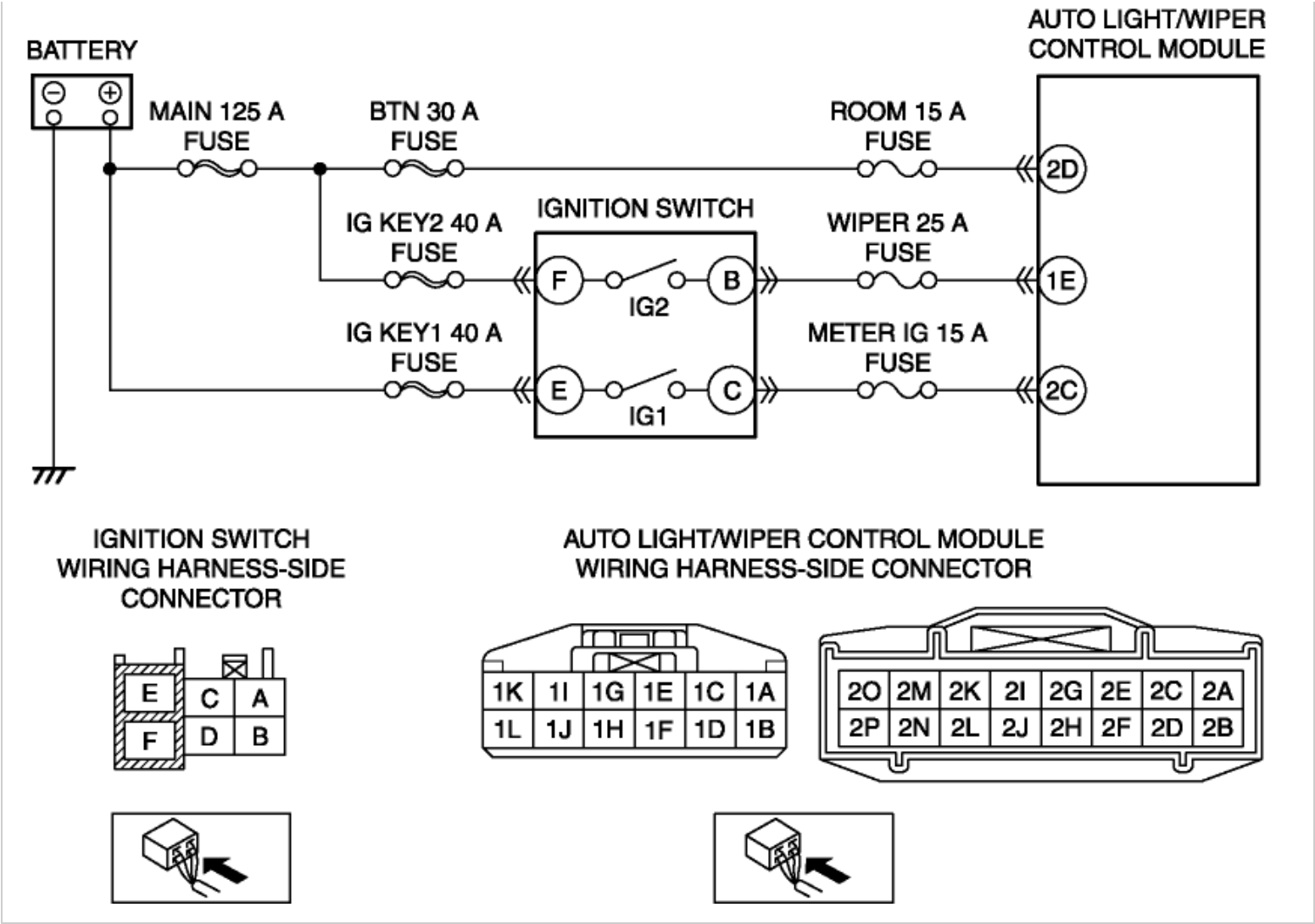


2012 - Mazda6 - Body and Accessories

DTC B1318 [AUTO LIGHT/ WIPER CONTROL MODULE]

