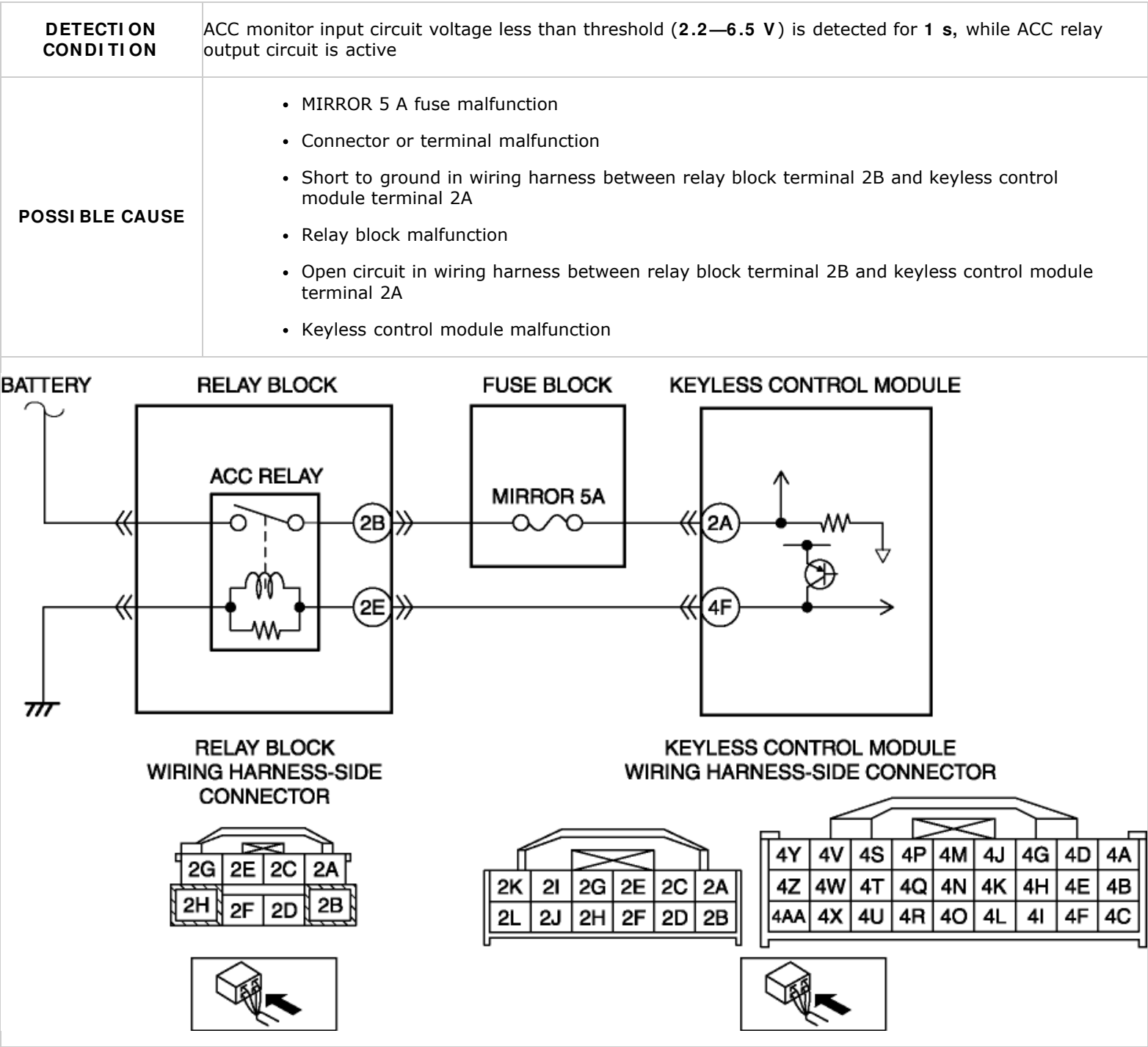


2012 - Mazda6 - Body and Accessories

DTC U3004:16 [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM]



