System malfunction location	CPP switch circuit malfunction			
Detection condition	Start stop unit detects clutch switch is stuck on for 10 s or more.			
Fail-safe	Change to the back-up mode. Perform the control with CPP switch turned off.			
Possible cause	DTCs are stored in the PCM. CPP switch connector or terminal malfunction CPP switch malfunction PCM connector or terminal malfunction Short to ground in the wiring harness between the following terminals:			
	PCM SKYACTIV-G 2.0, SKYACTIV-G 2.5 SKYACTIV-D 2.2 START STOP UNIT CPP SWITCH CPP SWITCH			
WIRING HARNESS-SIDE CONNECTOR B A 2W 2U 2S 2Q 2O 2M 2K 2I 2G 2E 2C 2A 2X 2V 2T 2R 2P 2N 2L 2J 2H 2F 2D 2B				
PCM WIRING HARNESS-SIDE CONNECTOR				
2BE 2AZ 2AU 2AP 2AK 2BF 2BA 2AV 2AQ 2AL 2BG 2BB 2AW 2AR 2AM 2BH 2BC 2AX 2AS 2AN 2BD 2AY 2AT 2AO 2AE 2AA 2W 2S 2O 2K 2G 2C 2AF 2AB 2X 2T 2P 2L 2H 2D 2AE 2AA 2W 2S 2O 2K 2G 2C 2AF 2AB 2X 2T 2P 2L 2H 2D 2AE 2AA 2W 2S 2O 2K 2G 2C 2AF 2AB 2X 2T 2P 2L 2H 2D 2AE 2AA 2W 2S 2O 2K 2G 2C 2AF 2AB 2X 2T 2P 2L 2H 2D 2AE 2AA 2W 2S 2O 2K 2G 2C 2AF 2AB 2X 2T 2P 2L 2H 2D				

Diagnostic Procedure

	tic Procedure		Action
Step	Inspection	V	Action
1	VERIFY PCM DTCs	Yes	Repair the malfunctioning part according to the applicable
	Perform the DTC inspection for the PCM using		DTC troubleshooting.
	the M-MDS.		(See DTC TABLE [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)
	(See ON-BOARD DIAGNOSTIC TEST		(See DTC TABLE [SKYACTIV-D 2.2].)
	[SKYACTIV-G 2.0, SKYACTIV-G 2.5].)	No	Go to the next step.
	(See ON-BOARD DIAGNOSTIC TEST		
	[SKYACTIV-D 2.2].)		
	Is the DTC displayed?		
2	INSPECT CPP SWITCH 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 CPP switch connector.		
	Inspect the connector engagement and		
	connection condition and inspect the terminals		
	for damage, deformation, corrosion, or		
	_		
	disconnection.		
	• Is the connector normal?	\/	0- 4- 4
3	INSPECT CPP SWITCH	Yes	Go to the next step.
	• Inspect the CPP switch.	No	Replace the CPP switch, then go to the Step 8.
	(See CLUTCH PEDAL POSITION (CPP)		(See CLUTCH PEDAL POSITION SWITCH REMOVAL/
	SWITCH INSPECTION [SKYACTIV-G 2.0,		INSTALLATION [C66M-R, C66MX-R].)
	SKYACTIV-G 2.5].)		(See CLUTCH PEDAL POSITION SWITCH REMOVAL/
	(See CLUTCH PEDAL POSITION (CPP)		INSTALLATION [D66M-R, D66MX-R].)
	SWITCH INSPECTION [SKYACTIV-D 2.2].)		
	• Is the CPP switch normal?	\/ · ·	On the theorem testing
4	INSPECT PCM CONNECTOR CONDITION	Yes	Go to the next step.
	Disconnect the PCM connector.	No	Repair or replace the connector, then go to Step 8.
	Inspect the connector engagement and		
	connection condition and inspect the terminals		
	for damage, deformation, corrosion, or		
	disconnection.		
	Is the connector normal?		
5	INSPECT CPP SWITCH CIRCUIT FOR SHORT	Yes	Repair or replace the wiring harness which is shorted to
	TO GROUND		ground, then go to Step 8.
	Verify that the PCM and CPP switch connectors	No	Go to the next step.
	are disconnected.		
	Inspect for continuity between CPP switch		
	terminal A (vehicle wiring harness side) and		
	body ground.		
	Is there continuity?		
6	INSPECT START STOP UNIT CONNECTOR	Yes	Go to the next step.
	CONDITION	No	Repair or replace the connector, then go to Step 8.
	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?		
	is the connector normal:		

Step	Inspection		Action		
7	INSPECT CPP SWITCH CIRCUIT FOR SHORT	Yes	Repair or replace the wiring harness which has a short to		
	TO GROUND		ground, then go to the next step.		
	Verify that the start stop unit and CPP switch	No	Go to the next step.		
	connectors are disconnected.				
	• Inspect for continuity between CPP switch				
	terminal A (vehicle wiring harness side) and				
	body ground.				
8	• Is there continuity?	Yes	Danaat the inequation from Stop 1		
ŏ	VERIFY THAT REPAIRS HAVE BEEN COMPLETED • Reconnect all the disconnected connectors.		Repeat the inspection from Step 1.		
			• If the malfunction recurs, replace the start stop unit, then 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	110	Go to the flext 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 10 min or more .				
	Perform the DTC inspection for the start stop				
	unit using the M-MDS.				
	(See DTC INSPECTION [START STOP				
	UNIT].)				
	• Is DTC P0830:23 displayed?				
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 [START STOP UNIT].)		
		No	DTC troubleshooting completed.		