Vehicles With Keyless Entry System

DESCRIPTION	Battery voltage low
DETECTION CONDITION	Input voltage from the battery is excessively low
POSSIBLE CAUSE	• Fuse malfunction • Battery malfunction • Generator malfunction • Connector or terminal malfunction • Ignition switch malfunction • Short to ground or open circuit in wiring harness between positive battery terminal and auto light/wiper control module terminal 2D • Short to ground or open circuit in wiring harness between positive battery terminal and ignition switch terminal E • Short to ground or open circuit in wiring harness between positive battery terminal and ignition switch terminal F • Short to ground in wiring harness between ignition switch terminal B and auto light/wiper control module terminal 1E • Short to ground in wiring harness between ignition switch terminal C and auto light/wiper control module terminal 2C • Open circuit in wiring harness between ignition switch terminal B and auto light/wiper control module terminal 1E • Open circuit in wiring harness between ignition switch terminal C and auto light/wiper control module terminal 2C • Auto light/wiper control module 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?	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:	Yes Replace the malfunctioning fuse, then go to Step 11. No Go to the next step.

	▪ MAIN 125 A fuse ▪ BTN 30 A fuse ▪ IG KEY1 40 A fuse ▪ IG KEY2 40 A fuse ▪ ROOM 15 A fuse ▪ METER IG 15 A fuse ▪ WIPER 25 A fuse • Are there any malfunction?		
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 11. (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 11. (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 11.
		No	Go to the next step.
6	INSPECT AUTO LIGHT/ WIPER CONTROL MODULE CONNECTOR CONDITION • Disconnect the auto light/wiper 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 11.
		No	Go to the next step.
7	INSPECT IGNITION SWITCH	Yes	Replace the ignition switch, then go to Step 11.

	- Inspect the ignition switch. (See IGNITION SWITCH INSPECTION [WITHOUT ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM].) - Is there any malfunction?	(See IGNITION SWITCH REMOVAL/ INSTALLATION [WITHOUT ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM].) No Go to the next step.
8	INSPECT AUTO LIGHT/ WIPER CONTROL MODULE 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 following terminals and body ground: - Auto light/wiper control module terminal 2D (wiring harness-side) - ignition switch terminal E (wiring harness-side) - ignition switch terminal F (wiring harness-side) - Is the voltage B+ ?	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 11.
9	INSPECT AUTO LIGHT/ WIPER CONTROL MODULE POWER SUPPLY CIRCUIT FOR SHORT TO GROUND - Inspect for continuity between following terminals and body ground: - Ignition switch terminal B (wiring harness-side) - Ignition switch terminal C (wiring harness-side) - Is there continuity?	Yes Repair or replace the wiring harness for a possible short to ground, then go to Step 11. No Go to the next step.
10	INSPECT AUTO LIGHT/ WIPER CONTROL MODULE POWER SUPPLY CIRCUIT FOR OPEN CIRCUIT - Inspect for continuity between following terminals: - Ignition switch terminal B (wiring harness-side) and auto light/wiper control module terminal 1E (wiring harness-side) - Ignition switch terminal C (wiring harness-side) and auto light/wiper control module terminal 2C (wiring harness-side)	Yes Go to the next step. No Repair or replace the wiring harness for a possible open circuit, then go to the next step.

