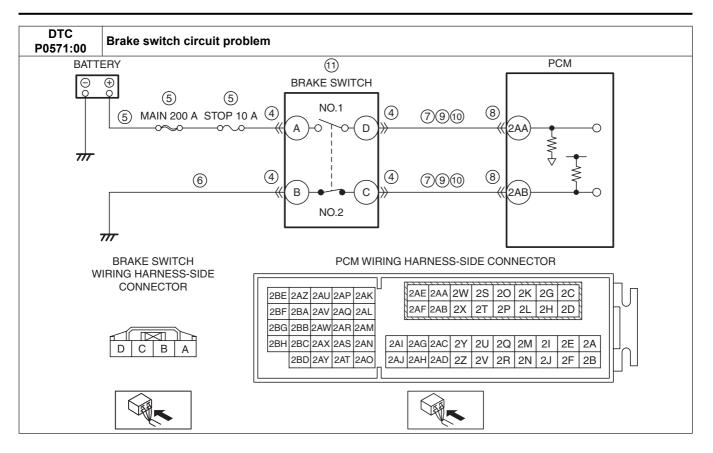
DTC P0571:00	Brake switch circuit problem
DETECTION CONDITION	 Any of the following conditions is detected 5 times continuously: Brake switch No.2 signal does not change for 3 s or more even though brake switch No.1 signal switches on and off Brake switch No.1 signal does not change for 3 s or more even though brake switch No.2 signal switches on and off Diagnostic support note This is a continuous monitor (CCM). The check engine light illuminates if the PCM detects the above malfunction condition in two consecutive drive cycles or in one drive cycle while the DTC for the same malfunction has been stored in the PCM. PENDING CODE is available if the PCM detects the above malfunction condition during the first drive cycle. FREEZE FRAME DATA (Mode 2)/Snapshot data is available.
FAIL-SAFE FUNCTION	DTC is stored in the PCM memory. Inhibits engine-stop by operating the i-stop function.
POSSIBLE CAUSE	Caution Inspect the brake switch with it installed to the brake pedal, otherwise the brake switch may not operate normally. If the brake switch is removed from the brake pedal, replace the brake switch with a new one. Brake switch connector or terminals malfunction Short to ground or open circuit in brake switch No.1 power supply circuit Short to ground in wiring harness between battery positive terminal and brake switch terminal A MAIN 200 A fuse and/or STOP 10 A fuse malfunction Open circuit in wiring harness between battery positive terminal and brake switch terminal A Open circuit in wiring harness between the following terminals B and body ground Short to ground in wiring harness between the following terminals: Brake switch terminal D—PCM terminal 2AA Brake switch terminal C—PCM terminal 2AB PCM connector or terminals malfunction Short to power supply in wiring harness between the following terminals: Brake switch terminal D—PCM terminal 2AB Open circuit in wiring harness between the following terminals: Brake switch terminal C—PCM terminal 2AA Brake switch terminal C—PCM terminal 2AA Brake switch terminal C—PCM terminal 2AA Brake switch terminal C—PCM terminal 2AB Brake switch No.1 malfunction Brake switch No.2 malfunction PCM malfunction



Diagnostic Procedure

STEP	INSPECTION		ACTION
1	VERIFY FREEZE FRAME DATA (MODE 2)/SNAPSHOT DATA	Yes	Go to the next step.
	HAS BEEN RECORDED	No	Record the FREEZE FRAME DATA (Mode
	Has the FREEZE FRAME DATA (Mode 2)/snapshot data been		2)/snapshot data on the repair order, then go
	recorded?		to the next step.
2	VERIFY RELATED SERVICE INFORMATION AVAILABILITY	Yes	Perform repair or diagnosis according to the
	Verify related Service Information availability.		available Service Information.
	• Is any related Service Information available?		If the vehicle is not repaired, go to the next
			step.
		No	Go to the next step.
3	VERIFY RELATED PENDING CODE AND/OR DTC	Yes	Go to the applicable PENDING CODE or
	Switch the ignition off, then ON (engine off).		DTC inspection.
	Perform the Pending Trouble Code Access Procedure and DTC		(See DTC P0703:00 [SKYACTIV-D 2.2].)
	Reading Procedure.	No	Go to the next step.
	(See ON-BOARD DIAGNOSTIC TEST [SKYACTIV-D 2.2].)		
	• Is the PENDING CODE/DTC P0703:00 also present?	.,	
4	INSPECT BRAKE SWITCH CONNECTOR CONDITION	Yes	Repair or replace the connector and/or
	Switch the ignition off. Discourse of the hards a switch approaches.	NI-	terminals, then go to Step 12.
	Disconnect the brake switch connector. Increase for poor composition (ough so demaged/sulled out pine).	No	Go to the next step.
	• Inspect for poor connection (such as damaged/pulled-out pins,		
	corrosion). • Is there any malfunction?		
5	INSPECT BRAKE SWITCH NO.1 POWER SUPPLY CIRCUIT	Yes	Go to the next step.
	FOR SHORT TO GROUND OR OPEN CIRCUIT	No	Inspect the MAIN 200 A fuse and STOP 10 A
	Verify that the brake switch connector is disconnected.	110	fuse.
	Measure the voltage at the brake switch terminal A (wiring)		If the fuse is blown:
	harness-side).		Repair or replace the wiring harness for
	• Is the voltage B+ ?		a possible short to ground.
	, and the second		Replace the malfunctioning fuse.
			If the fuse is deteriorated:
			 Replace the malfunctioning fuse.
			If all fuses are normal:
			Repair or replace the wiring harness for
			a possible open circuit.
			Go to Step 12.

