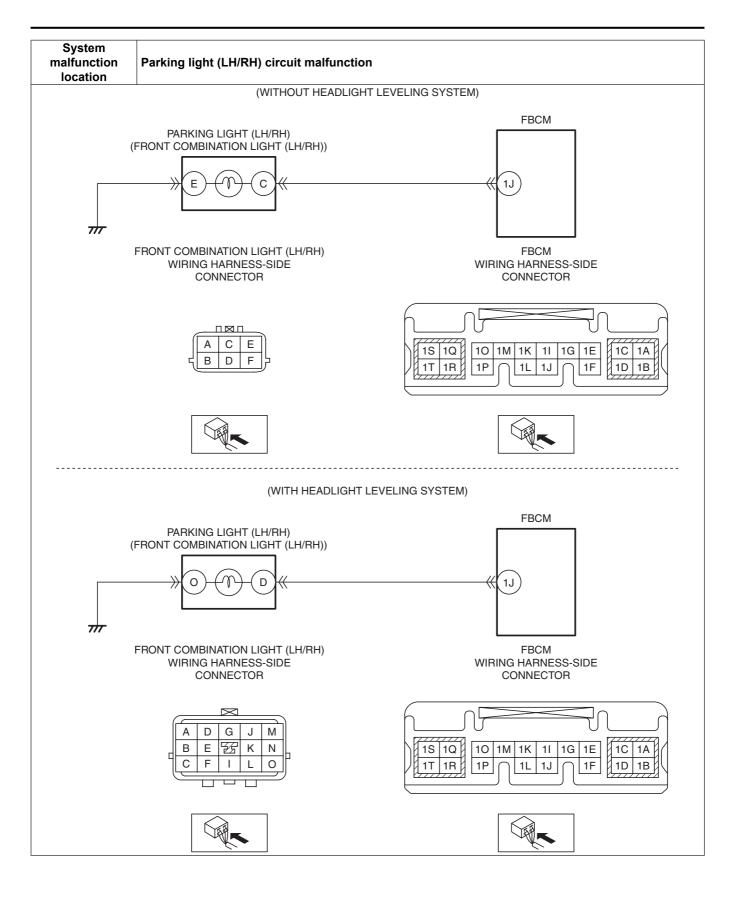
## DTC C1126:13 [FRONT BODY CONTROL MODULE (FBCM)]

id0902p2010000

## **Servicing Pointers**

 If a parking light is replaced with an LED bulb, the front body control module (FBCM) will determine that there is an open circuit in the parking light circuit and DTC C1126:13 may be detected because the power consumption is low even if the LED is illuminated normally.

System						
malfunction	Parking light (LH/RH) circuit malfunction					
location						
Detection	• The front body control module (FBCM) detects an open or short to power supply in the parking light (LH/					
condition	RH) circuit with the ignition switched ON (engine off or on).					
Fail-safe						
	LED bulb is installed to parking light					
	Front combination light (LH/RH) connector or terminal malfunction					
	Parking light bulb (LH/RH) malfunction					
	Front body control module (FBCM) connector or terminal malfunction					
	Short to power supply in wiring harness between the following terminals:					
	<ul> <li>Front combination light (LH/RH) terminal C and front body control module (FBCM) terminal 1J (without</li> </ul>					
	headlight leveling system)					
Possible cause	<ul> <li>Front combination light (LH/RH) terminal D and front body control module (FBCM) terminal 1J (with</li> </ul>					
	headlight leveling system)					
	Open circuit in wiring harness between the following terminals:					
	<ul> <li>Front combination light (LH/RH) terminal C and front body control module (FBCM) terminal 1J (without</li> </ul>					
	headlight leveling system)					
	<ul> <li>Front combination light (LH/RH) terminal D and front body control module (FBCM) terminal 1J (with</li> </ul>					
	headlight leveling system)					
	Front body control module (FBCM) malfunction					



