

DTC P0703:00 [SKYACTIV-G 2.0] id0102h1706500

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DTC P0703:00	Brake switch input circuit problem
DETECTION CONDITION	<ul style="list-style-type: none"> The PCM monitors the input signal from the brake switch No.1. If the input signal does not change while following decelerating 8 times, the PCM determines that there is a brake switch No.1 input circuit problem. <p>MONITORING CONDITIONS</p> <ul style="list-style-type: none"> Vehicle speed: from above 30 km/h {19 mph} to 30 km/h {19 mph} or less Deceleration rate: exceeds 2.4 km/h {1.5 mph} per sec <p>Diagnostic support note</p> <ul style="list-style-type: none"> 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 first drive cycle. FREEZE FRAME DATA (Mode 2)/Snapshot data is available. The DTC is stored in the PCM memory.
FAIL-SAFE FUNCTION	<p>—</p>
POSSIBLE CAUSE	<p>Caution</p> <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> Brake switch connector or terminals malfunction Short to ground or open circuit in brake switch No.1 power supply circuit <ul style="list-style-type: none"> Short to ground in wiring harness between MAIN 200 A fuse 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 Short to ground in wiring harness between brake switch terminal D and PCM terminal 2G PCM connector or terminals malfunction Short to power supply in wiring harness between brake switch terminal D and PCM terminal 2G Open circuit in wiring harness between brake switch terminal D and PCM terminal 2G Brake switch No.1 malfunction PCM malfunction

BATTERY

④ MAIN 200 A **④** STOP 10 A **③** **⑧** BRAKE SWITCH NO.1 (BRAKE SWITCH) **③** **⑤** **⑦** **⑧** **⑥** **PCM**

④ **④** **③** **⑧** **③** **⑤** **⑦** **⑧** **⑥**

PCM

2G

BRAKE SWITCH WIRING HARNESS-SIDE CONNECTOR

PCM WIRING HARNESS-SIDE CONNECTOR

2BE	2AZ	2AU	2AP	2AK	2AE	2AA	2W	2S	2O	2K	2G	2C
2BF	2BA	2AV	2AQ	2AL	2AF	2AB	2X	2T	2P	2L	2H	2D
2BG	2BB	2AW	2AR	2AM								
2BH	2BC	2AX	2AS	2AN	2AI	2AG	2AC	2Y	2U	2Q	2M	2I
	2BD	2AY	2AT	2AO	2AJ	2AH	2AD	2Z	2V	2R	2N	2J
												2F
												2B

D C B A

Diagnostic Procedure

Diagnostic Procedure			
STEP	INSPECTION		ACTION
1	VERIFY FREEZE FRAME DATA (MODE 2)/ SNAPSHOT DATA HAS BEEN RECORDED • Has the FREEZE FRAME DATA (Mode 2)/ snapshot data been recorded?	Yes	Go to the next step.
		No	Record the FREEZE FRAME DATA (Mode 2)/snapshot data on the repair order, then go to the next step.

