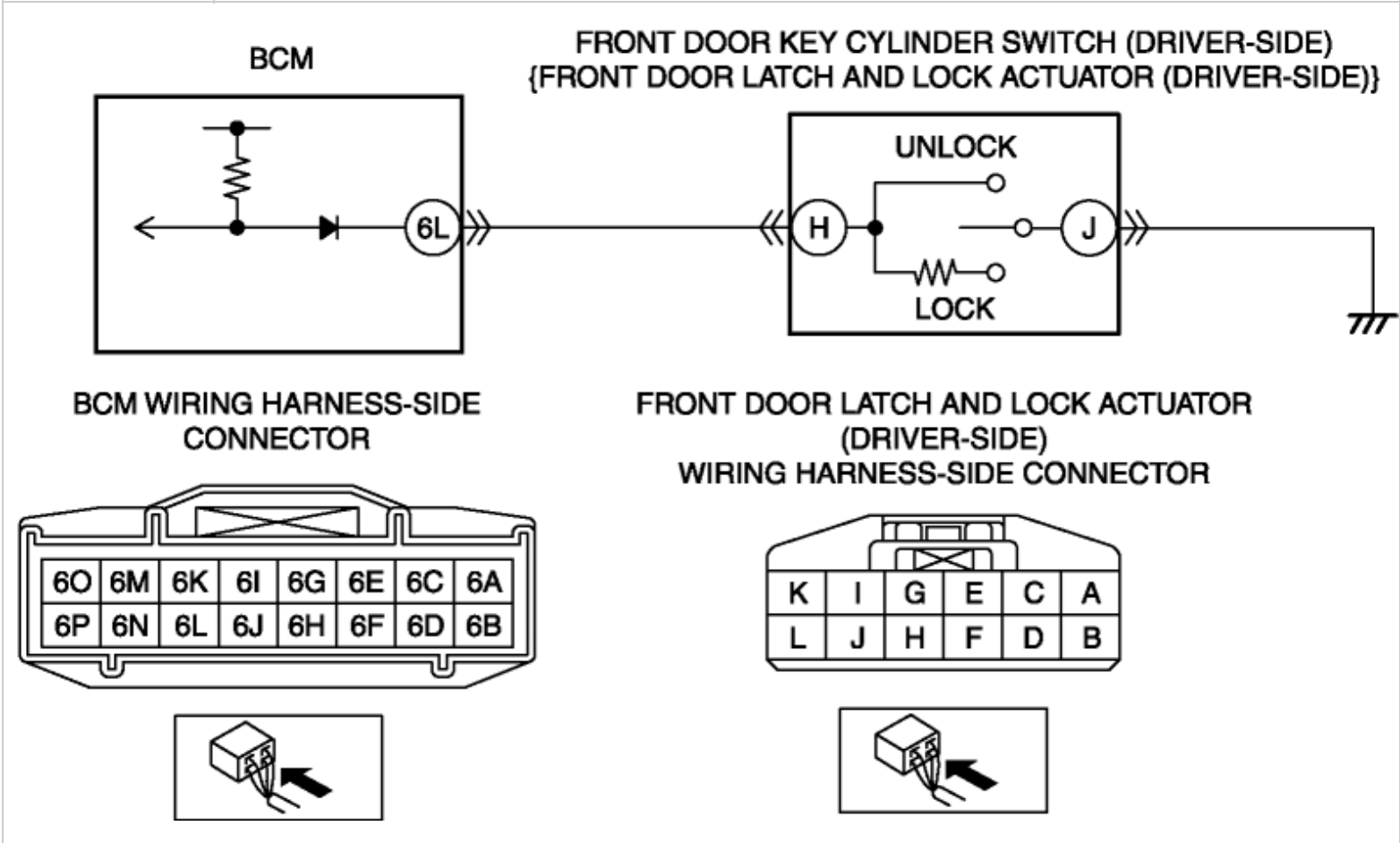


2012 - Mazda6 - Body and Accessories

DTC B11DA:11 [BCM]

DESCRIPTION	Front door key cylinder switch (driver-side) circuit malfunction
DETECTION CONDITION	• Short to ground detected in front door key cylinder switch (driver-side) circuit with the front door key cylinder switch (driver-side) off.
POSSIBLE CAUSE	• Front door latch and lock actuator (driver-side) connector or terminals malfunction • Front door key cylinder 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 H and BCM terminal 6L • BCM malfunction



