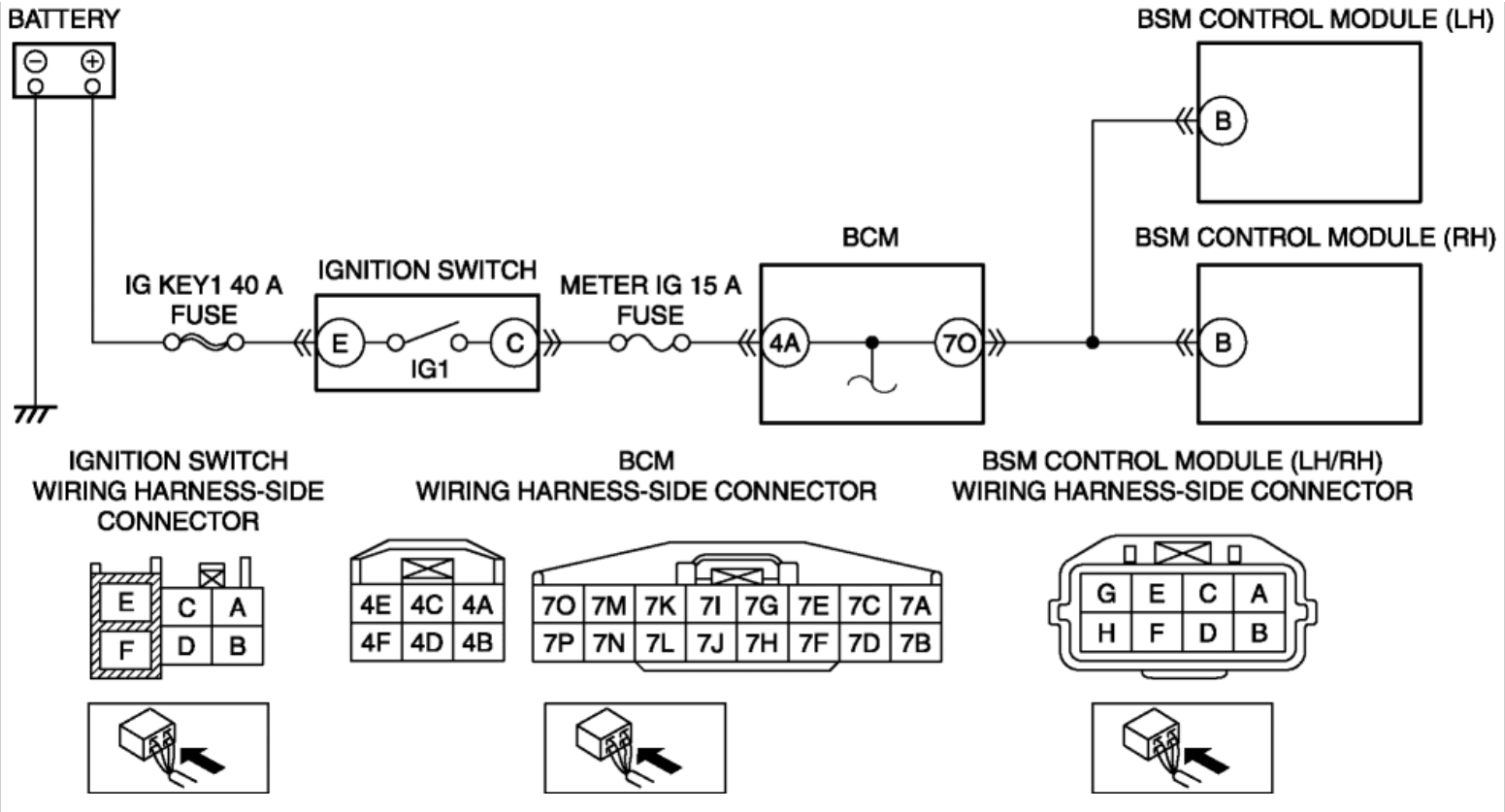


2012 - Mazda6 - Body and Accessories

DTC U3003:16/ U3003:17 [BLIND SPOT MONITORING (BSM)]

Vehicles With Keyless Entry System

DTC U3003:16	BSM control module power supply voltage decreases (less than 9 V)
DTC U3003:17	BSM control module power supply voltage increases (more than 16 V)
DETECTION CONDITION	BSM control module power supply voltage is not within 9—16 V.
POSSIBLE CAUSE	- Fuse malfunction - Battery malfunction - Generator malfunction - Connector or terminal malfunction - Short to ground in wiring harness between battery positive terminal and ignition switch terminal E - Open circuit in wiring harness between battery positive terminal and ignition switch terminal E - Ignition switch malfunction - Short to ground in wiring harness between ignition switch terminal C and BCM terminal 4A - Open circuit in wiring harness between ignition switch terminal C and BCM terminal 4A - BCM malfunction - Short to ground in wiring harness between BCM terminal 70 and BSM control module (LH/RH) terminal B - Open circuit in wiring harness between BCM terminal 70 and BSM control module (LH/RH) terminal B - BSM control module (LH/RH) malfunction



