

|            |                   |                                                       |
|------------|-------------------|-------------------------------------------------------|
| <b>DTC</b> | <b>C1251 / 51</b> | <b>Hydraulic Brake Booster Pump Motor Malfunction</b> |
|------------|-------------------|-------------------------------------------------------|

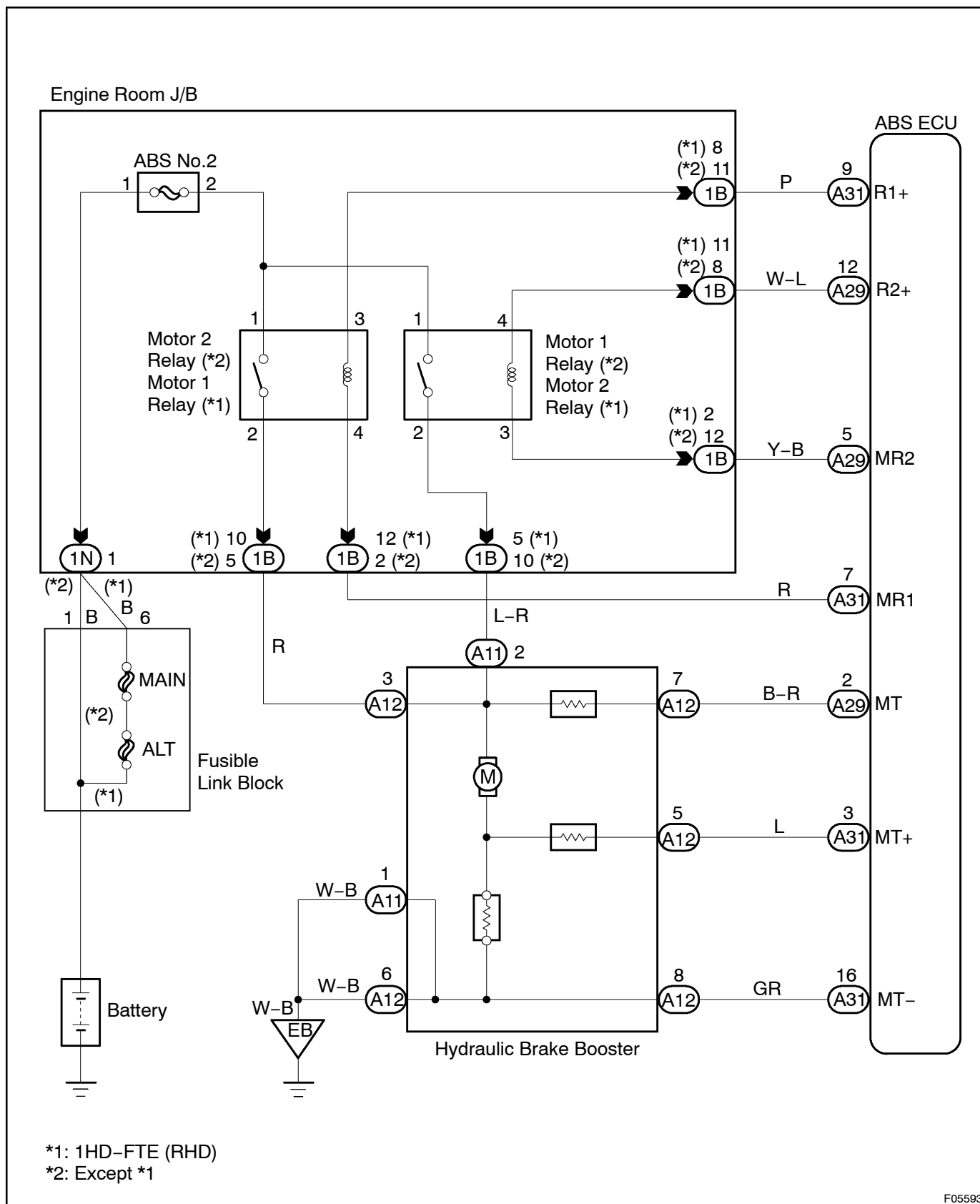
## CIRCUIT DESCRIPTION

| DTC No.  | DTC Detecting Condition                                                                                                                                                                                                                                                                                                   | Trouble Area                                                                         |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| C1251/51 | <p>Either of the following (1) or (2) is detected:</p> <p>(1) After turning the ignition switch ON, the current of more than 30A flows to the motor for more than 1 sec.</p> <p>(2) After turning the ignition switch ON, less than 7A change in current is detected more than 3 times in a row when the motor is ON.</p> | <ul style="list-style-type: none"> <li>Hydraulic brake booster pump motor</li> </ul> |

