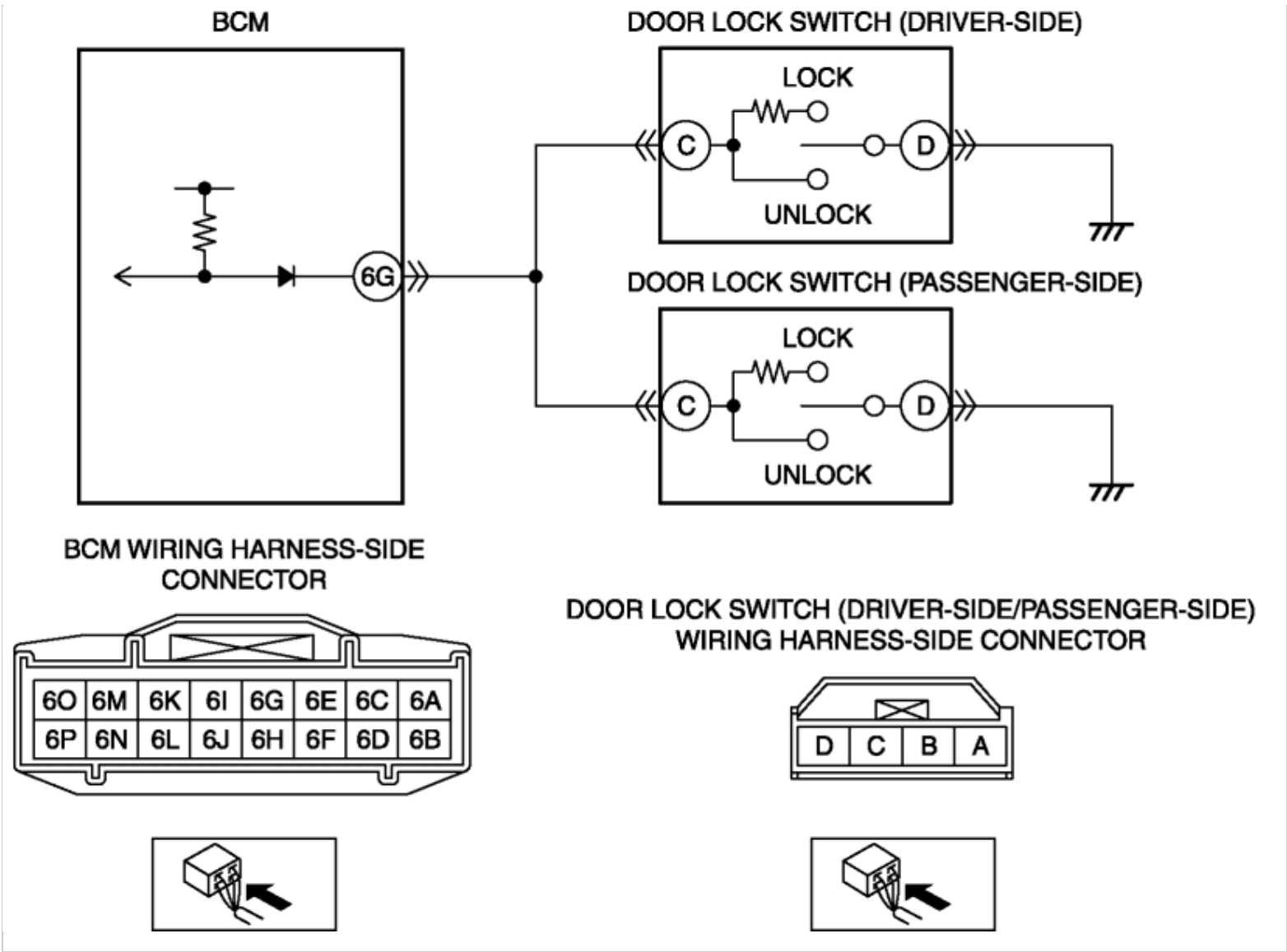


2012 - Mazda6 - Body and Accessories

DTC B108F:16 [BCM]

