

DTC	C1252 / 52	Hydraulic Brake Booster Pump Motor ON Time Abnormally Long
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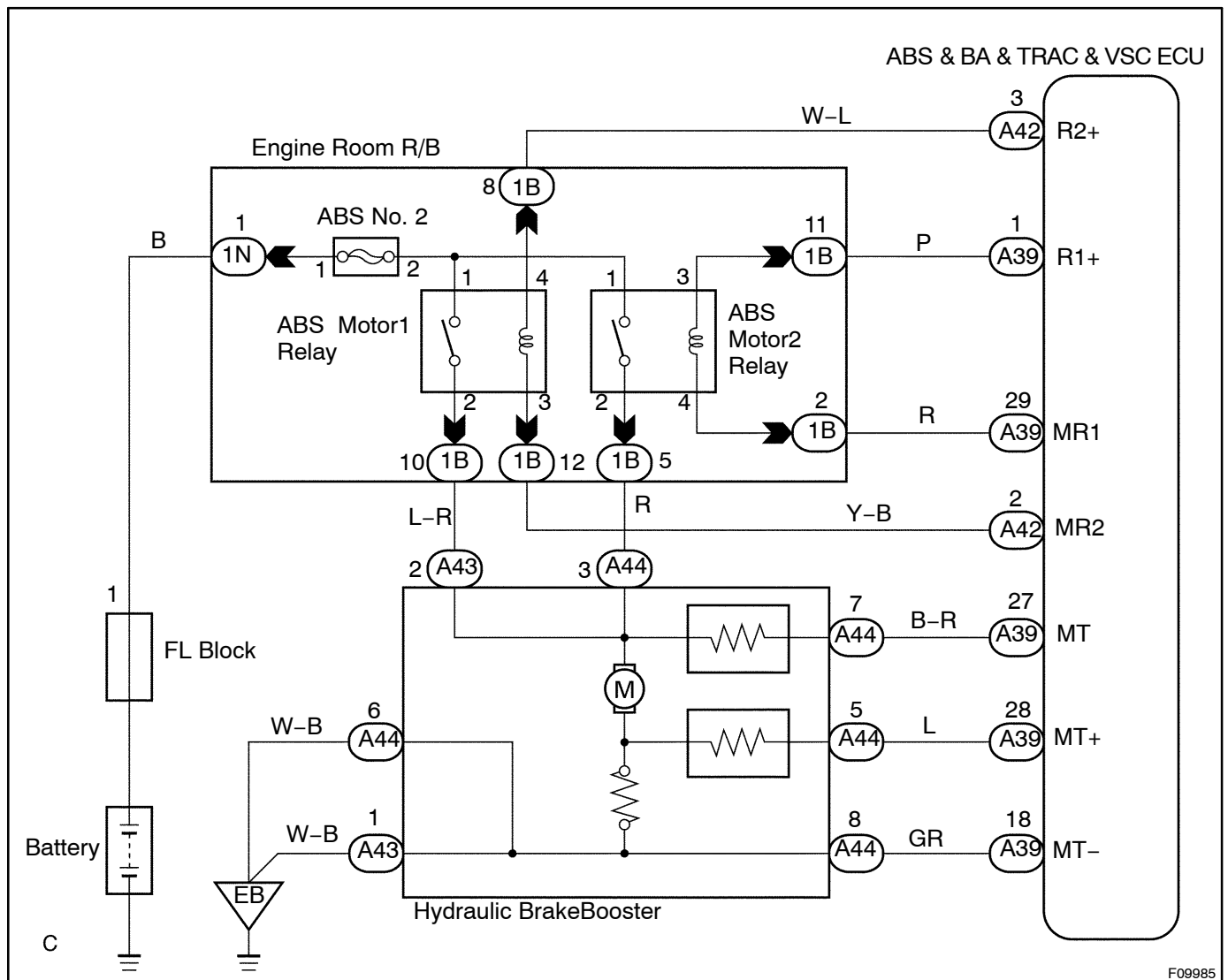
CIRCUIT DESCRIPTION

DTC No.	DTC Detecting Condition	Trouble Area
C1252 / 52	After the ignition switch has been turned ON, when the power is supplied to the pump motor for more than 5 minutes.	- Hydraulic brake booster pump motor - Hydraulic brake booster pump motor circuit - Pressure switch (PH or PL)

Fail safe function:

If trouble occurs in the pump motor, the ECU cuts off current to the ABS solenoid relay and prohibits ABS & BA & TRAC & VSC controls.

