

Your Ultimate Source for OEM Repair Manuals

FactoryManuals.net is a great resource for anyone who wants to save money on repairs by doing their own work. The manuals provide detailed instructions and diagrams that make it easy to understand how to fix a vehicle.

2016 MAZDA Flair OEM Service and Repair Workshop Manual

[Go to manual page](#)

DTC B108F:16 [REAR BODY CONTROL MODULE (RBCM)]

SM2898999

id0902p401290

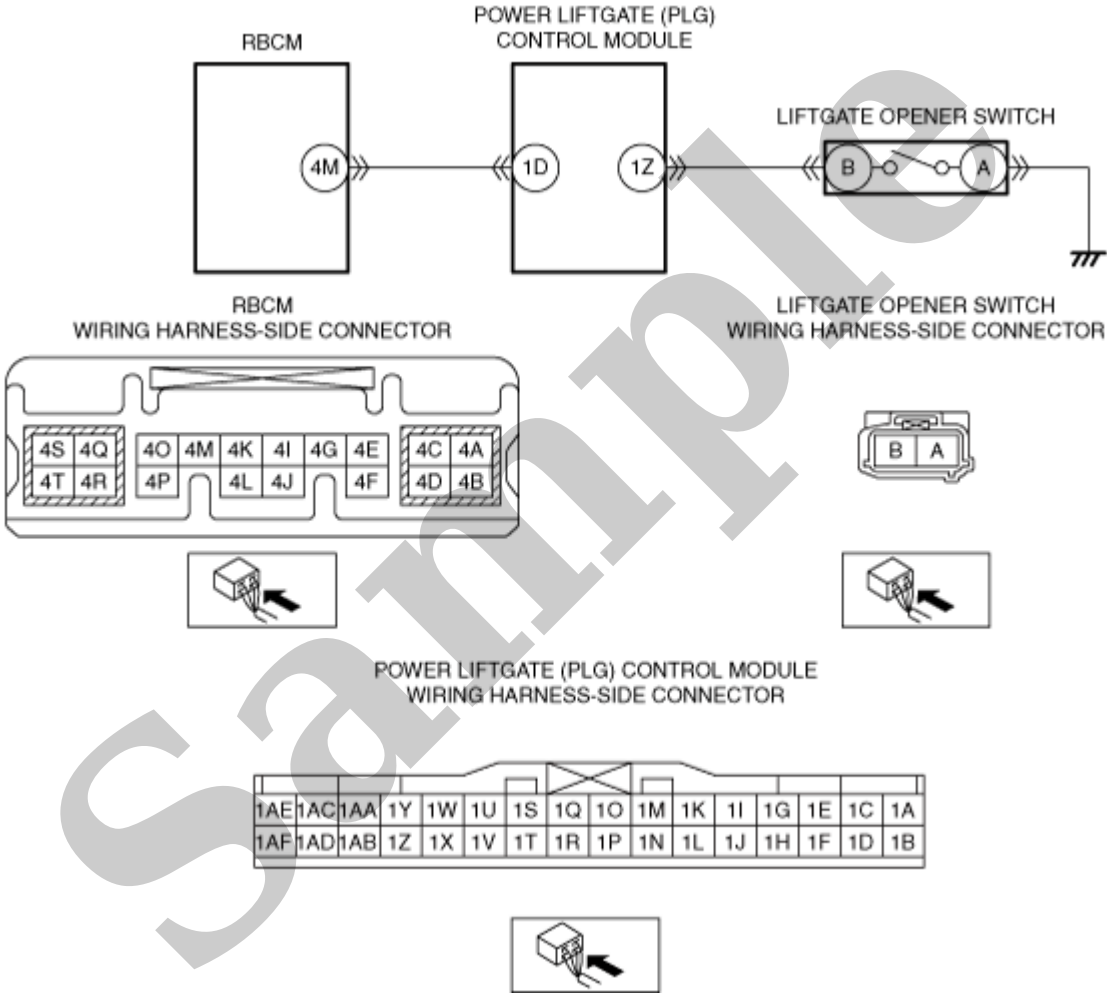
Description	Door lock switch circuit malfunction
Detection condition	• With the door lock switch off, the rear body control module (RBCM) detects door lock switch circuit voltage of 4 V or less.
Fail-safe	Not applicable
Possible cause	• Power window main switch connector or terminal malfunction • Door lock switch (LH) malfunction • Door lock switch (RH) connector or terminal malfunction • Door lock switch (RH) malfunction • Rear body control module (RBCM) connector or terminal malfunction • Short to ground in wiring harness between the following terminals: — Rear body control module (RBCM) terminal 3F–Power window main switch terminal 2J — Rear body control module (RBCM) terminal 3F–Door lock switch (RH) terminal C • Rear body control module (RBCM) malfunction

