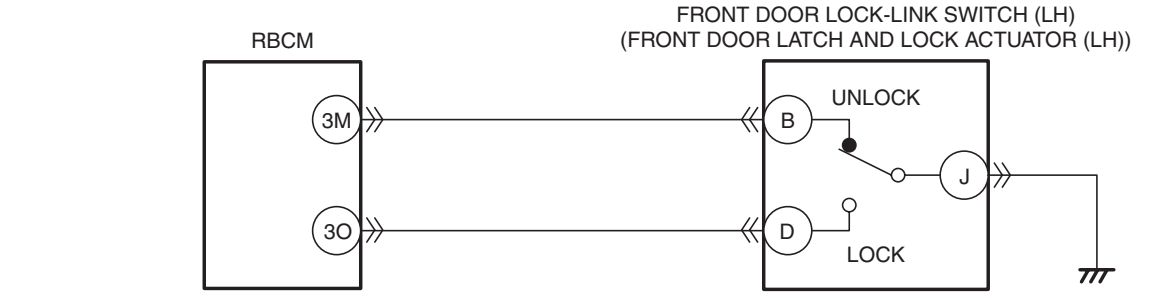
DTC B1172:13 [REAR BODY CONTROL MODULE (RBCM)]

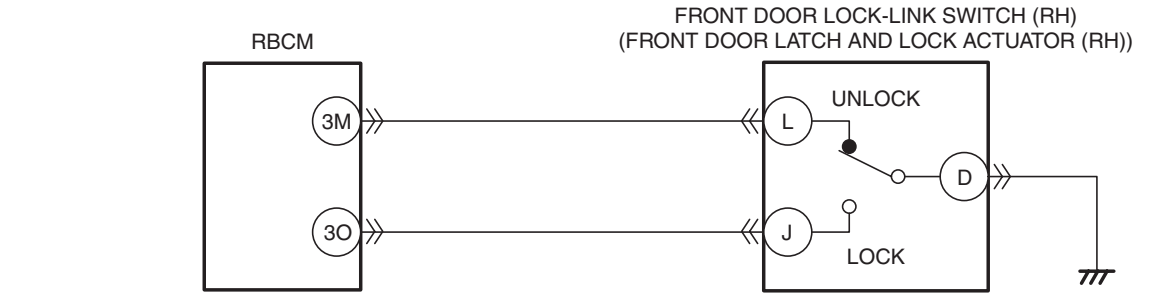
id0902p4013900

System malfunction location	**Front door lock-link switch (driver's side) unlock circuit malfunction**
Detection condition	• Rear body control module (RBCM) detects open circuit in front door lock-link switch (driver's side) unlock side circuit with front door lock-link switch (driver's side) unlocked.
Fail-safe	—
Possible cause	• Front door latch and lock actuator (driver's side) connector or terminal malfunction • Open circuit in wiring harness between the following terminals: — L.H.D.: • Front door latch and lock actuator (LH) terminal J and body ground — R.H.D.: • Front door latch and lock actuator (RH) terminal D and body ground • Front door lock-link switch (driver's side) malfunction • Rear body control module (RBCM) connector or terminal malfunction • Open circuit in wiring harness between the following terminals: — L.H.D.: • Rear body control module (RBCM) terminal 3M and front door latch and lock actuator (LH) terminal B — R.H.D.: • Rear body control module (RBCM) terminal 3M and front door latch and lock actuator (RH) terminal L • Rear body control module (RBCM) malfunction

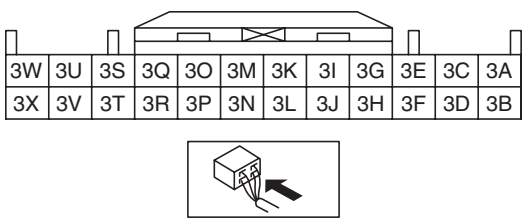
L.H.D.



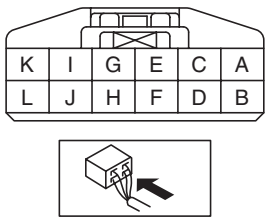
R.H.D.