Fail safe function:

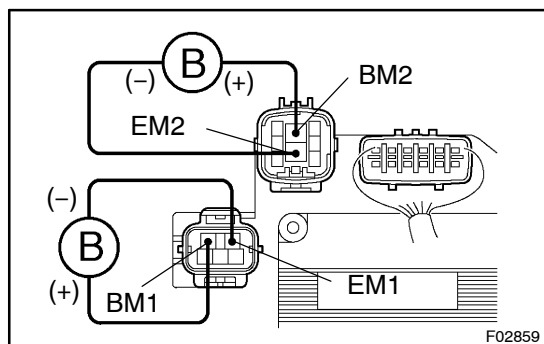
If trouble occurs in the pump motor, the ECU cuts off current to the ABS solenoid relay and prohibits ABS control.

## WIRING DIAGRAM



## INSPECTION PROCEDURE

### 1 Check operation of hydraulic brake booster pump motor.



#### **PREPARATION:**

Disconnect the 2 connectors from the hydraulic brake booster.

#### **CHECK:**

Connect battery positive  $\oplus$  lead to BM1 or BM2 terminal and battery negative  $\ominus$  lead to EM1 or EM2 terminal of the hydraulic brake booster (pump motor) connector.

#### **OK:**

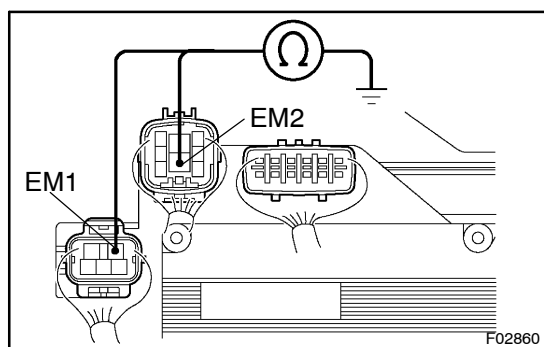
The operation sound of the pump motor should be heard.

OK

Go to step 4.

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### 2 Check continuity between GND terminal of hydraulic brake booster (pump motor) connector and body ground.



#### **CHECK:**

Check continuity between each of EM1 and EM2 terminals of hydraulic brake booster (pump motor) connector and body ground.

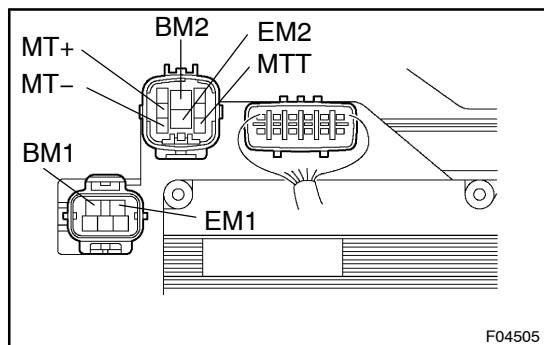
#### **OK:**

Continuity

NG

Repair or replace harness or connector.

OK

**3 Check hydraulic brake booster resistance.****PREPARATION:**

Disconnect the 2 connectors from the hydraulic brake booster.

**CHECK:**

Connect resistance between terminals MT+ and MT-, BM1 and MTT, BM2 and MTT, EM1 and MT+, EM2 and MT+ of the hydraulic brake booster connector.

**OK:**

**30 – 36  $\Omega$**

**NG****Repair the hydraulic brake booster.****OK****Replace hydraulic brake booster pump motor.**

- |          |                                                                                                                                   |
|----------|-----------------------------------------------------------------------------------------------------------------------------------|
| <b>4</b> | <b>Check for open circuit in harness and connector between hydraulic brake booster (pump motor) and ABS ECU (See page IN-24).</b> |
|----------|-----------------------------------------------------------------------------------------------------------------------------------|

**NG**

**Repair or replace harness or connector.**

**OK**

- |          |                                                                                                                       |
|----------|-----------------------------------------------------------------------------------------------------------------------|
| <b>5</b> | <b>Check for open or short circuit in harness and connector between pressure switch and ABS ECU (See page IN-24).</b> |
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**NG**

**Repair or replace harness or connector.**

**OK**

**Check and replace ABS ECU.**