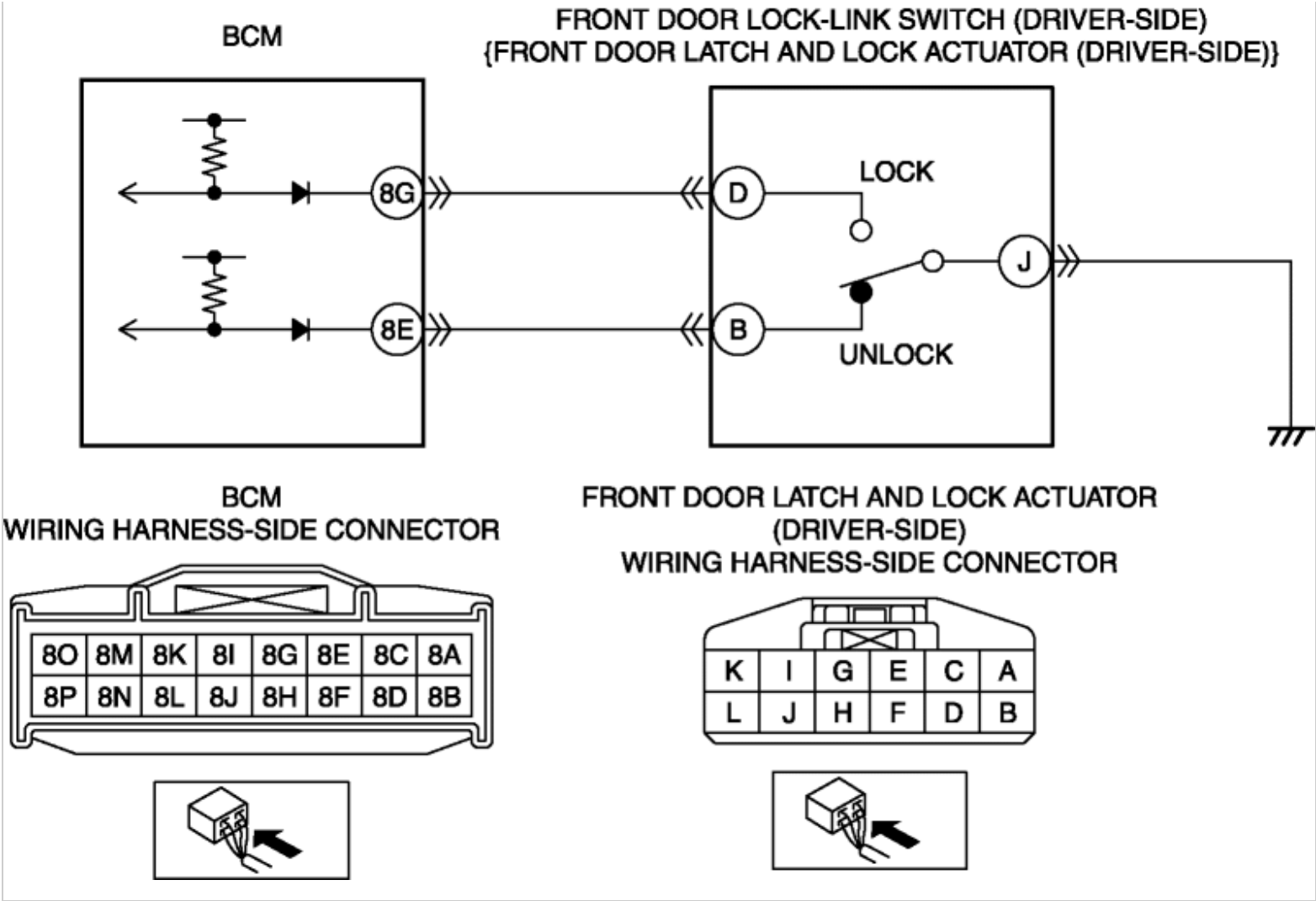


2012 - Mazda6 - Body and Accessories

DTC B1172:11 [BCM]

