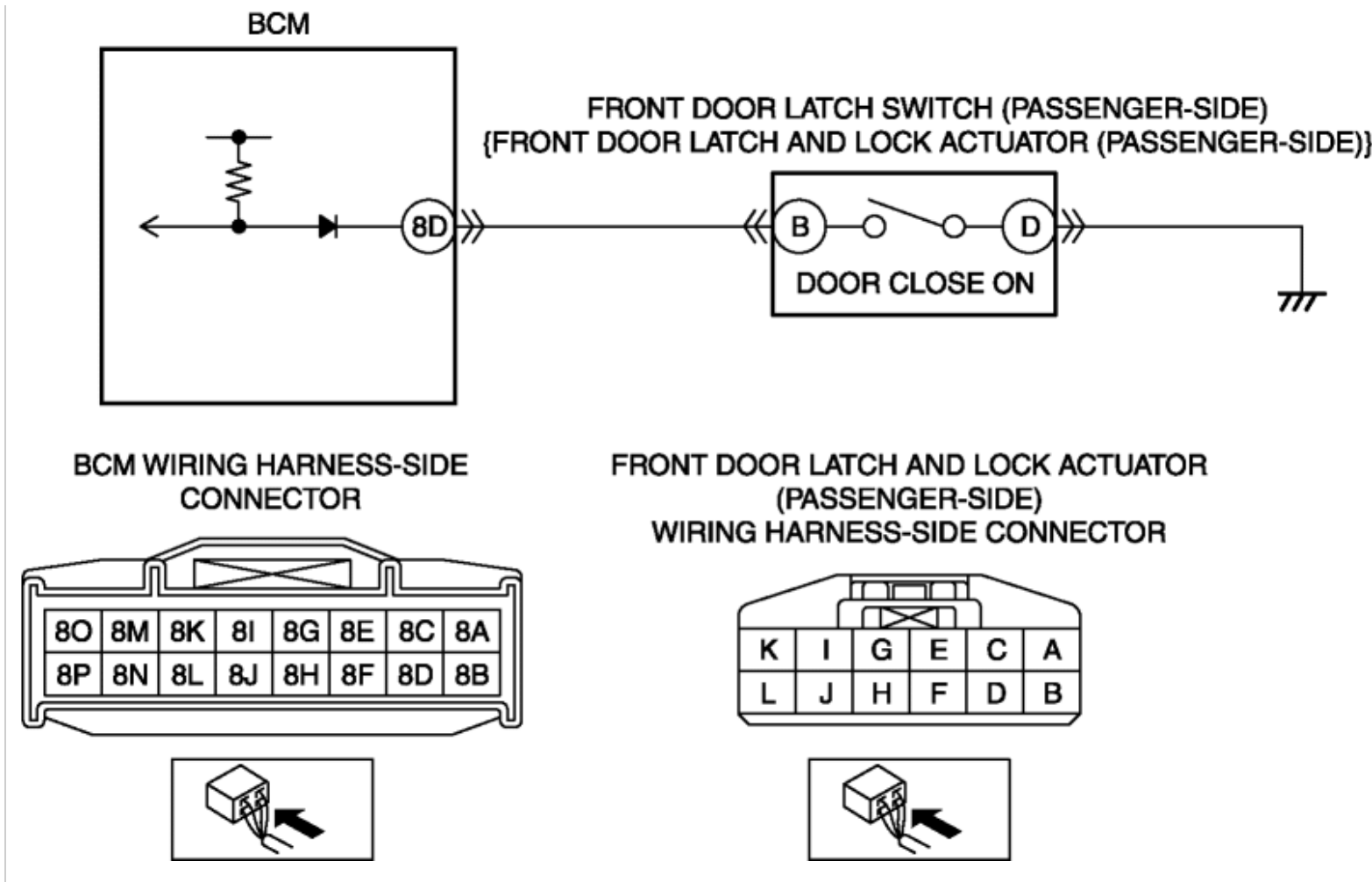


2012 - Mazda6 - Body and Accessories

DTC B1176:13 [BCM]

DESCRIPTION	Front door latch switch (passenger-side) circuit malfunction
DETECTION CONDITION	• Open circuit detected in front door latch switch (passenger-side) circuit with the front door (passenger-side) closed {front door latch switch (passenger-side) on}.
POSSIBLE CAUSE	• Front door latch and lock actuator (passenger-side) connector or terminals malfunction • Open circuit in wiring harness between front door latch and lock actuator (passenger-side) terminal D and body ground • Front door latch switch (passenger-side) malfunction • BCM connector or terminals malfunction • Open circuit in wiring harness between front door latch and lock actuator (passenger-side) terminal B and BCM terminal 8D • 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 front door (passenger-side) closed {front door latch switch (passenger-side) on}. (See DTC INSPECTION [BCM] .) - Is the same DTC present?	Yes Go to the next step.
		No Go to Step 9.
2	INSPECT FRONT DOOR LATCH AND LOCK ACTUATOR (PASSENGER-SIDE) CONNECTOR CONDITION - Switch the ignition to off. - Disconnect the negative battery cable.	Yes Repair or replace the connector or terminals, then go to Step 8.
		No Go to the next step.