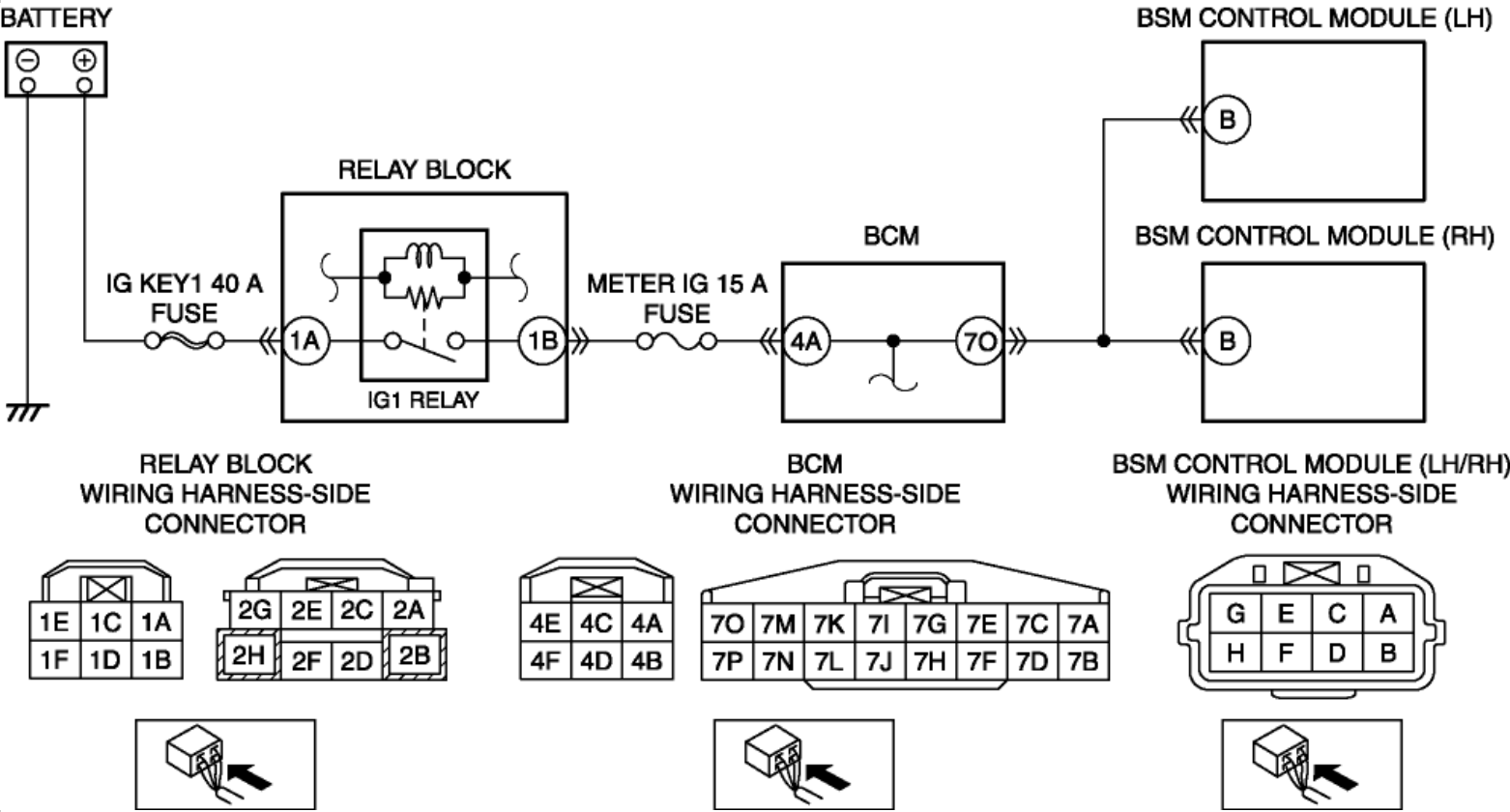
Diagnostic procedure

STEP	INSPECTION	ACTION
1	PERFORM PCM DTC INSPECTION - Perform the PCM DTC inspection using the M-MDS. (See ON-BOARD DIAGNOSTIC TEST [MZR 2.5].) (See ON-BOARD DIAGNOSTIC TEST [MZI 3.7 V6].) - Are any DTCs present?	YesGo to the applicable DTC inspection. (See DTC TABLE [MZR 2.5] .) (See DTC TABLE [MZI 3.7 V6] .)
		No Go to the next step.
2	INSPECT FUSE - Switch the ignition to off. - Disconnect the negative battery cable. - Remove and inspect the following fuses: - IG KEY1 40 A fuse - METER IG 15 A fuse - Are there any malfunction?	YesReplace the malfunctioning fuse, then go to Step 13.
		No Go to the next step.
3	INSPECT BATTERY - Inspect the battery. (See BATTERY INSPECTION [MZR 2.5].) (See BATTERY INSPECTION [MZI 3.7 V6].) - Is there any malfunction?	YesRecharge or replace the battery, then go to Step 13. (See BATTERY RECHARGING [MZR 2.5] .) (See BATTERY RECHARGING [MZI 3.7 V6] .) (See BATTERY REMOVAL/ INSTALLATION [MZR 2.5] .) (See BATTERY REMOVAL/ INSTALLATION [MZI 3.7 V6] .)
		No Go to the next step.