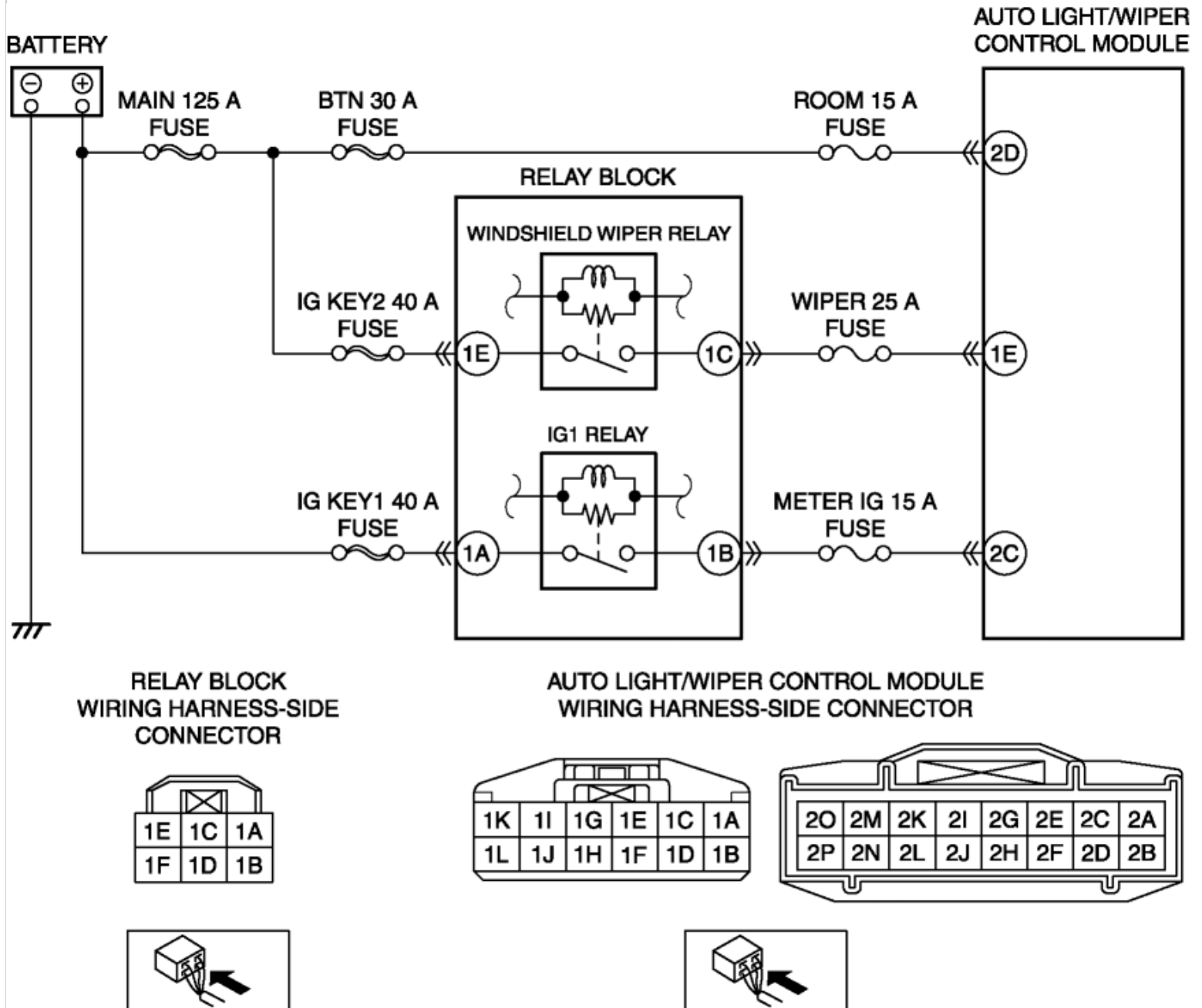
	Is there continuity?		
11	VERIFY TROUBLESHOOTING COMPLETED - Switch the ignition to off. - Reconnect the negative battery cable. - Make sure to reconnect the disconnected connectors. - Clear the DTC from the auto light/wiper control module memory using the M-MDS. (See CLEARING DTC [AUTO LIGHT/ WIPER CONTROL MODULE].) - Perform the auto light/wiper control module DTC inspection using the M-MDS. (See DTC INSPECTION [AUTO LIGHT/ WIPER CONTROL MODULE].) - Is the same DTC present?	Yes Replace the auto light/wiper control module, then go to the next step. (See AUTO LIGHT/ WIPER CONTROL MODULE REMOVAL/ INSTALLATION.)	
		No	Go to the next step.
12	VERIFY THAT NO OTHER DTCs ARE RECORDED Are any DTCs present?	Yes Go to the applicable DTC inspection. (See DTC TABLE [AUTO LIGHT/ WIPER CONTROL MODULE].)	
		No	DTC troubleshooting completed.