Step	Inspection	Action
8	VERIFY THAT REPAIRS HAVE BEEN COMPLETED • Always reconnect all disconnected connectors. • Connect the negative battery terminal. (See NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION.) • Clear the DTC for the rear body control module (RBCM) using the M-MDS. (See CLEARING DTC [REAR BODY CONTROL MODULE (RBCM)].) • Retrieve the rear body control module (RBCM) DTCs using the M-MDS. (See DTC INSPECTION [REAR BODY CONTROL MODULE (RBCM)].) • Is the same DTC displayed?	Yes Repeat the inspection from Step 1. • If the malfunction recurs, replace the rear body control module (RBCM). (See REAR BODY CONTROL MODULE (RBCM) REMOVAL/INSTALLATION.) Go to the next step.
		No Go to the next step.
9	VERIFY IF OTHER DTCs DISPLAYED • Are any other DTCs displayed?	Yes Repair or replace the malfunctioning part according to the applicable DTC troubleshooting. (See DTC TABLE [REAR BODY CONTROL MODULE (RBCM)].)
		No DTC troubleshooting completed.

Step	Inspection		Action
6	INSPECT WIRING HARNESS BETWEEN START STOP UNIT AND REAR BODY CONTROL MODULE (RBCM) FOR OPEN CIRCUIT • Switch the ignition off. • Disconnect the negative battery terminal. (See NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION.) • Verify that the rear body control module (RBCM) and start stop unit connectors are disconnected. • Inspect for continuity between rear body control module (RBCM) terminal 3B (wiring harness-side) and start stop unit terminal 1Q (wiring harness-side). • Is there continuity?	Yes	Go to the next step.
		No	Refer to the wiring diagram and verify whether or not there is a common connector between rear body control module (RBCM) terminal 3B and start stop unit terminal 1Q. If there is a common connector: • Determine the malfunctioning part by inspecting the common connector and the terminal for corrosion, damage, or pin disconnection, and the common wiring harness for an open circuit. • Repair or replace the malfunctioning part. If there is no common connector: • Repair or replace the wiring harness which has an open circuit. Go to Step 8.
7	VERIFY IF MALFUNCTIONING LOCATION IS START STOP UNIT DEPENDING ON REPEATABILITY • Always reconnect all disconnected connectors. • Connect the negative battery terminal. (See NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION.) • Clear the DTC for the rear body control module (RBCM) using the M-MDS. (See CLEARING DTC [REAR BODY CONTROL MODULE (RBCM)].) • Retrieve the rear body control module (RBCM) DTCs using the M-MDS. (See DTC INSPECTION [REAR BODY CONTROL MODULE (RBCM)].) • Is the same DTC displayed?	Yes	Replace the start stop unit, then go to the next step. (See START STOP UNIT REMOVAL/INSTALLATION.)
		No	Go to Step 9.
8	VERIFY THAT REPAIRS HAVE BEEN COMPLETED • Always reconnect all disconnected connectors. • Connect the negative battery terminal. (See NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION.) • Clear the DTC for the rear body control module (RBCM) using the M-MDS. (See CLEARING DTC [REAR BODY CONTROL MODULE (RBCM)].) • Retrieve the rear body control module (RBCM) DTCs using the M-MDS. (See DTC INSPECTION [REAR BODY CONTROL MODULE (RBCM)].) • Is the same DTC displayed?	Yes	Repeat the inspection from Step 1. • If the malfunction recurs, replace the rear body control module (RBCM). (See REAR BODY CONTROL MODULE (RBCM) REMOVAL/INSTALLATION.) Go to the next step.
		No	Go to the next step.
9	VERIFY IF OTHER DTCs DISPLAYED • Are any other DTCs displayed?	Yes	Repair or replace the malfunctioning part according to the applicable DTC troubleshooting. (See DTC TABLE [REAR BODY CONTROL MODULE (RBCM)].)
		No	DTC troubleshooting completed.

