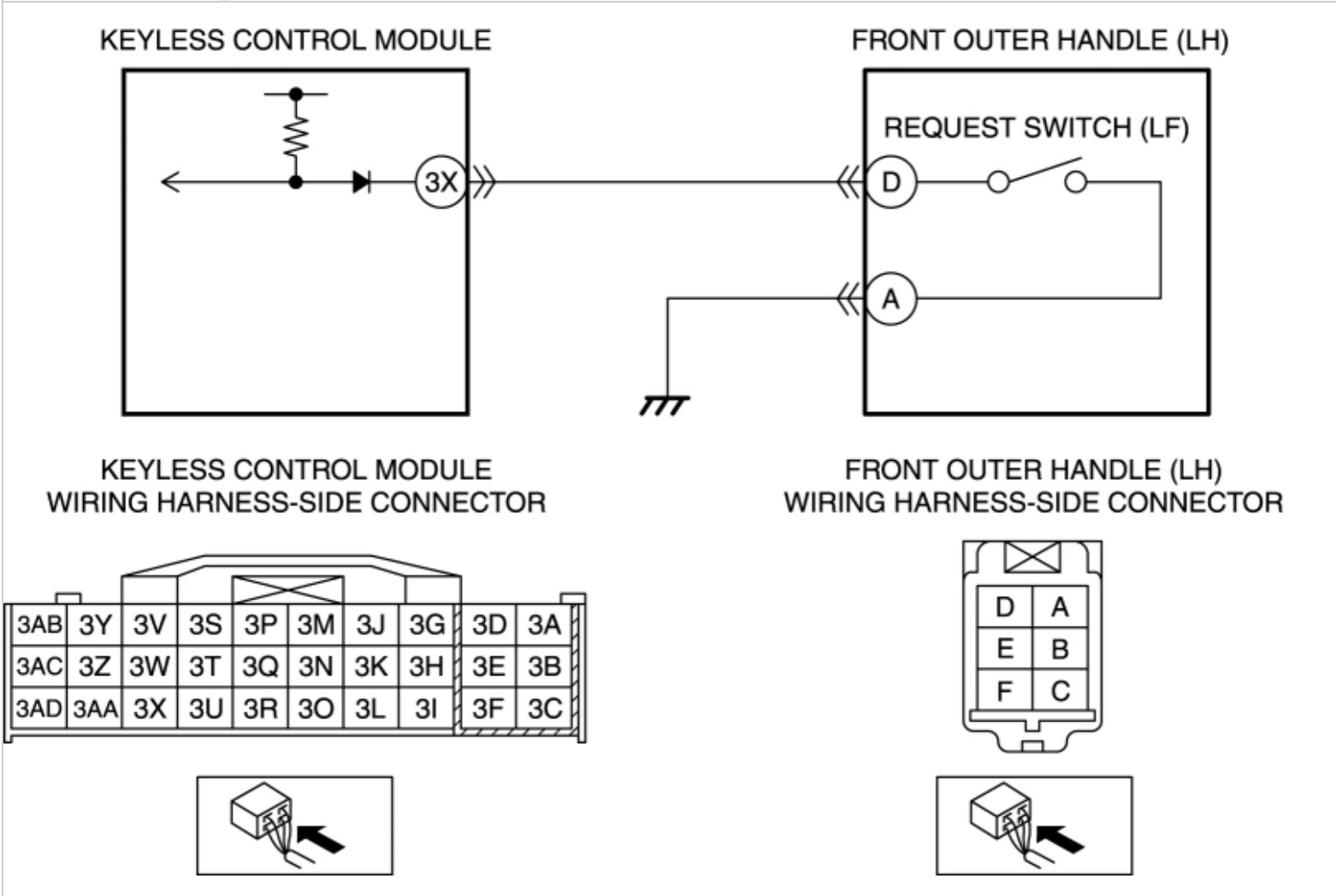


2012 - Mazda6 - Body and Accessories

DTC B10D1:23 [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM]

DETECTION CONDITION	The request switch (LF) ON signal is detected for 2 min or more while a vehicle speed signal of 5 km/h {3 mph} or more is input
POSSIBLE CAUSE	• Connector or terminal malfunction • Short to ground in wiring harness between front outer handle (LH) terminal D and keyless control module terminal 3X • Request switch (LF) malfunction • Keyless control module malfunction