4	INSPECT GENERATOR - Inspect the generator. (See GENERATOR INSPECTION [MZR 2.5].) (See GENERATOR INSPECTION [MZI 3.7 V6].) - Is there any malfunction?	Yes Replace the generator, then go to Step 13. (See GENERATOR REMOVAL/ INSTALLATION [MZR 2.5].) (See GENERATOR REMOVAL/ INSTALLATION [MZI 3.7 V6].) No Go to the next step.
5	INSPECT IGNITION SWITCH CONNECTOR CONDITION - Disconnect the ignition switch connector. - Inspect for poor connection (damaged/pulled-out pins, corrosion). - Is there any malfunction?	Yes Repair or replace the connector or terminal, then go to Step 13. No Go to the next step.
6	INSPECT BSM CONTROL MODULE (LH/ RH) POWER SUPPLY CIRCUIT FOR SHORT TO GROUND OR OPEN CIRCUIT - Install the fuses. - Reconnect the negative battery cable. - Switch the ignition to ON. - Measure the voltage between ignition switch terminal E (wiring harness-side) and body ground. - Is the voltage within 9—16 V?	Yes Go to the next step. No Repair or replace the wiring harness for a possible short to ground or open circuit, then go to Step 13.
7	INSPECT IGNITION SWITCH - Inspect the ignition switch. (See IGNITION SWITCH INSPECTION [WITHOUT ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM].) - Is there any malfunction?	Yes Replace the ignition switch, then go to Step 13. (See IGNITION SWITCH REMOVAL/ INSTALLATION [WITHOUT ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM].) No Go to the next step.
8	INSPECT BCM CONNECTOR CONDITION - Switch the ignition to off. - Disconnect the BCM connector. - Inspect for poor connection (damaged/pulled-out pins, corrosion). - Is there any malfunction?	Yes Repair or replace the connector or terminal, then go to Step 13. No Go to the next step.
9	INSPECT BSM CONTROL MODULE (LH/ RH) POWER SUPPLY CIRCUIT FOR SHORT TO GROUND OR OPEN CIRCUIT - Reconnect the ignition switch connector. - Switch the ignition to ON. - Measure the voltage between BCM terminal 4A (wiring harness-side) and body ground. - Is the voltage within 9—16 V?	Yes Go to the next step. No Repair or replace the wiring harness for a possible short to ground or open circuit, then go to Step 13.
10	INSPECT BCM - Switch the ignition to off. - Reconnect the BCM connector.	Yes Replace the BCM, then go to Step 13. (See BODY CONTROL MODULE (BCM) REMOVAL/ INSTALLATION.)

	- Switch the ignition to ON. - Measure the voltage between following terminals and body ground: - BCM terminal 4A (wiring harness-side) - BCM terminal 7O (wiring harness-side) - Is the voltage normal? (See BODY CONTROL MODULE (BCM) INSPECTION.)	No	Go to the next step.
11	INSPECT BSM CONTROL MODULE (LH/ RH) CONNECTOR CONDITION - Switch the ignition to off. - Disconnect the BSM control module connector. - Inspect for poor connection (damaged/pulled-out pins, corrosion). - Is there any malfunction?	Yes	Repair or replace the connector or terminal, then go to Step 13.
		No	Go to the next step.
12	INSPECT BSM CONTROL MODULE (LH/ RH) POWER SUPPLY CIRCUIT FOR SHORT TO GROUND OR OPEN CIRCUIT - Switch the ignition to ON. - Measure the voltage between BSM control module (LH/RH) terminal B (wiring harness-side) and body ground. - Is the voltage within 9—16 V?	Yes	Go to the next step.
		No	Repair or replace the wiring harness for a possible short to ground or open circuit, then go to the next step.
13	VERIFY TROUBLESHOOTING COMPLETED - Switch the ignition to off. - Install the fuses. - Make sure to reconnect the disconnected connectors. - Reconnect the negative battery cable. - Clear the DTC from the BSM control module memory using the M-MDS. (See CLEARING DTC [BLIND SPOT MONITORING (BSM)].) - Perform the self-test with M-MDS. (See DTC INSPECTION [BLIND SPOT MONITORING (BSM)].) - Is the same DTC present?	Yes	Replace the BSM control module (LH/RH), then go to the next step. (See BLIND SPOT MONITORING (BSM) CONTROL MODULE REMOVAL/ INSTALLATION .)
		No	Go to the next step.
14	VERIFY THAT NO OTHER DTCs ARE RECORDED Are any DTCs present?	Yes	Go to the applicable DTC inspection. (See DTC TABLE [BLIND SPOT MONITORING (BSM)] .)
		No	DTC troubleshooting completed.

DTC U3003:16	BSM control module power supply voltage decreases (less than 9 V)
DTC U3003:17	BSM control module power supply voltage increases (more than 16 V)
DETECTION CONDITION	BSM control module power supply voltage is not within 9—16 V.
POSSIBLE CAUSE	- Fuse malfunction - Battery malfunction - Generator malfunction - Connector or terminal malfunction - Short to ground in wiring harness between battery positive terminal and relay block terminal 1A - Open circuit in wiring harness between battery positive terminal and relay block terminal 1A - Relay block malfunction - Short to ground in wiring harness between relay block terminal 1B and BCM terminal 4A - Open circuit in wiring harness between relay block terminal 1B and BCM terminal 4A - BCM malfunction - Short to ground in wiring harness between BCM terminal 7O and BSM control module (LH/RH) terminal B - Open circuit in wiring harness between BCM terminal 7O and BSM control module (LH/RH) terminal B - BSM control module (LH/RH) malfunction



