

DTC	13, 14	ABS Motor Relay Circuit
------------	---------------	--------------------------------

CIRCUIT DESCRIPTION

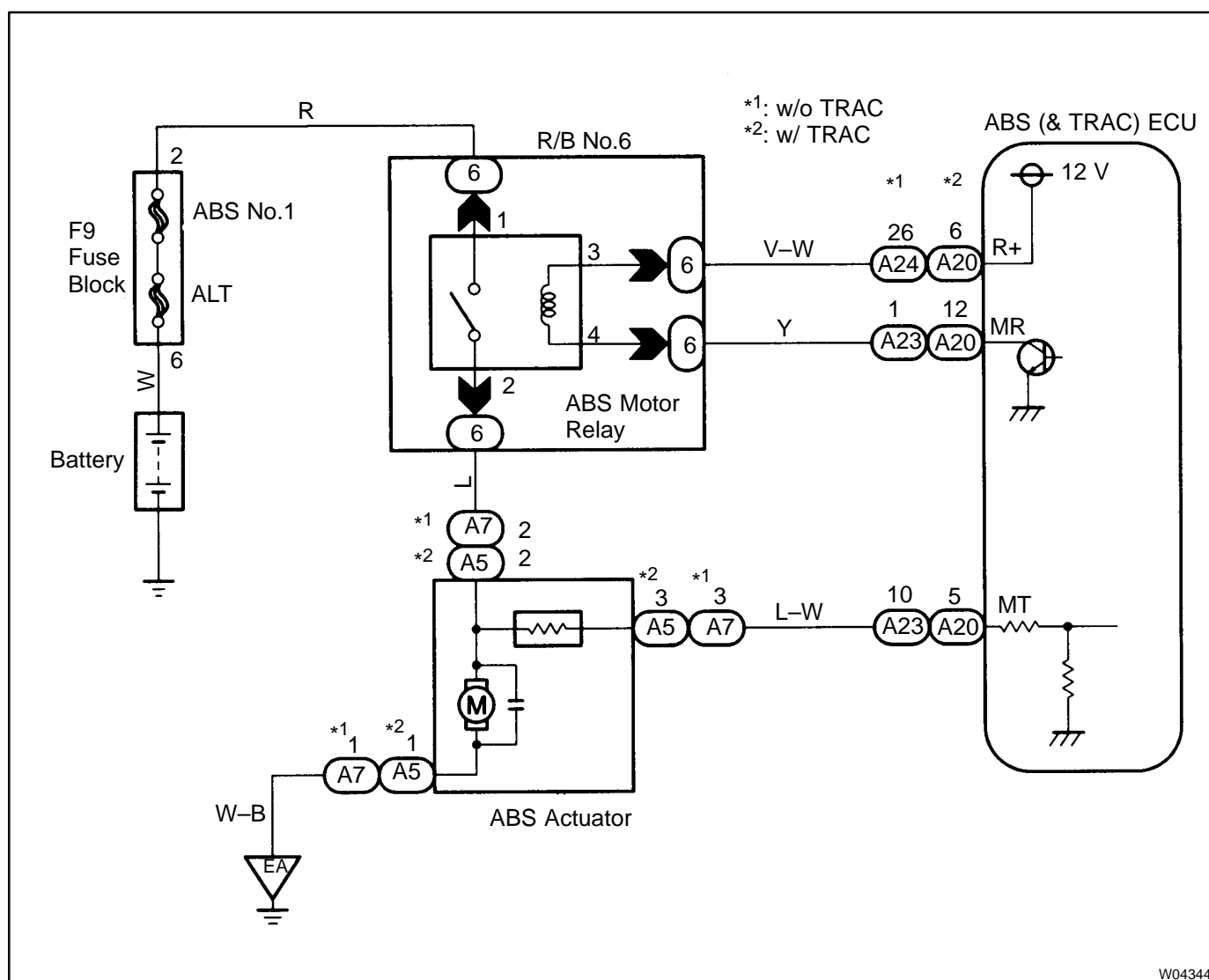
This ABS motor relay supplies power to the ABS pump motor. While the ABS (or TRAC) is activate the ECU switches the motor relay ON and operates the ABS pump motor.

DTC No.	DTC Detecting Condition	Trouble Area
13	Conditions (1) and (2) continued for 0.2 sec. or more: (1) ABS motor relay terminal (MR) voltage: Below 1.5V (2) Motor relay monitor terminal (MT) voltage: 0 V	<ul style="list-style-type: none"> • ABS motor relay • Open or short in ABS motor relay circuit
14	Conditions (1) and (2) continued for 4 sec. or more: (1) ABS motor relay terminal (MR) voltage: Battery positive voltage (2) Motor relay monitor terminal (MT) voltage: Battery positive voltage	<ul style="list-style-type: none"> • ABS motor relay • B+ short in ABS motor relay circuit

Fail safe function:

If trouble occurs in the ABS motor relay circuit, the ECU cuts off the current to the ABS solenoid relay and prohibits ABS control.