STEP	INSPECTION		ACTION		
6	INSPECT BRAKE SWITCH NO.2 GROUND CIRCUIT FOR	Yes	Go to the next step.		
	OPEN CIRCUIT	No	Repair or replace the wiring harness for a		
	Verify that the brake switch connector is disconnected. Verify that the brake switch connector is disconnected.		possible open circuit, then go to Step 12.		
	Inspect for continuity between brake switch terminal B (wiring harness-side) and body ground.				
	• Is there continuity?				
7	INSPECT BRAKE SWITCH SIGNAL CIRCUIT FOR SHORT TO	Yes	If the short to ground circuit could be detected		
	GROUND		in the wiring harness:		
	Verify that the brake switch connector is disconnected.		Repair or replace the wiring harness for a		
	Inspect for continuity between the following terminals (wiring)		possible short to ground.		
	harness-side) and body ground: — Brake switch terminal D		If the short to ground circuit could not be		
	Brake switch terminal C Brake switch terminal C		detected in the wiring harness: • Replace the PCM (short to ground in the		
	• Is there continuity?		PCM internal circuit).		
	,		(See PCM REMOVAL/INSTALLATION		
			[SKYACTIV-D 2.2].)		
			Go to Step 12.		
	INCREAT BOM CONNECTOR CONDITION	No	Go to the next step.		
8	INSPECT PCM CONNECTOR CONDITION • Disconnect the PCM connector.	Yes	Repair or replace the connector and/or terminals, then go to Step 12.		
	Inspect for poor connection (such as damaged/pulled-out pins,	No	Go to the next step.		
	corrosion).	''	Co to the more step.		
	Is there any malfunction?				
9	INSPECT BRAKE SWITCH SIGNAL CIRCUIT FOR SHORT TO	Yes	Go to the next step.		
	POWER SUPPLY	No	Repair or replace the wiring harness for a		
	Verify that the brake switch and PCM connectors are disconnected.		possible short to power supply, then go to Step 12.		
	Switch the ignition ON (engine off).		Step 12.		
	Measure the voltage at the following terminals (wiring harness-				
	side):				
	Brake switch terminal D				
	Brake switch terminal C Is the voltage 0 V ?				
10	INSPECT BRAKE SWITCH SIGNAL CIRCUIT FOR OPEN	Yes	Go to the next step.		
	CIRCUIT	No	Repair or replace the wiring harness for a		
	Verify that the brake switch and PCM connectors are		possible open circuit, then go to Step 12.		
	disconnected.				
	Switch the ignition off. Inspect for continuity between the following terminals (wiring)				
	harness-side):				
	Brake switch terminal D—PCM terminal 2AA				
	Brake switch terminal C—PCM terminal 2AB				
	Is there continuity?				
11	INSPECT BRAKE SWITCH	Yes	Replace the brake switch, then go to the next		
	Inspect the brake switch. (See BRAKE SWITCH INSPECTION.)		step. (See BRAKE PEDAL REMOVAL/		
	• Is there any malfunction?		INSTALLATION [L.H.D.].)		
	and the same of th		(See BRAKE PEDAL REMOVAL/		
			INSTALLATION [R.H.D.].)		
		No	Go to the next step.		
12	VERIFY DTC TROUBLESHOOTING COMPLETED	Yes	Repeat the inspection from Step 1.		
	Always reconnect all disconnected connectors. Clear the DTC from the DCM memory using the M MDS.		If the malfunction recurs, replace the PCM. (See PCM REMOVAL/INSTALLATION		
	Clear the DTC from the PCM memory using the M-MDS. (See AFTER REPAIR PROCEDURE [SKYACTIV-D 2.2].)		SKYACTIV-D 2.2].)		
	• Start the engine and idle it.		Go to the next step.		
	Perform the following operations above 5 times.	No	Go to the next step.		
	1. Depress the brake pedal for 5 s .				
	2. Release the brake pedal for 5 s .				
	Perform the Pending Trouble Code Access Procedure. (See ON-BOARD DIAGNOSTIC TEST [SKYACTIV-D 2.2].)				
	• Is the PENDING CODE for this DTC present?				
	10 the FERDING CODE for this DTO present:				

STEP	INSPECTION		ACTION
13	VERIFY AFTER REPAIR PROCEDURE	Yes	Go to the applicable DTC inspection.
	Perform the "AFTER REPAIR PROCEDURE".		(See DTC TABLE [SKYACTIV-D 2.2].)
	(See AFTER REPAIR PROCEDURE [SKYACTIV-D 2.2].)	No	DTC troubleshooting completed.
	Are any DTCs present?		