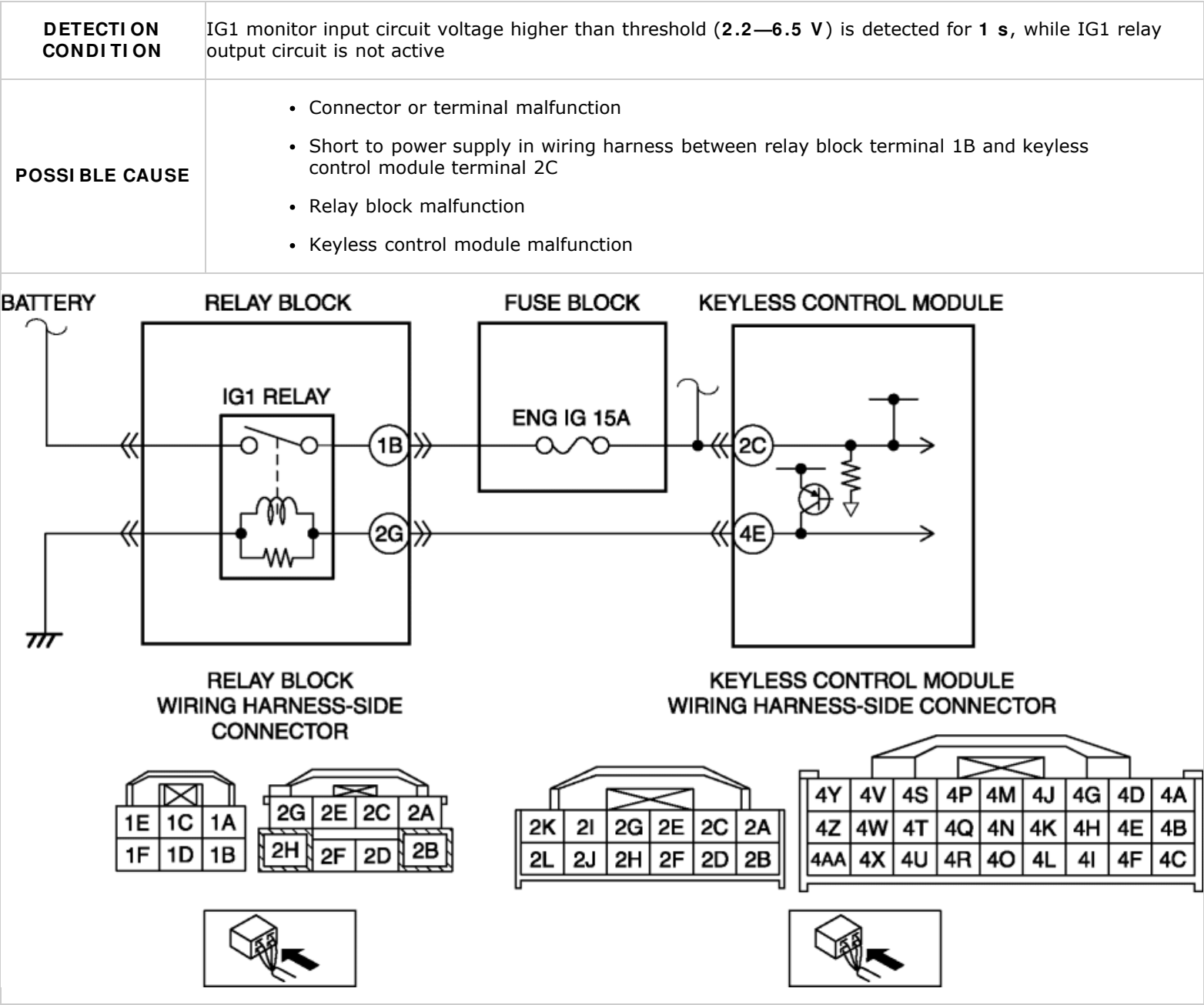


2012 - Mazda6 - Body and Accessories

DTC B10E7:17 [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM]



