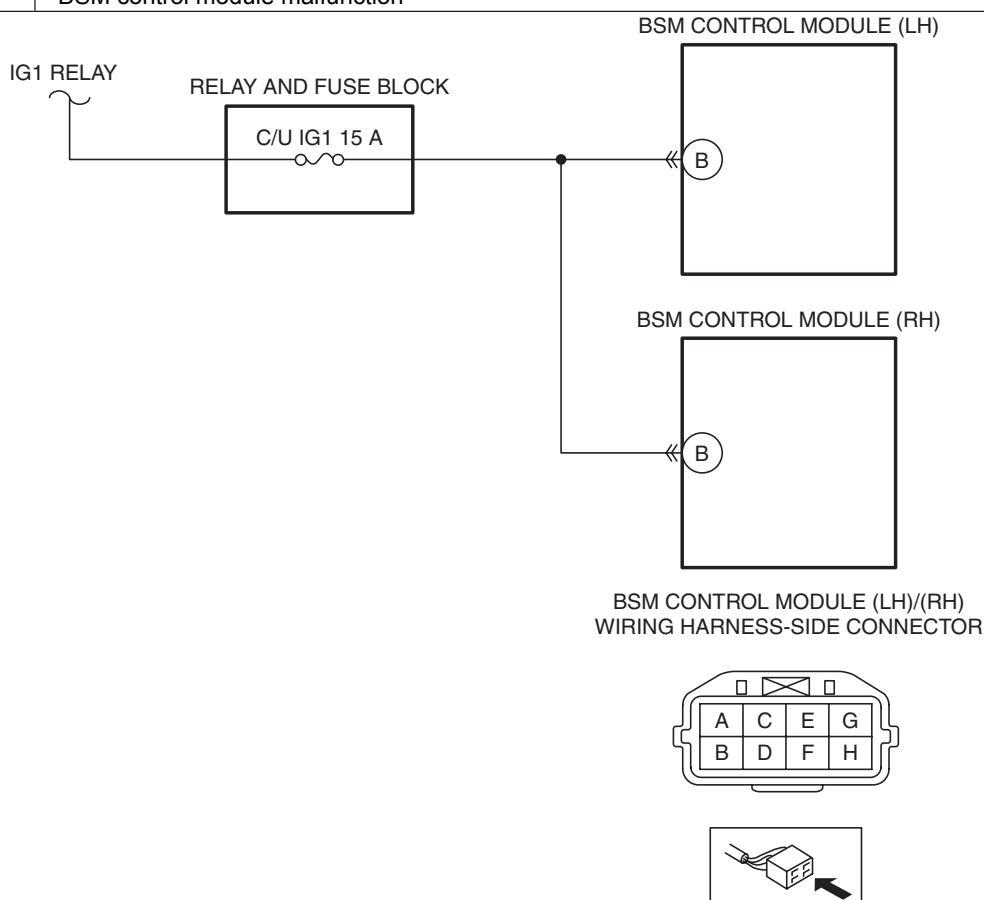


DTC U3003:16 [BLIND SPOT MONITORING (BSM)]

id0902i3394000

System malfunction location	BSM control module low power supply voltage input (less than 9 V)
Detection condition	• BSM control module power supply voltage of less than 9 V is detected for 10 s or more .
Fail-safe	• BSM is stopped.
Possible cause	<ul style="list-style-type: none"> • DTCs are stored in the PCM. • Battery malfunction • Generator malfunction • Malfunction in BSM control module (LH) connector or terminal • Malfunction in BSM control module (RH) connector or terminal • BSM control module power supply circuit malfunction <ul style="list-style-type: none"> — Short to ground in wiring harness between C/U IG1 15 A fuse and BSM control module terminal B — C/U IG1 15 A fuse malfunction — Open circuit in wiring harness between IG1 relay and BSM control module terminal B • BSM control module malfunction



Diagnostic Procedure

Step	Inspection	Action
1	VERIFY PCM DTCs <ul style="list-style-type: none"> • Perform the DTC inspection for the PCM using the M-MDS. (See ON-BOARD DIAGNOSTIC TEST [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See ON-BOARD DIAGNOSTIC TEST [SKYACTIV-D 2.2].) • Is the DTC displayed? 	Yes Repair the malfunctioning part according to the applicable DTC troubleshooting. (See DTC TABLE [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See DTC TABLE [SKYACTIV-D 2.2].)
		No Go to the next step.

Step	Inspection	Action	
2	INSPECT BATTERY <ul style="list-style-type: none"> Inspect the battery. (See BATTERY INSPECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See BATTERY INSPECTION [SKYACTIV-D 2.2].) Is the battery normal? 	Yes	Go to the next step.
		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-D 2.2].) (See BATTERY REMOVAL/INSTALLATION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See BATTERY REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
3	INSPECT GENERATOR <ul style="list-style-type: none"> 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? 	Yes	Go to the next step.
		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].)
4	INSPECT BSM CONTROL MODULE (LH) 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-D 2.2].) Disconnect the BSM control module (LH) 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 7.
5	INSPECT BSM CONTROL MODULE (RH) CONNECTOR CONDITION <ul style="list-style-type: none"> Disconnect the BSM control module (RH) 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 7.
6	VERIFY BSM CONTROL MODULE POWER SUPPLY VOLTAGE <ul style="list-style-type: none"> 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-D 2.2].) Display PID VPWR_IG1 using the M-MDS. (See PID/DATA MONITOR INSPECTION [BLIND SPOT MONITORING (BSM)].) Is the voltage B+? 	Yes	Go to the next step.
		No	Inspect the C/U IG1 15 A fuse. <ul style="list-style-type: none"> If a fuse is burnt out: <ul style="list-style-type: none"> Repair or replace the wiring harness which is shorted to ground. Replace the fuse. If a fuse is damaged: <ul style="list-style-type: none"> Replace the fuse. If the fuse is normal: <ul style="list-style-type: none"> Repair or replace the wiring harness which has an open circuit. Go to the next step.

Step	Inspection	Action
7	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-D 2.2].) • Clear BSM control module DTCs using the M-MDS. (See CLEARING DTC [BLIND SPOT MONITORING (BSM)].) • Switch the ignition ON (engine off or on) and wait for 10 s or more. • Perform the DTC inspection for the BSM control module using the M-MDS. (See DTC INSPECTION [BLIND SPOT MONITORING (BSM)].) • Is DTC U3003:16 displayed? 	Yes Repeat the inspection from Step 1. <ul style="list-style-type: none"> • If the malfunction recurs, replace the BSM control module, then go to the next step. (See BLIND SPOT MONITORING (BSM) CONTROL MODULE REMOVAL/INSTALLATION.)
		No Go to the next step.
8	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 [BLIND SPOT MONITORING (BSM)].)
		No DTC troubleshooting completed.