DTC	C0273/13	OPEN CIRCUIT IN ABS MOTOR RELAY CIRCUIT

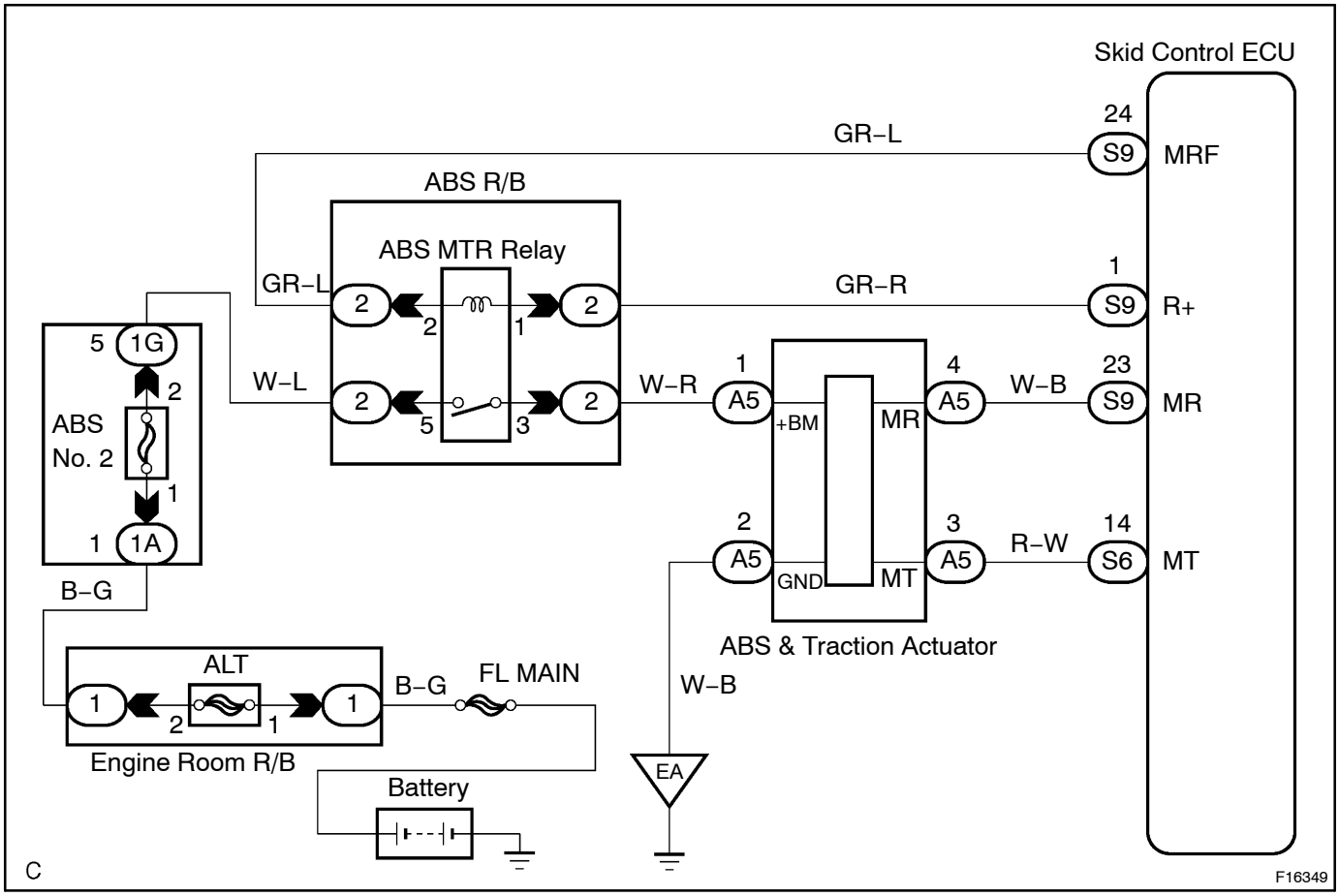
DTC	C0274/14	B+ SHORT CIRCUIT IN ABS MOTOR RELAY CIRCUIT

CIRCUIT DESCRIPTION

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

DTC No.	DTC Detecting Condition	Trouble Area
C0273/13	With IG1 voltage 10V or below during initial check or ABS control, pump motor relay is turned ON, and relay contact is not ON for 0.2 sec. or longer.	• ABS motor relay • ABS motor relay circuit
C0274/14	When pump motor relay is turned OFF, relay contact is ON for 3 sec. or longer.	

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 hand–held tester.