With Power Liftgate (PLG) System

Description	Liftgate opener switch circuit malfunction
Detection condition	• Rear body control module (RBCM) detects a short to ground in the liftgate opener switch signal circuit
Fail-safe	Not applicable
Possible cause	• Power liftgate (PLG) control module connector or terminal malfunction • Power liftgate (PLG) control module malfunction • Rear body control module (RBCM) connector or terminal malfunction • Short to ground in wiring harness between rear body control module (RBCM) terminal 4M and power liftgate (PLG) control module terminal 1D • Rear body control module (RBCM) malfunction



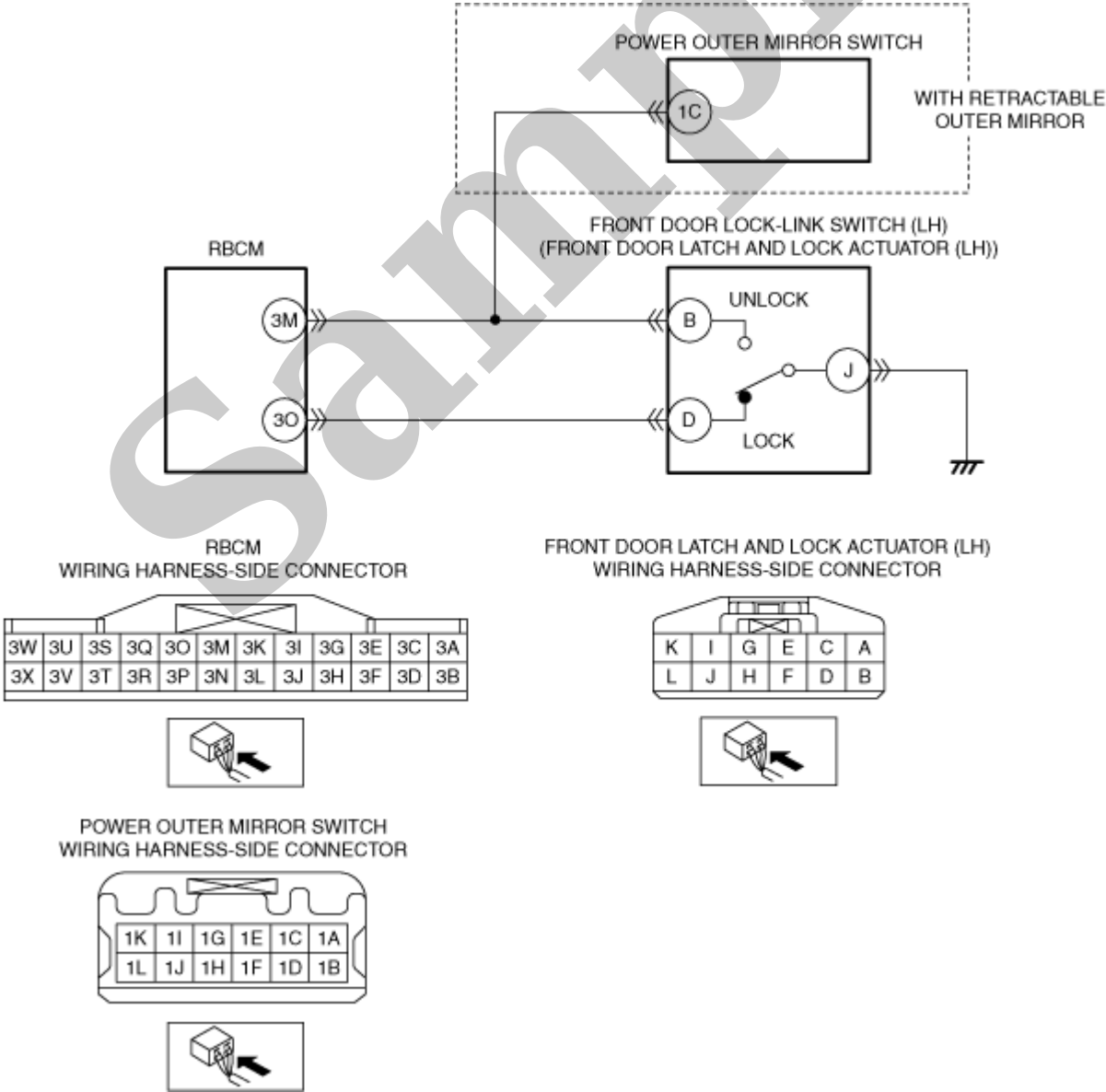
Diagnostic Procedure

DTC B1172:11 [REAR BODY CONTROL MODULE (RBCM)]

