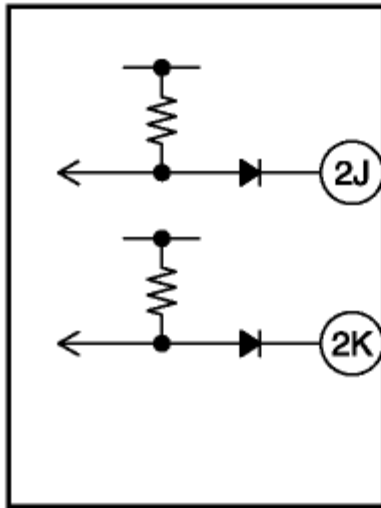


2012 - Mazda6 - Body and Accessories

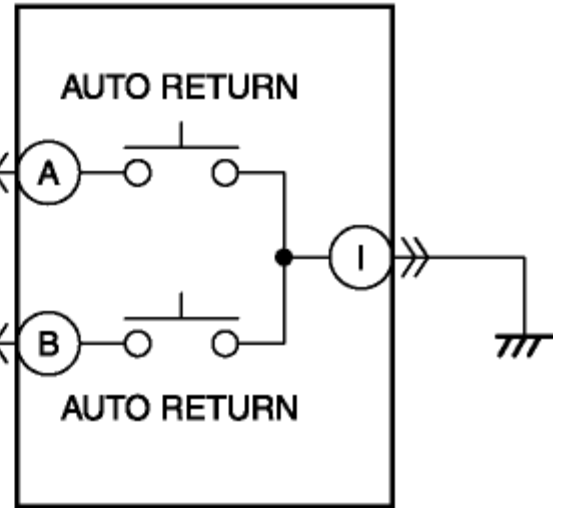
DTC B108B:29 [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM]

DETECTION CONDITION	Mismatch state of push button start 1 and 2
POSSIBLE CAUSE	• Connector or terminal malfunction • Short to ground in wiring harness between push button start terminal A and keyless control module terminal 2J • Short to ground in wiring harness between push button start terminal B and keyless control module terminal 2K • Short to power supply in wiring harness between push button start terminal A and keyless control module terminal 2J • Short to power supply in wiring harness between push button start terminal B and keyless control module terminal 2K • Push button start malfunction • Open circuit in wiring harness between push button start terminal A and keyless control module terminal 2J • Open circuit in wiring harness between push button start terminal B and keyless control module terminal 2K • Keyless control module malfunction

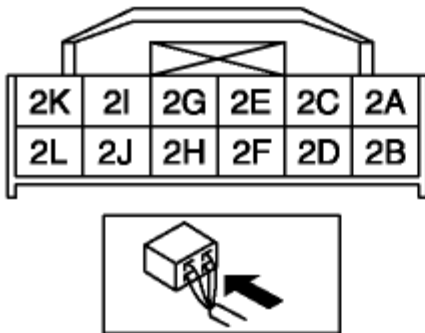
KEYLESS CONTROL MODULE



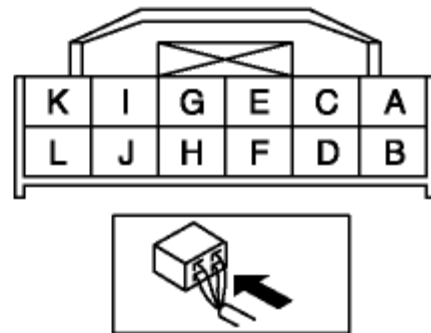
PUSH BUTTON START



KEYLESS CONTROL MODULE WIRING HARNESS-SIDE CONNECTOR



PUSH BUTTON START WIRING HARNESS-SIDE CONNECTOR



Diagnostic Procedure

Step	Inspection	Action
1	INSPECT PUSH BUTTON START CONNECTOR CONDITION - Switch the ignition to off. - Disconnect the negative battery cable. - Disconnect the push button start 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 7.
		No Go to the next step.
2	INSPECT KEYLESS CONTROL MODULE CONNECTOR CONDITION	Yes Repair or replace the connector or terminals, then go to Step 7.

	Disconnect the keyless control module connector. - Inspect the connector and terminals (corrosion, damage, pin disconnection). - Is there any malfunction?	No	Go to the next step.
3	INSPECT PUSH BUTTON START CIRCUIT FOR SHORT TO GROUND - Inspect for continuity between the following terminals and body ground: - Push button start terminal A (wiring harness-side) - Push button start terminal B (wiring harness-side) - Is there continuity?	Yes	Repair or replace the wiring harness for a possible short to ground, then go to Step 7.
		No	Go to the next step.
4	INSPECT PUSH BUTTON START CIRCUIT FOR SHORT TO POWER SUPPLY - Reconnect the negative battery cable. - Switch the ignition to ON. - Measure the voltage between the following terminals and body ground: - Push button start terminal A (wiring harness-side) - Push button start terminal B (wiring harness-side) - Is there any voltage?	Yes	Repair or replace the wiring harness for a possible short to power supply, then go to Step 7.
		No	Go to the next step.
5	INSPECT PUSH BUTTON START - Switch the ignition to off. - Disconnect the negative battery cable. - Inspect the push button start. (See PUSH BUTTON START INSPECTION [WITH ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM] .) - Is there any malfunction?	Yes	Replace the push button start, then go to Step 7. (See PUSH BUTTON START REMOVAL/ INSTALLATION [WITH ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM] .)
		No	Go to the next step.

