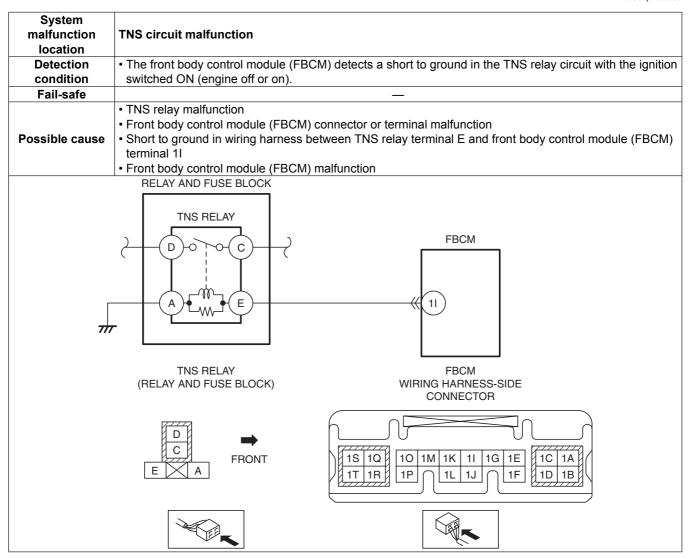
DTC B13D0:11 [FRONT BODY CONTROL MODULE (FBCM)]

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Diagnostic Procedure

Step	Inspection		Action	
1	VERIFY FRONT BODY CONTROL MODULE	Yes	Go to the next step.	
	(FBCM) DTCs AGAIN	No	Go to Step 6.	
	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).			
	• Perform the front body control module (FBCM)			
	DTC inspection using the M-MDS.			
	(See DTC INSPECTION [FRONT BODY			
	CONTROL MODULE (FBCM)].)			
	• Is DTC B13D0:11 displayed?			

Step	Inspection		Action
2	INSPECT TNS RELAY FOR MALFUNCTION	Yes	Go to the next step.
	Switch the ignition to off.	No	Replace the TNS relay, then go to Step 5.
	Disconnect the negative battery cable.		3
	(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].)		
	Remove the TNS relay.		
	• Inspect the TNS relay.		
	(See RELAY INSPECTION.)		
	• Is the TNS relay normal?	.,,	
3	INSPECT FRONT BODY CONTROL MODULE	Yes	Go to the next step.
	(FBCM) CONNECTOR CONDITION	No	Repair or replace the connector, then go to Step 5.
	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?		
4	INSPECT TNS RELAY CONTROL CIRCUIT	Yes	Repair or replace the wiring harness and go to the next
	FOR SHORT TO GROUND		step.
	Verify that the TNS relay is removed.	No	Go to the next step.
	Verify that the front body control module		·
	(FBCM) connector is disconnected.		
	Inspect for continuity between front body control		
	module (FBCM) terminal 1I (vehicle wiring		
	harness side) and body ground.		
	Is there continuity?		
5	VERIFY THAT REPAIRS HAVE BEEN	Yes	Repeat the inspection from Step 1.
	COMPLETED		• If the malfunction recurs, replace the front body control
	Reconnect all the disconnected connectors.		module (FBCM), then go to the next step.
	Reconnect the disconnected negative battery		(See FRONT BODY CONTROL MODULE (FBCM)
	cable. (See NEGATIVE BATTERY CABLE	No	REMOVAL/INSTALLATION.)
	DISCONNECTION/CONNECTION	INU	Go to the next step.
	[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. Parform the footblood accorded to a feet the footblood. (FROM)		
	Perform the front body control module (FBCM) PTC increasing using the MARC. PTC increasing using the MARC.		
	DTC inspection using the M-MDS.		
	(See DTC INSPECTION [FRONT BODY		
	CONTROL MODULE (FBCM)].)		
	• Is DTC B13D0:11 displayed?		

Step	Inspection		Action
6	VERIFY IF OTHER DTCs DISPLAYED	Yes	Repair the malfunctioning part according to the applicable
	Are any other DTCs displayed?		DTC troubleshooting. (See DTC TABLE [FRONT BODY CONTROL MODULE (FBCM)].)
		No	DTC troubleshooting completed.