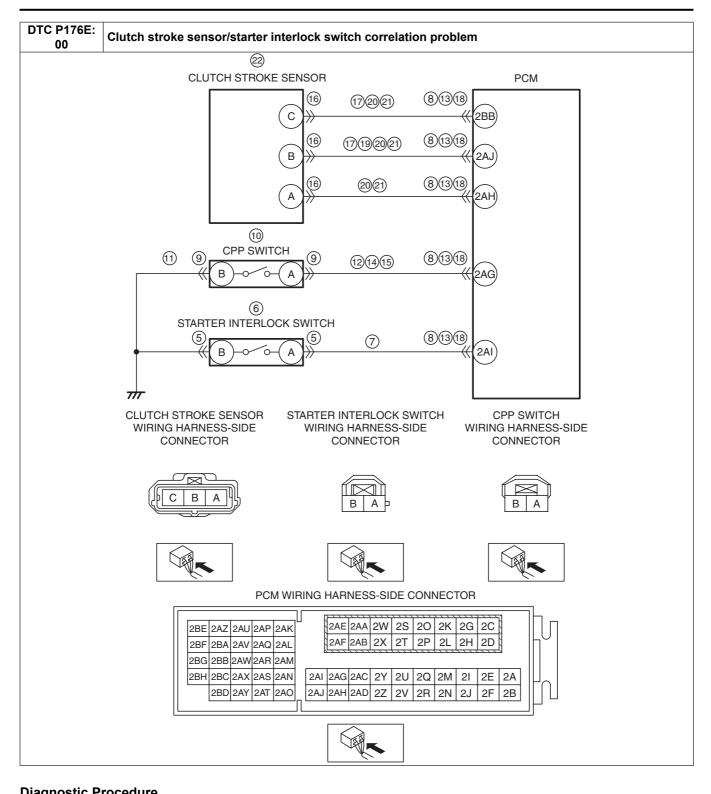
DTC P176E: 00	Clutch stroke sensor/starter interlock switch correlation problem		
DETECTION	 Correlation malfunction between clutch stroke sensor and starter interlock switch. If the clutch stroke sensor circuit voltage above 4.9 V or below 0.1 V for 10 s, the PCM determines that the clutch stroke sensor circuit has a malfunction. CPP switch stuck ON or OFF. Starter interlock switch stuck ON. Diagnostic support note This is a continuous monitor (other). The check engine light does not illuminate. FREEZE FRAME DATA (Mode 2)/Snapshot data is not available. DTC is stored in the PCM memory. 		
FAIL-SAFE FUNCTION	Inhibits engine-stop by operating the i-stop function.		
POSSIBLE CAUSE	Caution Inspect the CPP switch with it installed to the clutch pedal, otherwise the CPP switch may not operate normally after inspection. If the CPP switch is removed from the clutch pedal, replace the CPP switch with a new one. CPP switch, clutch stroke sensor and/or starter interlock switch loose Starter interlock switch connector or terminals malfunction Short to ground in wiring harness between starter interlock switch terminal A and PCM terminal 2AI PCM connector or terminals malfunction CPP switch connector or terminals malfunction CPP switch malfunction Open circuit in wiring harness between CPP switch terminal B and body ground Short to ground in wiring harness between CPP switch terminal A and PCM terminal 2AG Open circuit in wiring harness between CPP switch terminal A and PCM terminal 2AG Short to power supply in wiring harness between CPP switch terminal A and PCM terminal 2AG Clutch stroke sensor connector or terminals malfunction Short to ground in wiring harness between the following terminals: Clutch stroke sensor terminal C—PCM terminal 2BB Clutch stroke sensor terminal B—PCM terminal 2AJ Clutch stroke sensor circuits are shorted to each other. Open circuit in wiring harness between the following terminals: Clutch stroke sensor terminal C—PCM terminal 2BB Clutch stroke sensor terminal B—PCM terminal 2AJ		



Diagnostic Procedure			
STEP	INSPECTION		ACTION
1	VERIFY RELATED SERVICE INFORMATION	Yes	Perform repair or diagnosis according to the available
	AVAILABILITY		Service Information.
