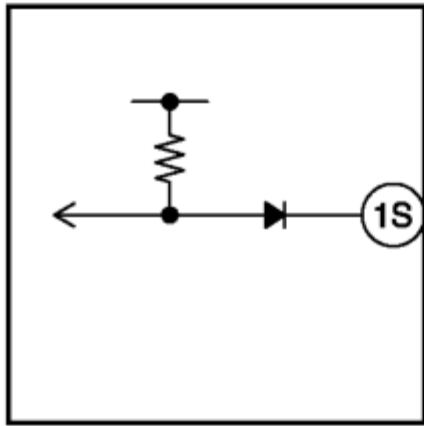


2012 - Mazda6 - Body and Accessories

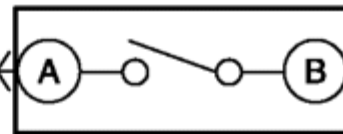
DTC B1079:13 [BCM]

DESCRIPTION	Hood latch switch circuit malfunction
DETECTION CONDITION	• Open circuit detected in hood latch switch circuit with the hood closed (hood latch switch on).
POSSIBLE CAUSE	• Hood latch switch connector or terminals malfunction • Open circuit in wiring harness between hood latch switch terminal B and body ground • Hood latch switch malfunction • BCM connector or terminals malfunction • Open circuit in wiring harness between hood latch switch terminal A and BCM terminal 1S • BCM malfunction

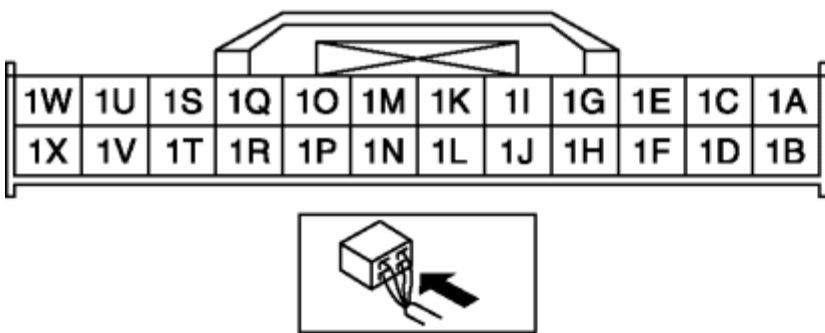
BCM



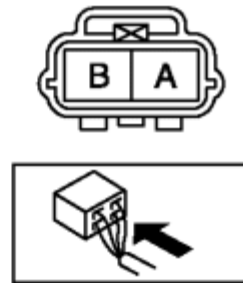
HOOD LATCH SWITCH



BCM WIRING HARNESS-SIDE CONNECTOR



HOOD LATCH SWITCH WIRING HARNESS-SIDE CONNECTOR



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 hood closed (hood latch switch on). (See DTC INSPECTION [BCM].) - Is the same DTC present?	Yes Go to the next step.
		No Go to Step 9.
2	INSPECT HOOD LATCH SWITCH CONNECTOR CONDITION - Switch the ignition to off. - Disconnect the negative battery cable. - Disconnect the hood latch switch	Yes Repair or replace the connector or terminals, then go to Step 8.
		No Go to the next step.

	connector. - Inspect for poor connection (damaged/pulled-out pins, corrosion). - Is there any malfunction?		
3	DETERMINE THE MALFUNCTION LOCATION - Hood latch switch connector is disconnected. - Reconnect the negative battery cable. - Measure the voltage between hood latch switch terminal A (wiring harness-side) and body ground. - Is there any voltage?	Yes	Go to the next step.
		No	Go to Step 6.
4	INSPECT HOOD LATCH SWITCH CIRCUIT FOR OPEN CIRCUIT - Hood latch switch connector is disconnected. - Disconnect the negative battery cable. - Inspect for continuity between hood latch switch terminal B (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 HOOD LATCH SWITCH - Inspect the hood latch switch. (See HOOD LATCH SWITCH INSPECTION.) - Is there any malfunction?	Yes	Replace the hood latch switch, then go to Step 8. (See HOOD LATCH AND RELEASE LEVER 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, then go to the next

