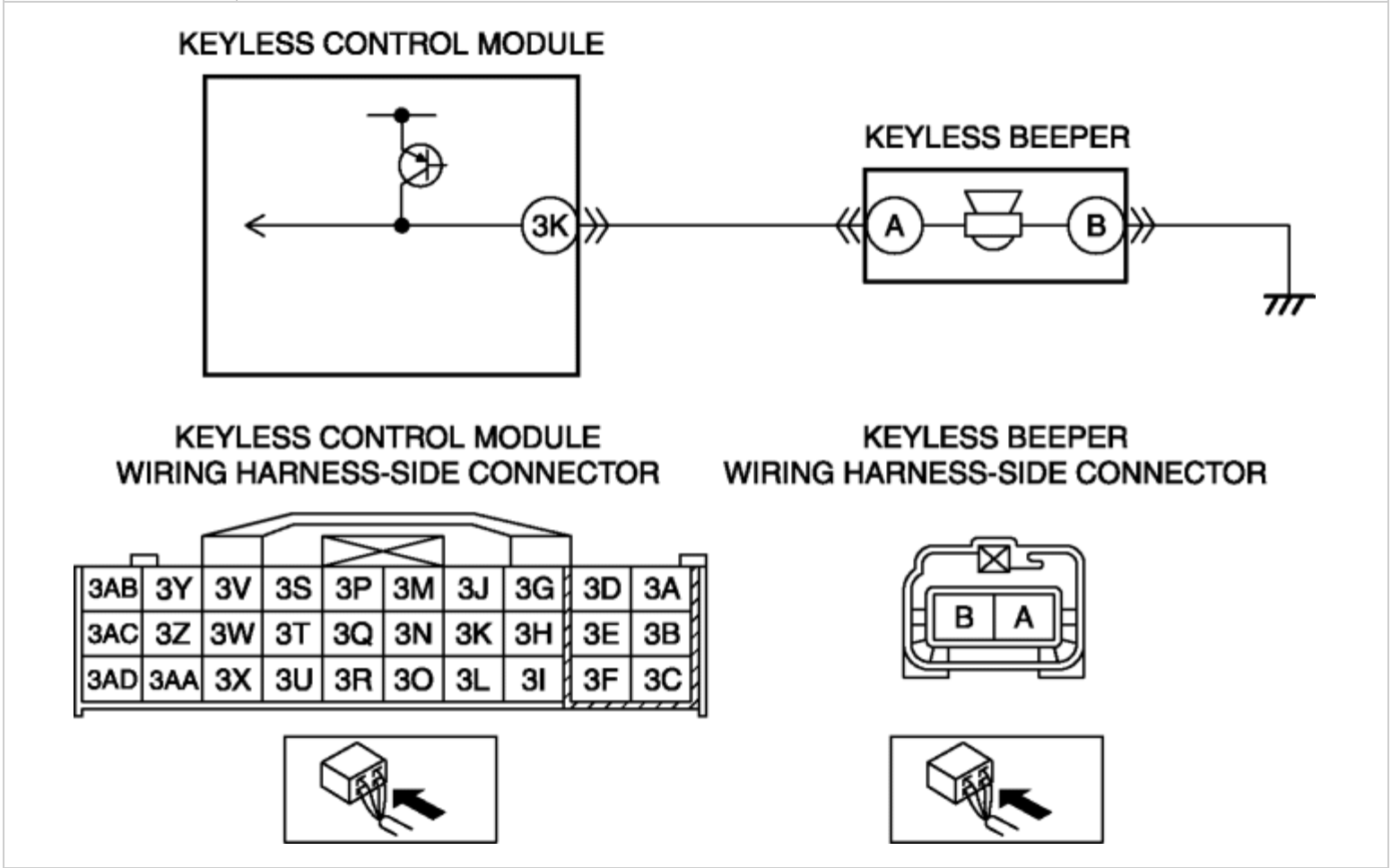


2012 - Mazda6 - Body and Accessories

DTC B10A5:12 [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM]

DETECTION CONDITION	Keyless beeper circuit voltage higher than threshold (2.2—6.5 V), while the circuit is not active
POSSIBLE CAUSE	• Connector or terminal malfunction • Short to power supply in wiring harness between keyless beeper terminal A and keyless control module terminal 3K • Keyless beeper malfunction • Keyless control module malfunction