SM2899002

id0902p401380

Description	Front door lock-link switch (LH) unlock circuit malfunction
Detection condition	• Rear body control module (RBCM) detects a short to ground in the front door lock-link switch (LH) unlock circuit with the front door lock-link switch (LH) locked.
Fail-safe	Not applicable
Possible cause	• Front door latch and lock actuator (LH) connector or terminal malfunction • Front door lock-link switch (LH) malfunction • Rear body control module (RBCM) connector or terminal malfunction • Short to ground in wiring harness between the following terminals: — Rear body control module (RBCM) terminal 3M–Front door latch and lock actuator (LH) terminal B — Rear body control module (RBCM) terminal 3M–Power outer mirror switch terminal 1C (with retractable outer mirror) • Rear body control module (RBCM) malfunction



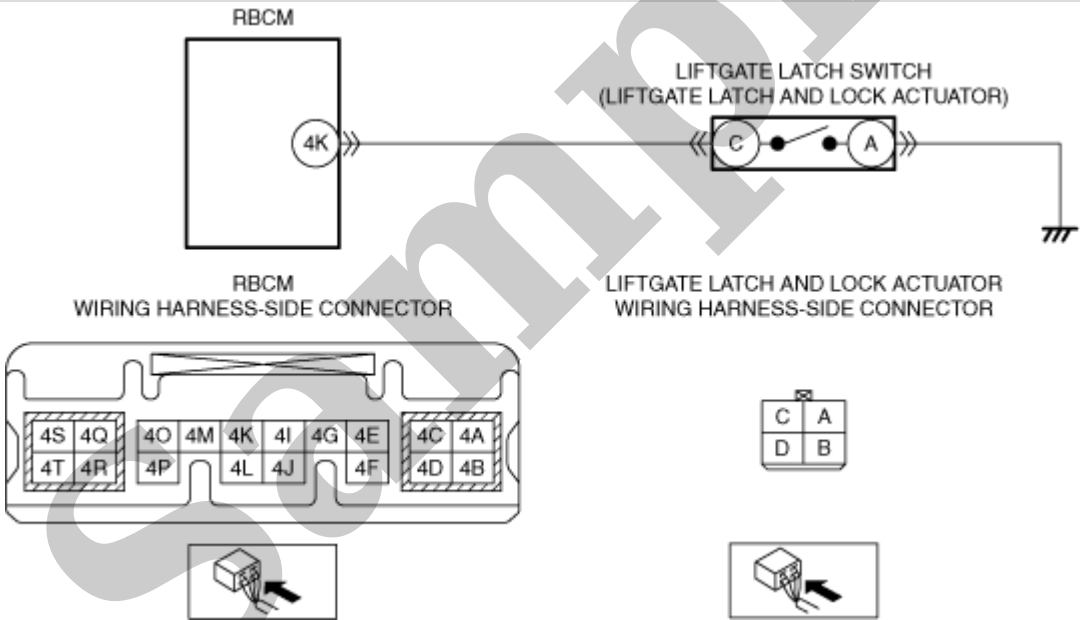
DTC B1178:11 [REAR BODY CONTROL MODULE (RBCM)]

SM2899008

id0902p401440

Without Power Liftgate (PLG) System

Description	Liftgate latch switch circuit malfunction
Detection condition	• Rear body control module (RBCM) detects short to ground in liftgate latch switch circuit with the liftgate closed (liftgate latch switch off).
Fail-safe	Not applicable
Possible cause	• Liftgate latch and lock actuator connector or terminal malfunction • Liftgate latch switch malfunction • Rear body control module (RBCM) connector or terminal malfunction • Short to ground in wiring harness between rear body control module (RBCM) terminal 4K and liftgate latch and lock actuator terminal C • Rear body control module (RBCM) malfunction



Diagnostic Procedure

Step	Inspection	Action
1	VERIFY REAR BODY CONTROL MODULE (RBCM) DTCs AGAIN • Clear the DTC for the rear body control module (RBCM) using the M-MDS. (See CLEARING DTC [REAR BODY CONTROL MODULE (RBCM)] .) • Retrieve the rear body control module (RBCM) DTCs using the M-MDS. (See DTC INSPECTION [REAR BODY CONTROL MODULE (RBCM)] .) • Is the same DTC displayed?	Yes Go to the next step.
		No Go to Step 7.