	Verify related Service Information availability.		If the vehicle is not repaired, go to the next step.
	Is any related Service Information available?	No	Go to the next step.

STEP	INSPECTION		ACTION
2	VERIFY RELATED PENDING CODE AND/OR	Yes	Go to the applicable PENDING CODE or DTC inspection.
	DTC		(See DTC P0704:00 [SKYACTIV-D 2.2].)
	Switch the ignition off, then ON (engine off).	No	Go to the next step.
	Perform the Pending Trouble Code Access		
	Procedure and DTC Reading Procedure.		
	(See ON-BOARD DIAGNOSTIC TEST		
	[SKYACTIV-D 2.2].)		
	 Is the PENDING CODE/DTC P0704:00 also present? 		
3	INSPECT INSTALLATION OF CPP SWITCH,	Yes	Go to the next step.
3	CLUTCH STROKE SENSOR AND STARTER	No	Retighten the malfunctioning switch and/or sensor, then go
	INTERLOCK SWITCH	140	to Step 23.
	Inspect installation of CPP switch, clutch stroke		16 Ctop 20.
	sensor and starter interlock switch.		
	Are the CPP switch, clutch stroke sensor and		
	starter interlock switch installed securely?		
4	DETERMINE MALFUNCTIONING SYSTEM	Yes	If the PCM terminal 2AI voltage is not normal:
	Inspect the following:		Go to the next step.
	(See ON-BOARD DIAGNOSTIC TEST		If the CPP PID (%) is not normal:
	[SKYACTIV-D 2.2].)		• Go to Step 9.
	— PCM PID:	No	Intermittent concern exists.
	CPP (%) PCM terminal 2AI voltage		Perform the "INTERMITTENT CONCERN TROUBLESHOOTING" procedure.
	Is there any malfunction?		(See INTERMITTENT CONCERN TROUBLESHOOTING
	(See PCM INSPECTION [SKYACTIV-D 2.2].)		[SKYACTIV-D 2.2].)
5	INSPECT STARTER INTERLOCK SWITCH	Yes	Repair or replace the connector and/or terminals, then go to
	CONNECTOR CONDITION		Step 23.
	Switch the ignition off.	No	Go to the next step.
	Disconnect the starter interlock switch connector.		·
	Inspect for poor connection (such as damaged/		
	pulled-out pins, corrosion).		
	Is there any malfunction?		
6	INSPECT STARTER INTERLOCK SWITCH	Yes	Replace the starter interlock switch, then go to Step 23.
	Inspect the starter interlock switch. (See STARTER INTERLOCK SWITCH)	No	Go to the next step.
	(See STARTER INTERLOCK SWITCH INSPECTION [SKYACTIV-D 2.2].)		
	• Is there any malfunction?		
7	INSPECT STARTER INTERLOCK SWITCH	Yes	If the short to ground circuit could be detected in the wiring
	SIGNAL CIRCUIT FOR SHORT TO GROUND		harness:
	Verify that the starter interlock switch connector is		• Repair or replace the wiring harness for a possible short to
	disconnected.		ground.
	Inspect for continuity between starter interlock		If the short to ground circuit could not be detected in the
	switch terminal A (wiring harness-side) and body		wiring harness:
	ground.		Replace the PCM (short to ground in the PCM internal
	Is there continuity?		circuit).
			(See PCM REMOVAL/INSTALLATION [SKYACTIV-D
			2.2].) Go to Step 23.
		No	Go to step 23. Go to the next step.
8	INSPECT PCM CONNECTOR CONDITION	Yes	Repair or replace the connector and/or terminals, then go to
	Disconnect the PCM connector.		Step 23.
	• Inspect for poor connection (such as damaged/	No	Go to the next step.
	pulled-out pins, corrosion).		·
	Is there any malfunction?		
9	INSPECT CPP SWITCH CONNECTOR	Yes	Repair or replace the connector and/or terminals, then go to
	CONDITION		Step 23.
	Switch the ignition off.	No	Go to the next step.
	Disconnect the CPP switch connector.		
	Inspect for poor connection (such as damaged/ pulled out pine correction)		
	pulled-out pins, corrosion).		