Diagnostic Procedure

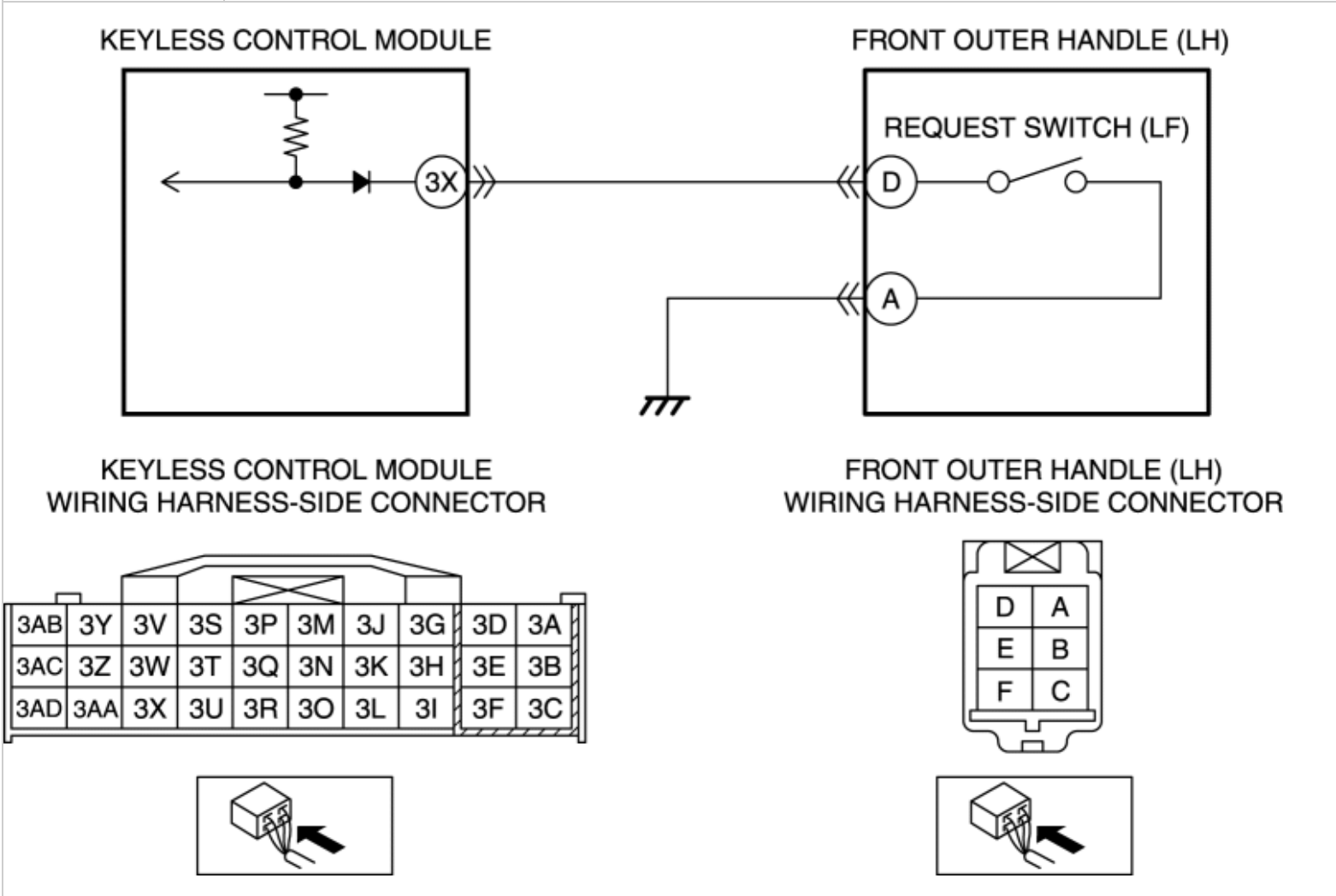
Step	Inspection	Action
1	INSPECT FRONT OUTER HANDLE (LH) CONNECTOR CONDITION - Switch the ignition to off. - Disconnect the negative battery cable. - Disconnect the front outer handle (LH) connector. - Inspect the connector and terminals (corrosion, damage, pin disconnection). - Is there any malfunction?	Yes Repair or replace the connector or terminals, then go to Step 5.
		No Go to the next step.
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 REQUEST SWITCH (LF) CIRCUIT FOR SHORT TO GROUND - Inspect for continuity between front outer handle (LH) terminal D (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 5.
		No Go to the next step.
4	INSPECT REQUEST SWITCH (LF) - Inspect the request switch (LF). (See REQUEST SWITCH INSPECTION [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM] .) - Is there any malfunction?	Yes Replace the request switch (LF), then go to the next step. (See REQUEST SWITCH REMOVAL/ INSTALLATION [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM] .)
		No Go to the next step.
5	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

	• 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?		REMOVAL/ INSTALLATION [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM] .)
		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 B10D1:23 [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM]

DETECTION CONDITION	The request switch (LF) ON signal is detected for 2 min or more while a vehicle speed signal of 5 km/h {3 mph} or more is input
POSSIBLE CAUSE	• Connector or terminal malfunction • Short to ground in wiring harness between front outer handle (LH) terminal D and keyless control module terminal 3X • Request switch (LF) malfunction • Keyless control module malfunction



Step	Inspection	Action
1	INSPECT FRONT OUTER HANDLE (LH) CONNECTOR CONDITION - Switch the ignition to off. - Disconnect the negative battery cable. - Disconnect the front outer handle (LH) 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.
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 REQUEST SWITCH (LF) CIRCUIT FOR SHORT TO GROUND - Inspect for continuity between front outer handle (LH) terminal D (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 5.
		No Go to the next step.
4	INSPECT REQUEST SWITCH (LF) - Inspect the request switch (LF). (See REQUEST SWITCH INSPECTION [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM] .) - Is there any malfunction?	Yes Replace the request switch (LF), then go to the next step. (See REQUEST SWITCH REMOVAL/ INSTALLATION [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM] .)
		No Go to the next step.
5	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

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		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.