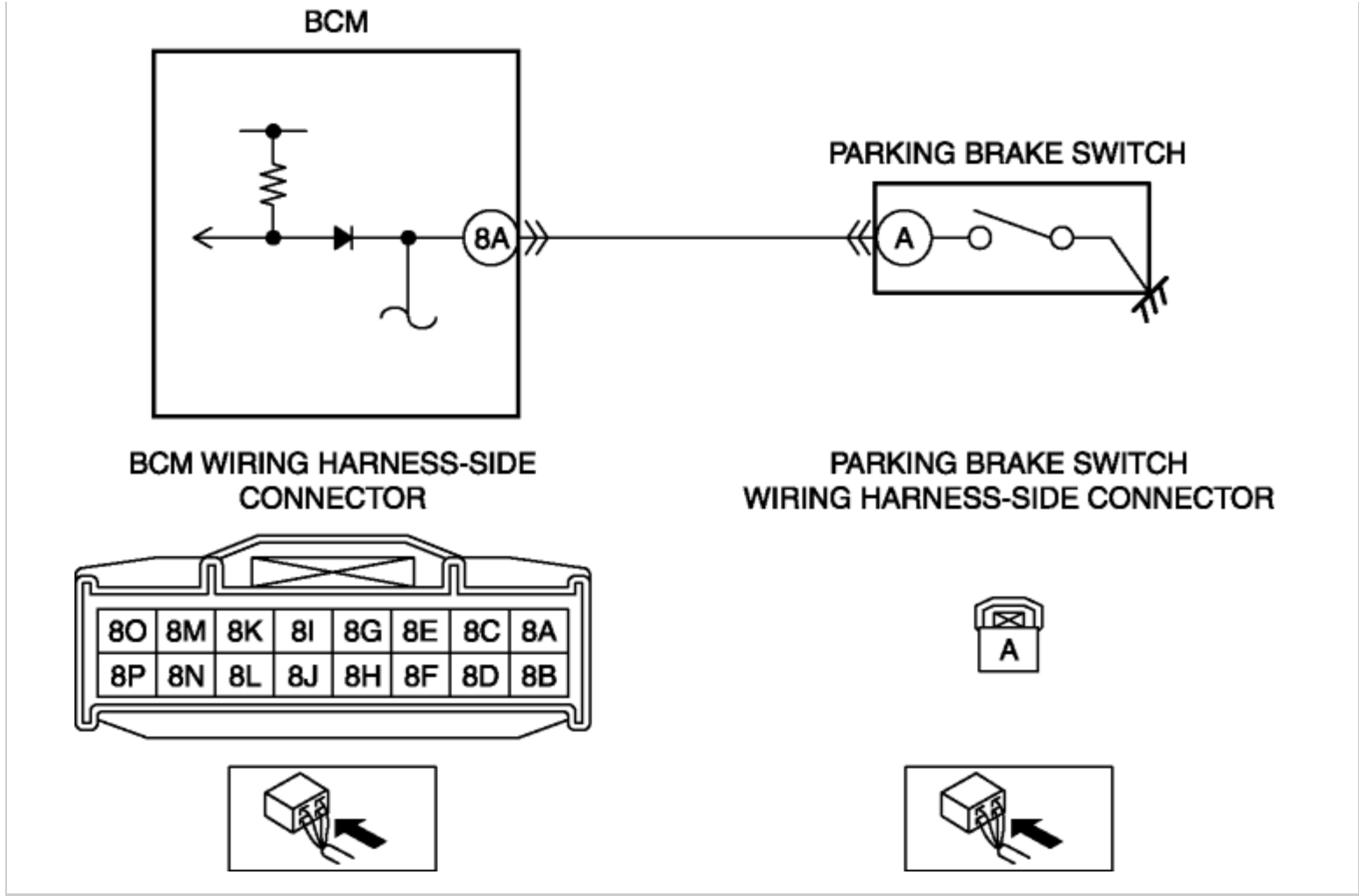


2012 - Mazda6 - Body and Accessories

DTC P1536:13 [BCM]

DESCRIPTION	Parking brake switch circuit malfunction
DETECTION CONDITION	• Open circuit detected in parking brake switch circuit with the parking brake lever applied (parking brake switch on).
POSSIBLE CAUSE	• Parking brake switch connector or terminals malfunction • Parking brake switch malfunction • BCM connector or terminals malfunction • Open circuit in wiring harness between parking brake switch terminal A and BCM terminal 8A • BCM malfunction



Diagnostic Procedure

Step	Inspection	Action
1	PERFORM DTC INSPECTION - Clear the DTC from the BCM memory using the M-MDS. (See CLEARING DTC [BCM] .) - Perform the BCM DTC inspection using the M-MDS with the parking brake lever applied (parking brake switch on). (See DTC INSPECTION [BCM] .) - Is the same DTC present?	YesGo to the next step.
		No Go to Step 8.
2	INSPECT PARKING BRAKE SWITCH CONNECTOR CONDITION - Switch the ignition to off. - Disconnect the negative battery cable.	YesRepair or replace the connector or terminals, then go to Step 7.
		No Go to the next step.

