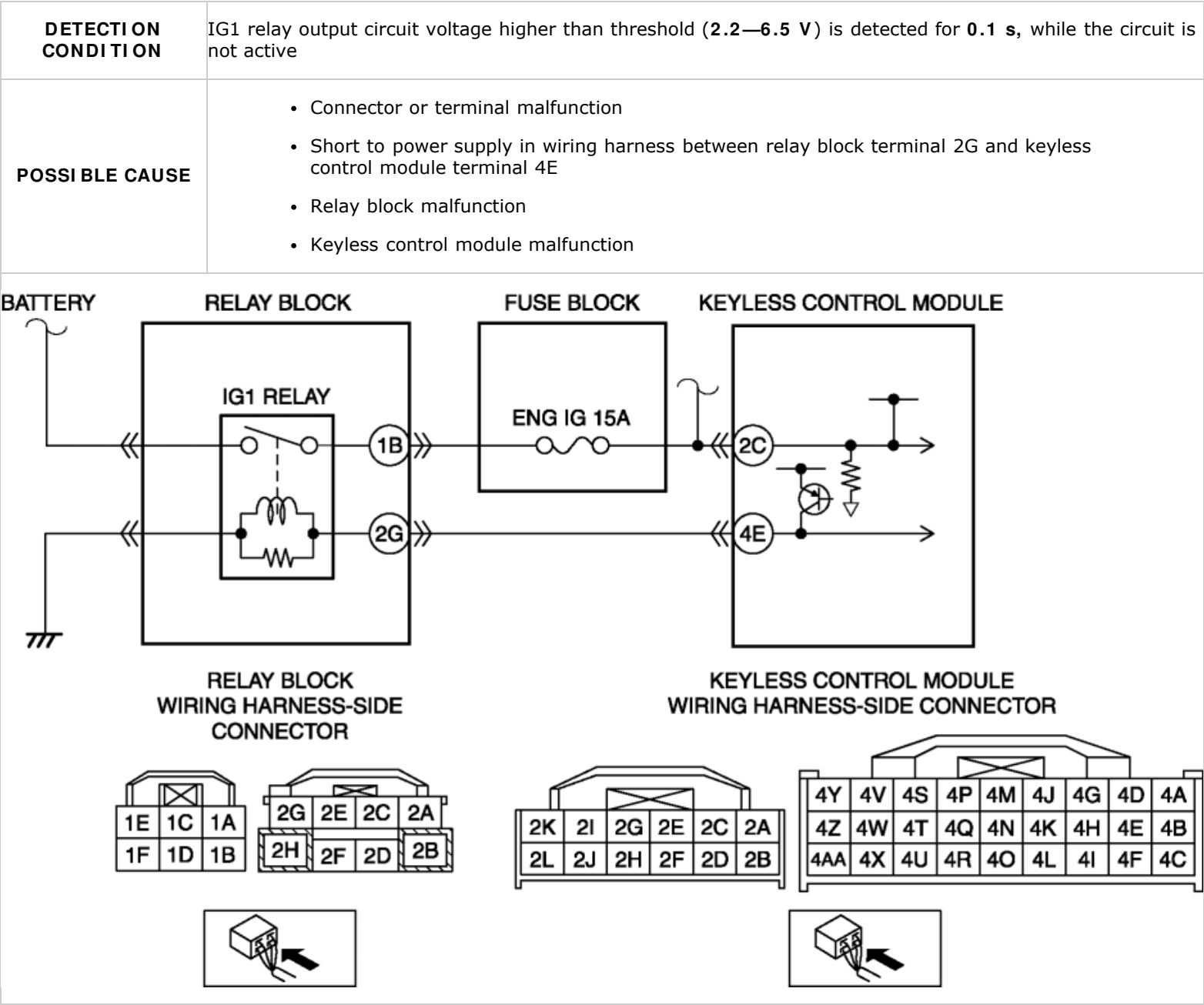


2012 - Mazda6 - Body and Accessories

DTC B10E7:12 [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM]