Diagnostic procedure

STEP	INSPECTION	ACTION
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1	PERFORM PCM DTC INSPECTION - Perform the PCM DTC inspection using the M-MDS. (See ON-BOARD DIAGNOSTIC TEST [MZR 2.5].) (See ON-BOARD DIAGNOSTIC TEST [MZI 3.7 V6].) - Are any DTCs present?	Yes Go to the applicable DTC inspection. (See DTC TABLE [MZR 2.5].) (See DTC TABLE [MZI 3.7 V6].) No Go to the next step.
2	INSPECT FUSE - Switch the ignition to off. - Disconnect the negative battery cable. - Remove and inspect the following fuses: - IG KEY1 40 A fuse - METER IG 15 A fuse - Are there any malfunction?	Yes Replace the malfunctioning fuse, then go to Step 13. No Go to the next step.
3	INSPECT BATTERY - Inspect the battery. (See BATTERY INSPECTION [MZR 2.5].) (See BATTERY INSPECTION [MZI 3.7 V6].) - Is there any malfunction?	Yes Recharge or replace the battery, then go to Step 13. (See BATTERY RECHARGING [MZR 2.5].) (See BATTERY RECHARGING [MZI 3.7 V6].) (See BATTERY REMOVAL/ INSTALLATION [MZR 2.5].) (See BATTERY REMOVAL/ INSTALLATION [MZI 3.7 V6].) No Go to the next step.
4	INSPECT GENERATOR - Inspect the generator. (See GENERATOR INSPECTION [MZR 2.5].) (See GENERATOR INSPECTION [MZI 3.7 V6].) - Is there any malfunction?	Yes Replace the generator, then go to Step 13. (See GENERATOR REMOVAL/ INSTALLATION [MZR 2.5].) (See GENERATOR REMOVAL/ INSTALLATION [MZI 3.7 V6].) No Go to the next step.
5	INSPECT RELAY BLOCK CONNECTOR CONDITION - Disconnect the relay block connector. - Inspect for poor connection (damaged/pulled-out pins, corrosion). - Is there any malfunction?	Yes Repair or replace the connector or terminal, then go to Step 13. No Go to the next step.
6	INSPECT BSM CONTROL MODULE (LH/ RH) POWER SUPPLY CIRCUIT FOR SHORT TO GROUND OR OPEN CIRCUIT - Install the fuses. - Reconnect the negative battery cable. - Switch the ignition to ON. - Measure the voltage between relay block terminal 1A (wiring harness-side) and body ground. - Is the voltage within 9—16 V?	Yes Go to the next step. No Repair or replace the wiring harness for a possible short to ground or open circuit, then go to Step 13.
7	INSPECT RELAY BLOCK Inspect the relay block. (See RELAY BLOCK INSPECTION [WITH ADVANCED	Yes Replace the relay block, then go to Step 13. (See RELAY BLOCK REMOVAL/ INSTALLATION [WITH ADVANCED KEYLESS ENTRY AND PUSH BUTTON START

	KEYLESS ENTRY AND PUSH BUTTON START SYSTEM] .) Is there any malfunction?	SYSTEM] .) No Go to the next step.
8	INSPECT BCM CONNECTOR CONDITION - Switch the ignition to off. - Disconnect the BCM connector. - Inspect for poor connection (damaged/pulled-out pins, corrosion). - Is there any malfunction?	Yes Repair or replace the connector or terminal, then go to Step 13. No Go to the next step.
9	INSPECT BSM CONTROL MODULE (LH/ RH) POWER SUPPLY CIRCUIT FOR SHORT TO GROUND OR OPEN CIRCUIT - Reconnect the relay block connector. - Switch the ignition to ON. - Measure the voltage between BCM terminal 4A (wiring harness-side) and body ground. - Is the voltage within 9—16 V?	Yes Go to the next step. No Repair or replace the wiring harness for a possible short to ground or open circuit, then go to Step 13.
10	INSPECT BCM - Switch the ignition to off. - Reconnect the BCM connector. - Switch the ignition to ON. - Measure the voltage between following terminals and body ground: - BCM terminal 4A (wiring harness-side) - BCM terminal 7O (wiring harness-side) - Is the voltage normal? (See BODY CONTROL MODULE (BCM) INSPECTION .)	Yes Replace the BCM, then go to Step 13. (See BODY CONTROL MODULE (BCM) REMOVAL/ INSTALLATION .) No Go to the next step.
11	INSPECT BSM CONTROL MODULE (LH/ RH) CONNECTOR CONDITION - Switch the ignition to off. - Disconnect the BSM control module connector. - Inspect for poor connection (damaged/pulled-out pins, corrosion). - Is there any malfunction?	Yes Repair or replace the connector or terminal, then go to Step 13. No Go to the next step.
12	INSPECT BSM CONTROL MODULE (LH/ RH) POWER SUPPLY CIRCUIT FOR SHORT TO GROUND OR OPEN CIRCUIT - Switch the ignition to ON. - Measure the voltage between BSM control module (LH/RH) terminal B (wiring harness-side) and body ground. - Is the voltage within 9—16 V?	Yes Go to the next step. No Repair or replace the wiring harness for a possible short to ground or open circuit, then go to the next step.
13	VERIFY TROUBLESHOOTING COMPLETED Switch the ignition to off.	Yes Replace the BSM control module (LH/RH), then go to the next step.