**Diagnostic Procedure** 

	tic Procedure Inspection		Action
Step	•	Vaa	
1	VERIFY FRONT BODY CONTROL MODULE	Yes	Go to the next step.
	(FBCM) DTCs AGAIN	No	Go to Step 10.
	Clear front body control module (FBCM) DTCs		
	using the M-MDS.		
	(See CLEARING DTC [FRONT BODY		
	CONTROL MODULE (FBCM)].)		
	Switch the ignition ON (engine off or on).		
	Operate the light switch in TNS position.		
	Perform the front body control module (FBCM)		
	DTC inspection using the M-MDS.		
	(See DTC INSPECTION [FRONT BODY		
	CONTROL MODULE (FBCM)].)		
	• Is DTC C1126:13 displayed?		
2	VERIFY ILLUMINATION CONDITION OF	Yes	Go to Step 4.
	PARKING LIGHTS	No	Go to the next step.
	Operate the light switch to the TNS position.	''	Co to the next step.
	Are the parking lights illuminated?		
3	INSPECT FRONT COMBINATION LIGHT (LH/	Yes	Go to Step 5.
	RH) CONNECTOR CONDITION	No	Repair or replace the connector, then go to Step 9.
	Switch the ignition to off.	100	Tropair of replace the confidencial, then go to step 9.
	_		
	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 combination light (LH/RH)		
	connector.		
	Inspect the connector engagement and		
	connection condition and inspect the terminals		
	for damage, deformation, corrosion, or		
	disconnection.		
	Is the connector normal?		
4	VERIFY THAT LED BULB IS INSTALLTED TO	Yes	The circuit is normal, complete the DTC troubleshooting.
	PARKING LIGHT		, and a second of the second o
	Remove the parking light bulb.		Note
	(See PARKING LIGHT BULB REMOVAL/		Verify the reason why DTC C1126:13 is detected
	INSTALLATION.)		referring to the servicing pointers.
	• Is the LED bulb installed?		If necessary, explain to the customer that although a
	is the LED baild installed:		DTC was displayed, it does not indicate a malfunction.
		No	Go to the next step.
5	INSPECT PARKING LIGHT BULB (LH/RH)	Yes	Go to the next step.
	• Inspect the parking light bulb (LH/RH).	No	Replace the parking light bulb (LH/RH), then go to Step 9.
	Is the parking light bulb (LH/RH) normal?	'100	(See PARKING LIGHT BULB REMOVAL/
	is the parking light balls (ELIMALI) Hollial:		INSTALLATION.)
6	INCREAT FRONT RODY CONTROL MOST!! 5	Vac	
6	INSPECT FRONT BODY CONTROL MODULE	Yes	Go to the next step.
	(FBCM) CONNECTOR CONDITION	No	Repair or replace the connector, then go to Step 9.
	Disconnect the front body control module		
	(FBCM) connector.		
	Inspect the connector engagement and		
	connection condition and inspect the terminals		
	for damage, deformation, corrosion, or		
	disconnection.		
	Is the connector normal?		

Step	Inspection		Action
7	INSPECT PARKING LIGHT (LH/RH) CONTROL	Yes	Go to the next step.
	CIRCUIT FOR SHORT TO POWER SUPPLY	No	Repair or replace the wiring harness, then go to Step 9.
	Verify that the front combination light (LH/RH)		
	and front body control module (FBCM)		
	connectors are disconnected.		
	Connect 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].)		
	Switch the ignition ON (engine off or on).		
	Measure the voltage at front body control		
	module (FBCM) 1J terminal (vehicle wiring		
	harness side).		
	• Is the voltage <b>0 V</b> ?		
8	INSPECT PARKING LIGHT (LH/RH) CONTROL	Yes	Go to the next step.
	CIRCUIT FOR OPEN CIRCUIT	No	Repair or replace the wiring harness, then go to the next
	Verify that the front combination light (LH/RH)		step.
	and front body control module (FBCM)		
	connectors are disconnected.		
	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].)		
	• Inspect the wiring harness between the		
	following terminals (vehicle wiring harness side)		
	for continuity.		
	Front combination light (LH/RH) terminal C  and front had a control module (FRCM)		
	and front body control module (FBCM)		
	terminal 1J (without headlight leveling		
	system)		
	Front combination light (LH/RH) terminal D  and front had a control module (FRCM)		
	and front body control module (FBCM)		
	terminal 1J (with headlight leveling system)		
	Is there continuity?		

Step	Inspection		Action
9	VERIFY THAT REPAIRS HAVE BEEN COMPLETED • Reconnect all the disconnected connectors. • Reconnect the disconnected negative battery cable.	Yes	Repeat the inspection from Step 1.  • If the malfunction recurs, replace the front body control module (FBCM), then go to the next step.  (See FRONT BODY CONTROL MODULE (FBCM) REMOVAL/INSTALLATION.)
	(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 front body control module (FBCM) DTCs using the M-MDS. (See CLEARING DTC [FRONT BODY CONTROL MODULE (FBCM)].) • Switch the ignition ON (engine off or on). • Operate the light switch in TNS position. • Perform the front body control module (FBCM) DTC inspection using the M-MDS. (See DTC INSPECTION [FRONT BODY CONTROL MODULE (FBCM)].) • Is DTC C1126:13 displayed?	No	Go to the next step.
10	• Are any other DTCs displayed?	Yes	Repair the malfunctioning part according to the applicable DTC troubleshooting. (See DTC TABLE [FRONT BODY CONTROL MODULE (FBCM)].) DTC troubleshooting completed.