Vehicles With Advanced Keyless Entry and Push Button Start System

DESCRIPTION	Battery voltage low
DETECTION CONDITION	Input voltage from the battery is excessively low
POSSIBLE CAUSE	- Fuse malfunction - Battery malfunction - Generator malfunction - Connector or terminal malfunction - Relay block malfunction - Short to ground or open circuit in wiring harness between positive battery terminal and auto light/wiper control module terminal 2D - Short to ground or open circuit in wiring harness between positive battery terminal and relay block terminal 1E - Short to ground or open circuit in wiring harness between positive battery terminal and relay block terminal 1A - Short to ground in wiring harness between relay block terminal 1C and auto

light/wiper control module terminal 1E

- Short to ground in wiring harness between relay block terminal 1B and auto light/wiper control module terminal 2C
- Open circuit in wiring harness between relay block terminal 1C and auto light/wiper control module terminal 1E
- Open circuit in wiring harness between relay block terminal 1B and auto light/wiper control module terminal 2C
- Auto light/wiper control module malfunction



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?	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: - MAIN 125 A fuse - BTN 30 A fuse - IG KEY1 40 A fuse - IG KEY2 40 A fuse - ROOM 15 A fuse - METER IG 15 A fuse - WIPER 25 A fuse - Are there any malfunction?	Yes Replace the malfunctioning fuse, then go to Step 11.
		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 11. (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 11. (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	Yes Repair or replace the connector or terminal, then go to Step 11.

	• Disconnect the relay block connector. • Inspect for poor connection (damaged/pulled-out pins, corrosion). • Is there any malfunction?	No	Go to the next step.
6	INSPECT AUTO LIGHT/ WIPER CONTROL MODULE CONNECTOR CONDITION • Disconnect the auto light/wiper 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 11.
		No	Go to the next step.
7	INSPECT RELAY BLOCK • Inspect the relay block. (See RELAY BLOCK INSPECTION [WITH ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM] .)	Yes	Replace the relay block, then go to Step 11. (See RELAY BLOCK REMOVAL/ INSTALLATION [WITH ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM] .)
		No	Go to the next step.
8	INSPECT AUTO LIGHT/ WIPER CONTROL MODULE 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 following terminals and body ground: ▪ Auto light/wiper control module terminal 2D (wiring harness-side) ▪ Relay block terminal 1A (wiring harness-side) ▪ Relay block terminal 1E (wiring harness-side) • Is the voltage B+ ?	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 11.
9	INSPECT AUTO LIGHT/ WIPER CONTROL MODULE POWER SUPPLY CIRCUIT FOR SHORT TO GROUND • Inspect for continuity between following terminals and body ground: ▪ Relay block terminal 1C (wiring harness-side) ▪ Relay block terminal 1B (wiring harness-side)	Yes	Repair or replace the wiring harness for a possible short to ground, then go to Step 11.
		No	Go to the next step.