DESCRIPTION	Door lock switch circuit malfunction
DETECTION CONDITION	• The voltage of door lock switch circuit is less than 3.75 V with the door lock switch off.
POSSIBLE CAUSE	• Door lock switch (driver-side and/or passenger-side) connector or terminals malfunction • Door lock switch (driver-side and/or passenger-side) malfunction • BCM connector or terminals malfunction • Short to ground in wiring harness between door lock switch (driver-side/passenger-side) terminal C and BCM terminal 6G • 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 door lock switch off. (See DTC INSPECTION [BCM].) - Is the same DTC present?	Yes Go to the next step. No Go to Step 7.
2	INSPECT DOOR LOCK SWITCH (DRIVER-SIDE AND PASSENGER-SIDE) CONNECTORS CONDITION Switch the ignition to off.	Yes Repair or replace the connector or terminals, then go to Step 6. No Go to the next step.

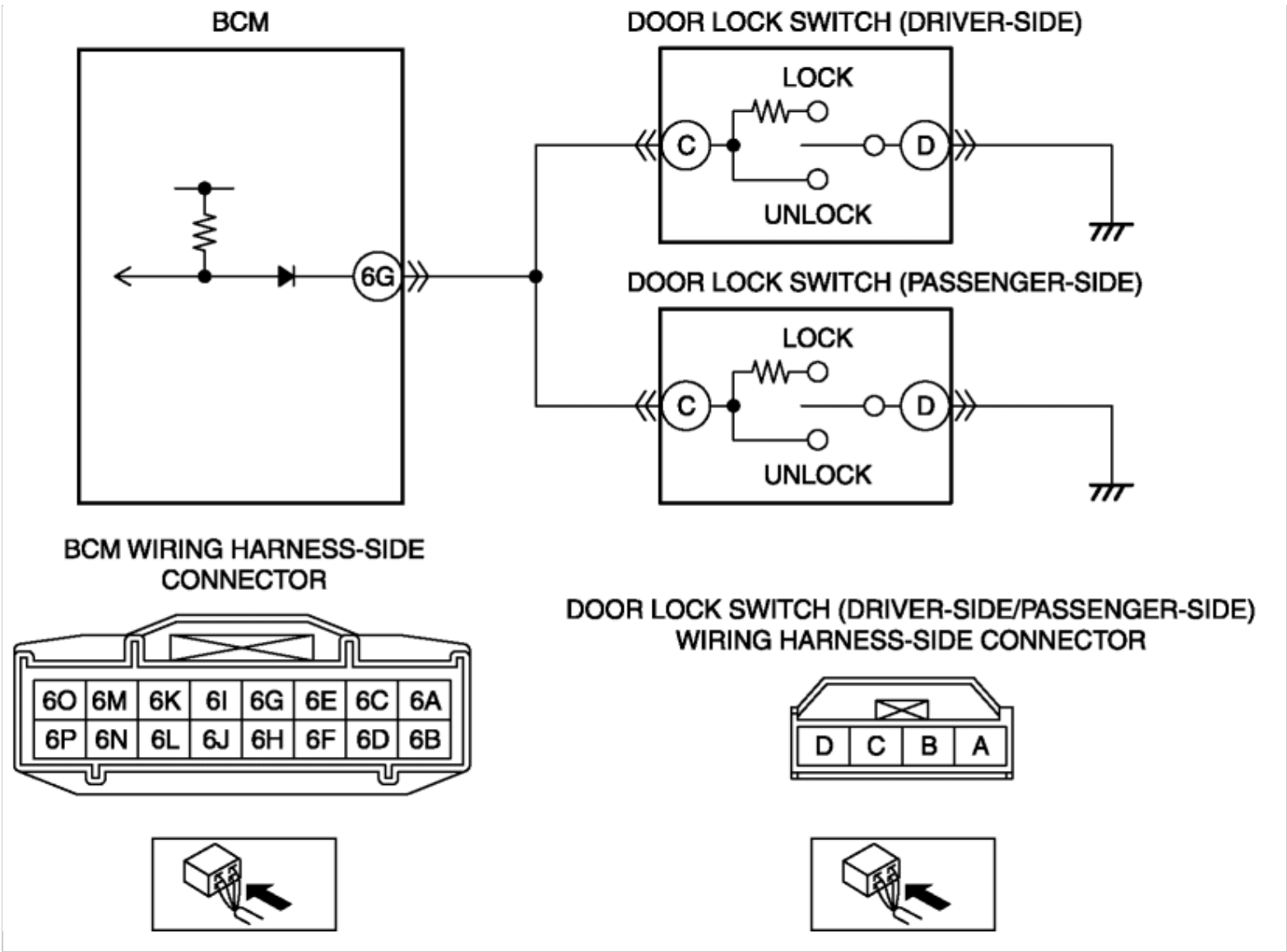
	• Disconnect the negative battery cable. • Disconnect the door lock switch (driver-side and passenger-side) connectors. • Inspect for poor connection (damaged/pulled-out pins, corrosion). • Is there any malfunction?		
3	INSPECT DOOR LOCK SWITCH (DRIVER-SIDE AND PASSENGER-SIDE) • Inspect the door lock switch (driver-side and passenger-side). (See DOOR LOCK SWITCH INSPECTION.) • Is there any malfunction?	Yes	Replace the door lock switch (driver-side and/or passenger-side), then go to Step 6. (See DOOR LOCK SWITCH REMOVAL/INSTALLATION .)
		No	Go to the next step.
4	INSPECT BCM CONNECTOR CONDITION • 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 6.
		No	Go to the next step.
5	INSPECT DOOR LOCK SWITCH (DRIVER-SIDE AND PASSENGER-SIDE) CIRCUIT FOR SHORT TO GROUND • Door lock switch (driver-side and passenger-side) and BCM connectors are disconnected. • Inspect for continuity between door lock switch (driver-side/passenger-side) terminal C (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 the next step.
		No	Go to the next step.
6	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 door lock switch off. (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.

