

|            |                   |                                      |
|------------|-------------------|--------------------------------------|
| <b>DTC</b> | <b>21, 22, 23</b> | <b>ABS Actuator Solenoid Circuit</b> |
|------------|-------------------|--------------------------------------|

## CIRCUIT DESCRIPTION

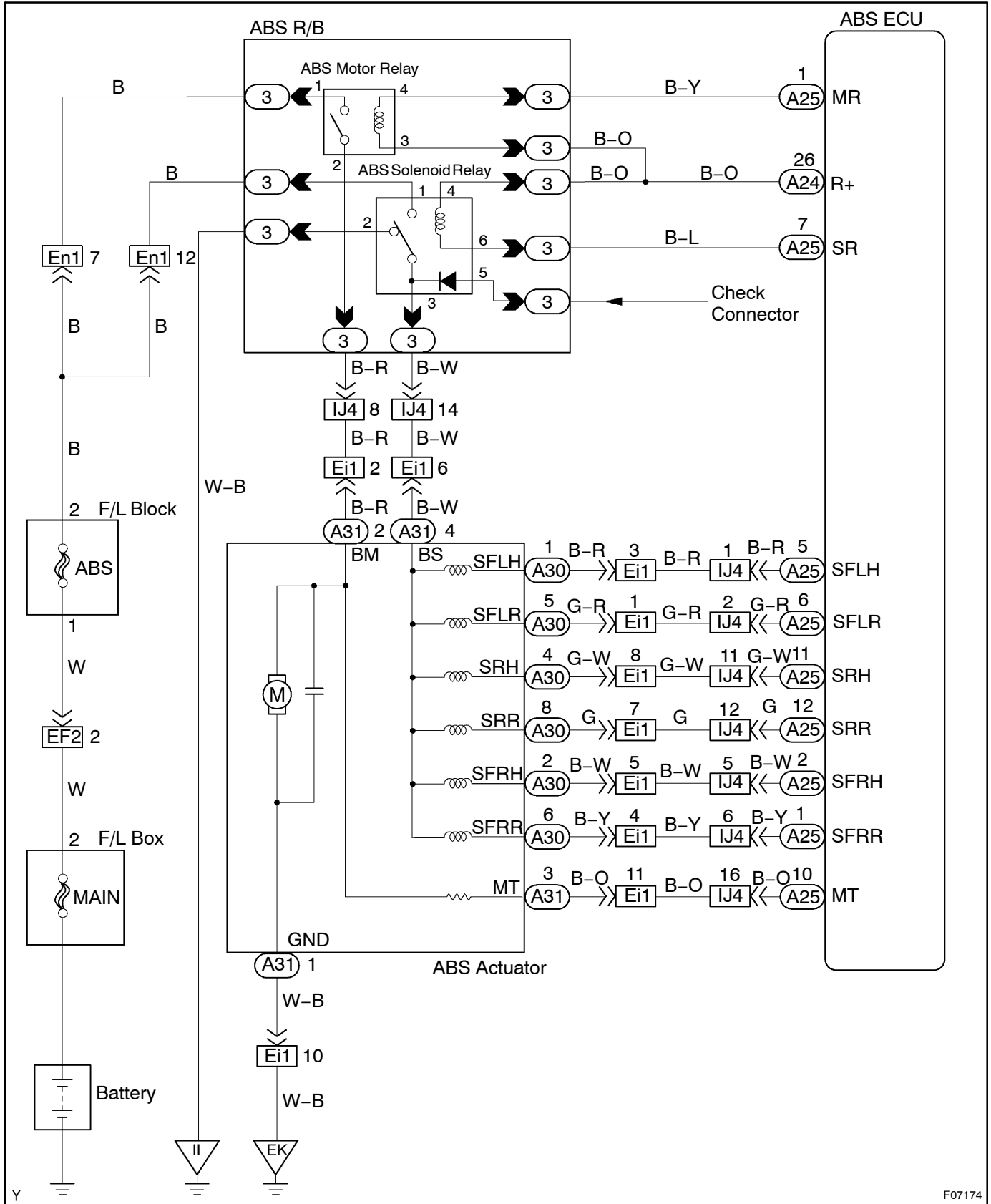
This solenoid goes on when signals are received from the ABS ECU and controls the pressure acting on the wheel cylinders thus controlling the braking force.

| DTC No. | DTC Detecting Condition   | Trouble Area                           |
|---------|---|--|
| 21      | Conditions 1. and 2. continue for 0.05 seconds or more.<br>1. ECU IG1 terminal voltage 9.5 V to 18.5 V and the solenoid has a wire break or short circuit.<br>2. ECU IG1 terminal voltage is 9.5 V to 18.5 V and the condition that the solenoid relay contact is OFF during ABS operation. | •ABS actuator<br>•SFRR or SFRH circuit |
| 22      |   | •ABS actuator<br>•SFLR or SFLH circuit |
| 23      |   | •ABS actuator<br>•SRR or SRH circuit   |

Fail safe function:

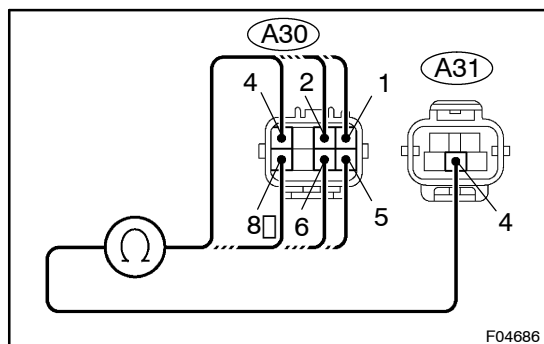
If trouble occurs in the actuator solenoid circuit, the ABS ECU cuts off current to the ABS solenoid relay and prohibits ABS control.

# WIRING DIAGRAM



## INSPECTION PROCEDURE

## 1 Check ABS actuator solenoid.

**PREPARATION:**

Disconnect 2 connectors from ABS actuator.

**CHECK:**

Check continuity between terminals A31 - 4 and A30 - 1, 2, 4, 5, 6, 8 of ABS actuator side connector.

**OK:****Continuity****HINT:**

Resistance of each solenoid coil

SFRH, SFLH, SRH:  $8.8\ \Omega$ .

SFRR, SFLR, SRR:  $4.3\ \Omega$ .

NG

Replace ABS actuator.

OK

## 2 Check for open and short circuit in harness and connector between ABS ECU and actuator (See page IN-30).

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 ABS ECU may be defective.