to Step 7. (See GENERATOR REMOVAL/INSTALLATION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See GENERATOR REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
5	INSPECT FRONT BODY CONTROL MODULE	Yes	Go to the next step.
	(FBCM) CONNECTOR CONDITION • 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?	No	Repair or replace the connector, then go to Step 7.

6	VERIFY FRONT BODY CONTROL MODULE		
	VERNI I I ROMI BODI COMINCE MODULE	Yes	Go to the next step.
	(FBCM) POWER SUPPLY VOLTAGE Reconnect all the disconnected connectors. 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].) Display PID VPWR_B using the M-MDS. (See PID/DATA MONITOR INSPECTION [FRONT BODY CONTROL MODULE (FBCM)].)	No	 Inspect the ROOM 15 A, and HAZARD 25 A fuses. If a fuse is burnt out: Repair or replace the wiring harness which is shorted to ground. Replace the burnt out fuse. If a fuse is damaged: Replace the damaged fuse. All fuses are normal: Repair or replace the wiring harness which has an open circuit. Go to the next step.
7	Is the voltage B+? VERIFY THAT REPAIRS HAVE BEEN COMPLETED Reconnect all the disconnected connectors. Reconnect the disconnected negative battery cable.	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.)
	(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) and wait for 10 s or more. • Perform the front body control module (FBCM) DTC inspection using the M-MDS. (See DTC INSPECTION [FRONT BODY CONTROL MODULE (FBCM)].) • Is DTC U3003:16 displayed?	No	Go to the next step.
8	• Are any other DTCs displayed?	Yes	Repair the malfunctioning part according to the applicable DTC troubleshooting. (See DTC TABLE [FRONT BODY CONTROL MODULE (FBCM)].) DTC troubleshooting completed.