DTC	C0273/13	OPEN CIRCUIT IN ABS MOTOR RELAY CIRCUIT

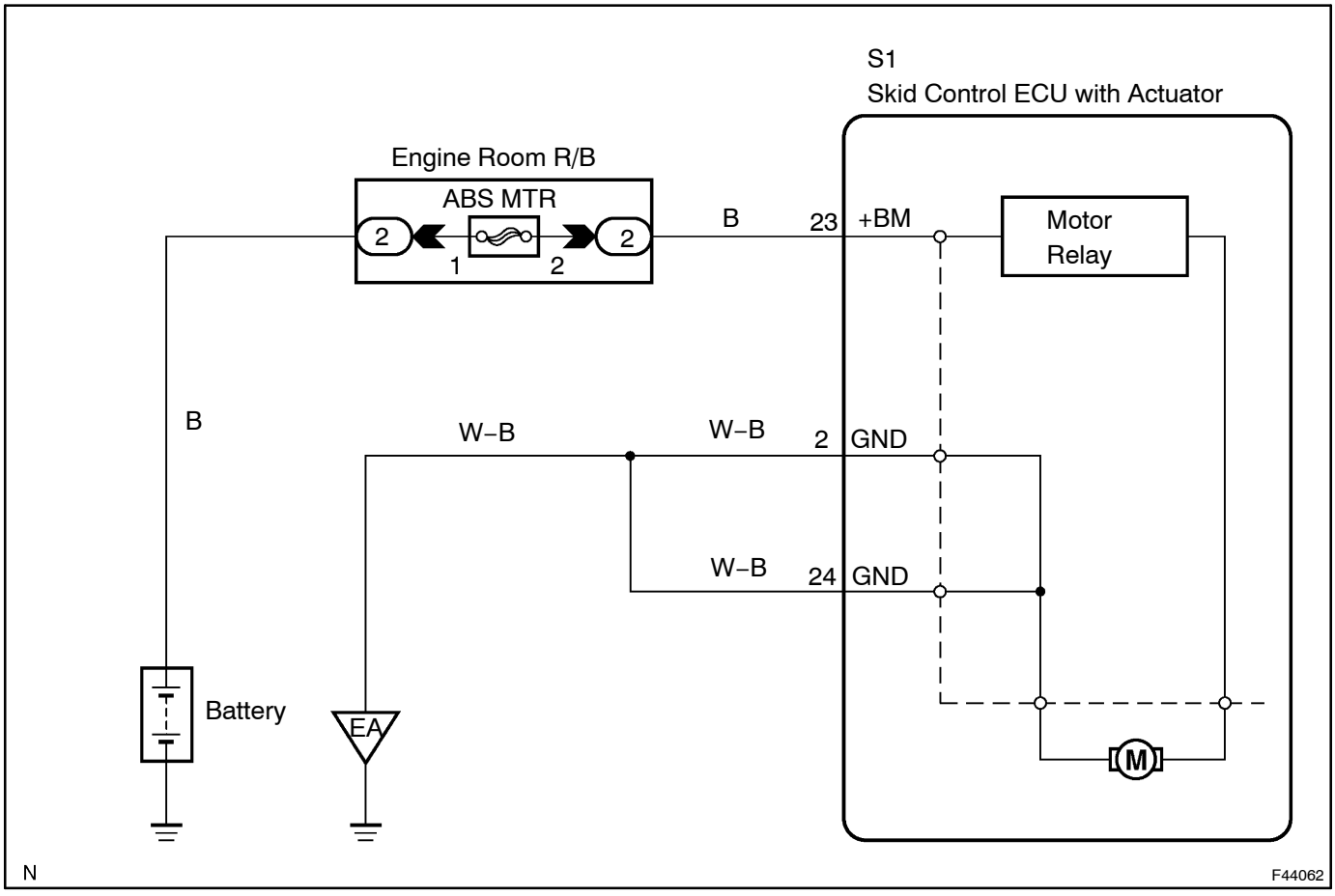
DTC	C0274/14	B+ SHORT CIRCUIT IN ABS MOTOR RELAY CIRCUIT

CIRCUIT DESCRIPTION

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

DTC No.	DTC Detection Condition	Trouble Area
C0273/13	Condition 1. or 2. continues for 0.2 sec. or more: 1. ABS ECU terminal IG1 voltage is 9.5 V to 18.5 V, and when motor relay is ON in the midst of initial check or in operation of ABS control.*1 2. Motor relay is ON driving in the midst of initial check or in operation of ABS control, ABS ECU terminal IG1 voltage becomes 9.5 V or less.*2	• Fusible link block • ABS No.3 fuse • ABS motor relay • ABS motor relay circuit
C0274/14	Condition below continues for 4 sec. or more: When the motor relay is OFF, there is open circuit in MT terminal of ABS ECU.	

WIRING DIAGRAM



INSPECTION PROCEDURE

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

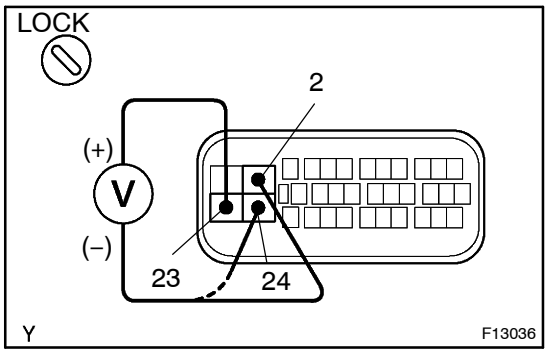
1	PERFORM ACTIVE TEST BY HAND–HELD TESTER

(a) Select the item "ABS MOT RELAY" in the ACTIVE TEST and operate the ABS motor relay on the hand–held tester.
(b) Check the operation sound of the ABS motor relay when operating it with the hand–held tester.
OK:
The operation sound of the pump motor should be heard.

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

OK

2	CHECK TERMINAL VOLTAGE(+BM AND GND OF SKID CONTROL ECU)



(a) Disconnect the skid control ECU connector.
(b) Measure the voltage between terminals 23 and 2 or 24 of the skid control ECU connector.
OK: 11 – 14 V

NG → **CHECK AND REPAIR HARNESS AND CONNECTOR**

OK

IF THE SAME CODE IS STILL OUTPUT AFTER THE DTC IS DELETED, CHECK THE CONTACT THE CONDITION OF EACH CONNECTION