Diagnostic Procedure

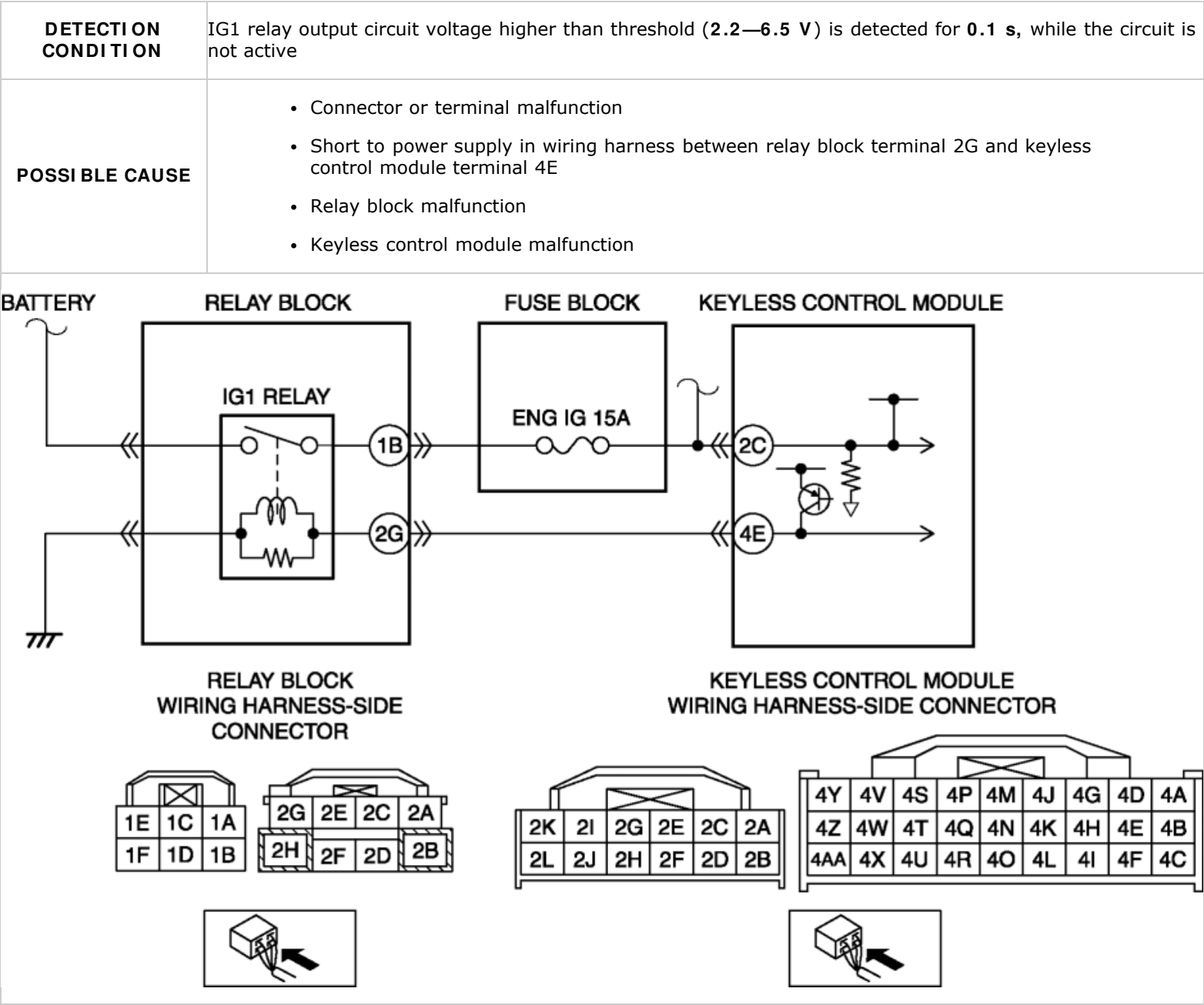
Step	Inspection	Action
1	INSPECT RELAY BLOCK CONNECTOR CONDITION • Switch the ignition to off.	YesRepair or replace the connector or terminals, then go to Step 5.

	• Disconnect the negative battery cable. • Disconnect the relay block connector. • Inspect the connector and terminals (corrosion, damage, pin disconnection). • Is there any malfunction?	No	Go to the next step.
2	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 5.
		No	Go to the next step.
3	INSPECT IG1 RELAY OUTPUT CIRCUIT FOR SHORT TO POWER SUPPLY • Reconnect the negative battery cable. • Switch the ignition to ON. • Measure the voltage between relay block terminal 2G (wiring harness-side) and body ground. • Is there any voltage?	Yes	Repair or replace the wiring harness for a possible short to power supply, then go to Step 5.
		No	Go to the next step.
4	INSPECT RELAY BLOCK • Switch the ignition to off. • Disconnect the negative battery cable. • 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 the next step.
		No	Go to the next step.
5	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.
		No	Go to the next step.

6	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.

2012 - Mazda6 - Body and Accessories

DTC B10E7:12 [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM]



Diagnostic Procedure

Step	Inspection	Action
1	INSPECT RELAY BLOCK CONNECTOR CONDITION • Switch the ignition to off.	YesRepair or replace the connector or terminals, then go to Step 5.

	• Disconnect the negative battery cable. • Disconnect the relay block connector. • Inspect the connector and terminals (corrosion, damage, pin disconnection). • Is there any malfunction?	No	Go to the next step.
2	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 5.
		No	Go to the next step.
3	INSPECT IG1 RELAY OUTPUT CIRCUIT FOR SHORT TO POWER SUPPLY • Reconnect the negative battery cable. • Switch the ignition to ON. • Measure the voltage between relay block terminal 2G (wiring harness-side) and body ground. • Is there any voltage?	Yes	Repair or replace the wiring harness for a possible short to power supply, then go to Step 5.
		No	Go to the next step.
4	INSPECT RELAY BLOCK • Switch the ignition to off. • Disconnect the negative battery cable. • 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 the next step.
		No	Go to the next step.
5	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.
		No	Go to the next step.

6	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.