Diagnostic Procedure

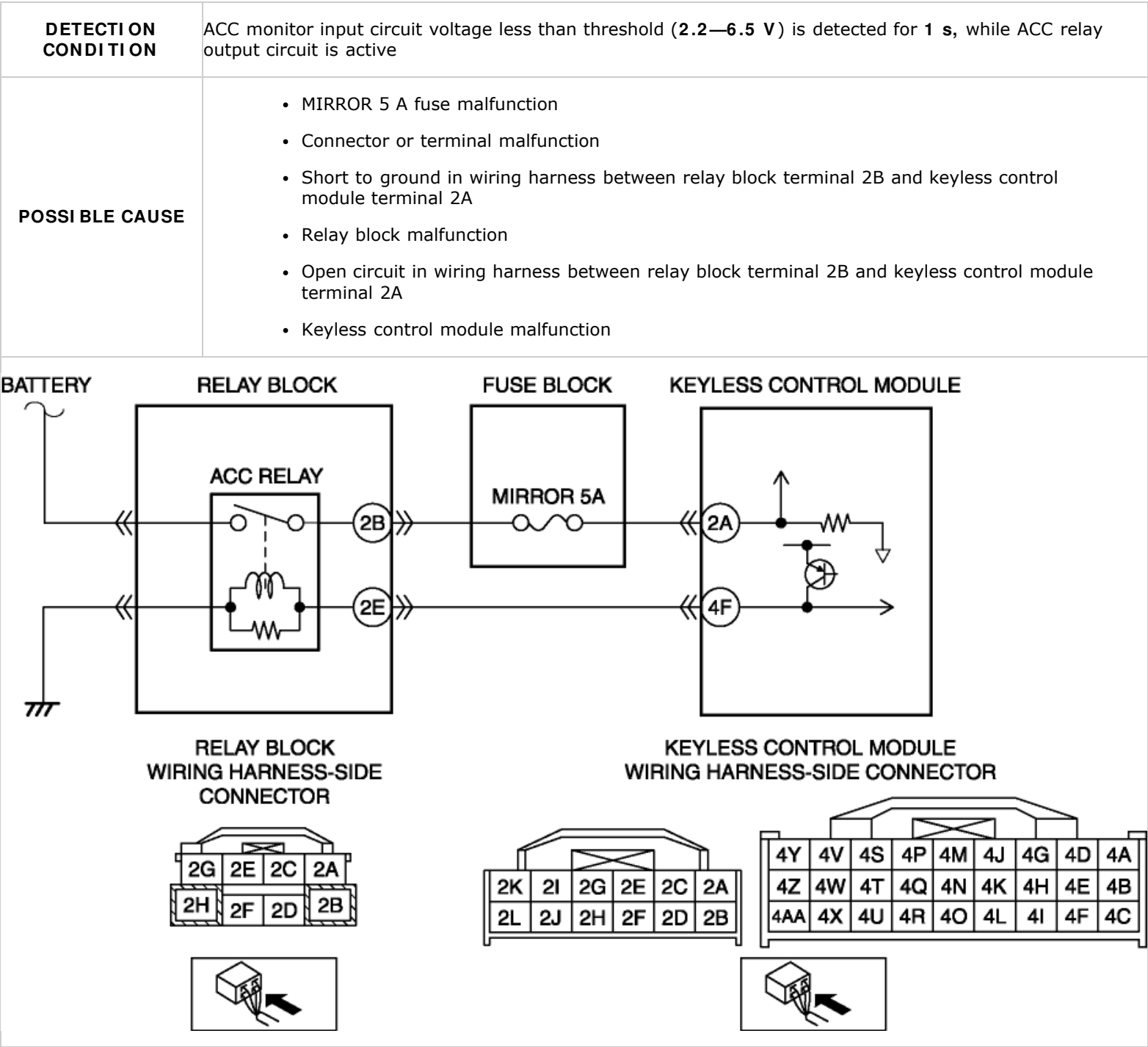
Step	Inspection	Action

1	PERFORM DTC INSPECTION - Clear the DTC from keyless control module memory using the M-MDS. (See CLEARING DTC [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM] .) - Perform the advanced keyless entry and push button start system DTC inspection using the M-MDS. (See DTC INSPECTION [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM] .) - Is the DTC U3004:11 present?	Yes Perform the DTC U3004:11 inspection. (See DTC U3004:11 [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM] .) No Go to the next step.
2	INSPECT FUSE - Switch the ignition to off. - Disconnect the negative battery cable. - Remove the MIRROR 5 A fuse. - Inspect the MIRROR 5 A fuse. - Is there any malfunction?	Yes Replace the MIRROR 5 A fuse, then go to Step 8. No Go to the next step.
3	INSPECT RELAY BLOCK CONNECTOR CONDITION - Disconnect the relay block connector. - Inspect the connector and terminals (corrosion, damage, pin disconnection). - Is there any malfunction?	Yes Repair or replace the connector or terminals, then go to Step 8. No Go to the next step.
4	INSPECT KEYLESS CONTROL MODULE CONNECTOR CONDITION - Disconnect the keyless control module connector. - Inspect the connector and terminals (corrosion, damage, pin disconnection). - Is there any malfunction?	Yes Repair or replace the connector or terminals, then go to Step 8. No Go to the next step.
5	INSPECT ACC MONITOR INPUT CIRCUIT FOR SHORT TO GROUND - Install the MIRROR 5 A fuse. - Inspect for continuity between relay block terminal 2B (wiring harness-side) and body ground. - Is there continuity?	Yes Repair or replace the wiring harness for a possible short to ground, then go to Step 8. No Go to the next step.
6	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 8. (See RELAY BLOCK REMOVAL/ INSTALLATION [WITH ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM] .) No Go to the next step.
7	INSPECT ACC MONITOR INPUT CIRCUIT FOR OPEN CIRCUIT	Yes Go to the next step.