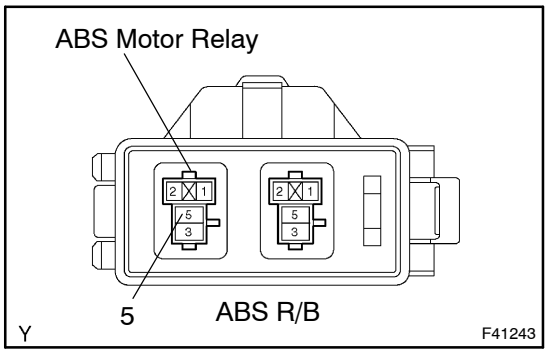
1	PERFORM ACTIVE TEST BY HAND–HELD TESTER(ABS MOTOR RELAY OPERATION)

(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.

OK > **Go to step 4**

NG

2	CHECK TERMINAL VOLTAGE(ABS MOTOR RELAY 5 TERMINAL OF ABS R/B)

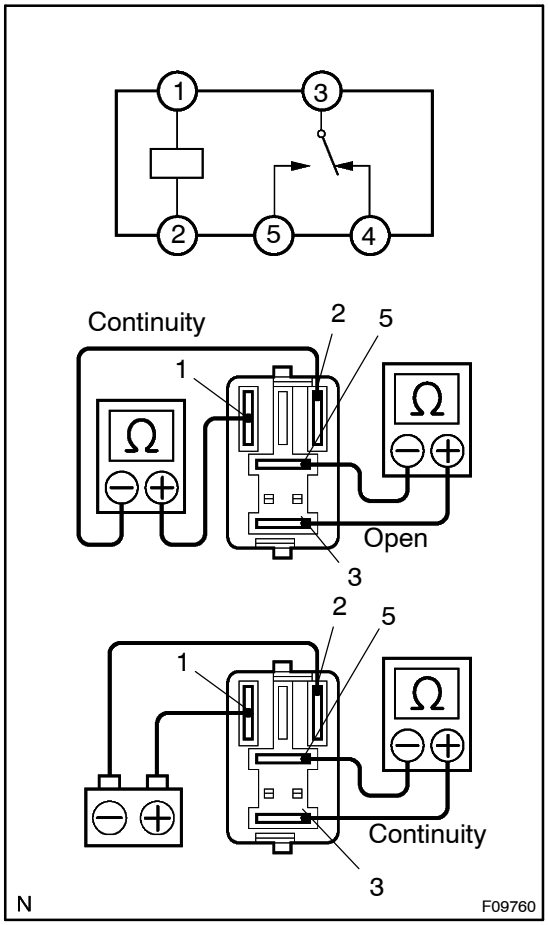


(a) Remove the ABS motor relay from ABS R/B.
(b) Measure voltage between terminal 5 of ABS R/B (for ABS motor relay) and body ground.
OK: 10 – 14 V

NG > **Go to step 5**

OK

3	INSPECT ABS MOTER RELAY



(a) Check continuity between each terminal of ABS motor relay.
OK:

Terminals 1 and 2	Continuity (Reference value 62 Ω)
Terminals 3 and 5	Open

(b) Apply battery positive voltage between terminals 1 and 2.
(c) Check continuity between terminals 3 and 5 of ABS motor relay.
OK:

Terminals 3 and 5	Continuity

NG → **REPLACE ABS MOTER RELAY**

OK

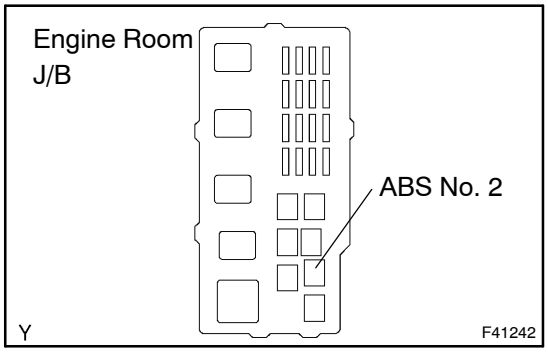
4	CHECK HARNESS AND CONNECTOR(ABS MOTOR RELAY – SKID CONTROL ECU ASSY)(See page 01–31)

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

OK

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

5	INSPECT FUSE(ABS NO.2 OF ENGINE ROOM J/B)



(a) Remove ABS No. 2 fuse from the engine room J/B.
(b) Check continuity of fuse.
OK: Continuity

NG → **REPLACE FUSE**

OK

CHECK AND REPAIR HARNESS AND CONNECTOR