Diagnostic Procedure

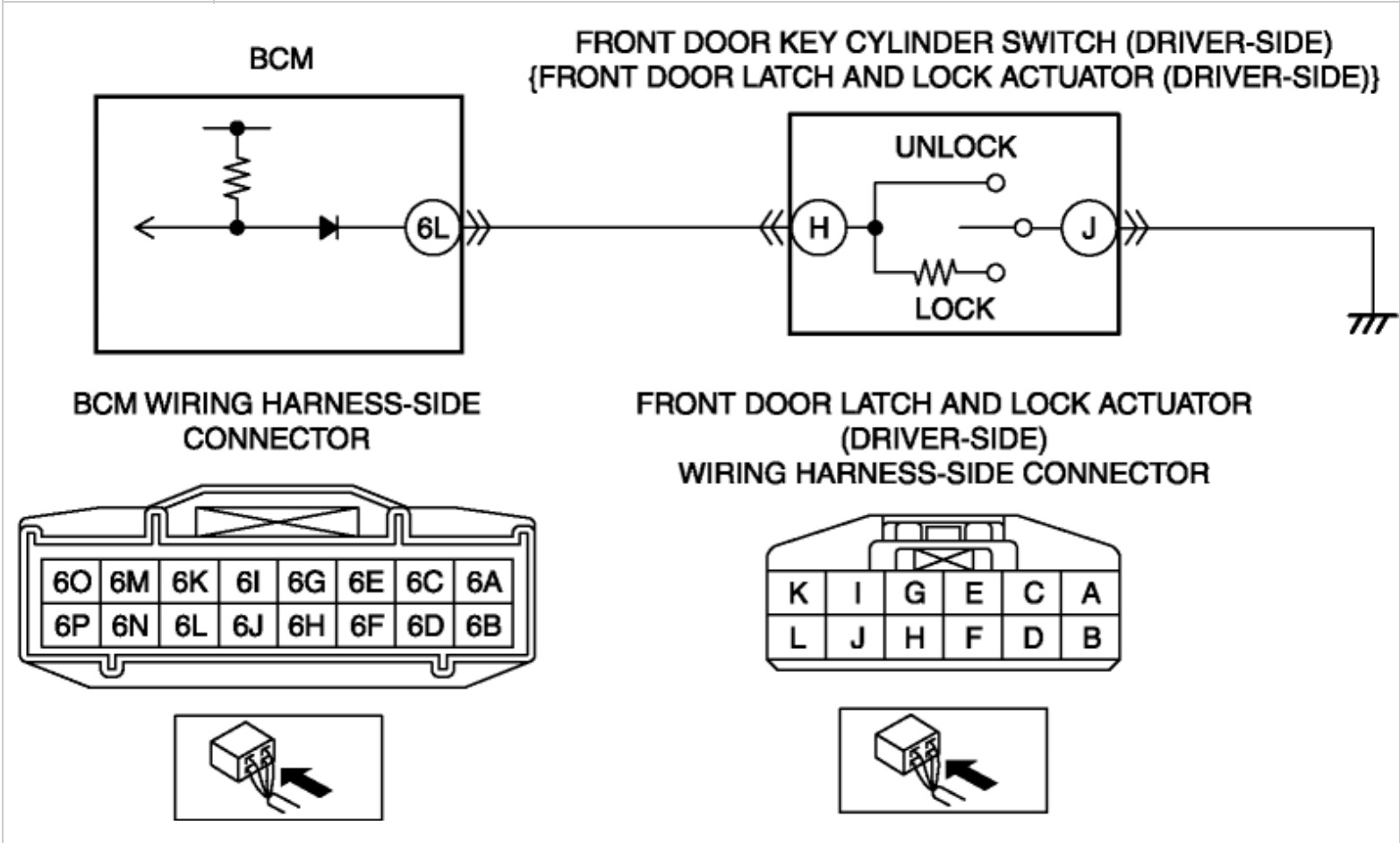
Step	Inspection	Action
1	PERFORM DTC INSPECTION - Clear the DTC from the BCM memory using the M-MDS. (See CLEARING DTC [BCM] .) - Perform the BCM DTC inspection using the M-MDS with the front door key cylinder switch (driver-side) off. (See DTC INSPECTION [BCM] .) - Is the same DTC present?	Yes Go to 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. - 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?	Yes Repair or replace the connector or terminals, then go to Step 6.
		No Go to the next step.
3	INSPECT FRONT DOOR KEY CYLINDER SWITCH (DRIVER-SIDE) - Inspect the front door key cylinder switch (driver-side). (See FRONT DOOR KEY CYLINDER 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 .)
4	INSPECT BCM CONNECTOR CONDITION - Disconnect the BCM connector. - Inspect for poor connection (damaged/pulled-out pins, corrosion). - Is there any malfunction?	No Go to the next step.
		Yes Repair or replace the connector or terminals, then go to Step 6.
5	INSPECT FRONT DOOR KEY CYLINDER SWITCH (DRIVER-SIDE) CIRCUIT FOR	Yes Repair or replace the wiring harness for a possible short to ground, then

	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 H (wiring harness-side) and body ground. • Is there continuity?		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 key cylinder switch (driver-side) 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 B11DA:11 [BCM]

DESCRIPTION	Front door key cylinder switch (driver-side) circuit malfunction
DETECTION CONDITION	• Short to ground detected in front door key cylinder switch (driver-side) circuit with the front door key cylinder switch (driver-side) off.
POSSIBLE CAUSE	• Front door latch and lock actuator (driver-side) connector or terminals malfunction • Front door key cylinder 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 H and BCM terminal 6L • 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 key cylinder switch (driver-side) off. (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. - 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?	Yes Repair or replace the connector or terminals, then go to Step 6.
		No Go to the next step.
3	INSPECT FRONT DOOR KEY CYLINDER SWITCH (DRIVER-SIDE) - Inspect the front door key cylinder switch (driver-side). (See FRONT DOOR KEY CYLINDER 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 .)
4	INSPECT BCM CONNECTOR CONDITION - Disconnect the BCM connector. - Inspect for poor connection (damaged/pulled-out pins, corrosion). - Is there any malfunction?	No Go to the next step.
		Yes Repair or replace the connector or terminals, then go to Step 6.
5	INSPECT FRONT DOOR KEY CYLINDER SWITCH (DRIVER-SIDE) CIRCUIT FOR	No Go to the next step.
		Yes Repair or replace the wiring harness for a possible short to ground, then

	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 H (wiring harness-side) and body ground. • Is there continuity?		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 key cylinder switch (driver-side) 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.