Diagnostic Procedure

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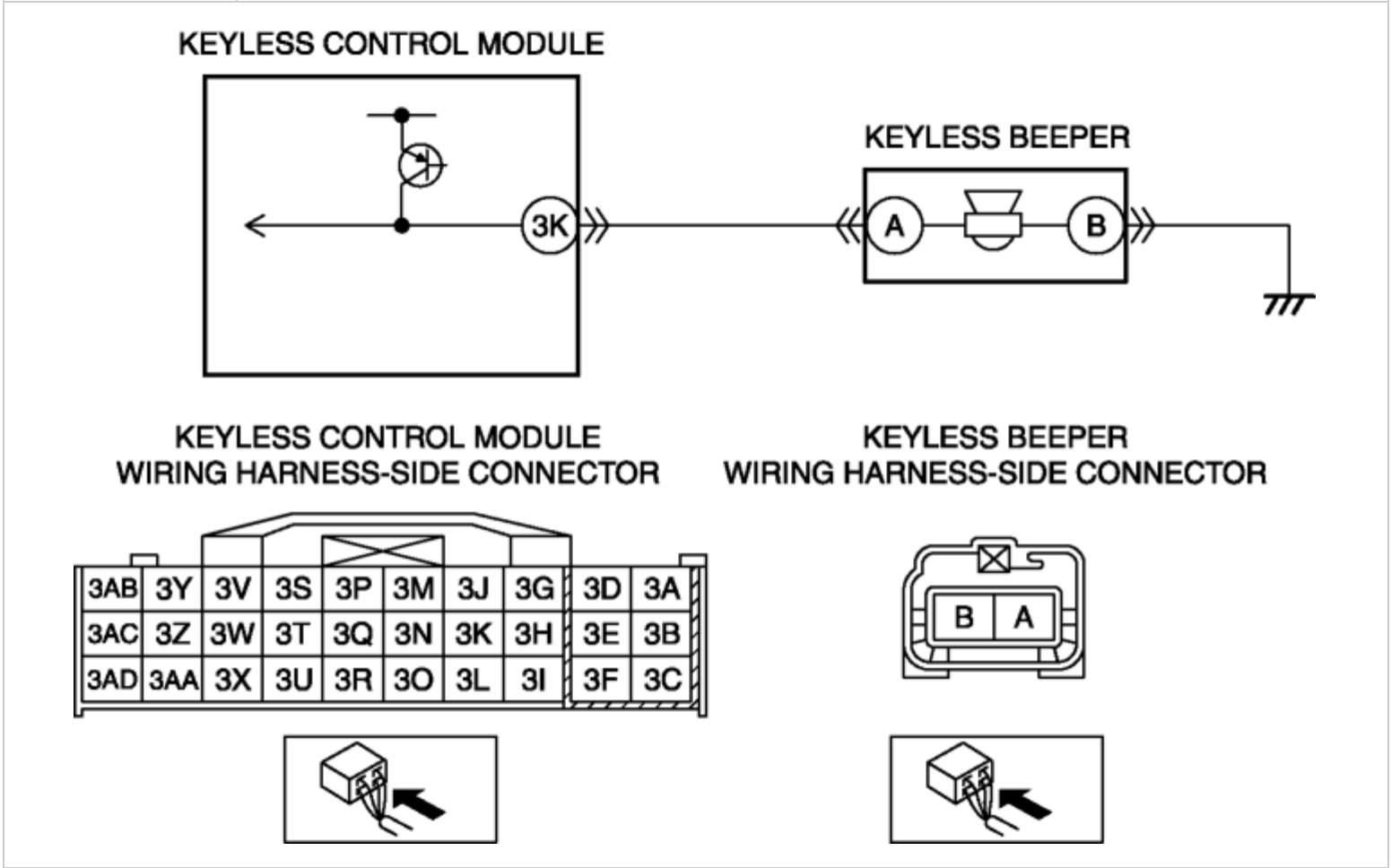
Step	Inspection	Action	
1	INSPECT KEYLESS BEEPER CONNECTOR CONDITION • Switch the ignition to off. • Disconnect the negative battery cable. • Disconnect the keyless beeper connector. • Inspect the connector and terminals (corrosion, damage, pin disconnection). • Is there any malfunction?	Yes	Repair or 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 KEYLESS BEEPER CIRCUIT FOR SHORT TO POWER SUPPLY • Measure the voltage between keyless beeper terminal A (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 KEYLESS BEEPER • Switch the ignition to off. • Disconnect the negative battery cable. • Inspect the keyless beeper. (See KEYLESS BEEPER INSPECTION [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM] .) • Is there any malfunction?	Yes	Replace the keyless beeper, then go to the next step. (See KEYLESS BEEPER 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. • 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.
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 B10A5:12 [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM]

DETECTION CONDITION	Keyless beeper circuit voltage higher than threshold (2.2—6.5 V), while the circuit is not active
POSSIBLE CAUSE	• Connector or terminal malfunction • Short to power supply in wiring harness between keyless beeper terminal A and keyless control module terminal 3K • Keyless beeper malfunction • Keyless control module malfunction



Diagnostic Procedure

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Step	Inspection	Action	
1	INSPECT KEYLESS BEEPER CONNECTOR CONDITION • Switch the ignition to off. • Disconnect the negative battery cable. • Disconnect the keyless beeper 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 KEYLESS BEEPER CIRCUIT FOR SHORT TO POWER SUPPLY • Measure the voltage between keyless beeper terminal A (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 KEYLESS BEEPER • Switch the ignition to off. • Disconnect the negative battery cable. • Inspect the keyless beeper. (See KEYLESS BEEPER INSPECTION [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM] .) • Is there any malfunction?	Yes	Replace the keyless beeper, then go to the next step. (See KEYLESS BEEPER 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. • 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.
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.