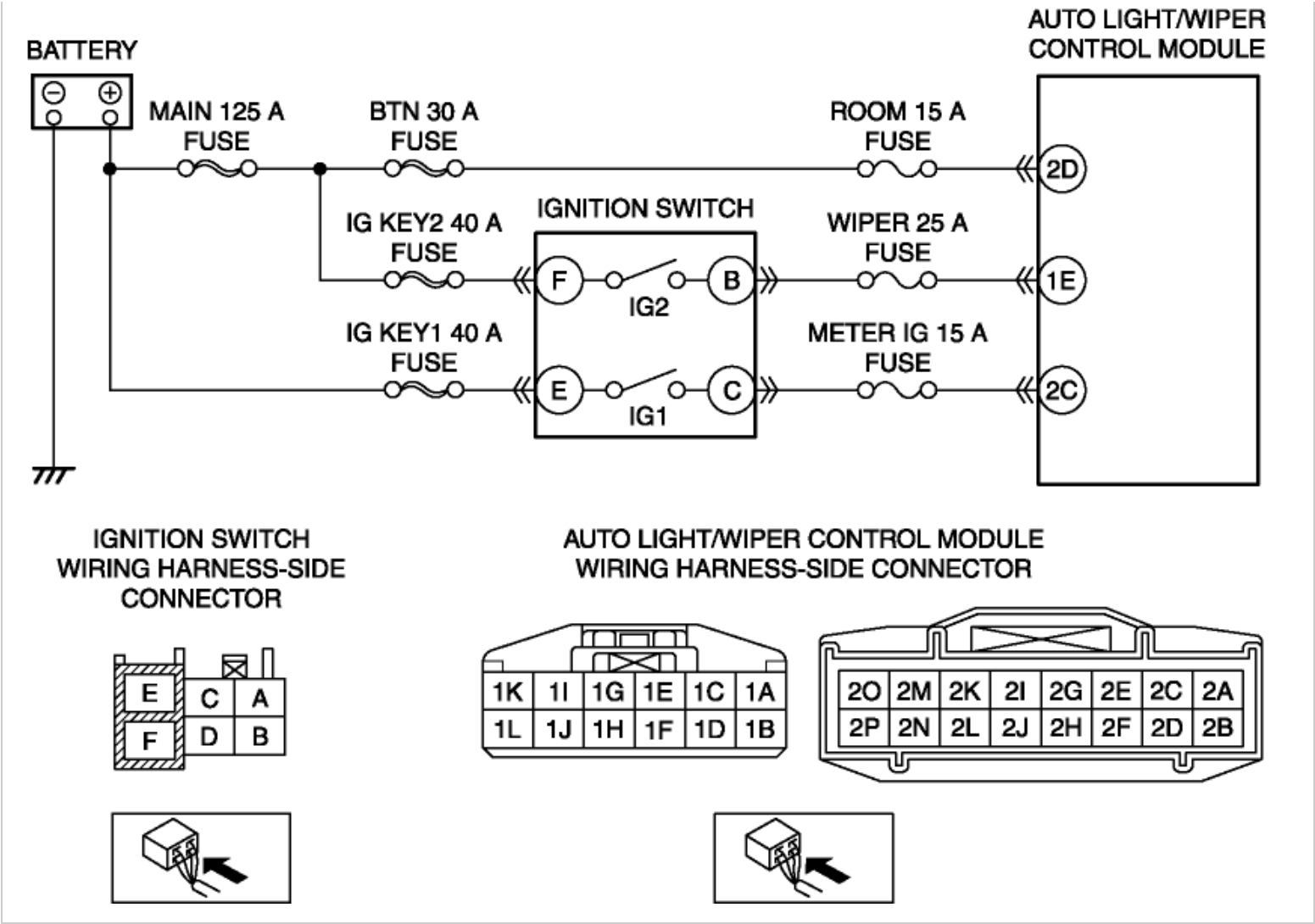
	Is there continuity?		
10	INSPECT AUTO LIGHT/ WIPER CONTROL MODULE POWER SUPPLY CIRCUIT FOR OPEN CIRCUIT - Inspect for continuity between following terminals: - Relay block terminal 1C (wiring harness-side) and auto light/wiper control module terminal 1E (wiring harness-side) - Relay block terminal 1B (wiring harness-side) and auto light/wiper control module terminal 2C (wiring harness-side) - Is there continuity?	Yes	Go to the next step.
		No	Repair or replace the wiring harness for a possible open circuit, then go to the next step.
11	VERIFY TROUBLESHOOTING COMPLETED - Switch the ignition to off. - Reconnect the negative battery cable. - Make sure to reconnect the disconnected connectors. - Clear the DTC from the auto light/wiper control module memory using the M-MDS. (See CLEARING DTC [AUTO LIGHT/ WIPER CONTROL MODULE].) - Perform the auto light/wiper control module DTC inspection using the M-MDS. (See DTC INSPECTION [AUTO LIGHT/ WIPER CONTROL MODULE].) - Is the same DTC present?	Yes	Replace the auto light/wiper control module, then go to the next step. (See AUTO LIGHT/ WIPER CONTROL MODULE REMOVAL/ INSTALLATION.)
		No	Go to the next step.
12	VERIFY THAT NO OTHER DTCs ARE RECORDED Are any DTCs present?	Yes	Go to the applicable DTC inspection. (See DTC TABLE [AUTO LIGHT/ WIPER CONTROL MODULE] .)
		No	DTC troubleshooting completed.

