DIAIK–02

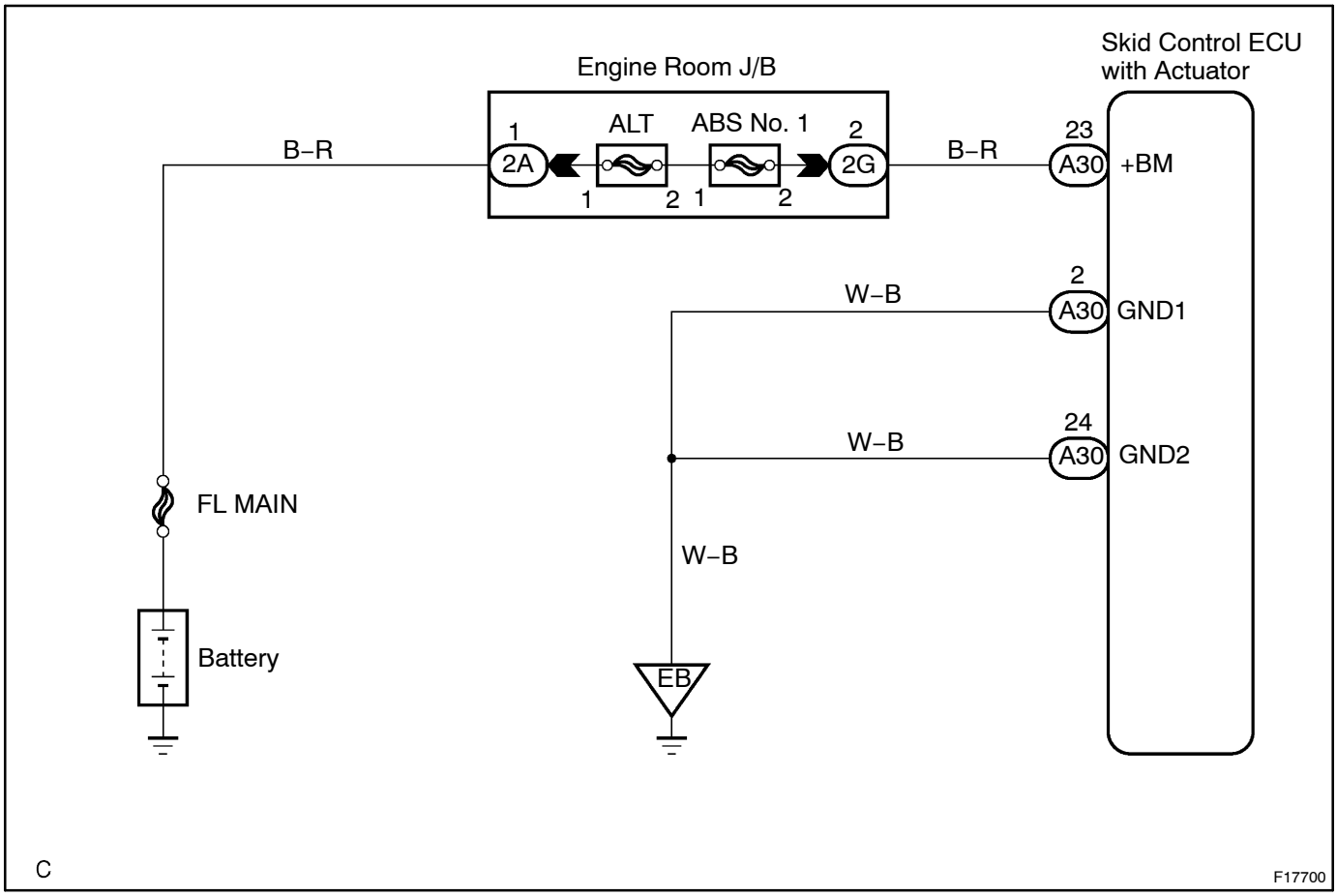
DTC	C0273/13, C0274/14	ABS Motor Relay Circuit

CIRCUIT DESCRIPTION

The ABS motor relay supplies power to the ABS pump motor. While the ABS is activated, ECU switches the ABS motor relay ON and operates the ABS pump motor.

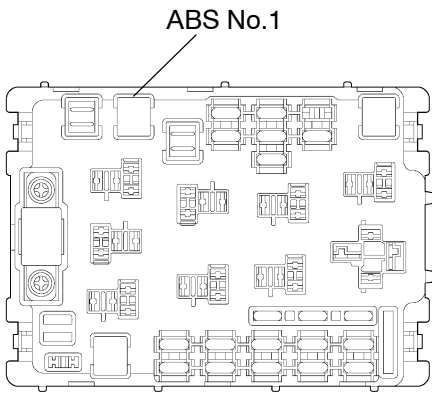
DTC No.	DTC Detection Condition	Trouble Area
C0273/13	• IG1 terminal voltage is from 9.5 V to 18.5 V and the relay contact OFF condition remains for 0.2 sec. or more, despite turning the relay ON during the initial check or while ABS is in operation. • IG1 terminal voltage decreases in 9.5 V or less and the relay contact OFF condition remains for 0.2 sec. or more, despite turning the relay ON during the initial check or while ABS is in operation.	• ABS actuator • ABS motor relay • ABS motor relay circuit
C0274/14	The relay contact ON condition continues for 4 sec. when the relay is OFF.	

WIRING DIAGRAM



INSPECTION PROCEDURE

1	Check ABS No.1 fuse.



PREPARATION:
Remove the ABS No.1 fuse from Engine Room J/B.
CHECK:
Check continuity of the ABS No.1 fuse.
OK:
Continuity

NG → **Check for short circuit in all the harness and components connected to ABS No.1 fuse (See attached wiring diagram).**

OK

2	Check the DTC once more.

PREPARATION:
(a) Clear the DTC (See page DI–3).
(b) Turn the ignition switch to OFF.
CHECK:
Turn the ignition switch to ON, and check that the same DTC is stored in the memory.

YES → **Replace ABS Actuator Assembly.**

NO

3	Check ABS motor relay operation.

PREPARATION:

(a) Connect the hand–held tester to the DLC3.
(b) Turn the ignition switch to ON and push the hand–held tester main switch ON.
(c) Select the ACTIVE TEST mode on the hand–held tester.

CHECK:

Check the operation sound of the ABS motor individually when operating it with the hand–held tester.

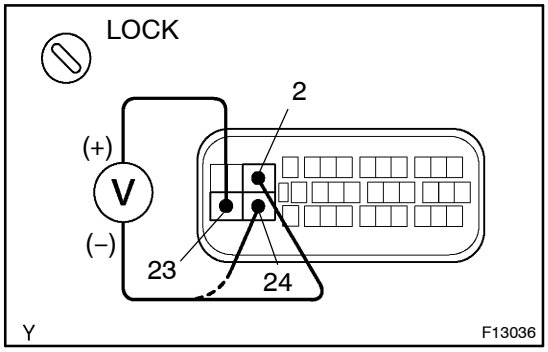
OK:

The operation sound of the ABS motor should be heard.

NG → **Check and replace Skid Control ECU (ABS Actuator Assembly). (See page IN–30)**

OK

4	Check voltage between terminals +BM (23) and GND (2, 24) of Skid Control ECU connector.



PREPARATION:

Disconnect the Skid Control ECU connector.

CHECK:

Measure the voltage between terminal 23 and 2, 24 of the Skid Control ECU harness side connector.

OK:

Voltage: 10 – 14 V

NG → **Check and repair harness or connector.**

OK

If the same code is still output after the DTC is deleted, check the contact condition of each connection. If the connection is normal, the ECU may be defective.