RBCM
WIRING HARNESS-SIDE CONNECTOR



FRONT DOOR LATCH AND LOCK ACTUATOR (LH)/(RH)
WIRING HARNESS-SIDE CONNECTOR



Diagnostic Procedure

Step	Inspection		Action
1	**VERIFY REAR BODY CONTROL MODULE (RBCM) DTCs AGAIN** • Clear rear body control module (RBCM) DTCs using the M-MDS. (See CLEARING DTC [REAR BODY CONTROL MODULE (RBCM)].) • Perform the DTC inspection for the rear body control module (RBCM) using the M-MDS. (See DTC INSPECTION [REAR BODY CONTROL MODULE (RBCM)].) • Is DTC B1172:13 displayed?	Yes	Go to the next step.
		No	Go to Step 8.
2	**INSPECT FRONT DOOR LATCH AND LOCK ACTUATOR (DRIVER'S DOOR) CONNECTOR** • Switch the ignition to off. • Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) • Disconnect the front door latch and lock actuator (driver's side) 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 7.
3	**INSPECT FOR OPEN CIRCUIT IN FRONT DOOR LOCK-LINK SWITCH (DRIVER'S SIDE) GROUND CIRCUIT** • Verify that the front door latch and lock actuator (driver's side) connector is disconnected. • Inspect the wiring harness between the following terminals (vehicle wiring harness side) for continuity. — L.H.D.: • Front door latch and lock actuator (LH) terminal J and body ground — R.H.D.: • Front door latch and lock actuator (RH) terminal D and body ground • Is there continuity?	Yes	Go to the next step.
		No	Repair or replace the wiring harness which has an open circuit, then go to Step 7.
4	**INSPECT FRONT DOOR LOCK-LINK SWITCH (DRIVER'S DOOR)** • Inspect the front door lock-link switch (driver's door). (See DOOR LOCK-LINK SWITCH INSPECTION.) • Is the front door lock-link switch (driver's door) normal?	Yes	Go to the next step.
		No	Replace the front door latch and lock actuator (driver's side), then go to Step 7. (See FRONT DOOR LATCH AND LOCK ACTUATOR REMOVAL/INSTALLATION.)

Step	Inspection		Action
5	**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 7.
6	**INSPECT FOR OPEN CIRCUIT IN FRONT DOOR LOCK-LINK SWITCH (DRIVER'S SIDE) CIRCUIT** • Verify that the rear body control module (RBCM) connector and front door latch and lock actuator (driver's side) connector are disconnected. • Inspect the wiring harness between the following terminals (vehicle wiring harness side) for continuity. — L.H.D.: • Rear body control module (RBCM) terminal 3M and front door latch and lock actuator (LH) terminal B — R.H.D.: • Rear body control module (RBCM) terminal 3M and front door latch and lock actuator (RH) terminal L • Is there continuity?	Yes	Go to the next step.
		No	Repair or replace the wiring harness which has an open circuit, then go to the next step.
7	**VERIFY THAT REPAIRS HAVE BEEN COMPLETED** • Reconnect all the disconnected connectors. • Reconnect the disconnected negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) • Clear rear body control module (RBCM) DTCs using the M-MDS. (See CLEARING DTC [REAR BODY CONTROL MODULE (RBCM)].) • Perform the DTC inspection for the rear body control module (RBCM) using the M-MDS. (See DTC INSPECTION [REAR BODY CONTROL MODULE (RBCM)].) • Is DTC B1172:13 displayed?	Yes	Repeat the inspection from Step 1. • If the malfunction recurs, replace the rear body control module (RBCM), then go to the next step. (See REAR BODY CONTROL MODULE (RBCM) REMOVAL/INSTALLATION.)
		No	Go to the next step.
8	**VERIFY IF OTHER DTCs DISPLAYED** • Are any other DTCs displayed?	Yes	Repair the malfunctioning part according to the applicable DTC troubleshooting. (See DTC TABLE [REAR BODY CONTROL MODULE (RBCM)].)
		No	DTC troubleshooting completed.