2012 - Mazda6 - Body and Accessories

DTC B1318 [AUTO LIGHT/ WIPER CONTROL MODULE]

Vehicles With Keyless Entry System

DESCRIPTION	Battery voltage low
DETECTION CONDITION	Input voltage from the battery is excessively low
POSSIBLE CAUSE	• Fuse malfunction • Battery malfunction • Generator malfunction • Connector or terminal malfunction • Ignition switch malfunction • Short to ground or open circuit in wiring harness between positive battery terminal and auto light/wiper control module terminal 2D • Short to ground or open circuit in wiring harness between positive battery terminal and ignition switch terminal E • Short to ground or open circuit in wiring harness between positive battery terminal and ignition switch terminal F • Short to ground in wiring harness between ignition switch terminal B and auto light/wiper control module terminal 1E • Short to ground in wiring harness between ignition switch terminal C and auto light/wiper control module terminal 2C • Open circuit in wiring harness between ignition switch terminal B and auto light/wiper control module terminal 1E • Open circuit in wiring harness between ignition switch terminal C and auto light/wiper control module terminal 2C • Auto light/wiper control module 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?	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:	Yes Replace the malfunctioning fuse, then go to Step 11. No Go to the next step.

	▪ MAIN 125 A fuse ▪ BTN 30 A fuse ▪ IG KEY1 40 A fuse ▪ IG KEY2 40 A fuse ▪ ROOM 15 A fuse ▪ METER IG 15 A fuse ▪ WIPER 25 A fuse • Are there any malfunction?		
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 11. (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 11. (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 11.
		No	Go to the next step.
6	INSPECT AUTO LIGHT/ WIPER CONTROL MODULE CONNECTOR CONDITION • Disconnect the auto light/wiper 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 11.
		No	Go to the next step.
7	INSPECT IGNITION SWITCH	Yes	Replace the ignition switch, then go to Step 11.

	- Inspect the ignition switch. (See IGNITION SWITCH INSPECTION [WITHOUT ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM].) - Is there any malfunction?	(See IGNITION SWITCH REMOVAL/ INSTALLATION [WITHOUT ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM].) No Go to the next step.
8	INSPECT AUTO LIGHT/ WIPER CONTROL MODULE 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 following terminals and body ground: - Auto light/wiper control module terminal 2D (wiring harness-side) - ignition switch terminal E (wiring harness-side) - ignition switch terminal F (wiring harness-side) - Is the voltage B+ ?	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 11.
9	INSPECT AUTO LIGHT/ WIPER CONTROL MODULE POWER SUPPLY CIRCUIT FOR SHORT TO GROUND - Inspect for continuity between following terminals and body ground: - Ignition switch terminal B (wiring harness-side) - Ignition switch terminal C (wiring harness-side) - Is there continuity?	Yes Repair or replace the wiring harness for a possible short to ground, then go to Step 11. No Go to the next step.
10	INSPECT AUTO LIGHT/ WIPER CONTROL MODULE POWER SUPPLY CIRCUIT FOR OPEN CIRCUIT - Inspect for continuity between following terminals: - Ignition switch terminal B (wiring harness-side) and auto light/wiper control module terminal 1E (wiring harness-side) - Ignition switch terminal C (wiring harness-side) and auto light/wiper control module terminal 2C (wiring harness-side)	Yes Go to the next step. No Repair or replace the wiring harness for a possible open circuit, then go to the next step.