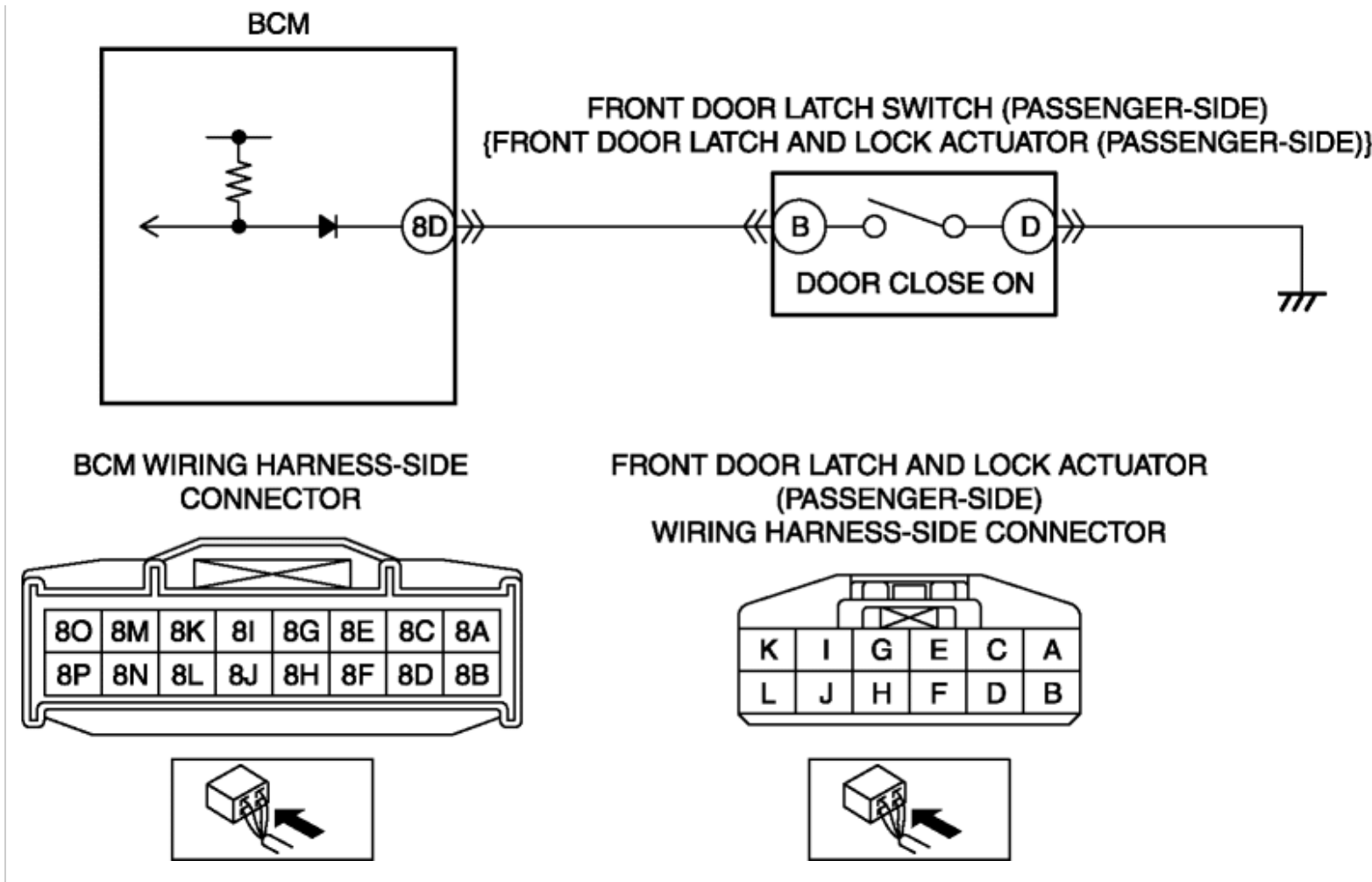
	• Disconnect the front door latch and lock actuator (passenger-side) connector. • Inspect for poor connection (damaged/pulled-out pins, corrosion). • Is there any malfunction?		
3	DETERMINE THE MALFUNCTION LOCATION • Front door latch and lock actuator (passenger-side) connector is disconnected. • Reconnect the negative battery cable. • Measure the voltage between front door latch and lock actuator (passenger-side) terminal B (wiring harness-side) and body ground. • Is there any voltage?	Yes	Go to the next step.
		No	Go to Step 6.
4	INSPECT FRONT DOOR LATCH SWITCH (PASSENGER-SIDE) GROUND CIRCUIT FOR OPEN CIRCUIT • Front door latch and lock actuator (passenger-side) connector is disconnected. • Disconnect the negative battery cable. • Inspect for continuity between front door latch and lock actuator (passenger-side) terminal D (wiring harness-side) and body ground. • Is there continuity?	Yes	Go to the next step.
		No	Repair or replace the wiring harness for a possible open circuit, then go to Step 8.
5	INSPECT FRONT DOOR LATCH SWITCH (PASSENGER-SIDE) • Inspect the front door latch switch (passenger-side). (See FRONT DOOR LATCH SWITCH INSPECTION.) • Is there any malfunction?	Yes	Replace the front door latch and lock actuator (passenger-side), then go to Step 8. (See FRONT DOOR LATCH AND LOCK ACTUATOR REMOVAL/ INSTALLATION .)
		No	Go to Step 8.
6	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 8.
		No	Go to the next step.
7	CONCLUDE THE MALFUNCTION LOCATION	Yes	Repair or replace the wiring harness for a possible open circuit,