7	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 B108F:16 [BCM]

DESCRIPTION	Door lock switch circuit malfunction
DETECTION CONDITION	• The voltage of door lock switch circuit is less than 3.75 V with the door lock switch off.
POSSIBLE CAUSE	• Door lock switch (driver-side and/or passenger-side) connector or terminals malfunction • Door lock switch (driver-side and/or passenger-side) malfunction • BCM connector or terminals malfunction • Short to ground in wiring harness between door lock switch (driver-side/passenger-side) terminal C and BCM terminal 6G • 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 door lock switch off. (See DTC INSPECTION [BCM].) - Is the same DTC present?	Yes Go to the next step. No Go to Step 7.
2	INSPECT DOOR LOCK SWITCH (DRIVER-SIDE AND PASSENGER-SIDE) CONNECTORS CONDITION Switch the ignition to off.	Yes Repair or replace the connector or terminals, then go to Step 6. No Go to the next step.

	• Disconnect the negative battery cable. • Disconnect the door lock switch (driver-side and passenger-side) connectors. • Inspect for poor connection (damaged/pulled-out pins, corrosion). • Is there any malfunction?		
3	INSPECT DOOR LOCK SWITCH (DRIVER-SIDE AND PASSENGER-SIDE) • Inspect the door lock switch (driver-side and passenger-side). (See DOOR LOCK SWITCH INSPECTION .) • Is there any malfunction?	Yes	Replace the door lock switch (driver-side and/or passenger-side), then go to Step 6. (See DOOR LOCK SWITCH REMOVAL/INSTALLATION .)
		No	Go to the next step.
4	INSPECT BCM CONNECTOR CONDITION • 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 6.
		No	Go to the next step.
5	INSPECT DOOR LOCK SWITCH (DRIVER-SIDE AND PASSENGER-SIDE) CIRCUIT FOR SHORT TO GROUND • Door lock switch (driver-side and passenger-side) and BCM connectors are disconnected. • Inspect for continuity between door lock switch (driver-side/passenger-side) terminal C (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 the next step.
		No	Go to the next step.
6	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 door lock switch off. (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.

7	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.