STEP	INSPECTION		ACTION
2	VERIFY RELATED SERVICE INFORMATION AVAILABILITY <ul style="list-style-type: none"> • Verify related Service Information availability. • Is any related Service Information available? 	Yes	Perform repair or diagnosis according to the available Service Information.
		No	Go to the next step.
3	INSPECT BRAKE SWITCH CONNECTOR CONDITION <ul style="list-style-type: none"> • Switch the ignition to off. • Disconnect the brake switch connector. • Inspect for poor connection (such as damaged/pulled-out pins, corrosion). • Is there any malfunction? 	Yes	Repair or replace the connector and/or terminals, then go to Step 9.
		No	Go to the next step.
4	INSPECT BRAKE SWITCH NO.1 POWER SUPPLY CIRCUIT FOR SHORT TO GROUND OR OPEN CIRCUIT <ul style="list-style-type: none"> • Verify that the brake switch connector is disconnected. • Measure the voltage at the brake switch terminal A (wiring harness-side). • Is the voltage B+? 	Yes	Go to the next step.
		No	Inspect the MAIN 200 A fuse and STOP 10 A fuse. <ul style="list-style-type: none"> • If the fuse is blown: <ul style="list-style-type: none"> — Repair or replace the wiring harness for a possible short to ground. — Replace the malfunctioning fuse. • If the fuse is deteriorated: <ul style="list-style-type: none"> — Replace the malfunctioning fuse. • If all fuses are normal: <ul style="list-style-type: none"> — Repair or replace the wiring harness for a possible open circuit. Go to Step 9.
5	INSPECT BRAKE SWITCH NO.1 SIGNAL CIRCUIT FOR SHORT TO GROUND <ul style="list-style-type: none"> • Verify that the brake switch connector is disconnected. • Inspect for continuity between brake switch terminal D (wiring harness-side) and body ground. • Is there continuity? 	Yes	If the short to ground circuit could be detected in the wiring harness: <ul style="list-style-type: none"> • Repair or replace the wiring harness for a possible short to ground. If the short to ground circuit could not be detected in the wiring harness: <ul style="list-style-type: none"> • Replace the PCM (short to ground in the PCM internal circuit). (See PCM REMOVAL/INSTALLATION [SKYACTIV-G 2.0].) Go to Step 9.
		No	Go to the next step.
6	INSPECT PCM CONNECTOR CONDITION <ul style="list-style-type: none"> • Disconnect the PCM connector. • Inspect for poor connection (such as damaged/pulled-out pins, corrosion). • Is there any malfunction? 	Yes	Repair or replace the connector and/or terminals, then go to Step 9.
		No	Go to the next step.
7	INSPECT BRAKE SWITCH NO.1 SIGNAL CIRCUIT FOR SHORT TO POWER SUPPLY <ul style="list-style-type: none"> • Verify that the brake switch and PCM connectors are disconnected. • Switch the ignition ON (engine off or on). • Measure the voltage at the brake switch terminal D (wiring harness-side). • Is the voltage 0 V? 	Yes	Go to the next step.
		No	Repair or replace the wiring harness for a possible short to power supply, then go to Step 9.
8	INSPECT BRAKE SWITCH NO.1 SIGNAL CIRCUIT FOR OPEN CIRCUIT <ul style="list-style-type: none"> • Verify that the brake switch and PCM connectors are disconnected. • Switch the ignition to off. • Inspect for continuity between brake switch terminal D (wiring harness-side) and PCM terminal 2G (wiring harness-side). • Is there continuity? 	Yes	Replace the brake switch, then go to the next step. (See BRAKE PEDAL REMOVAL/INSTALLATION [R.H.D.].) (See BRAKE PEDAL REMOVAL/INSTALLATION [L.H.D.].)
		No	Repair or replace the wiring harness for a possible open circuit, then go to the next step.

STEP	INSPECTION	ACTION	
9	VERIFY DTC TROUBLESHOOTING COMPLETED <ul style="list-style-type: none"> • Make sure to reconnect all disconnected connectors. • Clear the DTC from the PCM memory using the M-MDS. (See AFTER REPAIR PROCEDURE [SKYACTIV-G 2.0].) • Drive the vehicle. • Repeat deceleration 8 times under both of the following conditions: <ul style="list-style-type: none"> — Vehicle speed: from above 30 km/h {19 mph} to 30 km/h {19 mph} or less — Deceleration rate: exceeds 2.4 km/h {1.5 mph} per sec • Perform the Pending Trouble Code Access Procedure. (See ON-BOARD DIAGNOSTIC TEST [SKYACTIV-G 2.0].) • Is the PENDING CODE for this DTC present? 	Yes	Repeat the inspection from Step 1. • If the malfunction recurs, replace the PCM. (See PCM REMOVAL/INSTALLATION [SKYACTIV-G 2.0].) Go to the next step.
		No	Go to the next step.
10	VERIFY AFTER REPAIR PROCEDURE <ul style="list-style-type: none"> • Perform the "AFTER REPAIR PROCEDURE". (See AFTER REPAIR PROCEDURE [SKYACTIV-G 2.0].) • Are any DTCs present? 	Yes	Go to the applicable DTC inspection. (See DTC TABLE [SKYACTIV-G 2.0].)
		No	DTC troubleshooting completed.