	Is there any malfunction?		

STEP	INSPECTION		ACTION
10	INSPECT CPP SWITCH	Yes	Replace the CPP switch, then go to Step 23.
	Inspect the CPP switch.		(See CLUTCH PEDAL POSITION SWITCH REMOVAL/
	(See CLUTCH PEDAL POSITION (CPP)		INSTALLATION [D66M-R, D66MX-R].)
	SWITCH INSPECTION [SKYACTIV-D 2.2].) • Is there any malfunction?	No	Go to the next step.
11	INSPECT CPP SWITCH GROUND CIRCUIT FOR	Yes	Go to the next step.
	OPEN CIRCUIT	No	Repair or replace the wiring harness for a possible open
	Verify that the CPP switch connector is		circuit, then go to Step 23.
	disconnected.		
	Inspect for continuity between CPP switch		
	terminal B (wiring harness-side) and body ground. • Is there continuity?		
12	INSPECT CPP SWITCH SIGNAL CIRCUIT FOR	Yes	If the short to ground circuit could be detected in the wiring
'-	SHORT TO GROUND		harness:
	Verify that the CPP switch connector is		Repair or replace the wiring harness for a possible short to
	disconnected.		ground.
	 Inspect for continuity between CPP switch terminal A (wiring harness-side) and body ground. 		If the short to ground circuit could not be detected in the
	• Is there continuity?		wiring harness: • Replace the PCM (short to ground in the PCM internal
	io there continuity.		circuit).
			(See PCM REMOVAL/INSTALLATION [SKYACTIV-D
			2.2].)
		NI-	Go to Step 23.
13	INSPECT PCM CONNECTOR CONDITION	No Yes	Go to the next step. Repair or replace the connector and/or terminals, then go to
'5	Disconnect the PCM connector.	103	Step 23.
	• Inspect for poor connection (such as damaged/	No	Go to the next step.
	pulled-out pins, corrosion).		
4.4	• Is there any malfunction?	\/	
14	INSPECT CPP SWITCH SIGNAL CIRCUIT FOR OPEN CIRCUIT	Yes No	Go to the next step. Repair or replace the wiring harness for a possible open
	Verify that the CPP switch and PCM connectors	INO	circuit, then go to Step 23.
	are disconnected.		5. 55.1, a.5.1 go to 5.5p 25.
	Inspect for continuity between CPP switch		
	terminal A (wiring harness-side) and PCM		
	terminal 2AG (wiring harness-side). • Is there continuity?		
15	INSPECT CPP SWITCH SIGNAL CIRCUIT FOR	Yes	Go to the next step.
	SHORT TO POWER SUPPLY	No	Repair or replace the wiring harness for a possible short to
	Verify that the CPP switch and PCM connectors		power supply, then go to Step 23.
	are disconnected.		
	 Switch the ignition ON (engine off). Measure the voltage at the CPP switch terminal A 		
	(wiring harness-side).		
	• Is the voltage 0 V ?		
16	INSPECT CLUTCH STROKE SENSOR	Yes	, , ,
	• Switch the ignition off.	No	Step 23. Go to the next step.
	Disconnect the clutch stroke sensor connector.	110	Oo to the next step.
	Inspect for poor connection (such as damaged/		
	pulled-out pins, corrosion).		
47	• Is there any malfunction?	Va-	If the chart to ground circuit sould be detected in the
17	INSPECT CLUTCH STROKE SENSOR CIRCUIT FOR SHORT TO GROUND	Yes	If the short to ground circuit could be detected in the wiring harness:
	Verify that the clutch stroke sensor connector is		Repair or replace the wiring harness for a possible short to
	disconnected.		ground.
	Inspect for continuity between the following		If the short to ground circuit could not be detected in the
	terminals (wiring harness-side) and body ground: — Clutch stroke sensor terminal C		wiring harness:
	Clutch stroke sensor terminal C Clutch stroke sensor terminal B		Replace the PCM (short to ground in the PCM internal circuit).
	Is there continuity?		(See PCM REMOVAL/INSTALLATION [SKYACTIV-D
	-		2.2].)
