DTC	C0226/21	SFR SOLENOID CIRCUIT

DTC	C0236/22	SFL SOLENOID CIRCUIT

DTC	C0246/23	SRR SOLENOID CIRCUIT

DTC	C0256/24	SRL SOLENOID CIRCUIT

DTC	C1225/25	SMC SOLENOID CIRCUIT

DTC	C1227/27	SRC SOLENOID CIRCUIT

CIRCUIT DESCRIPTION

This solenoid comes on when signals are received from the ECU and controls the pressure acting on the wheel cylinders, thus the brake force is controlled.

DTC No.	DTC Detection Condition	Trouble Area
C0226/21	Open or short circuit for SFRH or SFRR circuit continues for 0.05 sec. or more at normal power voltage condition	• ABS actuator • SFRH or SFRR circuit
C0236/22	Open or short circuit for SFLH or SFLR circuit continues for 0.05 sec. or more at normal power voltage condition	• ABS actuator • SFLH or SFLR circuit
C0246/23	Open or short circuit for SRRH or SRRR circuit continues for 0.05 sec. or more at normal power voltage condition	• ABS actuator • SRRH or SRRR circuit
C0256/24	Open or short circuit for SRLH or SRLR circuit continues for 0.05 sec. or more at normal power voltage condition	• ABS actuator • SRLH or SRLR circuit
C1225/25	Open or short circuit for SMCF or SMCR circuit continues for 0.05 sec. or more at normal power voltage condition	• ABS actuator • SMCF or SMCR circuit
C1227/27	Open or short circuit for SRCF or SRCR circuit continues for 0.05 sec. or more at normal power voltage condition	• ABS actuator • SRCF or SRCR circuit

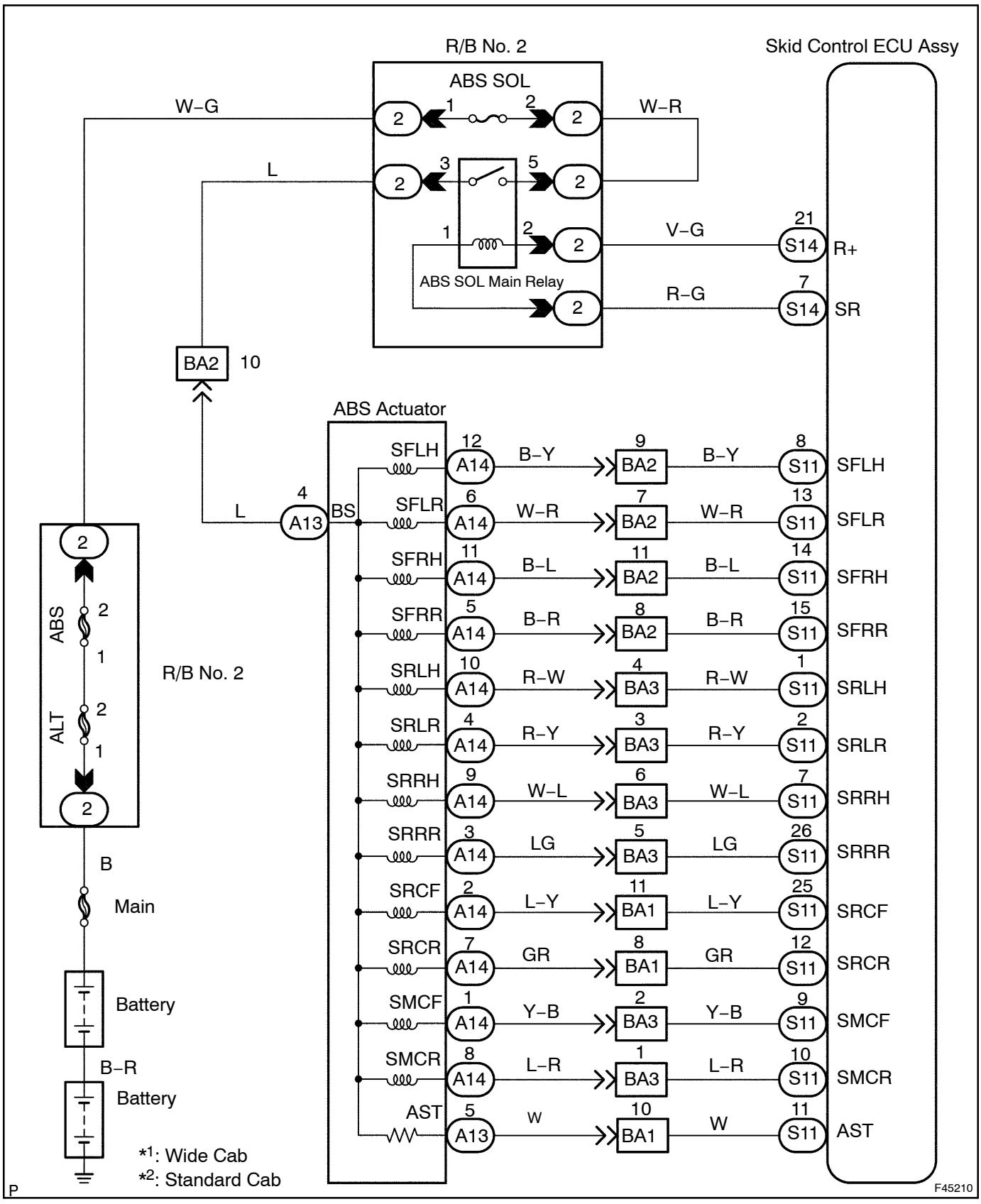
Fail–safe function:

If any trouble occurs in the actuator solenoid circuit, the ECU will cut off the current to the ABS solenoid relay and prohibit the ABS controls and BRAKE ASSIST.

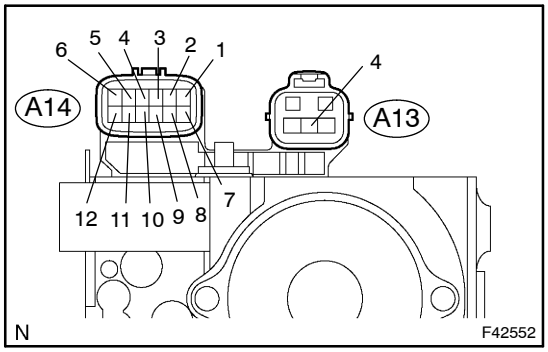
HINT:

If the brake pedal is depressed firmly, the brake force may be lowered.

WIRING DIAGRAM



1	INSPECT ABS ACTUATOR ASSY



(a) Disconnect the 2 connectors from the ABS actuator.
(b) Check the continuity between terminals A13–4 and A14–1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12 of the ABS actuator.
Standard:
Continuity
(c) Measure the resistance between terminal A14 –1, 8, 9, 10, 11, 12 and the A13–4 of the ABS actuator.
Standard:
Resistance: 31.7 – 35.7 Ω
(d) Measure the resistance between terminal A14–3, 4, 5, 6 and terminal A13–4 of the ABS actuator.
Standard:
Resistance: 15.9 – 17.9 Ω
(e) Measure the resistance between terminal A14–2, 7 and terminal A13–4 of the ABS actuator.
Standard:
Resistance: 20.5 – 23.5 Ω

HINT:
Resistance of each solenoid.

NG	REPLACE ABS ACTUATOR ASSY

OK

2	CHECK WIRE HARNESS (ABS ACTUATOR ⇔ SKID CONTROL ECU ASSY)

(a) Check for open and short circuit in harness and connector between the S11 ECU and A13/A14actuator connector (See page 01–27).

NG	REPAIR OR REPLACE HARNESS AND CONNECTOR

OK

3	CHECK SKID CONTROL ECU ASSY (SR TERMINAL VOLTAGE)

(a) Remove the skid control ECU with the connectors still connected.
(b) Turn the ignition switch ON measure the voltage between terminal of the S14 ECU connector and body ground.
Standard: 2 V or less

NG	CHECK AND REPAIR HARNESS AND ABS SOLENOID RELAY

OK

4	RECONFIRM DTC

(a) Check DTC on page 05–205.

HINT:

After erasing the DTC and driving the vehicle more than 7 km/h (4 mph), Check for DTC.

A	Malfunction Code
B	Normal Code

B → NO PROBLEM

A

5	CHECK CONTACT CONDITION (EACH CONNECTION)

NG → REPAIR OR REPLACE HARNESS AND CONNECTOR

OK

CHECK AND REPLACE SKID CONTROL ECU ASSY (See page 01–27)