	• Front door latch and lock actuator (passenger-side) and BCM connectors are disconnected. • Reconnect all disconnected connectors. • Reconnect the negative battery cable. • Measure the voltage between BCM terminal 8D (wiring harness-side) and body ground. • Is there any voltage?		then go to the next step.
		No	Go to the next step.
8	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 front door (passenger-side) closed {front door latch switch (passenger-side) 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.
9	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 B1176:13 [BCM]

DESCRIPTION	Front door latch switch (passenger-side) circuit malfunction
DETECTION CONDITION	• Open circuit detected in front door latch switch (passenger-side) circuit with the front door (passenger-side) closed {front door latch switch (passenger-side) on}.
POSSIBLE CAUSE	• Front door latch and lock actuator (passenger-side) connector or terminals malfunction • Open circuit in wiring harness between front door latch and lock actuator (passenger-side) terminal D and body ground • Front door latch switch (passenger-side) malfunction • BCM connector or terminals malfunction • Open circuit in wiring harness between front door latch and lock actuator (passenger-side) terminal B and BCM terminal 8D • 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 front door (passenger-side) closed {front door latch switch (passenger-side) on}. (See DTC INSPECTION [BCM] .) - Is the same DTC present?	Yes Go to the next step.
		No Go to Step 9.
2	INSPECT FRONT DOOR LATCH AND LOCK ACTUATOR (PASSENGER-SIDE) CONNECTOR CONDITION - Switch the ignition to off. - Disconnect the negative battery cable.	Yes Repair or replace the connector or terminals, then go to Step 8.
		No Go to the next step.

	• Disconnect the front door latch and lock actuator (passenger-side) connector. • Inspect for poor connection (damaged/pulled-out pins, corrosion). • Is there any malfunction?		
3	DETERMINE THE MALFUNCTION LOCATION • Front door latch and lock actuator (passenger-side) connector is disconnected. • Reconnect the negative battery cable. • Measure the voltage between front door latch and lock actuator (passenger-side) terminal B (wiring harness-side) and body ground. • Is there any voltage?	Yes	Go to the next step.
		No	Go to Step 6.
4	INSPECT FRONT DOOR LATCH SWITCH (PASSENGER-SIDE) GROUND CIRCUIT FOR OPEN CIRCUIT • Front door latch and lock actuator (passenger-side) connector is disconnected. • Disconnect the negative battery cable. • Inspect for continuity between front door latch and lock actuator (passenger-side) terminal D (wiring harness-side) and body ground. • Is there continuity?	Yes	Go to the next step.
		No	Repair or replace the wiring harness for a possible open circuit, then go to Step 8.
5	INSPECT FRONT DOOR LATCH SWITCH (PASSENGER-SIDE) • Inspect the front door latch switch (passenger-side). (See FRONT DOOR LATCH SWITCH INSPECTION.) • Is there any malfunction?	Yes	Replace the front door latch and lock actuator (passenger-side), then go to Step 8. (See FRONT DOOR LATCH AND LOCK ACTUATOR REMOVAL/ INSTALLATION .)
		No	Go to Step 8.
6	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 8.
		No	Go to the next step.
7	CONCLUDE THE MALFUNCTION LOCATION	Yes	Repair or replace the wiring harness for a possible open circuit,

	• Front door latch and lock actuator (passenger-side) and BCM connectors are disconnected. • Reconnect all disconnected connectors. • Reconnect the negative battery cable. • Measure the voltage between BCM terminal 8D (wiring harness-side) and body ground. • Is there any voltage?		then go to the next step.
		No	Go to the next step.
8	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 front door (passenger-side) closed {front door latch switch (passenger-side) 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.
9	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.