DTC B112A:11 [START STOP UNIT]

id0902p6020400

System malfunction location	IG2 relay circuit malfunction					
Detection	• With the ignition switched ON (engine off or on), the start stop unit detects IG2 relay circuit voltage of 2.5					
condition	V or less for 0.5 s or more.					
Fail-safe	— — — — — — — — — — — — — — — — — — —					
	Front body control module (FBCM) connector or terminal malfunction					
	Start stop unit connector or terminal malfunction					
Possible cause	• Short to ground in wiring harness between start stop unit terminal 2D and front body control module					
	(FBCM) terminal 2U					
	Front body control module (FBCM) malfunction Start stop unit malfunction					
	IG2 RELAY					
	START STOP UNIT (FBCM)					
	(2D)» «(2U)					
START STOP UNIT FBCM WIRING HARNESS-SIDE CONNECTOR WIRING HARNESS-SIDE CONNECTOR						
	S 2Q 2O 2M 2K 2I 2G 2E 2C 2A 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	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.
	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 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
2	INSPECT START STOP UNIT CONNECTOR	Yes	Go to the next step.
	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?	No	Repair or replace the connector, then go to Step 5.
3	INSPECT IG2 RELAY CIRCUIT FOR SHORT	Yes	Repair or replace the wiring harness which is shorted to
	TO GROUND	100	ground, then go to Step 5.
	 Verify that the start stop unit and front body control module (FBCM) connectors are disconnected. Inspect for continuity between front body control module (FBCM) terminal 2U (vehicle wiring harness side) and body ground. Is there continuity? 	No	Go to the next step.
4	PERFORM DTC INSPECTION AND VERIFY IF	Yes	Replace the front body control module (FBCM), then go to
	IG2 RELAY IS MALFUNCTIONING PART		the next step.
	Reconnect all the disconnected connectors.		(See FRONT BODY CONTROL MODULE (FBCM)
	Reconnect the disconnected negative battery		REMOVAL/INSTALLATION.)
	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 DTC for the start stop unit using the M-MDS. (See CLEARING DTC [START STOP UNIT].) • Switch the ignition ON (engine off or on) and wait for 0.5 s or more. • Perform the DTC inspection for the start stop unit using the M-MDS. (See DTC INSPECTION [START STOP UNIT].) • Is DTC B112A:11 displayed?	No	Go to Step 6.

Step	Inspection		Action
5	VERIFY THAT REPAIRS HAVE BEEN COMPLETED • Reconnect all the disconnected connectors. • Reconnect the disconnected negative battery cable. (See NEGATIVE BATTERY CABLE	Yes	Repeat the inspection from Step 1. • If the malfunction recurs, replace the start stop unit, then go to the next step. (See START STOP UNIT REMOVAL/INSTALLATION.) Go to the next step.
	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 DTC for the start stop unit using the M-MDS. (See CLEARING DTC [START STOP UNIT].) • Switch the ignition ON (engine off or on) and wait for 0.5 s or more. • Perform the DTC inspection for the start stop unit using the M-MDS. (See DTC INSPECTION [START STOP UNIT].) • Is DTC B112A:11 displayed?		
6	VERIFY IF OTHER DTCs DISPLAYED	Yes	J
	Are any other DTCs displayed?		DTC troubleshooting. (See DTC TABLE [START STOP UNIT].)
		No	DTC troubleshooting completed.