

**Diagnostic Procedure** 

Step	Inspection		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 PCM CONNECTOR CONDITION	Yes	Go to the next step.
	Switch the ignition to off.	No	Repair or replace the connector, then go to Step 6.
	Disconnect the negative battery cable.		grant special series (see Section 1997)
	(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 PCM connector.		
	Inspect the connector engagement and		
	connection condition and inspect the terminals		
	for damage, deformation, corrosion, or		
	disconnection.		
	Is the connector normal?		
3	INSPECT START STOP UNIT CONNECTOR	Yes	Go to the next step.
	CONDITION	No	Repair or replace the connector, then go to Step 6.
	Disconnect the start stop unit connector.		The state of the s
	Inspect the connector engagement and		
	connection condition and inspect the terminals		
	for damage, deformation, corrosion, or		
	disconnection.		
	Is the connector normal?		
4	INSPECT DOWNSTREAM SIDE OF STARTER	Yes	Repair or replace the wiring harness which is shorted to
•	RELAY CIRCUIT FOR SHORT TO GROUND		ground, then go to Step 6.
	Verify that the PCM and start stop unit	No	Go to the next step.
	connectors are disconnected.	''	So to the next otop.
	Inspect for continuity between start stop unit		
	terminal 1D (vehicle wiring harness side) and		
	body ground.		
	• Is there continuity?		

Step	Inspection		Action
5	PERFORM DTC INSPECTION AND VERIFY IF	Yes	Replace the PCM, then go to the next step.
	MALFUNCTIONING PART IS PCM		(See PCM REMOVAL/INSTALLATION [SKYACTIV-G 2.0,
	Reconnect all the disconnected connectors.		SKYACTIV-G 2.5].)
	Reconnect the disconnected negative battery		(See PCM REMOVAL/INSTALLATION [SKYACTIV-D
	cable.		2.2].)
	(See NEGATIVE BATTERY CABLE	No	Go to Step 7.
	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].)		
	With the programmed remote transmitter in the		
	vehicle, switch the ignition ON (engine off).		
	Depress the clutch pedal and release it. (MTX)		
	Operate the selector lever to positions from		
	other than P or N and hold for 1 s or more, and		
	perform this procedure <b>5 or more times</b> . (ATX)		
	Perform the DTC inspection for the start stop		
	unit using the M-MDS.		
	(See DTC INSPECTION [START STOP		
	UNIT].)		
	• Is DTC P0616:23 displayed?	V	Deposit the inequation from Oten 4
6	VERIFY THAT REPAIRS HAVE BEEN COMPLETED	Yes	Repeat the inspection from Step 1.  • 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	110	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).		
	Depress the clutch pedal and release it. (MTX)		
	Operate the selector lever to positions from		
	other than P or N and hold for <b>1 s or more</b> , and		
	perform this procedure <b>5 or more times</b> . (ATX)		
	Perform the DTC inspection for the start stop      WARD		
	unit using the M-MDS.		
	- (SOCIAL INSIDECTION ISTABLETO)		
	(See DTC INSPECTION [START STOP		
	UNIT].)		
	UNIT].) • Is DTC P0616:23 displayed?	\ <u>'</u>	
7	UNIT].) • Is DTC P0616:23 displayed?  VERIFY IF OTHER DTCs DISPLAYED	Yes	Repair the malfunctioning part according to the applicable
7	UNIT].) • Is DTC P0616:23 displayed?	Yes	DTC troubleshooting.
7	UNIT].) • Is DTC P0616:23 displayed?  VERIFY IF OTHER DTCs DISPLAYED	Yes	