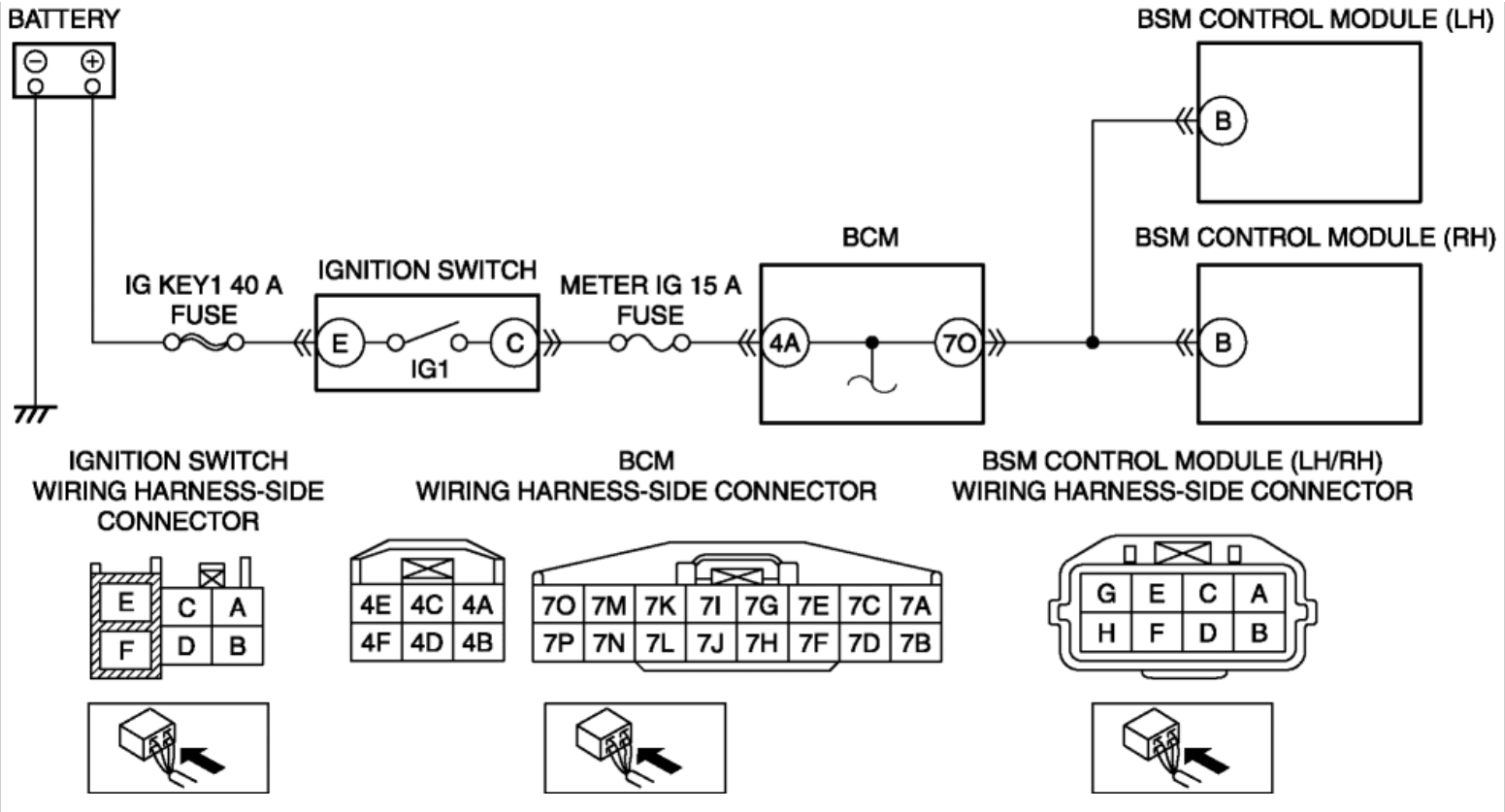
	• Install the fuses. • Make sure to reconnect the disconnected connectors. • Reconnect the negative battery cable. • Clear the DTC from the BSM control module memory using the M-MDS. (See CLEARING DTC [BLIND SPOT MONITORING (BSM)].) • Perform the self-test with M-MDS. (See DTC INSPECTION [BLIND SPOT MONITORING (BSM)].) • Is the same DTC present?	(See BLIND SPOT MONITORING (BSM) CONTROL MODULE REMOVAL/ INSTALLATION.) NoGo to the next step.
14	VERIFY THAT NO OTHER DTCs ARE RECORDED • Are any DTCs present?	YesGo to the applicable DTC inspection. (See DTC TABLE [BLIND SPOT MONITORING (BSM)] .)
		NoDTC troubleshooting completed.

2012 - Mazda6 - Body and Accessories

DTC U3003:16/ U3003:17 [BLIND SPOT MONITORING (BSM)]

Vehicles With Keyless Entry System

DTC U3003:16	BSM control module power supply voltage decreases (less than 9 V)
DTC U3003:17	BSM control module power supply voltage increases (more than 16 V)
DETECTION CONDITION	BSM control module power supply voltage is not within 9—16 V.
POSSIBLE CAUSE	- Fuse malfunction - Battery malfunction - Generator malfunction - Connector or terminal malfunction - Short to ground in wiring harness between battery positive terminal and ignition switch terminal E - Open circuit in wiring harness between battery positive terminal and ignition switch terminal E - Ignition switch malfunction - Short to ground in wiring harness between ignition switch terminal C and BCM terminal 4A - Open circuit in wiring harness between ignition switch terminal C and BCM terminal 4A - BCM malfunction - Short to ground in wiring harness between BCM terminal 70 and BSM control module (LH/RH) terminal B - Open circuit in wiring harness between BCM terminal 70 and BSM control module (LH/RH) terminal B - BSM control module (LH/RH) malfunction