	- Inspect for continuity between relay block terminal 2B (wiring harness-side) and keyless control module terminal 2A (wiring harness-side). - Is there continuity?	No	Repair or replace the wiring harness for a possible open circuit, then go to the next step.
8	VERIFY TROUBLESHOOTING COMPLETED - Make sure to reconnect the disconnected connectors. - Reconnect the negative battery cable. - Clear the DTC from keyless control module memory using the M-MDS. (See CLEARING DTC [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM].) - Perform the advanced keyless entry and push button start system DTC inspection using the M-MDS. (See DTC INSPECTION [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM].) - Is the same DTC present?	Yes	Repeat the inspection from Step 1. If the malfunction recurs, replace the keyless control module, then go to the next step. (See KEYLESS CONTROL MODULE REMOVAL/ INSTALLATION [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM].)
		No	Go to the next step.
9	VERIFY THAT NO OTHER DTCs ARE PRESENT Are any DTCs present?	Yes	Go to the applicable DTC inspection. (See DTC TABLE [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM].)
		No	DTC troubleshooting completed.

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DTC U3004:16 [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM]



Diagnostic Procedure

Step	Inspection	Action

1	PERFORM DTC INSPECTION - Clear the DTC from keyless control module memory using the M-MDS. (See CLEARING DTC [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM] .) - Perform the advanced keyless entry and push button start system DTC inspection using the M-MDS. (See DTC INSPECTION [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM] .) - Is the DTC U3004:11 present?	Yes Perform the DTC U3004:11 inspection. (See DTC U3004:11 [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM] .) No Go to the next step.
2	INSPECT FUSE - Switch the ignition to off. - Disconnect the negative battery cable. - Remove the MIRROR 5 A fuse. - Inspect the MIRROR 5 A fuse. - Is there any malfunction?	Yes Replace the MIRROR 5 A fuse, then go to Step 8. No Go to the next step.
3	INSPECT RELAY BLOCK CONNECTOR CONDITION - Disconnect the relay block connector. - Inspect the connector and terminals (corrosion, damage, pin disconnection). - Is there any malfunction?	Yes Repair or replace the connector or terminals, then go to Step 8. No Go to the next step.
4	INSPECT KEYLESS CONTROL MODULE CONNECTOR CONDITION - Disconnect the keyless control module connector. - Inspect the connector and terminals (corrosion, damage, pin disconnection). - Is there any malfunction?	Yes Repair or replace the connector or terminals, then go to Step 8. No Go to the next step.
5	INSPECT ACC MONITOR INPUT CIRCUIT FOR SHORT TO GROUND - Install the MIRROR 5 A fuse. - Inspect for continuity between relay block terminal 2B (wiring harness-side) and body ground. - Is there continuity?	Yes Repair or replace the wiring harness for a possible short to ground, then go to Step 8. No Go to the next step.
6	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 8. (See RELAY BLOCK REMOVAL/ INSTALLATION [WITH ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM] .) No Go to the next step.
7	INSPECT ACC MONITOR INPUT CIRCUIT FOR OPEN CIRCUIT	Yes Go to the next step.

	- Inspect for continuity between relay block terminal 2B (wiring harness-side) and keyless control module terminal 2A (wiring harness-side). - Is there continuity?	No	Repair or replace the wiring harness for a possible open circuit, then go to the next step.
8	VERIFY TROUBLESHOOTING COMPLETED - Make sure to reconnect the disconnected connectors. - Reconnect the negative battery cable. - Clear the DTC from keyless control module memory using the M-MDS. (See CLEARING DTC [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM].) - Perform the advanced keyless entry and push button start system DTC inspection using the M-MDS. (See DTC INSPECTION [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM].) - Is the same DTC present?	Yes	Repeat the inspection from Step 1. If the malfunction recurs, replace the keyless control module, then go to the next step. (See KEYLESS CONTROL MODULE REMOVAL/ INSTALLATION [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM].)
		No	Go to the next step.
9	VERIFY THAT NO OTHER DTCs ARE PRESENT Are any DTCs present?	Yes	Go to the applicable DTC inspection. (See DTC TABLE [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM].)
		No	DTC troubleshooting completed.