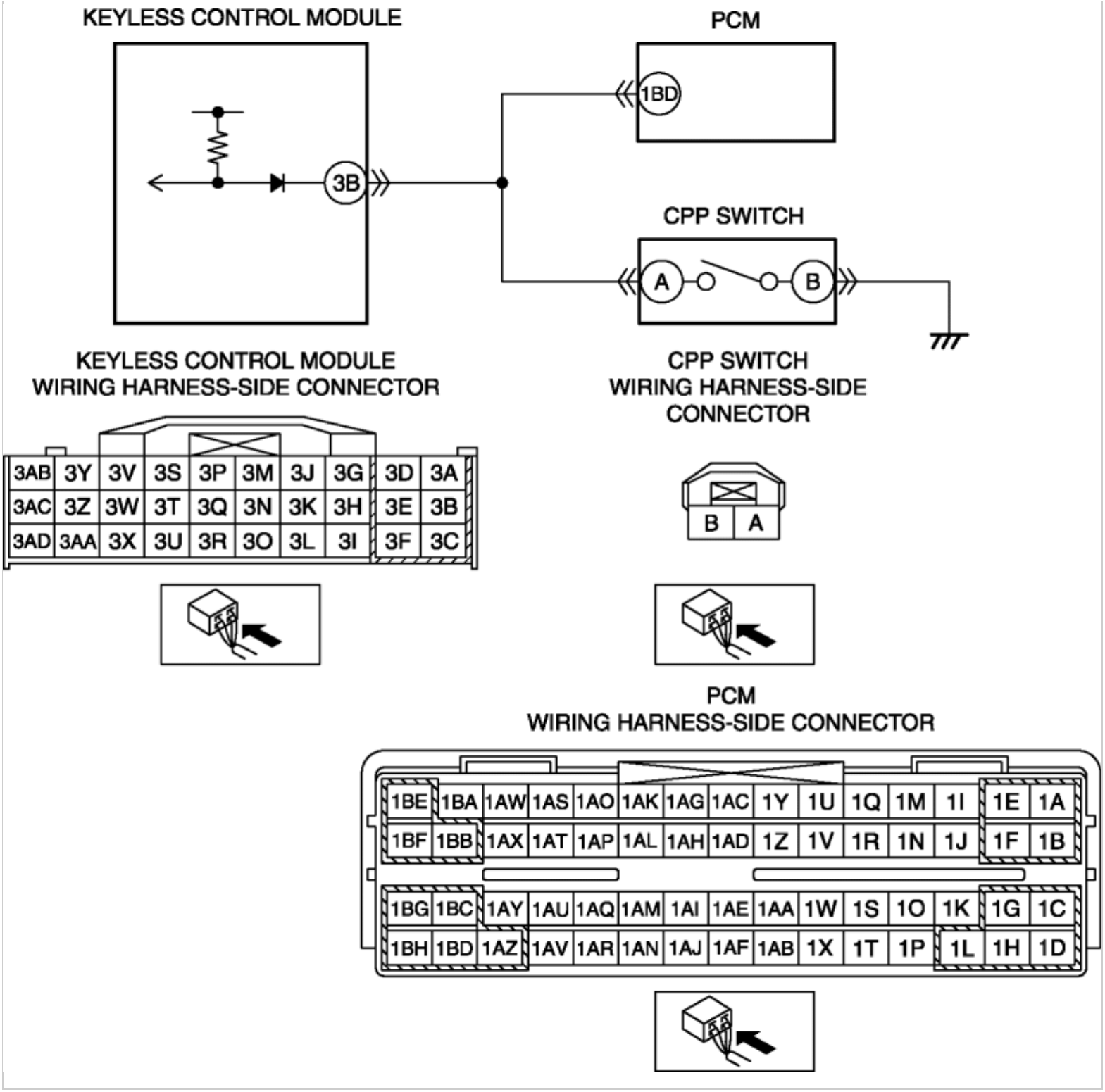
2012 - Mazda6 - Body and Accessories

DTC P0830:23 [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM]