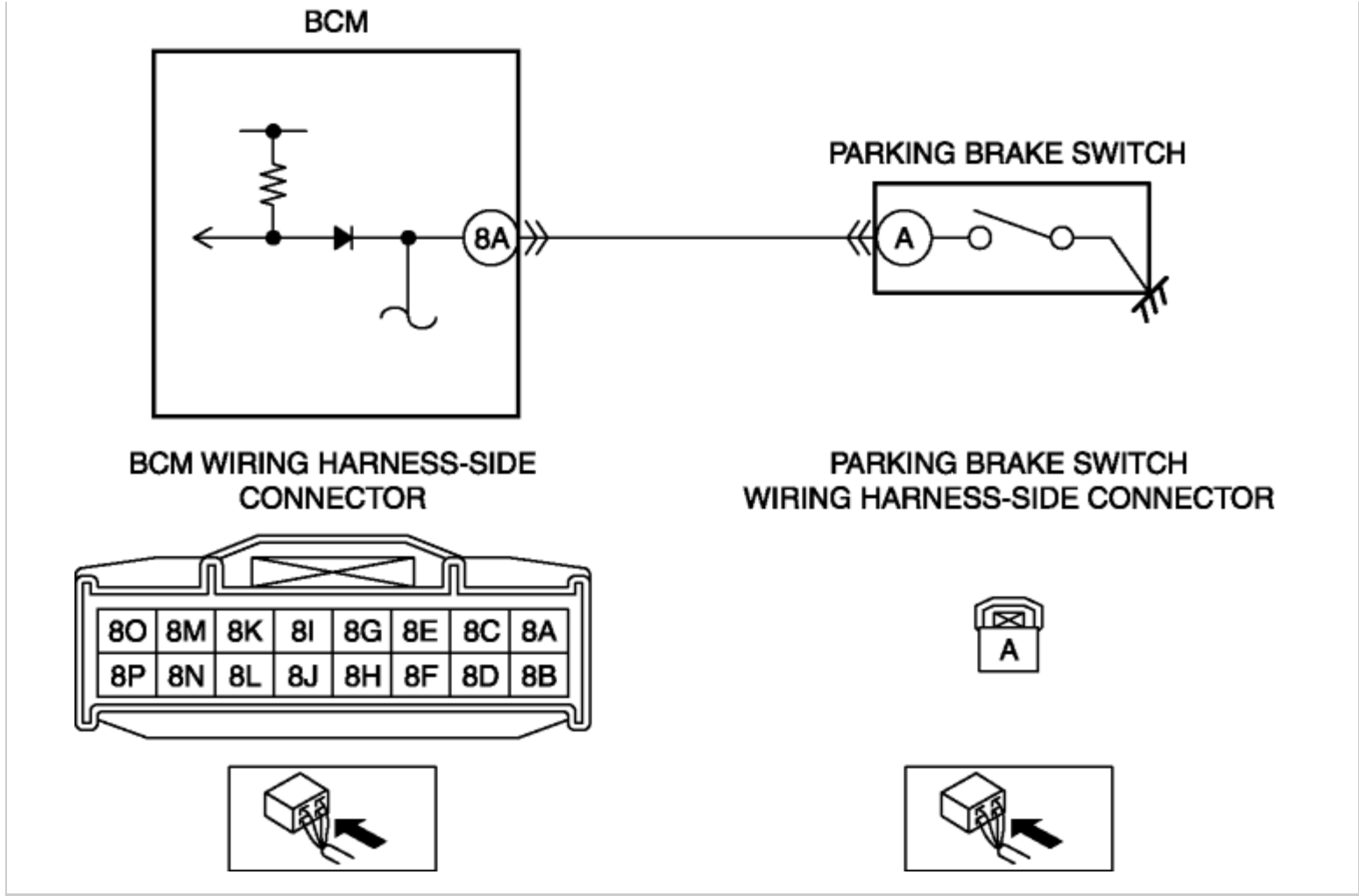
	• Disconnect the parking brake switch connector. • Inspect for poor connection (damaged/pulled-out pins, corrosion). • Is there any malfunction?		
3	DETERMINE THE MALFUNCTION LOCATION • Parking brake switch connector is disconnected. • Reconnect the negative battery cable. • Measure the voltage between parking brake switch terminal A (wiring harness-side) and body ground. • Is there any voltage?	Yes	Go to the next step.
		No	Go to Step 5.
4	INSPECT PARKING BRAKE SWITCH • Inspect the parking brake switch. (See PARKING BRAKE SWITCH INSPECTION.) • Is there any malfunction?	Yes	Replace the parking brake switch, then go to Step 7. (See PARKING BRAKE LEVER REMOVAL/ INSTALLATION .)
		No	Go to Step 7.
5	INSPECT BCM CONNECTOR CONDITION • Disconnect the negative battery cable. • Disconnect the BCM connector. • Inspect for poor connection (damaged/pulled-out pins, corrosion). • Is there any malfunction?	Yes	Repair or replace the connector or terminals, then go to Step 7.
		No	Go to the next step.
6	CONCLUDE THE MALFUNCTION LOCATION • Parking brake switch and BCM connectors are disconnected. • Reconnect all disconnected connectors. • Reconnect the negative battery cable. • Measure the voltage between BCM terminal 8A (wiring harness-side) and body ground. • Is there any voltage?	Yes	Repair or replace the wiring harness for a possible open circuit, then go to the next step.
		No	Go to the next step.

