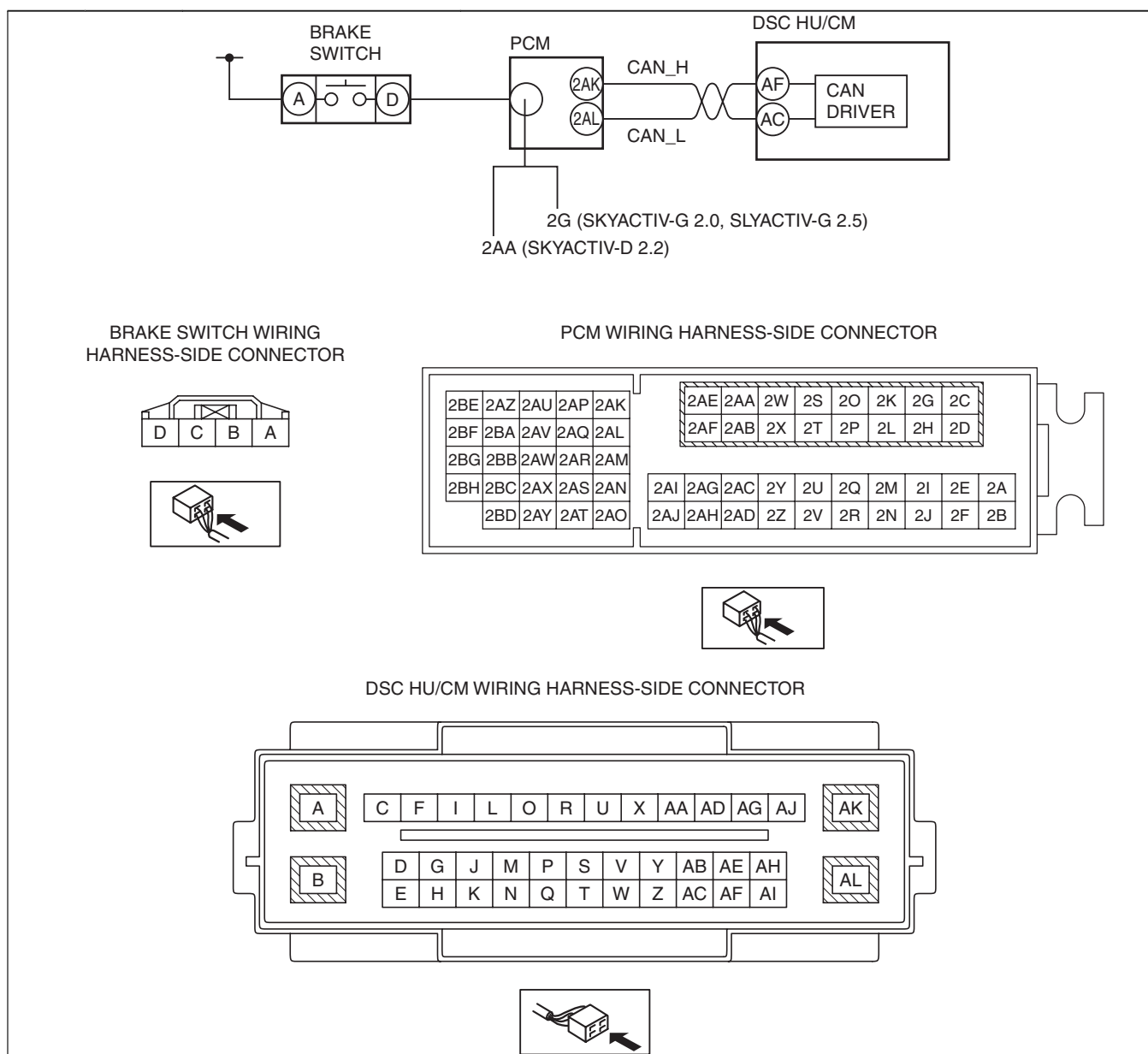


DTC C0023:62/C0040:64 [DYNAMIC STABILITY CONTROL (DSC)]

