System malfunction location	Keyless antenna (interior, center) circuit malfunction				
Detection	• The start stop unit detects an open circuit in the keyless antenna (interior, center) or a short to ground with				
condition	the ignition switched off.				
Fail-safe Possible cause	 Open circuit in wiring harness between the following terminals: Start stop unit terminal 2I and keyless antenna (interior, center) terminal B Start stop unit terminal 2K and keyless antenna (interior, center) terminal A Keyless antenna (interior, center) malfunction Start stop unit malfunction 				
	START STOP UNIT (INTERIOR, CENTER) (INTERIOR, CENTER)				
START STOP UNIT WIRING HARNESS-SIDE CONNECTOR WIRING HARNESS-SIDE CONNECTOR WIRING HARNESS-SIDE CONNECTOR					
2W 2U 2S 2Q 2O 2M 2K 2I 2G 2E 2C 2A 2X 2V 2T 2R 2P 2N 2L 2J 2H 2F 2D 2B					

Diagnostic Procedure

Step	Inspection		Action
1	INSPECT KEYLESS ANTENNA (INTERIOR,	Yes	Go to the next step.
	CENTER) CONNECTOR CONDITION	No	Repair or replace the connector, then go to Step 6.
	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 keyless antenna (interior,		
	center) 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.
	 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? 	No	Repair or replace the connector, then go to Step 6.
3	INSPECT KEYLESS ANTENNA (INTERIOR,	Yes	Repair or replace the wiring harness which is shorted to
3	 CENTER) CIRCUIT FOR SHORT TO GROUND Verify that the start stop unit and keyless antenna (interior, center) connectors are disconnected. Inspect for continuity between the following terminals (vehicle wiring harness side) and body ground. Keyless antenna (interior, center) terminal B Keyless antenna (interior, center) terminal A Is there continuity? 	No	ground, then go to Step 6. Go to the next step.
4	INSPECT KEYLESS ANTENNA (INTERIOR,	Yes	Go to the next step.
	 CENTER) CIRCUIT FOR OPEN CIRCUIT Verify that the start stop unit and keyless antenna (interior, center) connectors are disconnected. Inspect the wiring harness between the following terminals (vehicle wiring harness side) for continuity. Start stop unit terminal 2I and keyless antenna (interior, center) terminal B Start stop unit terminal 2K and keyless antenna (interior, center) terminal A Is there continuity? 	No	Repair or replace the wiring harness which has an open circuit, then go to Step 6.
5	PERFORM DTC INSPECTION AND VERIFY IF	Yes	Replace the keyless antenna (interior, center), then go to
	MALFUNCTIONING PART IS KEYLESS		the next step.
	• 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].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5 (WITHOUT i-stop)].) (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].) • Perform the DTC inspection for the start stop unit using the M-MDS. (See DTC INSPECTION [START STOP UNIT].)	No	(See KEYLESS ANTENNA REMOVAL/INSTALLATION.) Go to Step 7.

Step	Inspection		Action
6	VERIFY THAT REPAIRS HAVE BEEN	Yes	Repeat the inspection from Step 1.
	COMPLETED		• If the malfunction recurs, replace the start stop unit, then
	Reconnect all the disconnected connectors.		go to the next step.
	Reconnect the disconnected negative battery		(See START STOP UNIT 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 DTC for the start stop unit using the M-		
	MDS.		
	(See CLEARING DTC [START STOP UNIT].)		
	Perform the DTC inspection for the start stop		
	unit using the M-MDS.		
	(See DTC INSPECTION [START STOP		
	UNIT].)		
	Is DTC B10C9:1F displayed?		
7	VERIFY IF OTHER DTCs DISPLAYED	Yes	Repair the malfunctioning part according to the applicable
	Are any other DTCs displayed?		DTC troubleshooting.
			(See DTC TABLE [START STOP UNIT].)
		No	DTC troubleshooting completed.