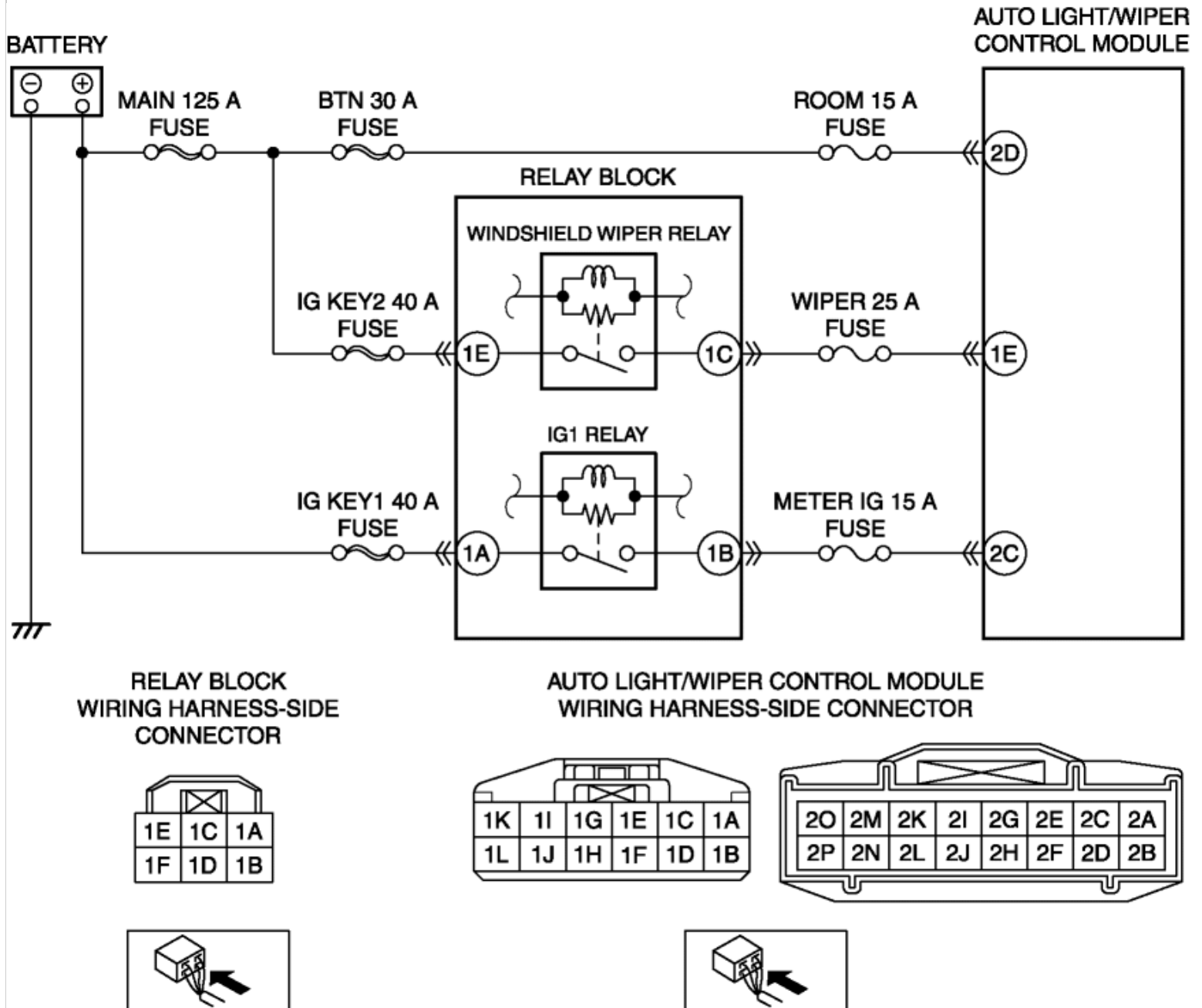
	Is there continuity?		
11	VERIFY TROUBLESHOOTING COMPLETED - Switch the ignition to off. - Reconnect the negative battery cable. - Make sure to reconnect the disconnected connectors. - Clear the DTC from the auto light/wiper control module memory using the M-MDS. (See CLEARING DTC [AUTO LIGHT/ WIPER CONTROL MODULE].) - Perform the auto light/wiper control module DTC inspection using the M-MDS. (See DTC INSPECTION [AUTO LIGHT/ WIPER CONTROL MODULE].) - Is the same DTC present?	Yes Replace the auto light/wiper control module, then go to the next step. (See AUTO LIGHT/ WIPER CONTROL MODULE REMOVAL/ INSTALLATION.)	
		No	Go to the next step.
12	VERIFY THAT NO OTHER DTCs ARE RECORDED Are any DTCs present?	Yes Go to the applicable DTC inspection. (See DTC TABLE [AUTO LIGHT/ WIPER CONTROL MODULE].)	
		No	DTC troubleshooting completed.