Diagnostic Procedure

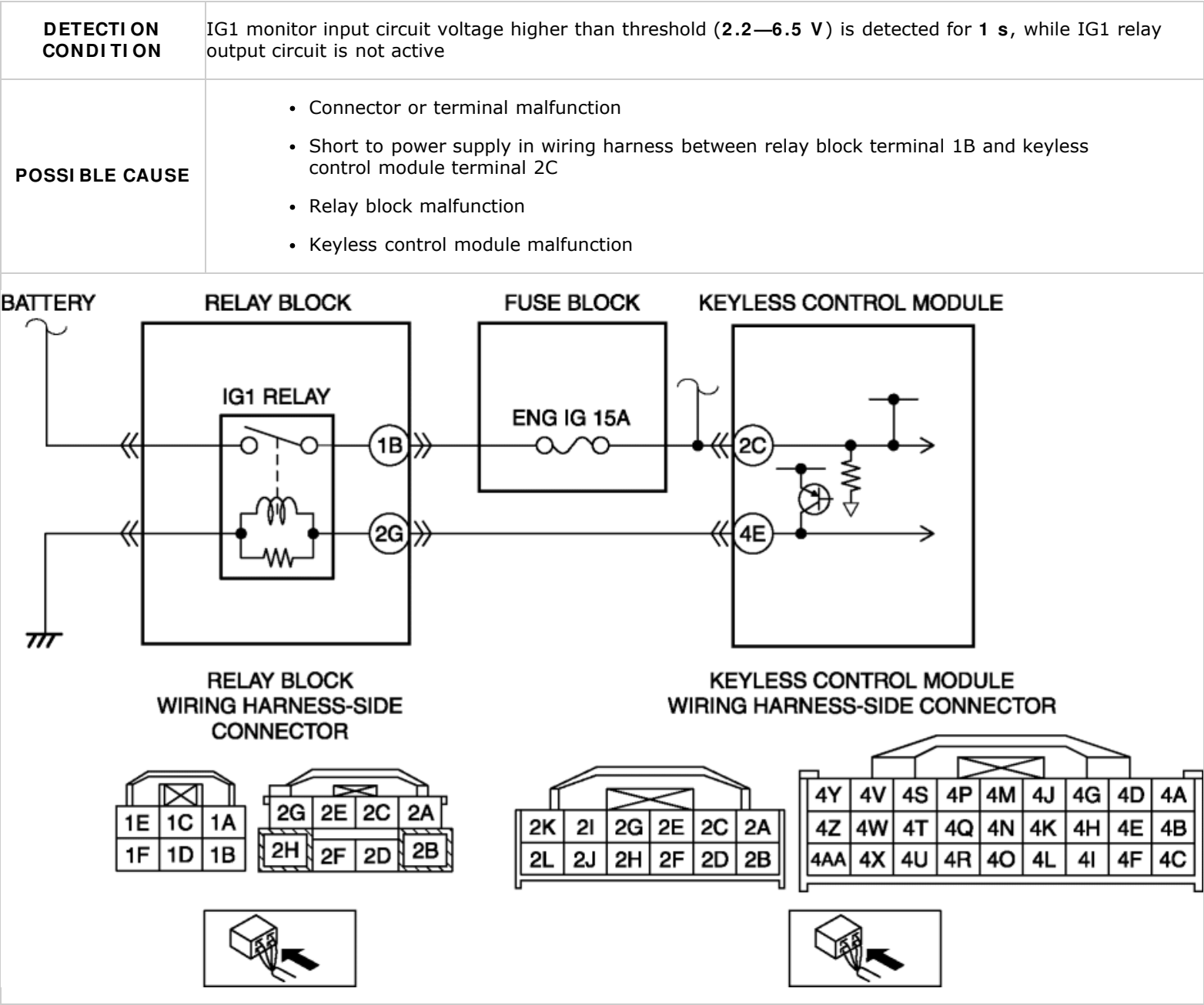
Step	Inspection	Action
1	PERFORM DTC INSPECTION • Clear the DTC from keyless control module memory using the M-MDS.	YesPerform the DTC B10E7:12 inspection. (See DTC B10E7:12 [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM] .)

	(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 B10E7:12 present?	No	Go to the next step.
2	INSPECT RELAY BLOCK CONNECTOR CONDITION - Switch the ignition to off. - Disconnect the negative battery cable. - 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 6.
		No	Go to the next step.
3	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 6.
		No	Go to the next step.
4	INSPECT IG1 MONITOR INPUT CIRCUIT FOR SHORT TO POWER SUPPLY - Reconnect the negative battery cable. - Switch the ignition to ON. - Measure the voltage between keyless control module terminal 2C (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 6.
		No	Go to the next step.
5	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.
			(See RELAY BLOCK REMOVAL/ INSTALLATION [WITH ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM] .)
		No	Go to the next step.
6	VERIFY TROUBLESHOOTING COMPLETED Make sure to reconnect the disconnected connectors.	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

	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?	[ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM] .)	No Go to the next step.
7	VERIFY THAT NO OTHER DTCs ARE PRESENT • Are any DTCs present?	YesGo 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 B10E7:17 [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.	YesPerform the DTC B10E7:12 inspection. (See DTC B10E7:12 [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM] .)

	(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 B10E7:12 present?	No	Go to the next step.
2	INSPECT RELAY BLOCK CONNECTOR CONDITION - Switch the ignition to off. - Disconnect the negative battery cable. - 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 6.
		No	Go to the next step.
3	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 6.
		No	Go to the next step.
4	INSPECT IG1 MONITOR INPUT CIRCUIT FOR SHORT TO POWER SUPPLY - Reconnect the negative battery cable. - Switch the ignition to ON. - Measure the voltage between keyless control module terminal 2C (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 6.
		No	Go to the next step.
5	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.
			(See RELAY BLOCK REMOVAL/ INSTALLATION [WITH ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM] .)
		No	Go to the next step.
6	VERIFY TROUBLESHOOTING COMPLETED Make sure to reconnect the disconnected connectors.	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

	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?		[ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM] .)
		No	Go to the next step.
7	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.