DTC B11DB:86 [FRONT BODY CONTROL MODULE (FBCM)]

id0902p2007900

System malfunction location	Error signal received from current sensor		
Detection	• The front body control module (FBCM) receives error signals from the current sensor for 5 s or more with		
condition	the ignition switched ON (engine off or on).		
Fail-safe	_		
Possible cause	 Current sensor connector or terminal malfunction Front body control module (FBCM) connector or terminal malfunction Short to ground in wiring harness between current sensor terminal B and front body control module (FBCM) terminal 2E Short to power supply in wiring harness between current sensor terminal B and front body control module (FBCM) terminal 2E Open circuit in wiring harness between current sensor terminal B and front body control module (FBCM) terminal 2E Current sensor malfunction Front body control module (FBCM) malfunction 		
	B >>> < <p>2E</p>		
CURRENT SENSOR FBCM WIRING HARNESS-SIDE CONNECTOR WIRING HARNESS-SIDE CONNECTOR			
	2AA 2Y 2W 2U 2S 2Q 2O 2M 2K 2I 2G 2E 2C 2A 2AB 2Z 2X 2V 2T 2R 2P 2N 2L 2J 2H 2F 2D 2B		

Diagnostic Procedure

Step	Inspection		Action	·
1	VERIFY FRONT BODY CONTROL MODULE	Yes	Go to the next step.	
	(FBCM) DTCs AGAIN	No	Go to Step 9.	
	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) and wait for 5 s or more.			
	Perform the front body control module (FBCM) DTC inspection using the M-MDS. (See DTC INSPECTION [FRONT BODY CONTROL MODULE (FBCM)].) IS DTC B11DB:86 displayed?			

Step	Inspection		Action
2	INSPECT CURRENT SENSOR CONNECTOR	Yes	Go to the next step.
	CONDITION	No	Repair or replace the connector, then go to Step 8.
	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 current sensor connector.		
	Inspect the connector engagement and		
	connection condition and inspect the terminals		
	for damage, deformation, corrosion, or		
	disconnection.		
3	• Is the connector normal?	Vas	Co to the move store
3	INSPECT FRONT BODY CONTROL MODULE (FBCM) CONNECTOR CONDITION	Yes	Go to the next step.
	Disconnect the front body control module	No	Repair or replace the connector, then go to Step 8.
	(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 CURRENT SENSOR CIRCUIT FOR	Yes	Repair or replace the wiring harness which is shorted to
	SHORT TO GROUND		ground, then go to Step 8.
	Verify that the current sensor and front body	No	Go to the next step.
	control module (FBCM) connectors are		
	disconnected.		
	Inspect for continuity between front body control		
	module (FBCM) terminal 2E (vehicle wiring		
	harness side) and body ground.		
	• Is there continuity?	Y	
5	INSPECT CURRENT SENSOR CIRCUIT FOR	Yes	Go to the next step.
	• Verify that the current sensor and front body	No	Repair or replace the wiring harness which is shorted to
	control module (FBCM) connectors are		power supply, then go to Step 8.
	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		
	• Switch the ignition ON (engine off or on).		
	Measure the voltage at front body control		
	module (FBCM) terminal 2E (vehicle wiring		
	harness side).		
	• Is the voltage 0 V?		
	Measure the voltage at front body control module (FBCM) terminal 2E (vehicle wiring		

Step	Inspection		Action
6	INSPECT CURRENT SENSOR CIRCUIT FOR	Yes	Go to the next step.
	OPEN CIRCUIT	No	Repair or replace the wiring harness which has an open
	Verify that the current sensor and front body	''	circuit, then go to Step 8.
	control module (FBCM) connectors are		on out, then go to otop o.
	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 for continuity		
	between current sensor terminal B (vehicle		
	wiring harness side) and front body control		
	module (FBCM) terminal 2E (vehicle wiring		
	harness side).		
7	• Is there continuity? PERFORM DTC INSPECTION AND VERIFY IF	Yes	Replace the current sensor, then go to the next step.
/	MALFUNCTIONING PART IS CURRENT	165	(See CURRENT SENSOR REMOVAL/INSTALLATION
	SENSOR		[SKYACTIV-G 2.0, SKYACTIV-G 2.5].)
	Reconnect all the disconnected connectors.		(See CURRENT SENSOR REMOVAL/INSTALLATION
	Reconnect the disconnected negative battery		[SKYACTIV-D 2.2].)
	cable.	No	Go to Step 9.
	(See NEGATIVE BATTERY CABLE	INO	30 to Step 9.
	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) and		
	wait for 5 s or more .		
	Perform the front body control module (FBCM)		
	DTC inspection using the M-MDS.		
	(See DTC INSPECTION [FRONT BODY		
	CONTROL MODULE (FBCM)].)		
	• Is DTC B11DB:86 displayed?		

Ston	Inspection		Action
Step 8	VERIFY THAT REPAIRS HAVE BEEN	Yes	Replace the front body control module (FBCM), then go to
0	COMPLETED	165	
	Reconnect all the disconnected connectors.		the next step. (See FRONT BODY CONTROL MODULE (FBCM)
			, , , ,
	Reconnect the disconnected negative battery	NI-	REMOVAL/INSTALLATION.)
	cable.	No	Go to the next step.
	(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 The MANDS		
	using the M-MDS.		
	(See CLEARING DTC [FRONT BODY		
	CONTROL MODULE (FBCM)].)		
	• Switch the ignition ON (engine off or on) and		
	wait for 5 s or more .		
	Perform the front body control module (FBCM) PTO increasing the MANDO		
	DTC inspection using the M-MDS.		
	(See DTC INSPECTION [FRONT BODY		
	CONTROL MODULE (FBCM)].)		
	• Is DTC B11DB:86 displayed?		Denois the small methods are and according to the control of
9	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
		N.1.	(FBCM)].)
		No	DTC troubleshooting completed.