7	VERIFY TROUBLESHOOTING COMPLETED • Make sure to reconnect all disconnected connectors. • Reconnect the negative battery cable. • Clear the DTC from the BCM memory using the M-MDS. (See CLEARING DTC [BCM].) • Perform the BCM DTC inspection using the M-MDS with the parking brake lever applied (parking brake switch on). (See DTC INSPECTION [BCM].) • Is the same DTC present?		Yes Repeat the inspection from Step 1. If the malfunction recurs, replace the BCM, then go to the next step. (See BODY CONTROL MODULE (BCM) REMOVAL/ INSTALLATION.) 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 [BCM].) No DTC troubleshooting completed.

2012 - Mazda6 - Body and Accessories

DTC P1536:13 [BCM]

DESCRIPTION	Parking brake switch circuit malfunction
DETECTION CONDITION	• Open circuit detected in parking brake switch circuit with the parking brake lever applied (parking brake switch on).
POSSIBLE CAUSE	• Parking brake switch connector or terminals malfunction • Parking brake switch malfunction • BCM connector or terminals malfunction • Open circuit in wiring harness between parking brake switch terminal A and BCM terminal 8A • BCM malfunction



Diagnostic Procedure

Step	Inspection	Action
1	PERFORM DTC INSPECTION - Clear the DTC from the BCM memory using the M-MDS. (See CLEARING DTC [BCM] .) - Perform the BCM DTC inspection using the M-MDS with the parking brake lever applied (parking brake switch on). (See DTC INSPECTION [BCM] .) - Is the same DTC present?	YesGo to the next step.
		NoGo to Step 8.
2	INSPECT PARKING BRAKE SWITCH CONNECTOR CONDITION - Switch the ignition to off. - Disconnect the negative battery cable.	YesRepair or replace the connector or terminals, then go to Step 7.
		NoGo to the next step.

	• Disconnect the parking brake switch connector. • Inspect for poor connection (damaged/pulled-out pins, corrosion). • Is there any malfunction?		
3	DETERMINE THE MALFUNCTION LOCATION • Parking brake switch connector is disconnected. • Reconnect the negative battery cable. • Measure the voltage between parking brake switch terminal A (wiring harness-side) and body ground. • Is there any voltage?	Yes	Go to the next step.
		No	Go to Step 5.
4	INSPECT PARKING BRAKE SWITCH • Inspect the parking brake switch. (See PARKING BRAKE SWITCH INSPECTION.) • Is there any malfunction?	Yes	Replace the parking brake switch, then go to Step 7. (See PARKING BRAKE LEVER REMOVAL/ INSTALLATION .)
		No	Go to Step 7.
5	INSPECT BCM CONNECTOR CONDITION • Disconnect the negative battery cable. • Disconnect the BCM connector. • Inspect for poor connection (damaged/pulled-out pins, corrosion). • Is there any malfunction?	Yes	Repair or replace the connector or terminals, then go to Step 7.
		No	Go to the next step.
6	CONCLUDE THE MALFUNCTION LOCATION • Parking brake switch and BCM connectors are disconnected. • Reconnect all disconnected connectors. • Reconnect the negative battery cable. • Measure the voltage between BCM terminal 8A (wiring harness-side) and body ground. • Is there any voltage?	Yes	Repair or replace the wiring harness for a possible open circuit, then go to the next step.
		No	Go to the next step.

7	VERIFY TROUBLESHOOTING COMPLETED • Make sure to reconnect all disconnected connectors. • Reconnect the negative battery cable. • Clear the DTC from the BCM memory using the M-MDS. (See CLEARING DTC [BCM].) • Perform the BCM DTC inspection using the M-MDS with the parking brake lever applied (parking brake switch on). (See DTC INSPECTION [BCM].) • Is the same DTC present?		Yes Repeat the inspection from Step 1. If the malfunction recurs, replace the BCM, then go to the next step. (See BODY CONTROL MODULE (BCM) REMOVAL/ INSTALLATION.) 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 [BCM].) No DTC troubleshooting completed.