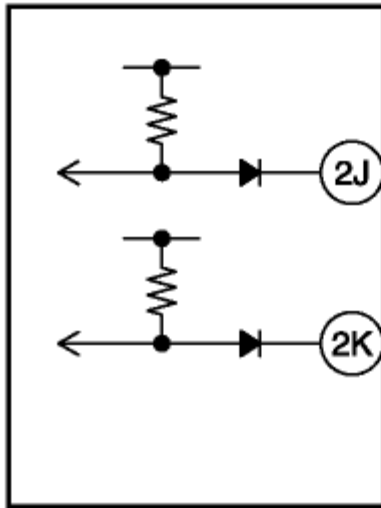
6	INSPECT PUSH BUTTON START CIRCUIT FOR OPEN CIRCUIT - Inspect for continuity between the following terminals: - Push button start terminal A (wiring harness-side) and keyless control module terminal 2J (wiring harness-side) - Push button start terminal B (wiring harness-side) and keyless control module terminal 2K (wiring harness-side) - Is there continuity?	Yes Repair or replace the wiring harness for a possible short to ground, then go to the next step. No Go to the next step.
7	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.
8	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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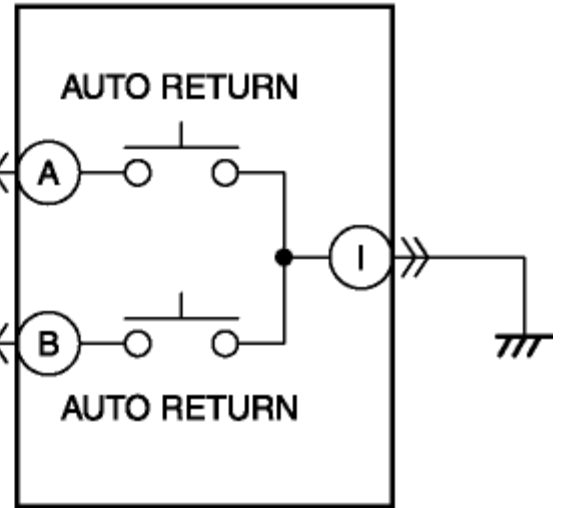
DTC B108B:29 [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM]

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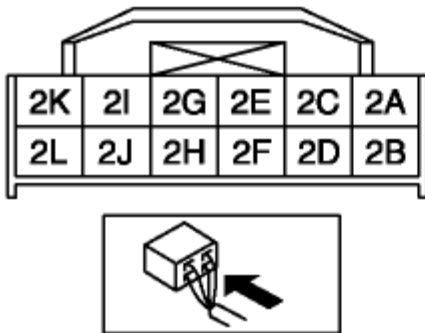
KEYLESS CONTROL MODULE



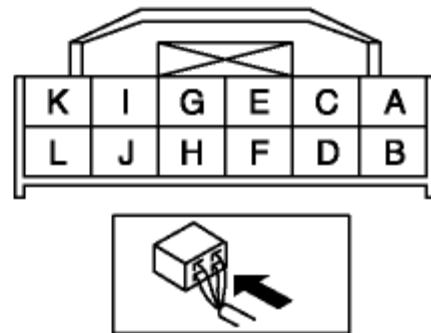
PUSH BUTTON START



KEYLESS CONTROL MODULE WIRING HARNESS-SIDE CONNECTOR



PUSH BUTTON START WIRING HARNESS-SIDE CONNECTOR



Diagnostic Procedure

Step	Inspection	Action
1	INSPECT PUSH BUTTON START CONNECTOR CONDITION - Switch the ignition to off. - Disconnect the negative battery cable. - Disconnect the push button start 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 7. No Go to the next step.
2	INSPECT KEYLESS CONTROL MODULE CONNECTOR CONDITION	Yes Repair or replace the connector or terminals, then go to Step 7. No Go to the next step.

	Disconnect the keyless control module connector. - Inspect the connector and terminals (corrosion, damage, pin disconnection). - Is there any malfunction?	No	Go to the next step.
3	INSPECT PUSH BUTTON START CIRCUIT FOR SHORT TO GROUND - Inspect for continuity between the following terminals and body ground: - Push button start terminal A (wiring harness-side) - Push button start terminal B (wiring harness-side) - Is there continuity?	Yes	Repair or replace the wiring harness for a possible short to ground, then go to Step 7.
		No	Go to the next step.
4	INSPECT PUSH BUTTON START CIRCUIT FOR SHORT TO POWER SUPPLY - Reconnect the negative battery cable. - Switch the ignition to ON. - Measure the voltage between the following terminals and body ground: - Push button start terminal A (wiring harness-side) - Push button start terminal B (wiring harness-side) - Is there any voltage?	Yes	Repair or replace the wiring harness for a possible short to power supply, then go to Step 7.
		No	Go to the next step.
5	INSPECT PUSH BUTTON START - Switch the ignition to off. - Disconnect the negative battery cable. - Inspect the push button start. (See PUSH BUTTON START INSPECTION [WITH ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM] .) - Is there any malfunction?	Yes	Replace the push button start, then go to Step 7. (See PUSH BUTTON START REMOVAL/ INSTALLATION [WITH ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM] .)
		No	Go to the next step.

6	INSPECT PUSH BUTTON START CIRCUIT FOR OPEN CIRCUIT - Inspect for continuity between the following terminals: - Push button start terminal A (wiring harness-side) and keyless control module terminal 2J (wiring harness-side) - Push button start terminal B (wiring harness-side) and keyless control module terminal 2K (wiring harness-side) - Is there continuity?	Yes Repair or replace the wiring harness for a possible short to ground, then go to the next step. No Go to the next step.
7	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.
8	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.