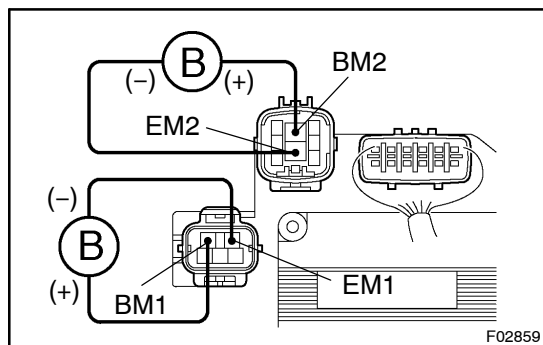
WIRING DIAGRAM



F09985

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.

NG

Go to step 9.

OK

2 Check for short circuit (to B+) in harness and connector between BM1 or BM2 of hydraulic brake booster and ABS motor1 or ABS motor2 relay (See page IN-34).

NG

Repair or replace harness or connector.

OK

3 Check for short circuit (to B+) in harness and connector between MT of hydraulic brake booster and ABS & BA & TRAC & VSC ECU (See page IN-34).

NG

Repair or replace harness or connector.

OK

4 Check pressure switch (PH).

In case of using the LEXUS hand-held tester.

PREPARATION:

- Connect the LEXUS hand-held tester to the DLC3.
- Turn the ignition switch ON and push the LEXUS hand-held tester main switch ON.
- Select the DATALIST mode on the LEXUS hand-held tester.

CHECK:

Depress the brake pedal more than 40 times with the ignition switch OFF then turn the ignition switch ON and check the pressure switch (PH) condition.

HINT:

When a pressure in power supply system is released, reaction force becomes light and stroke becomes longer.

OK:

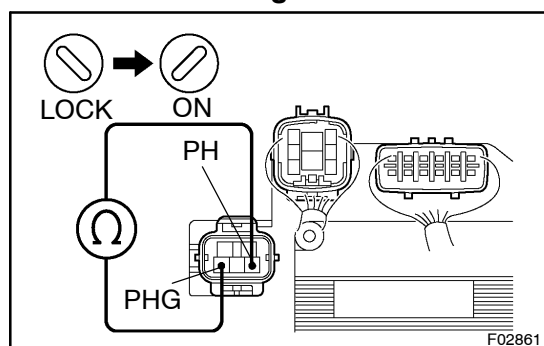
"OFF" turns to "ON".

HINT:

OFF: Low pressure

ON: High pressure

In case of not using the LEXUS hand-held tester.



PREPARATION:

- Disconnect the connector (5P) from the hydraulic brake booster.
- With the ignition switch OFF, depress the brake pedal more than 40 times to decrease the accumulator pressure.

HINT:

When a pressure in power supply system is released, reaction force becomes light and stroke becomes longer.

CHECK:

Measure resistance between terminals PH and PHG of hydraulic brake booster connector.

OK:

Resistance: 1.0 kΩ

PREPARATION:

- Connect the connector (5P) to the hydraulic brake booster.
- Disconnect the connector (5P) after ignition switch has been ON and the pump motor has stopped.

CHECK:

Measure resistance between terminals PH and PHG of hydraulic brake booster connector.

OK:

Resistance: 0 Ω

HINT:

After inspection, connect the connector and clear the DTC (See page [DI-308](#)).

NG

Replace hydraulic brake booster assembly.

OK

5 Check pressure switch (PL).**In case of using LEXUS hand-held tester:****PREPARATION:**

- (a) Connect the LEXUS hand-held tester to the DLC3.
- (b) Turn the ignition switch ON and push the LEXUS hand-held tester main switch ON.
- (c) Select the DATALIST mode on the LEXUS hand-held tester.

CHECK:

Depress the brake pedal more than 40 times with the ignition switch OFF then turn the ignition switch ON and check the pressure switch (PL) condition.