Diagnostic Procedure

Step	Inspection		Action
1	VERIFY REAR BODY CONTROL MODULE (RBCM) DTCs AGAIN - Clear the DTC for the rear body control module (RBCM) using the M-MDS. (See CLEARING DTC [REAR BODY CONTROL MODULE (RBCM)].) - Retrieve the rear body control module (RBCM) DTCs using the M-MDS. (See DTC INSPECTION [REAR BODY CONTROL MODULE (RBCM)].) - Is the same DTC displayed?	Yes	Go to the next step.
		No	Go to Step 11.
2	INSPECT LIFTGATE LATCH SWITCH CONNECTOR CONDITION - Switch the ignition off. - Disconnect the negative battery terminal. (See NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION.) - Disconnect the liftgate latch switch connector. - Inspect the connector engagement and connection condition and inspect the terminals for damage, deformation, corrosion, or disconnection. - Is the connector normal?	Yes	Go to the next step.
		No	Repair or replace the connector, then go to Step 10.
3	INSPECT LIFTGATE LATCH SWITCH - Inspect the liftgate latch switch. (See LIFTGATE/POWER LIFTGATE (PLG) LATCH SWITCH INSPECTION.) - Is the liftgate latch switch normal?	Yes	Go to the next step.
		No	Replace the liftgate latch switch, then go to Step 10. (See LIFTGATE LATCH AND LOCK ACTUATOR REMOVAL/INSTALLATION .)
4	INSPECT POWER LIFTGATE (PLG) REAR SWITCH CONNECTOR CONDITION - Disconnect the power liftgate (PLG) rear switch connector. - Inspect the connector engagement and connection condition and inspect the terminals for damage, deformation, corrosion, or disconnection. - Is the connector normal?	Yes	Go to the next step.
		No	Repair or replace the connector, then go to Step 10.
5	INSPECT POWER LIFTGATE (PLG) REAR SWITCH - Inspect the power liftgate (PLG) rear switch. (See POWER LIFTGATE (PLG) REAR SWITCH INSPECTION.) - Is the power liftgate (PLG) rear switch normal?	Yes	Go to the next step.
		No	Replace the power liftgate (PLG) rear switch, then go to Step 10. (See POWER LIFTGATE (PLG) REAR SWITCH REMOVAL/INSTALLATION .)
6	INSPECT POWER LIFTGATE (PLG) CONTROL MODULE CONNECTOR CONDITION - Disconnect the power liftgate (PLG) control module connector. - Inspect the connector engagement and connection condition and inspect the terminals for damage, deformation, corrosion, or disconnection. - Is the connector normal?	Yes	Go to the next step.
		No	Repair or replace the connector, then go to Step 10.
7	INSPECT POWER LIFTGATE (PLG) CONTROL MODULE - Inspect the power liftgate (PLG) control module. (See POWER LIFTGATE (PLG) CONTROL MODULE INSPECTION.) - Is the power liftgate (PLG) control module normal?	Yes	Go to the next step.
		No	Replace the power liftgate (PLG) control module, then go to Step 10. (See POWER LIFTGATE (PLG) CONTROL MODULE REMOVAL/INSTALLATION .)