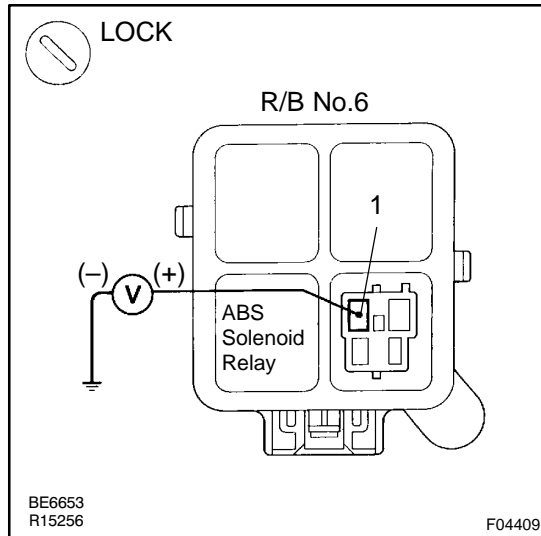
WIRING DIAGRAM



W04344

INSPECTION PROCEDURE

1	Check voltage between terminal 1 of R/B No.6 (for ABS motor relay) and ground.
---	--



PREPARATION:

Remove ABS motor relay from R/B No.6.

CHECK:

Measure voltage between terminal 1 of R/B No.6 (for ABS motor relay) and body ground.

OK:

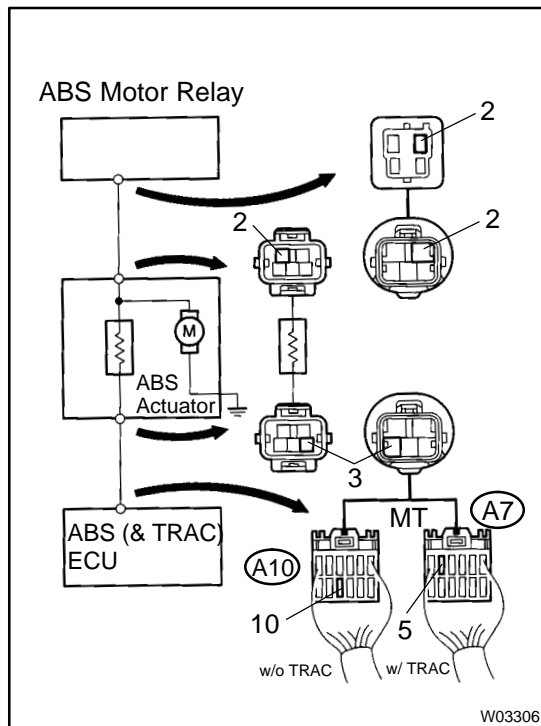
Resistance: 10 – 14 V

NG

Check and repair harness or connector.

OK

2 Check continuity between terminal 2 of R/B No.6 (for ABS motor relay) and terminal MT of ABS (& TRAC) ECU.



PREPARATION:

Disconnect the 2 connectors from ABS actuator.

CHECK:

Check continuity between terminal 2 of R/B No.6 (for ABS motor relay) and terminal MT of ABS (& TRAC) ECU.

OK:

Continuity

HINT:

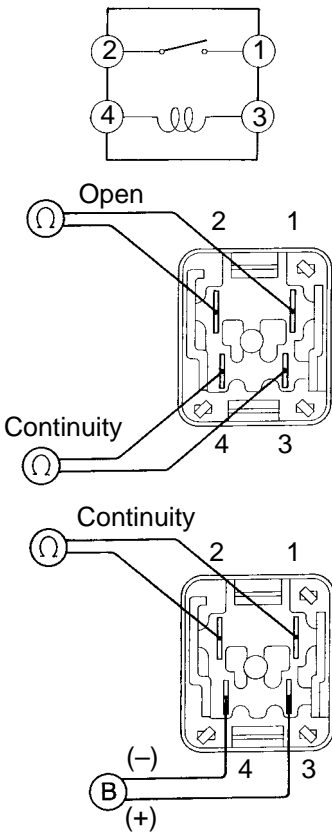
There is a resistance of 26 – 40 Ω between terminals 2 and 3 of ABS actuator.

NG

Repair or replace harness or ABS actuator.

OK

3 Check ABS motor relay.



BE1840
R15257
R15258

F00044

PREPARATION:

Remove motor relay from R/B No.6.

CHECK:

Check continuity between each terminal of ABS motor relay.

OK:

Terminals 3 and 4	Continuity (Reference value 62 Ω)
Terminals 1 and 2	Open

CHECK:

- (a) Apply battery positive voltage between terminals 3 and 4.
- (b) Check continuity between terminals of ABS motor relay.

OK:

Terminals 1 and 2	Continuity
-------------------	------------

NG

Replace ABS control relay.

OK

- | | |
|----------|---|
| 4 | Check for open and short in harness and connector between ABS motor relay and ABS (& TRAC) ECU (See page IN-29). |
|----------|---|

NG

Repair or replace 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 connections are normal, the ECU may be defective.**