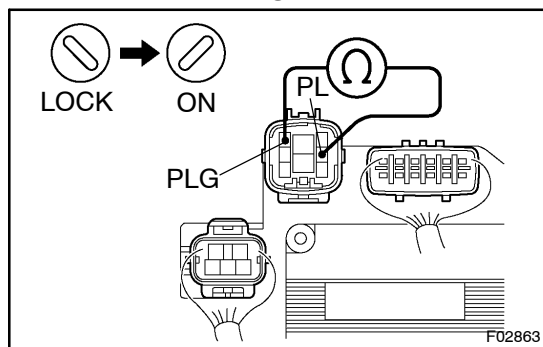
HINT:

When a pressure in power supply system is released, reaction force becomes light and stroke becomes longer.

OK:**"OFF" turns to "ON".****HINT:**

OFF: Low pressure

ON: High pressure

In case of not using LEXUS hand-held tester:**PREPARATION:**

- (a) Disconnect the connector (8P) from the hydraulic brake booster.
- (b) With the ignition switch OFF, depress the brake pedal more than 40 times to decrease the accumulator pressure.

HINT:

When a pressure in power supply system is released, reaction force becomes light and stroke becomes longer.

CHECK:

Measure resistance between terminals PL and PLG of hydraulic brake booster connector.

OK:**Resistance: 5.7 kΩ****PREPARATION:**

- (a) Connect the connector (8P) to the hydraulic brake booster.
- (b) Disconnect the connector (8P) after ignition switch has been ON and the pump motor has stopped.

CHECK:

Measure resistance between terminals PL and PLG of hydraulic brake booster connector.

OK:**Resistance: 1.0 kΩ**

HINT:

After inspection, connect the connector and clear the DTC (See page [DI-308](#)).

NG

Replace hydraulic brake booster assembly.

OK

6

Check for short circuit (to B+) in harness and connector between pressure switch and ABS & BA & TRAC & VSC ECU (See page [IN-34](#)).

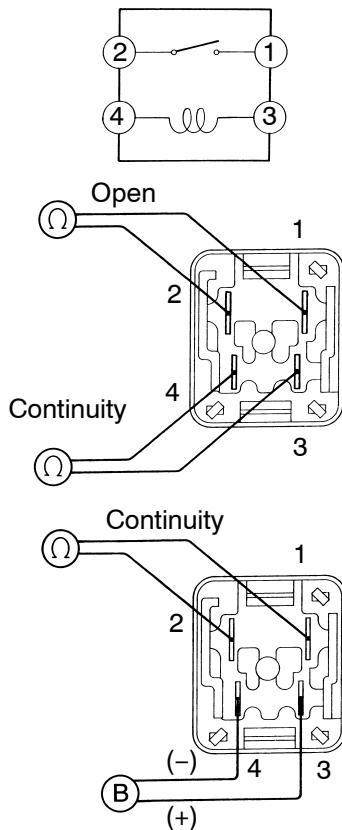
NG

Repair or replace harness or connector.

OK

7

Check ABS motor1 and ABS motor2 relay.



BE1840
R15257
R15258

F00044

PREPARATION:

Remove ABS motor1 and ABS motor2 relay from engine room J/B.

CHECK:

Check continuity between each pair of terminal of motor relay.

OK:

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

*1: ABS motor1 relay 54 Ω

ABS motor2 relay 62 Ω

CHECK:

(a) Apply battery positive voltage between terminals 3 and 4.

(b) Check continuity between terminals.

OK:

Terminals 1 and 2	Continuity
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NG

Replace ABS motor1 or ABS motor2 relay.

OK

8

Check for short circuit in harness and connector between ABS motor1 or ABS motor2 relay and ABS & BA & TRAC & VSC ECU (See page [IN-34](#)).

NG

Repair or replace harness or connector.

OK

Check and replace ABS & BA & TRAC & VSC ECU.

9

Check for open or short circuit in harness and connector between hydraulic brake booster pump motor and hydraulic brake booster (See page [IN-34](#)).

NG

Replace wire harness.

OK

10

Check hydraulic brake booster pump motor (See page [BR-55](#)).

NG

Replace hydraulic brake booster pump motor.

OK

Replace hydraulic brake booster.