id0402b2906400

DTC	C0023:62, C0040:64	Brake switch
DETECTION CONDITION	<ul style="list-style-type: none"> • C0023:62 <ul style="list-style-type: none"> — Brake switch ON signal is not input even though the control module determines vehicle deceleration. • C0040:64 <ul style="list-style-type: none"> — Brake switch ON signal is input for 6 min or more when driving at a vehicle speed of 20 km/h {12 mph} or more. — A brake switch ON signal is not input when the brake fluid pressure sensor signal reaches the specified value. 	
FAIL-SAFE FUNCTION	<ul style="list-style-type: none"> • C0023:62 <ul style="list-style-type: none"> — Illuminates the master warning light. — Inhibits the smart city brake support (SCBS) control. • C0040:64 <ul style="list-style-type: none"> — Illuminates the TCS/DSC indicator light and master warning light^{*1}. — Tire pressure monitoring system warning light illuminates after flashes. — Inhibits the brake assist control, vehicle roll prevention function^{*2}, hill launch assist (HLA), TPMS, and smart city brake support (SCBS)^{*1} controls. <p>^{*1}: Vehicles with smart city brake support (SCBS)</p> <p>^{*2}: ATX only</p>	
POSSIBLE CAUSE	<ul style="list-style-type: none"> • Open or short circuit in wiring harness between the brake switch and PCM terminal 2G (SKYACTIV-G 2.0, SKYACTIV-G 2.5) • Open or short circuit in wiring harness between the brake switch and PCM terminal 2AA (SKYACTIV-D 2.2) • Brake switch malfunction • Poor connection at connectors (female terminal) 	



Diagnostic procedure

STEP	INSPECTION	ACTION
1	VERIFY OPEN OR SHORT CIRCUIT IN BRAKE SWITCH SIGNAL <ul style="list-style-type: none"> Switch the ignition ON (engine off). Measure the voltage between the PCM connector terminal 2G (vehicle harness-side) and body ground when the brake pedal is depressed and released. Voltage <ul style="list-style-type: none"> Brake pedal depressed: B+ Brake pedal released: 1 V or less Is the voltage normal? 	Yes: Go to Step 5. No: If it is B+ under any condition, then go to the next step. If it is 1 V or less under any condition, then go to Step 3.
2	INSPECT BRAKE SWITCH SIGNAL FOR SHORT TO POWER SUPPLY CIRCUIT <ul style="list-style-type: none"> Disconnect the brake switch connector. Measure voltage between the brake switch connector terminal D (vehicle harness-side) and body ground. Is the voltage 1 V or less? 	Yes: Go to Step 4. No: Repair or replace the wiring harness between the PCM and brake switch, then go to Step 5

STEP	INSPECTION		ACTION
3	INSPECT BRAKE SWITCH SIGNAL FOR OPEN CIRCUIT <ul style="list-style-type: none"> • Disconnect the PCM connectors. • Disconnect the brake switch connector. • Inspect continuity between the PCM and brake switch as follows. <ul style="list-style-type: none"> — SKYACTIV-G 2.0, SKYACTIV-G 2.5 <ul style="list-style-type: none"> • PCM connector terminal 2G (vehicle harness-side) and brake switch connector terminal D (vehicle harness-side) — SKYACTIV-D 2.2 <ul style="list-style-type: none"> • PCM connector terminal 2AA (vehicle harness-side) and brake switch connector terminal D (vehicle harness-side) • Is there continuity? 	Yes	Go to the next step.
		No	Repair or replace the wiring harness between the PCM and brake switch, then go to Step 5.
4	INSPECT BRAKE SWITCH <ul style="list-style-type: none"> • Inspect the brake switch. (See BRAKE SWITCH INSPECTION.) • Is the brake switch normal? 	Yes	Go to the next step.
		No	Replace the brake switch, then go to the next step. (See BRAKE PEDAL REMOVAL/INSTALLATION [L.H.D.].) (See BRAKE PEDAL REMOVAL/INSTALLATION [R.H.D.].)
5	VERIFY THAT THE SAME DTC IS NOT PRESENT <ul style="list-style-type: none"> • Reconnect all disconnected connectors. • Clear the DTCs from the memory. (See ON-BOARD DIAGNOSIS [DYNAMIC STABILITY CONTROL (DSC)].) • Start the engine and drive the vehicle at 20 km/h {12 mph} or more. • Are the same DTCs present? 	Yes	Repeat the inspection from Step 1.
		No	Go to the next step.
6	VERIFY THAT NO OTHER DTCS ARE PRESENT <ul style="list-style-type: none"> • Are any other DTCs output? 	Yes	Go to the applicable DTC inspection. (See ON-BOARD DIAGNOSIS [DYNAMIC STABILITY CONTROL (DSC)].)
		No	DTC troubleshooting completed.