DETECTION CONDITION	Clutch pedal position (CPP) switch signal is detected for **600 s**
POSSIBLE CAUSE	• Connector or terminal malfunction • Short to ground in the wiring harness between clutch pedal position (CPP) switch terminal A and keyless control module terminal 3B • Short to ground in the wiring harness between PCM terminal 1BD and keyless control module terminal 3B • Clutch pedal position (CPP) switch malfunction • PCM malfunction • Keyless control module malfunction



Diagnostic Procedure

Step	Inspection		Action
1	**INSPECT CLUTCH PEDAL POSITION (CPP) SWITCH CONNECTOR CONDITION** • Switch the ignition to off.	Yes	Repair or replace the connector or terminals, then go to Step 7.
		No	Go to the next step.

	• Disconnect the negative battery cable. • Disconnect the clutch pedal position (CPP) switch connector. • Inspect the connector and terminals (corrosion, damage, pin disconnection). • Is there any malfunction?		
2	**INSPECT PCM CONNECTOR CONDITION** • Disconnect the PCM 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.
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 7.
		No	Go to the next step.
4	**INSPECT CLUTCH PEDAL POSITION (CPP) SWITCH POWER SUPPLY CIRCUIT FOR SHORT TO GROUND** • Inspect for continuity between clutch pedal position (CPP) switch terminal A (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 7.
		No	Go to the next step.
5	**INSPECT CLUTCH PEDAL POSITION (CPP) SWITCH** • Inspect the clutch pedal position (CPP) switch. (See **CLUTCH PEDAL POSITION (CPP) SWITCH INSPECTION [MZR 2.5]**.) • Is there any malfunction?	Yes	Replace the clutch pedal position (CPP) switch, then go to Step 7. (See **CLUTCH PEDAL REMOVAL/ INSTALLATION [G66M-R]**.)
		No	Go to the next step.
6	**INSPECT PCM** • Reconnect the disconnected	Yes	Go to the next step.

