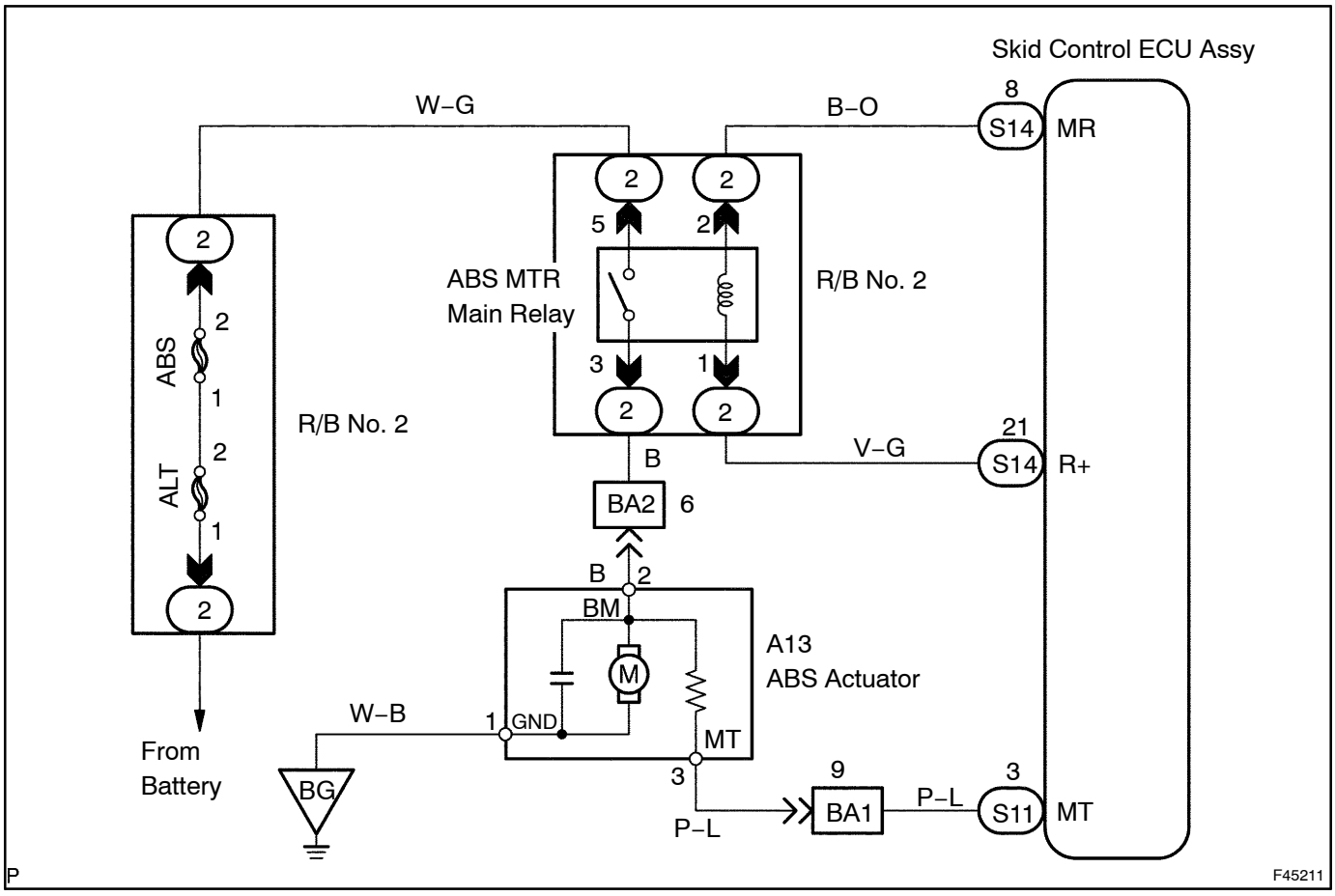
DTC	C1251/51	PUMP MOTOR IS LOCKED/OPEN CIRCUIT IN PUMP MOTOR GROUND

CIRCUIT DESCRIPTION

DTC No.	DTC Detection Condition	Trouble Area
C1251/51	Actuator pump motor does not operate correctly	• ABS actuator • ABS actuator circuit

Fail–safe function:
If any trouble occurs in the ABS pump motor, 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



INSPECTION PROCEDURE

HINT:
Start the inspection from step 1 when using the hand–held tester and start from step 2 when not using the hand–held tester.

1	PERFORM ACTIVE TEST BY HAND–HELD TESTER (ABS PUMP MOTOR OPERATION)

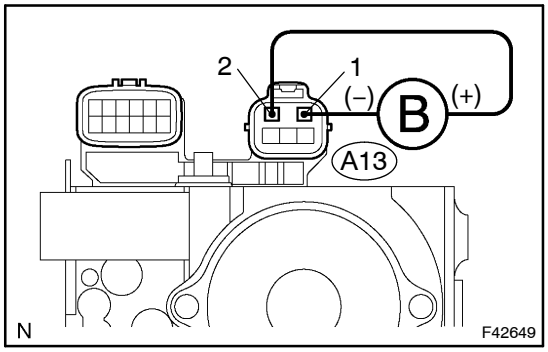
(a) Select the item ”ABS MOT RELAY” in the ACTIVE TEST and operate the ABS motor relay using the hand–held tester.
(b) Check the operation sound of the ABS pump motor using the hand–held tester.
Standard:
The operation sound of the ABS pump motor is heard.

OK → **Go to step 5**

NG

CHECK AND REPLACE ABS ACTUATOR ASSY

2	INSPECT ABS ACTUATOR ASSY (ABS PUMP MOTOR OPERATION)



(a) Disconnect the A13 connector.
(b) Connect the positive (+) lead to terminal BM (A13–2) and the negative (–) lead to terminal GND (A13–1) of the A13 actuator connector, and then check that the ABS pump motor is operating.
Standard:
The operation sound of the ABS pump motor is be heard.

NG → **CHECK AND REPLACE ABS ACTUATOR ASSY**

OK

3	CHECK WIRE HARNESS (ABS MOTOR RELAY ⇔ ABS ACTUATOR ⇔ SKID CONTROL ECU ASSY)

(a) Check for open and short circuit in the harness and connector between the R/B No.2 motor relay, A13 actuator and S11/S14 ECU connectors (See page 01–27).

NG → **REPAIR OR REPLACE HARNESS AND CONNECTOR**

OK

4	CHECK CONTINUITY (ABS ACTUATOR ⇔ BODY GROUND)

(a) Measure the resistance between terminals GND (A13–1) of the A13 actuator connector and the body ground.
Standard: 1 Ω or less

NG → **REPAIR OR REPLACE HARNESS AND CONNECTOR**

OK

5	RECONFIRM DTC

(a) Check the DTC (See page 05–205).

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

A	Normal Code
B	Malfunction Code

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

A

NO PROBLEM