Vehicles With Advanced Keyless Entry and Push Button Start System

DESCRIPTION	Battery voltage low
DETECTION CONDITION	Input voltage from the battery is excessively low
POSSIBLE CAUSE	- Fuse malfunction - Battery malfunction - Generator malfunction - Connector or terminal malfunction - Relay block malfunction - Short to ground or open circuit in wiring harness between positive battery terminal and auto light/wiper control module terminal 2D - Short to ground or open circuit in wiring harness between positive battery terminal and relay block terminal 1E - Short to ground or open circuit in wiring harness between positive battery terminal and relay block terminal 1A - Short to ground in wiring harness between relay block terminal 1C and auto

light/wiper control module terminal 1E

- Short to ground in wiring harness between relay block terminal 1B and auto light/wiper control module terminal 2C
- Open circuit in wiring harness between relay block terminal 1C and auto light/wiper control module terminal 1E
- Open circuit in wiring harness between relay block terminal 1B and auto light/wiper control module terminal 2C
- Auto light/wiper control module malfunction



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?	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: - MAIN 125 A fuse - BTN 30 A fuse - IG KEY1 40 A fuse - IG KEY2 40 A fuse - ROOM 15 A fuse - METER IG 15 A fuse - WIPER 25 A fuse - Are there any malfunction?	Yes Replace the malfunctioning fuse, then go to Step 11.
		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 11. (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 11. (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	Yes Repair or replace the connector or terminal, then go to Step 11.

	• Disconnect the relay block connector. • Inspect for poor connection (damaged/pulled-out pins, corrosion). • Is there any malfunction?	No	Go to the next step.
6	INSPECT AUTO LIGHT/ WIPER CONTROL MODULE CONNECTOR CONDITION • Disconnect the auto light/wiper 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 11.
		No	Go to the next step.
7	INSPECT RELAY BLOCK • Inspect the relay block. (See RELAY BLOCK INSPECTION [WITH ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM].) • Is there any malfunction?	Yes	Replace the relay block, then go to Step 11. (See RELAY BLOCK REMOVAL/ INSTALLATION [WITH ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM] .)
		No	Go to the next step.
8	INSPECT AUTO LIGHT/ WIPER CONTROL MODULE 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 following terminals and body ground: ▪ Auto light/wiper control module terminal 2D (wiring harness-side) ▪ Relay block terminal 1A (wiring harness-side) ▪ Relay block terminal 1E (wiring harness-side) • Is the voltage B+ ?	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 11.
9	INSPECT AUTO LIGHT/ WIPER CONTROL MODULE POWER SUPPLY CIRCUIT FOR SHORT TO GROUND • Inspect for continuity between following terminals and body ground: ▪ Relay block terminal 1C (wiring harness-side) ▪ Relay block terminal 1B (wiring harness-side)	Yes	Repair or replace the wiring harness for a possible short to ground, then go to Step 11.
		No	Go to the next step.

	Is there continuity?		
10	INSPECT AUTO LIGHT/ WIPER CONTROL MODULE POWER SUPPLY CIRCUIT FOR OPEN CIRCUIT - Inspect for continuity between following terminals: - Relay block terminal 1C (wiring harness-side) and auto light/wiper control module terminal 1E (wiring harness-side) - Relay block terminal 1B (wiring harness-side) and auto light/wiper control module terminal 2C (wiring harness-side) - Is there continuity?	Yes	Go to the next step.
		No	Repair or replace the wiring harness for a possible open circuit, then go to the next step.
11	VERIFY TROUBLESHOOTING COMPLETED - Switch the ignition to off. - Reconnect the negative battery cable. - Make sure to reconnect the disconnected connectors. - Clear the DTC from the auto light/wiper control module memory using the M-MDS. (See CLEARING DTC [AUTO LIGHT/ WIPER CONTROL MODULE].) - Perform the auto light/wiper control module DTC inspection using the M-MDS. (See DTC INSPECTION [AUTO LIGHT/ WIPER CONTROL MODULE].) - Is the same DTC present?	Yes	Replace the auto light/wiper control module, then go to the next step. (See AUTO LIGHT/ WIPER CONTROL MODULE REMOVAL/ INSTALLATION.)
		No	Go to the next step.
12	VERIFY THAT NO OTHER DTCs ARE RECORDED Are any DTCs present?	Yes	Go to the applicable DTC inspection. (See DTC TABLE [AUTO LIGHT/ WIPER CONTROL MODULE] .)
		No	DTC troubleshooting completed.