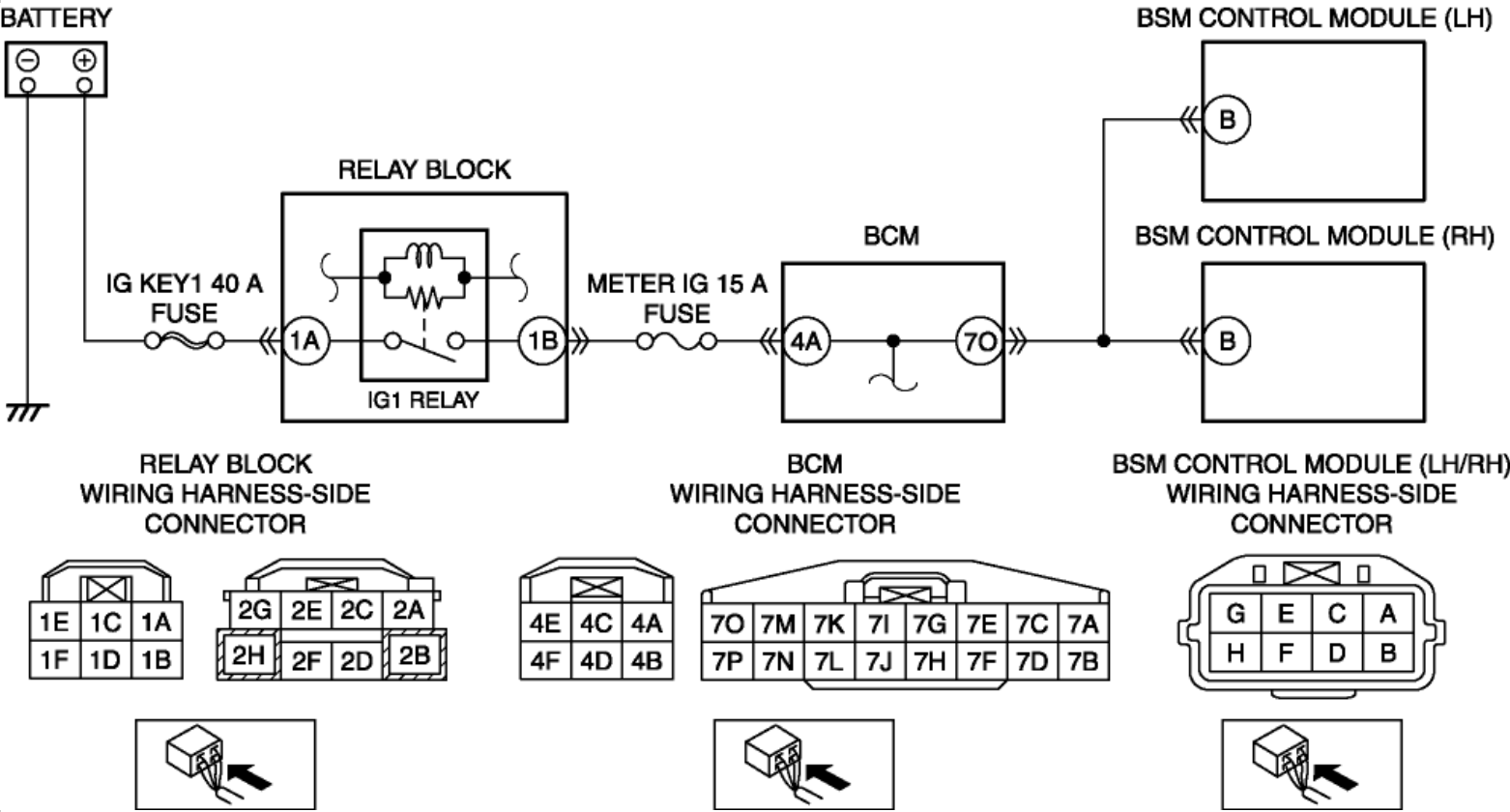
Diagnostic procedure

STEP	INSPECTION	ACTION
1	PERFORM PCM DTC INSPECTION - Perform the PCM DTC inspection using the M-MDS. (See ON-BOARD DIAGNOSTIC TEST [MZR 2.5].) (See ON-BOARD DIAGNOSTIC TEST [MZI 3.7 V6].) - Are any DTCs present?	YesGo to the applicable DTC inspection. (See DTC TABLE [MZR 2.5] .) (See DTC TABLE [MZI 3.7 V6] .)
		No Go to the next step.
2	INSPECT FUSE - Switch the ignition to off. - Disconnect the negative battery cable. - Remove and inspect the following fuses: - IG KEY1 40 A fuse - METER IG 15 A fuse - Are there any malfunction?	YesReplace the malfunctioning fuse, then go to Step 13.
		No Go to the next step.
3	INSPECT BATTERY - Inspect the battery. (See BATTERY INSPECTION [MZR 2.5].) (See BATTERY INSPECTION [MZI 3.7 V6].) - Is there any malfunction?	YesRecharge or replace the battery, then go to Step 13. (See BATTERY RECHARGING [MZR 2.5] .) (See BATTERY RECHARGING [MZI 3.7 V6] .) (See BATTERY REMOVAL/ INSTALLATION [MZR 2.5] .) (See BATTERY REMOVAL/ INSTALLATION [MZI 3.7 V6] .)
		No Go to the next step.

