

Diagnostic Procedure

Step	Inspection		Action
1	• Perform the DTC inspection for the PCM using the M-MDS. (See ON-BOARD DIAGNOSTIC TEST	Yes	Repair the malfunctioning part according to the applicable DTC troubleshooting. (See DTC TABLE [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See DTC TABLE [SKYACTIV-D 2.2].)
	[SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See ON-BOARD DIAGNOSTIC TEST [SKYACTIV-D 2.2].) • Is the DTC displayed?	No	Go to the next step.
2	INSPECT PCM CONNECTOR CONDITION	Yes	Go to the next step.
	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 PCM 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 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 6.
4	INSPECT DOWNSTREAM SIDE OF STARTER	Yes	Go to the next step.
	 RELAY CIRCUIT FOR OPEN CIRCUIT Verify that the PCM and start stop unit connectors are disconnected. Inspect the wiring harness for continuity between the following terminals (vehicle wiring harness side). Start stop unit terminal 1D—PCM terminal 2AZ (SKYACTIV-G 2.0, SKYACTIV-G 2.5) Start stop unit terminal 1D—PCM terminal 2BF (SKYACTIV-D 2.2) Is there continuity? 	No	Repair or replace the wiring harness which has an open circuit, then go to Step 6.

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 5 or more times . (ATX)		
	Perform the DTC inspection for the start stop		
	unit using the M-MDS.		
	(See DTC INSPECTION [START STOP		
	UNIT].)		
	• Is DTC P0616:24 displayed?	Vas	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.
Ì	(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 1 s or more , and		
	perform this procedure 5 or more times . (ATX)		
	Perform the DTC inspection for the start stop The MADO Th		
	unit using the M-MDS.		
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	(See DTC INSPECTION [START STOP		
	UNIT].)		
	UNIT].) • Is DTC P0616:24 displayed?		
7	UNIT].) • Is DTC P0616:24 displayed? VERIFY IF OTHER DTCs DISPLAYED	Yes	Repair the malfunctioning part according to the applicable
7	UNIT].) • Is DTC P0616:24 displayed?	Yes	DTC troubleshooting.
7	UNIT].) • Is DTC P0616:24 displayed? VERIFY IF OTHER DTCs DISPLAYED	Yes	