Step	Inspection	Action	
2	INSPECT FRONT DOOR LATCH AND LOCK ACTUATOR (LH) CONNECTOR CONDITION • Switch the ignition off. • Disconnect the negative battery terminal. (See NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION.) • Disconnect the front door latch and lock actuator (LH) connector. • Inspect the connector engagement and connection condition and inspect the terminals for damage, deformation, corrosion, or disconnection. • Is the connector normal?	Yes	Go to the next step.
		No	Repair or replace the connector, then go to Step 6.
3	INSPECT FRONT DOOR KEY CYLINDER SWITCH (LH) • Inspect the front door key cylinder switch (LH). (See FRONT DOOR KEY CYLINDER SWITCH INSPECTION.) • Is the front door key cylinder switch (LH) normal?	Yes	Go to the next step.
		No	Replace the front door latch and lock actuator (LH), then go to Step 6. (See FRONT DOOR LATCH AND LOCK ACTUATOR REMOVAL/INSTALLATION.)
4	INSPECT REAR BODY CONTROL MODULE (RBCM) CONNECTOR CONDITION • Disconnect the rear body control module (RBCM) connector. • Inspect the connector engagement and connection condition and inspect the terminals for damage, deformation, corrosion, or disconnection. • Is the connector normal?	Yes	Go to the next step.
		No	Repair or replace the connector, then go to Step 6.
5	INSPECT FRONT DOOR KEY CYLINDER SWITCH (LH) CIRCUIT FOR SHORT TO GROUND • Verify that the rear body control module (RBCM) and front door latch and lock actuator (LH) connectors are disconnected. • Inspect for continuity between front door latch and lock actuator (LH) terminal H (wiring harness-side) and body ground. • Is there continuity?	Yes	Refer to the wiring diagram and verify whether or not there is a common connector between rear body control module (RBCM) terminal 3H and front door latch and lock actuator (LH) terminal H. If there is a common connector: • Determine the malfunctioning part by inspecting the common connector and the terminal for corrosion, damage, or pin disconnection, and the common wiring harness for a short to ground. • Repair or replace the malfunctioning part. If there is no common connector: • Repair or replace the wiring harness which has a short to ground. Go to the next step.
		No	Go to the next step.
6	VERIFY THAT REPAIRS HAVE BEEN COMPLETED • Always reconnect all disconnected connectors. • Connect the negative battery terminal. (See NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION.) • Clear the DTC for the rear body control module (RBCM) using the M-MDS. (See CLEARING DTC [REAR BODY CONTROL MODULE (RBCM)].) • Retrieve the rear body control module (RBCM) DTCs using the M-MDS. (See DTC INSPECTION [REAR BODY CONTROL MODULE (RBCM)].) • Is the same DTC displayed?	Yes	Repeat the inspection from Step 1. • If the malfunction recurs, replace the rear body control module (RBCM). (See REAR BODY CONTROL MODULE (RBCM) REMOVAL/INSTALLATION.) Go to the next step.
		No	Go to the next step.

Step	Inspection	Action	
2	INSPECT REAR DOOR LATCH AND LOCK ACTUATOR (LH) CONNECTOR CONDITION • Switch the ignition off. • Disconnect the negative battery terminal. (See NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION.) • Disconnect the rear door latch and lock actuator (LH) connector. • Inspect the connector engagement and connection condition and inspect the terminals for damage, deformation, corrosion, or disconnection. • Is the connector normal?	Yes	Go to the next step.
		No	Repair or replace the connector, then go to Step 6.
3	INSPECT REAR DOOR LATCH SWITCH (LH) • Inspect the rear door latch switch (LH). (See REAR DOOR LATCH SWITCH INSPECTION.) • Is the rear door latch switch (LH) normal?	Yes	Go to the next step.
		No	Replace the rear door latch and lock actuator (LH), then go to Step 6. (See REAR DOOR LATCH AND LOCK ACTUATOR REMOVAL/INSTALLATION.)
4	INSPECT REAR BODY CONTROL MODULE (RBCM) CONNECTOR CONDITION • Disconnect the rear body control module (RBCM) connector. • Inspect the connector engagement and connection condition and inspect the terminals for damage, deformation, corrosion, or disconnection. • Is the connector normal?	Yes	Go to the next step.
		No	Repair or replace the connector, then go to Step 6.
5	INSPECT REAR DOOR LATCH SWITCH (LH) CIRCUIT FOR SHORT TO GROUND • Verify that the rear body control module (RBCM) and rear door latch and lock actuator (LH) connectors are disconnected. • Inspect for continuity between rear door latch and lock actuator (LH) terminal L (wiring harness-side) and body ground. • Is there continuity?	Yes	Refer to the wiring diagram and verify whether or not there is a common connector between rear body control module (RBCM) terminal 3S and rear door latch and lock actuator (LH) terminal L. If there is a common connector: • Determine the malfunctioning part by inspecting the common connector and the terminal for corrosion, damage, or pin disconnection, and the common wiring harness for a short to ground. • Repair or replace the malfunctioning part. If there is no common connector: • Repair or replace the wiring harness which has a short to ground. Go to the next step.
		No	Go to the next step.
6	VERIFY THAT REPAIRS HAVE BEEN COMPLETED • Always reconnect all disconnected connectors. • Connect the negative battery terminal. (See NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION.) • Clear the DTC for the rear body control module (RBCM) using the M-MDS. (See CLEARING DTC [REAR BODY CONTROL MODULE (RBCM)].) • Retrieve the rear body control module (RBCM) DTCs using the M-MDS. (See DTC INSPECTION [REAR BODY CONTROL MODULE (RBCM)].) • Is the same DTC displayed?	Yes	Repeat the inspection from Step 1. • If the malfunction recurs, replace the rear body control module (RBCM). (See REAR BODY CONTROL MODULE (RBCM) REMOVAL/INSTALLATION.) Go to the next step.
		No	Go to the next step.