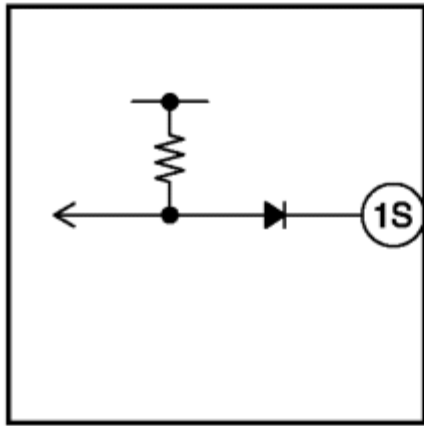
	- Hood latch switch and BCM connectors are disconnected. - Reconnect all disconnected connectors. - Reconnect the negative battery cable. - Measure the voltage between BCM terminal 1S (wiring harness-side) and body ground. - Is there any voltage?	step.	
		No	Go to the next step.
8	VERIFY TROUBLESHOOTING 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 hood closed (hood latch 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.
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

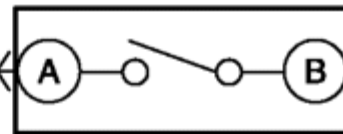
DTC B1079:13 [BCM]

DESCRIPTION	Hood latch switch circuit malfunction
DETECTION CONDITION	• Open circuit detected in hood latch switch circuit with the hood closed (hood latch switch on).
POSSIBLE CAUSE	• Hood latch switch connector or terminals malfunction • Open circuit in wiring harness between hood latch switch terminal B and body ground • Hood latch switch malfunction • BCM connector or terminals malfunction • Open circuit in wiring harness between hood latch switch terminal A and BCM terminal 1S • BCM malfunction

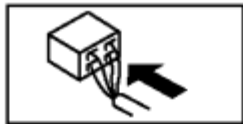
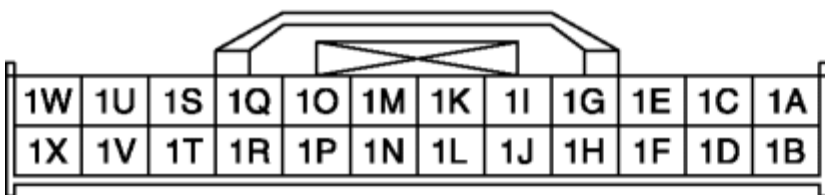
BCM



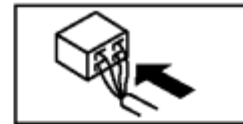
HOOD LATCH SWITCH



BCM WIRING HARNESS-SIDE CONNECTOR



HOOD LATCH SWITCH WIRING HARNESS-SIDE CONNECTOR



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 hood closed (hood latch switch on). (See DTC INSPECTION [BCM].) - Is the same DTC present?	Yes Go to the next step.
		No Go to Step 9.
2	INSPECT HOOD LATCH SWITCH CONNECTOR CONDITION - Switch the ignition to off. - Disconnect the negative battery cable. - Disconnect the hood latch switch	Yes Repair or replace the connector or terminals, then go to Step 8.
		No Go to the next step.

	connector. - Inspect for poor connection (damaged/pulled-out pins, corrosion). - Is there any malfunction?		
3	DETERMINE THE MALFUNCTION LOCATION - Hood latch switch connector is disconnected. - Reconnect the negative battery cable. - Measure the voltage between hood latch switch terminal A (wiring harness-side) and body ground. - Is there any voltage?	Yes	Go to the next step.
		No	Go to Step 6.
4	INSPECT HOOD LATCH SWITCH CIRCUIT FOR OPEN CIRCUIT - Hood latch switch connector is disconnected. - Disconnect the negative battery cable. - Inspect for continuity between hood latch switch terminal B (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 HOOD LATCH SWITCH - Inspect the hood latch switch. (See HOOD LATCH SWITCH INSPECTION.) - Is there any malfunction?	Yes	Replace the hood latch switch, then go to Step 8. (See HOOD LATCH AND RELEASE LEVER 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, then go to the next

	• Hood latch switch and BCM connectors are disconnected. • Reconnect all disconnected connectors. • Reconnect the negative battery cable. • Measure the voltage between BCM terminal 1S (wiring harness-side) and body ground. • Is there any voltage?	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 hood closed (hood latch 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.
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.