4	INSPECT GENERATOR - Inspect the generator. (See GENERATOR INSPECTION [MZR 2.5].) (See GENERATOR INSPECTION [MZI 3.7 V6].) - Is there any malfunction?	Yes Replace the generator, then go to Step 13. (See GENERATOR REMOVAL/ INSTALLATION [MZR 2.5].) (See GENERATOR REMOVAL/ INSTALLATION [MZI 3.7 V6].) No Go to the next step.
5	INSPECT IGNITION SWITCH CONNECTOR CONDITION - Disconnect the ignition switch connector. - Inspect for poor connection (damaged/pulled-out pins, corrosion). - Is there any malfunction?	Yes Repair or replace the connector or terminal, then go to Step 13. No Go to the next step.
6	INSPECT BSM CONTROL MODULE (LH/ RH) POWER SUPPLY CIRCUIT FOR SHORT TO GROUND OR OPEN CIRCUIT - Install the fuses. - Reconnect the negative battery cable. - Switch the ignition to ON. - Measure the voltage between ignition switch terminal E (wiring harness-side) and body ground. - Is the voltage within 9—16 V?	Yes Go to the next step. No Repair or replace the wiring harness for a possible short to ground or open circuit, then go to Step 13.
7	INSPECT IGNITION SWITCH - Inspect the ignition switch. (See IGNITION SWITCH INSPECTION [WITHOUT ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM].) - Is there any malfunction?	Yes Replace the ignition switch, then go to Step 13. (See IGNITION SWITCH REMOVAL/ INSTALLATION [WITHOUT ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM].) No Go to the next step.
8	INSPECT BCM CONNECTOR CONDITION - Switch the ignition to off. - Disconnect the BCM connector. - Inspect for poor connection (damaged/pulled-out pins, corrosion). - Is there any malfunction?	Yes Repair or replace the connector or terminal, then go to Step 13. No Go to the next step.
9	INSPECT BSM CONTROL MODULE (LH/ RH) POWER SUPPLY CIRCUIT FOR SHORT TO GROUND OR OPEN CIRCUIT - Reconnect the ignition switch connector. - Switch the ignition to ON. - Measure the voltage between BCM terminal 4A (wiring harness-side) and body ground. - Is the voltage within 9—16 V?	Yes Go to the next step. No Repair or replace the wiring harness for a possible short to ground or open circuit, then go to Step 13.
10	INSPECT BCM - Switch the ignition to off. - Reconnect the BCM connector.	Yes Replace the BCM, then go to Step 13. (See BODY CONTROL MODULE (BCM) REMOVAL/ INSTALLATION.)

	- Switch the ignition to ON. - Measure the voltage between following terminals and body ground: - BCM terminal 4A (wiring harness-side) - BCM terminal 7O (wiring harness-side) - Is the voltage normal? (See BODY CONTROL MODULE (BCM) INSPECTION.)	No	Go to the next step.
11	INSPECT BSM CONTROL MODULE (LH/ RH) CONNECTOR CONDITION - Switch the ignition to off. - Disconnect the BSM control module connector. - Inspect for poor connection (damaged/pulled-out pins, corrosion). - Is there any malfunction?	Yes	Repair or replace the connector or terminal, then go to Step 13.
		No	Go to the next step.
12	INSPECT BSM CONTROL MODULE (LH/ RH) POWER SUPPLY CIRCUIT FOR SHORT TO GROUND OR OPEN CIRCUIT - Switch the ignition to ON. - Measure the voltage between BSM control module (LH/RH) terminal B (wiring harness-side) and body ground. - Is the voltage within 9—16 V?	Yes	Go to the next step.
		No	Repair or replace the wiring harness for a possible short to ground or open circuit, then go to the next step.
13	VERIFY TROUBLESHOOTING COMPLETED - Switch the ignition to off. - Install the fuses. - Make sure to reconnect the disconnected connectors. - Reconnect the negative battery cable. - Clear the DTC from the BSM control module memory using the M-MDS. (See CLEARING DTC [BLIND SPOT MONITORING (BSM)].) - Perform the self-test with M-MDS. (See DTC INSPECTION [BLIND SPOT MONITORING (BSM)].) - Is the same DTC present?	Yes	Replace the BSM control module (LH/RH), then go to the next step. (See BLIND SPOT MONITORING (BSM) CONTROL MODULE REMOVAL/ INSTALLATION .)
		No	Go to the next step.
14	VERIFY THAT NO OTHER DTCs ARE RECORDED Are any DTCs present?	Yes	Go to the applicable DTC inspection. (See DTC TABLE [BLIND SPOT MONITORING (BSM)] .)
		No	DTC troubleshooting completed.

DTC U3003:16	BSM control module power supply voltage decreases (less than 9 V)
DTC U3003:17	BSM control module power supply voltage increases (more than 16 V)
DETECTION CONDITION	BSM control module power supply voltage is not within 9—16 V.
POSSIBLE CAUSE	- Fuse malfunction - Battery malfunction - Generator malfunction - Connector or terminal malfunction - Short to ground in wiring harness between battery positive terminal and relay block terminal 1A - Open circuit in wiring harness between battery positive terminal and relay block terminal 1A - Relay block malfunction - Short to ground in wiring harness between relay block terminal 1B and BCM terminal 4A - Open circuit in wiring harness between relay block terminal 1B and BCM terminal 4A - BCM malfunction - Short to ground in wiring harness between BCM terminal 7O and BSM control module (LH/RH) terminal B - Open circuit in wiring harness between BCM terminal 7O and BSM control module (LH/RH) terminal B - BSM control module (LH/RH) malfunction