	connectors. • Reconnect the negative battery cable. • Switch the ignition to ON. • Measure the voltage between PCM terminal 1BD (wiring harness-side) and body ground. • Is the voltage normal? (See **PCM INSPECTION [MZR 2.5]**.)	No	Replace the PCM, then go to the next step. (See **PCM REMOVAL/ INSTALLATION [MZR 2.5]**.)
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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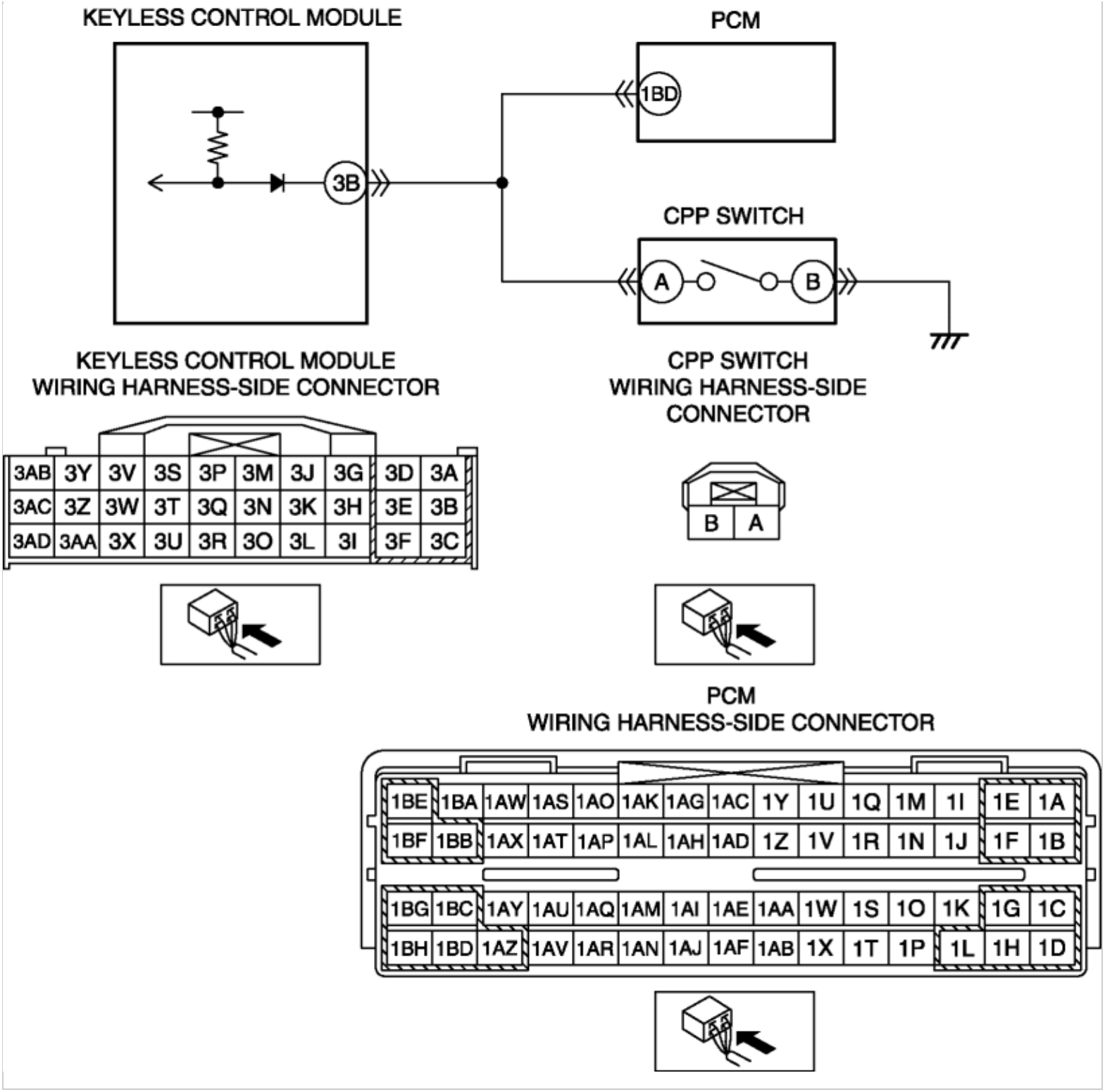

Diagnostic Procedure

Step	Inspection		Action
1	**INSPECT CLUTCH PEDAL POSITION (CPP) SWITCH CONNECTOR CONDITION** • Switch the ignition to off.	Yes	Repair or replace the connector or terminals, then go to Step 7.
		No	Go to the next step.

	• Disconnect the negative battery cable. • Disconnect the clutch pedal position (CPP) switch connector. • Inspect the connector and terminals (corrosion, damage, pin disconnection). • Is there any malfunction?		
2	**INSPECT PCM CONNECTOR CONDITION** • Disconnect the PCM 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.
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 7.
		No	Go to the next step.
4	**INSPECT CLUTCH PEDAL POSITION (CPP) SWITCH POWER SUPPLY CIRCUIT FOR SHORT TO GROUND** • Inspect for continuity between clutch pedal position (CPP) switch terminal A (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 7.
		No	Go to the next step.
5	**INSPECT CLUTCH PEDAL POSITION (CPP) SWITCH** • Inspect the clutch pedal position (CPP) switch. (See **CLUTCH PEDAL POSITION (CPP) SWITCH INSPECTION [MZR 2.5]**.) • Is there any malfunction?	Yes	Replace the clutch pedal position (CPP) switch, then go to Step 7. (See **CLUTCH PEDAL REMOVAL/ INSTALLATION [G66M-R]**.)
		No	Go to the next step.
6	**INSPECT PCM** • Reconnect the disconnected	Yes	Go to the next step.

	connectors. • Reconnect the negative battery cable. • Switch the ignition to ON. • Measure the voltage between PCM terminal 1BD (wiring harness-side) and body ground. • Is the voltage normal? (See **PCM INSPECTION [MZR 2.5]**.)	No	Replace the PCM, then go to the next step. (See **PCM REMOVAL/ INSTALLATION [MZR 2.5]**.)
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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