			Go to Step 23.
		No	Go to the next step.

STEP	INSPECTION	ACTION	
18	INSPECT FCM CONNECTOR CONDITION	Yes	Repair or replace the connector and/or terminals, then go to
10	Disconnect the PCM connector.	165	Step 23.
	Inspect for poor connection (such as damaged/	No	Go to the next step.
	pulled-out pins, corrosion).	INO	שט נט נוופ וופגנ אנפף.
	• Is there any malfunction?		
19	INSPECT CLUTCH STROKE SENSOR CIRCUIT	Voo	Co to the poyt step
19	FOR SHORT TO POWER SUPPLY	Yes	Go to the next step.
		No	Repair or replace the wiring harness for a possible short to
	Verify that the clutch stroke sensor and PCM appropriate and disconnected.		power supply, then go to Step 23.
	connectors are disconnected.		
	Switch the ignition ON (engine off).		
	Measure the voltage at the clutch stroke sensor terminal B (viring bernage side)		
	terminal B (wiring harness-side).		
- 00	• Is the voltage 0 V ?	V	Denoting an analysis the original because of the control of the co
20	INSPECT CLUTCH STROKE SENSOR CIRCUIT	Yes	Repair or replace the wiring harness for a possible short to
	FOR SHORT TO EACH OTHER		each other, then go to Step 23.
	Verify that the clutch stroke sensor and PCM	No	Go to the next step.
	connectors are disconnected.		
	Switch the ignition off.		
	• Inspect for continuity between clutch stroke		
	sensor terminals C, B and A (wiring harness-side).		
	• Is there continuity?	.,	
21	INSPECT CLUTCH STROKE SENSOR CIRCUIT	Yes	Go to the next step.
	FOR OPEN CIRCUIT	No	Repair or replace the wiring harness for a possible open
	Verify that the clutch stroke sensor and PCM		circuit, then go to Step 23.
	connectors are disconnected.		
	Inspect for continuity between the following		
	terminals (wiring harness-side):		
	Clutch stroke sensor terminal C—PCM		
	terminal 2BB		
	Clutch stroke sensor terminal B—PCM		
	terminal 2AJ		
	Clutch stroke sensor terminal A—PCM		
	terminal 2AH		
	• Is there continuity?		
22	INSPECT CLUTCH STROKE SENSOR	Yes	Replace the clutch master cylinder, then go to the next step.
	• Inspect the clutch stroke sensor.		(See CLUTCH MASTER CYLINDER REMOVAL/
	(See CLUTCH STROKE SENSOR INSPECTION		INSTALLATION [D66M-R, D66MX-R].)
	[SKYACTIV-D 2.2].)	No	Repeat Step 4.
	• Is there any malfunction?	.,	
23	VERIFY DTC TROUBLESHOOTING	Yes	Repeat the inspection from Step 1.
	COMPLETED		• If the malfunction recurs, replace the PCM.
	Always reconnect all disconnected connectors.		(See PCM REMOVAL/INSTALLATION [SKYACTIV-D
	Clear the DTC from the PCM memory using the		2.2].)
	M-MDS.		Go to the next step.
	(See AFTER REPAIR PROCEDURE	No	Go to the next step.
	[SKYACTIV-D 2.2].)		
	Depress and release the clutch pedal. Depress and KOED as KOED as Koeth		
	Perform the KOEO or KOER self test.		
	(See KOEO/KOER SELF TEST [SKYACTIV-D		
	2.2].)		
	• Is the same DTC present?		
24	VERIFY AFTER REPAIR PROCEDURE	Yes	Go to the applicable DTC inspection.
	Perform the "AFTER REPAIR PROCEDURE".		(See DTC TABLE [SKYACTIV-D 2.2].)
	·	No	DTC troubleshooting completed.
	La Ara any DTCa propont?	I	1
	 Perform the "AFTER REPAIR PROCEDURE". (See AFTER REPAIR PROCEDURE [SKYACTIV-D 2.2].) Are any DTCs present? 	No	(See DTC TABLE [SKYACTIV-D 2.2].) DTC troubleshooting completed.