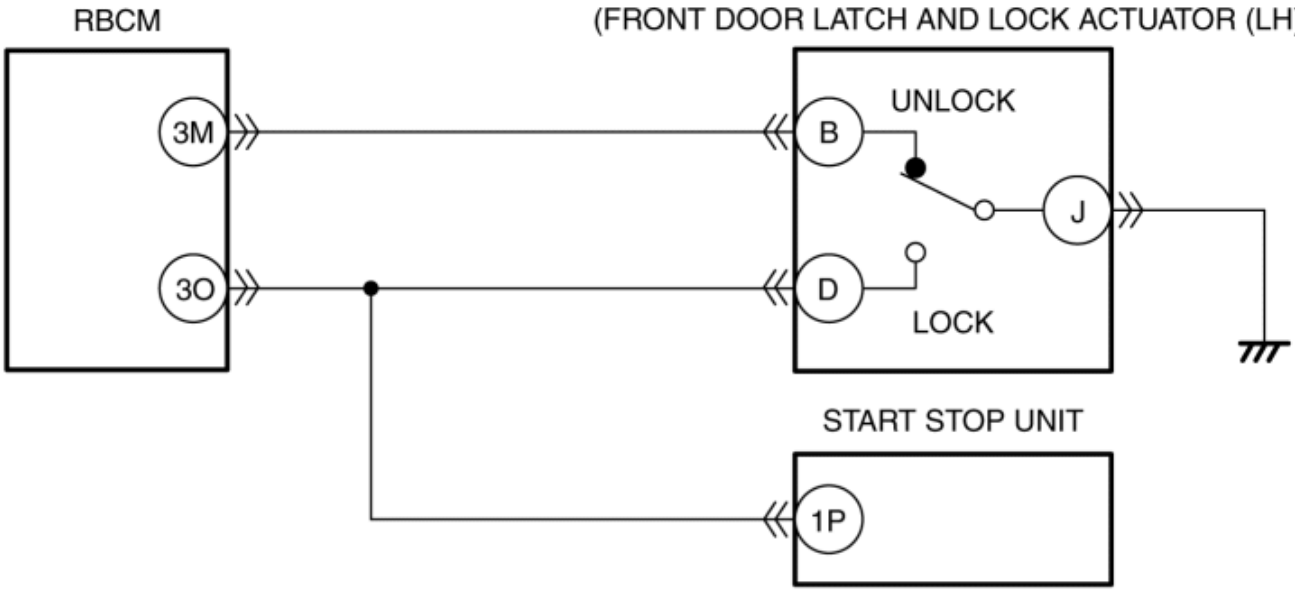
2015 - CX-5 - Body and Accessories

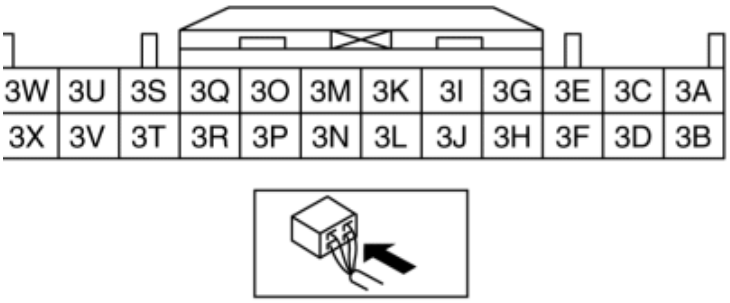
DTC B126A:11 [REAR BODY CONTROL MODULE (RBCM)]

System malfunction location	Front door lock-link switch (LH) lock circuit malfunction
Detection condition	• With the front door lock-link switch (LH) unlocked, the rear body control module (RBCM) detects a short to ground in the front door lock-link switch (LH) lock circuit.
Fail-safe	—