DESCRIPTION	Front door lock-link switch (driver-side) circuit malfunction
DETECTI ON CONDI TION	• Short to ground detected in front door lock-link switch (driver-side) unlock-side circuit with the front door lock-link switch (driver-side) locked.
POSSI BLE CAUSE	• Front door latch and lock actuator (driver-side) connector or terminals malfunction • Front door lock-link switch (driver-side) malfunction • BCM connector or terminals malfunction • Short to ground in wiring harness between front door latch and lock actuator (driver-side) terminal B and BCM terminal 8E • 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 lock-link switch (driver-side) locked. (See DTC INSPECTION [BCM].) - Is the same DTC present?	Yes Go to the next step.
		No Go to Step 7.
2	INSPECT FRONT DOOR LATCH AND LOCK ACTUATOR (DRIVER-SIDE) CONNECTOR 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.

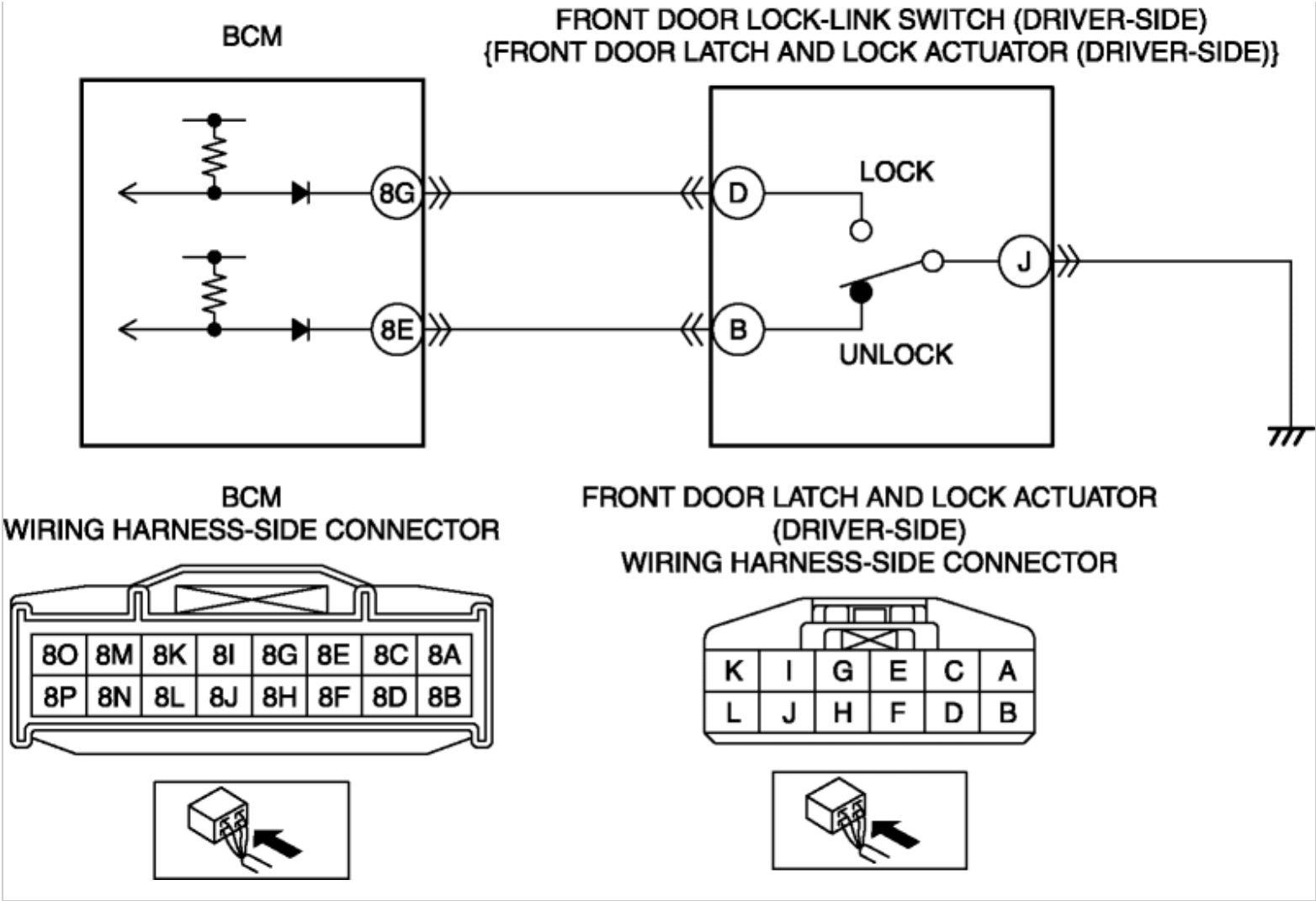
	• Disconnect the negative battery cable. • Disconnect the front door latch and lock actuator (driver-side) connector. • Inspect for poor connection (damaged/pulled-out pins, corrosion). • Is there any malfunction?		
3	INSPECT FRONT DOOR LOCK-LINK SWITCH (DRIVER-SIDE) • Inspect the front door lock-link switch (driver-side). (See DOOR LOCK-LINK SWITCH INSPECTION .) • Is there any malfunction?	Yes	Replace the front door latch and lock actuator (driver-side), then go to Step 6. (See FRONT DOOR LATCH AND LOCK ACTUATOR 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 FRONT DOOR LOCK-LINK SWITCH (DRIVER-SIDE) CIRCUIT FOR SHORT TO GROUND • Front door latch and lock actuator (driver-side) and BCM connectors are disconnected. • Inspect for continuity between front door latch and lock actuator (driver-side) terminal B (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 front door lock-link switch (driver-side) locked. (See DTC INSPECTION [BCM] .)	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.