Diagnostic procedure

STEP	INSPECTION	ACTION
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1	PERFORM PCM DTC INSPECTION - Perform the PCM DTC inspection using the M-MDS. (See ON-BOARD DIAGNOSTIC TEST [MZR 2.5].) (See ON-BOARD DIAGNOSTIC TEST [MZI 3.7 V6].) - Are any DTCs present?	Yes Go to the applicable DTC inspection. (See DTC TABLE [MZR 2.5] .) (See DTC TABLE [MZI 3.7 V6] .)
		No Go to the next step.
2	INSPECT FUSE - Switch the ignition to off. - Disconnect the negative battery cable. - Remove and inspect the following fuses: - IG KEY1 40 A fuse - METER IG 15 A fuse - Are there any malfunction?	Yes Replace the malfunctioning fuse, then go to Step 13.
		No Go to the next step.
3	INSPECT BATTERY - Inspect the battery. (See BATTERY INSPECTION [MZR 2.5].) (See BATTERY INSPECTION [MZI 3.7 V6].) - Is there any malfunction?	Yes Recharge or replace the battery, then go to Step 13. (See BATTERY RECHARGING [MZR 2.5] .) (See BATTERY RECHARGING [MZI 3.7 V6] .) (See BATTERY REMOVAL/ INSTALLATION [MZR 2.5] .) (See BATTERY REMOVAL/ INSTALLATION [MZI 3.7 V6] .)
		No Go to the next step.
4	INSPECT GENERATOR - Inspect the generator. (See GENERATOR INSPECTION [MZR 2.5].) (See GENERATOR INSPECTION [MZI 3.7 V6].) - Is there any malfunction?	Yes Replace the generator, then go to Step 13. (See GENERATOR REMOVAL/ INSTALLATION [MZR 2.5] .) (See GENERATOR REMOVAL/ INSTALLATION [MZI 3.7 V6] .)
		No Go to the next step.
5	INSPECT RELAY BLOCK CONNECTOR CONDITION - Disconnect the relay block connector. - Inspect for poor connection (damaged/pulled-out pins, corrosion). - Is there any malfunction?	Yes Repair or replace the connector or terminal, then go to Step 13.
		No Go to the next step.
6	INSPECT BSM CONTROL MODULE (LH/ RH) POWER SUPPLY CIRCUIT FOR SHORT TO GROUND OR OPEN CIRCUIT - Install the fuses. - Reconnect the negative battery cable. - Switch the ignition to ON. - Measure the voltage between relay block terminal 1A (wiring harness-side) and body ground. - Is the voltage within 9—16 V?	Yes Go to the next step.
		No Repair or replace the wiring harness for a possible short to ground or open circuit, then go to Step 13.
7	INSPECT RELAY BLOCK Inspect the relay block. (See RELAY BLOCK INSPECTION [WITH ADVANCED	Yes Replace the relay block, then go to Step 13. (See RELAY BLOCK REMOVAL/ INSTALLATION [WITH ADVANCED KEYLESS ENTRY AND PUSH BUTTON START

	KEYLESS ENTRY AND PUSH BUTTON START SYSTEM] .) Is there any malfunction?	SYSTEM] .) No Go to the next step.
8	INSPECT BCM CONNECTOR CONDITION - Switch the ignition to off. - Disconnect the BCM connector. - Inspect for poor connection (damaged/pulled-out pins, corrosion). - Is there any malfunction?	Yes Repair or replace the connector or terminal, then go to Step 13. No Go to the next step.
9	INSPECT BSM CONTROL MODULE (LH/ RH) POWER SUPPLY CIRCUIT FOR SHORT TO GROUND OR OPEN CIRCUIT - Reconnect the relay block connector. - Switch the ignition to ON. - Measure the voltage between BCM terminal 4A (wiring harness-side) and body ground. - Is the voltage within 9—16 V?	Yes Go to the next step. No Repair or replace the wiring harness for a possible short to ground or open circuit, then go to Step 13.
10	INSPECT BCM - Switch the ignition to off. - Reconnect the BCM connector. - Switch the ignition to ON. - Measure the voltage between following terminals and body ground: - BCM terminal 4A (wiring harness-side) - BCM terminal 7O (wiring harness-side) - Is the voltage normal? (See BODY CONTROL MODULE (BCM) INSPECTION .)	Yes Replace the BCM, then go to Step 13. (See BODY CONTROL MODULE (BCM) REMOVAL/ INSTALLATION .) No Go to the next step.
11	INSPECT BSM CONTROL MODULE (LH/ RH) CONNECTOR CONDITION - Switch the ignition to off. - Disconnect the BSM control module connector. - Inspect for poor connection (damaged/pulled-out pins, corrosion). - Is there any malfunction?	Yes Repair or replace the connector or terminal, then go to Step 13. No Go to the next step.
12	INSPECT BSM CONTROL MODULE (LH/ RH) POWER SUPPLY CIRCUIT FOR SHORT TO GROUND OR OPEN CIRCUIT - Switch the ignition to ON. - Measure the voltage between BSM control module (LH/RH) terminal B (wiring harness-side) and body ground. - Is the voltage within 9—16 V?	Yes Go to the next step. No Repair or replace the wiring harness for a possible short to ground or open circuit, then go to the next step.
13	VERIFY TROUBLESHOOTING COMPLETED Switch the ignition to off.	Yes Replace the BSM control module (LH/RH), then go to the next step.

	• Install the fuses. • Make sure to reconnect the disconnected connectors. • Reconnect the negative battery cable. • Clear the DTC from the BSM control module memory using the M-MDS. (See CLEARING DTC [BLIND SPOT MONITORING (BSM)].) • Perform the self-test with M-MDS. (See DTC INSPECTION [BLIND SPOT MONITORING (BSM)].) • Is the same DTC present?	(See BLIND SPOT MONITORING (BSM) CONTROL MODULE REMOVAL/ INSTALLATION.) NoGo to the next step.
14	VERIFY THAT NO OTHER DTCs ARE RECORDED • Are any DTCs present?	YesGo to the applicable DTC inspection. (See DTC TABLE [BLIND SPOT MONITORING (BSM)] .)
		NoDTC troubleshooting completed.