Possible cause	• Front door latch and lock actuator (LH) connector or terminal malfunction
	• Front door lock-link switch (LH) malfunction
	• Start stop unit connector or terminal malfunction
	• Rear body control module (RBCM) connector or terminal malfunction
	• Short to ground in wiring harness between the following terminals:
	  ▪ Start stop unit terminal 1P and front door latch and lock actuator (LH) terminal D
	  ▪ Rear body control module (RBCM) terminal 3O and front door latch and lock actuator (LH) terminal D
	• Start stop unit malfunction
	• Rear body control module (RBCM) malfunction

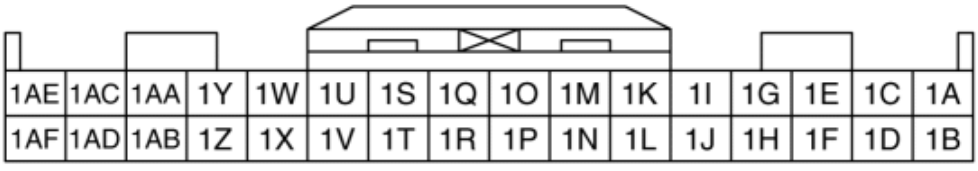


RBCM
WIRING HARNESS-SIDE CONNECTOR



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

START STOP UNIT
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	Yes	Go to the next step.
		No	Go to Step 9.

	(See **DTC INSPECTION [REAR BODY CONTROL MODULE (RBCM)]**.) • Is DTC B126A:11 displayed?		
2	**INSPECT FRONT DOOR LATCH AND LOCK ACTUATOR (LH) 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]**.) • 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 8.
3	**INSPECT FRONT DOOR LOCK-LINK SWITCH (LH)** • Inspect the front door lock-link switch (LH). (See **DOOR LOCK-LINK SWITCH INSPECTION**.) • Is the front door lock-link switch (LH) normal?	Yes	Go to the next step.
		No	Replace the front door latch and lock actuator (LH), then go to Step 8. (See **FRONT DOOR LATCH AND LOCK ACTUATOR REMOVAL/INSTALLATION**.)
4	**INSPECT START STOP UNIT CONNECTOR CONDITION** • Disconnect the start stop unit 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 8.
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 8.
6	**INSPECT FRONT DOOR LOCK-LINK SWITCH (LH) CIRCUIT FOR SHORT TO GROUND** • Verify that the rear body control module (RBCM) connector, start stop unit connector, and front door latch and lock actuator (LH) connector are disconnected. • Inspect for continuity between front door latch and lock actuator (LH) terminal D (vehicle wiring	Yes	Repair or replace the wiring harness which is shorted to ground, then go to Step 8.
		No	Go to the next step.

	• Is there continuity?		
7	**INSPECT START STOP UNIT** • Inspect the start stop unit. (See **START STOP UNIT INSPECTION**.) • Is the start stop unit normal?	Yes	Go to the next step.
		No	Replace the start stop unit, then go to the next step. (See **START STOP UNIT REMOVAL/INSTALLATION**.)
8	**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]**.) • 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 B126A:11 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.
9	**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.