	Is the same DTC present?		
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 B1172:11 [BCM]

DESCRIPTION	Front door lock-link switch (driver-side) circuit malfunction
DETECTI ON CONDI TION	• Short to ground detected in front door lock-link switch (driver-side) unlock-side circuit with the front door lock-link switch (driver-side) locked.
POSSI BLE CAUSE	• Front door latch and lock actuator (driver-side) connector or terminals malfunction • Front door lock-link switch (driver-side) malfunction • BCM connector or terminals malfunction • Short to ground in wiring harness between front door latch and lock actuator (driver-side) terminal B and BCM terminal 8E • 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 lock-link switch (driver-side) locked. (See DTC INSPECTION [BCM].) - Is the same DTC present?	YesGo to the next step.
		NoGo to Step 7.
2	INSPECT FRONT DOOR LATCH AND LOCK ACTUATOR (DRIVER-SIDE) CONNECTOR CONDITION Switch the ignition to off.	YesRepair or replace the connector or terminals, then go to Step 6.
		NoGo to the next step.

	• Disconnect the negative battery cable. • Disconnect the front door latch and lock actuator (driver-side) connector. • Inspect for poor connection (damaged/pulled-out pins, corrosion). • Is there any malfunction?		
3	INSPECT FRONT DOOR LOCK-LINK SWITCH (DRIVER-SIDE) • Inspect the front door lock-link switch (driver-side). (See DOOR LOCK-LINK SWITCH INSPECTION.) • Is there any malfunction?	Yes	Replace the front door latch and lock actuator (driver-side), then go to Step 6. (See FRONT DOOR LATCH AND LOCK ACTUATOR 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 FRONT DOOR LOCK-LINK SWITCH (DRIVER-SIDE) CIRCUIT FOR SHORT TO GROUND • Front door latch and lock actuator (driver-side) and BCM connectors are disconnected. • Inspect for continuity between front door latch and lock actuator (driver-side) terminal B (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 front door lock-link switch (driver-side) locked. (See DTC INSPECTION [BCM].)	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.

	Is the same DTC present?		
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.