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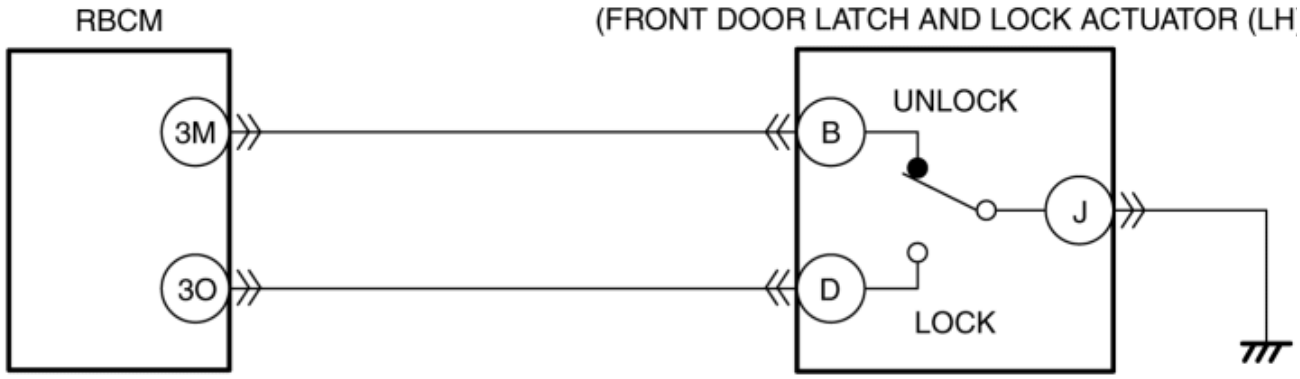
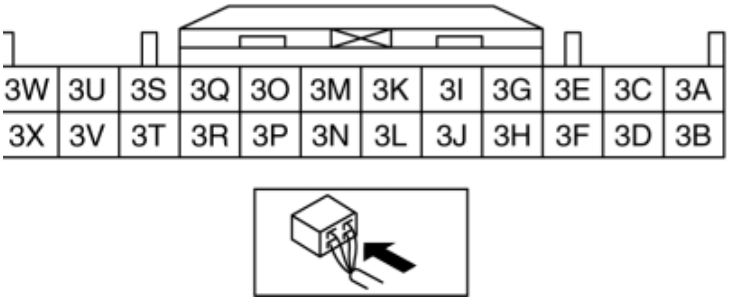
DTC B126A:13 [REAR BODY CONTROL MODULE (RBCM)]

System malfunction location	Front door lock-link switch (LH) lock circuit malfunction
Detection condition	• Rear body control module (RBCM) detects open circuit in front door lock-link switch (LH) lock side circuit with front door lock-link switch (LH) locked.
Fail-safe	—
Possible cause	• Front door latch and lock actuator (LH) connector or terminal malfunction • Open circuit in wiring harness between front door latch and lock actuator (LH) terminal J and body ground • Front door lock-link switch (LH) malfunction • Rear body control module (RBCM) connector or terminal malfunction • Open circuit in wiring harness between rear body control module (RBCM) terminal 3O and front door latch and lock actuator (LH) terminal D • Rear body control module (RBCM) malfunction



RBCM
WIRING HARNESS-SIDE CONNECTOR



FRONT DOOR LATCH AND LOCK ACTUATOR (LH
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)]**.) • Lock the front door lock-link switch (LH). • Is DTC B126A:13 displayed?	Yes	Go to the next step.
		No	Go to Step 8.
2	**INSPECT FRONT DOOR LATCH AND LOCK ACTUATOR (LH) 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]**.) • Disconnect the front door latch and lock actuator (LH) connector.	Yes	Go to the next step.
		No	Repair or replace the connector, then go to Step 7.

	condition and inspect the terminals for damage, deformation, corrosion, or disconnection. • Is the connector normal?		
3	**INSPECT FOR OPEN CIRCUIT IN FRONT DOOR LOCK-LINK SWITCH (LH) GROUND CIRCUIT** • Verify that the front door latch and lock actuator (LH) connector is disconnected. • Inspect the wiring harness between front door latch and lock actuator (LH) terminal J (vehicle wiring harness side) and body ground for continuity. • 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 (LH)** • Inspect the front door lock-link switch (LH). (See **DOOR LOCK-LINK SWITCH INSPECTION**.) • Is the front door lock-link switch (LH) normal?	Yes	Go to the next step.
		No	Replace the front door latch and lock actuator (LH), then go to Step 7. (See **FRONT DOOR LATCH AND LOCK ACTUATOR REMOVAL/INSTALLATION**.)
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 (LH) CIRCUIT** • Verify that the rear body control module (RBCM) connector and front door latch and lock actuator (LH) connector are disconnected. • Inspect the wiring harness between rear body control module (RBCM) terminal 3O (vehicle wiring harness side) and front door latch and lock actuator (LH) terminal D (vehicle wiring harness side) for continuity. • 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]**.) • Clear rear body control module (RBCM) DTCs using the M-MDS.	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**.)

	(RBCM)].) • Lock the front door lock-link switch (LH). • 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 B126A:13 displayed?		
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.

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