DI2R0-01

DTC	C1252 / 52	Hydraulic brake booster Pump Motor ON Time Abnormally Long
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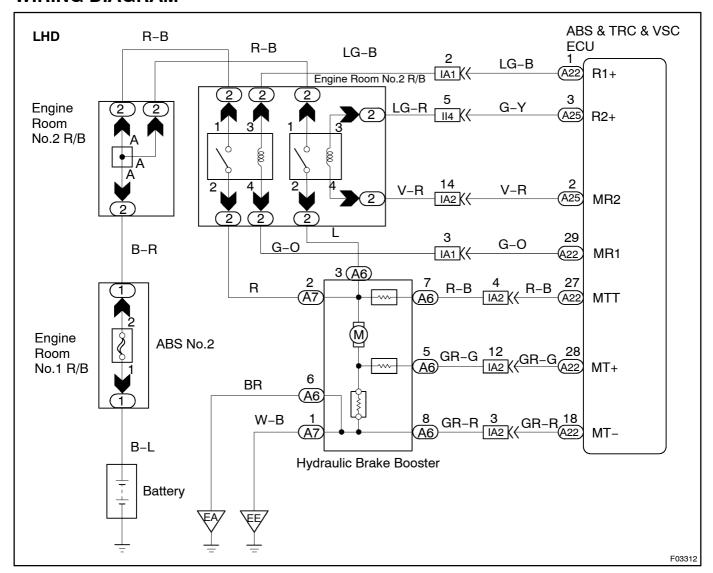
# **CIRCUIT DESCRIPTION**

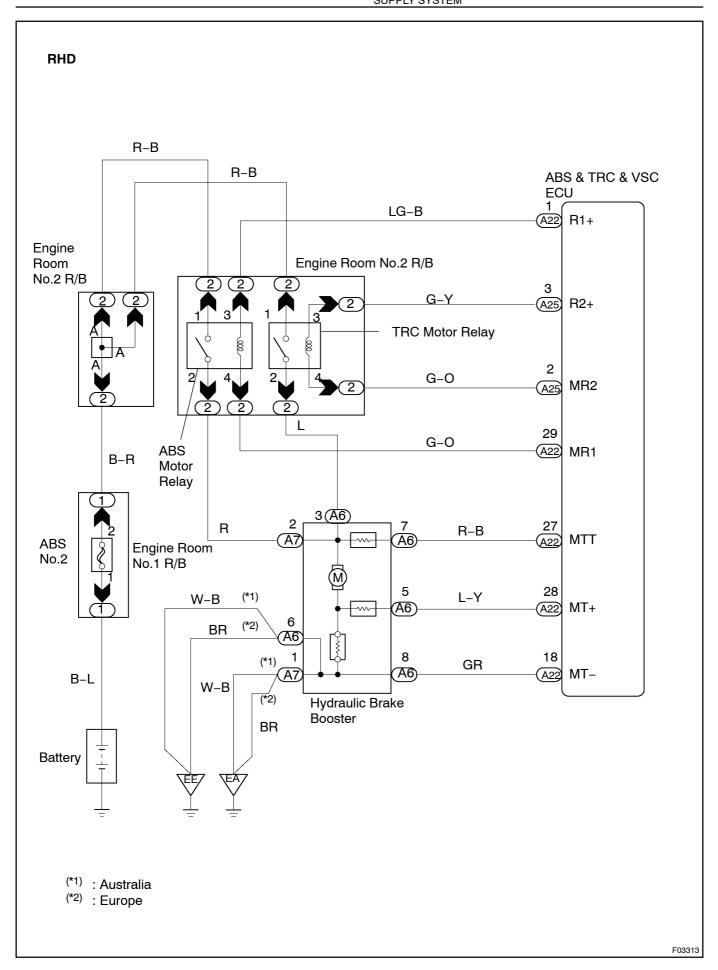
DTC No.	DTC Detecting Condition	Trouble Area
C1252 / 52	After the ignition switch has been turned ON, when the power is supplied to the pump motor for more than 5 min-	Hydraulic brake booster pump motor     Hydraulic brake booster pump motor circuit
	utes.	Pressure switch (PH or PL)

## Fail safe function:

If trouble occurs in the pump motor, the ECU cuts off current to the ABS solenoid relay and prohibits ABS & TRC & VSC controls and the brake system becomes normal.

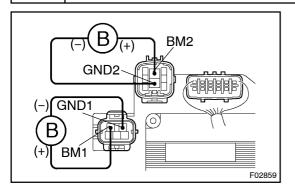
# **WIRING DIAGRAM**





## INSPECTION PROCEDURE

1 Check operation of hydraulic brake booster pump motor.



#### **PREPARATION:**

Disconnect the 2 connectors from hydraulic brake booster connector.

#### **CHECK:**

Connect positive  $\oplus$  lead to BM1 or BM2 terminal and negative  $\ominus$  lead to GND1 or GND2 terminal of the hydraulic brake booster (pump motor) connector.

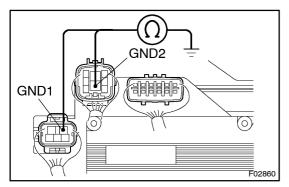
## <u>OK:</u>

The operation sound of the pump motor should be heard.



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



#### CHECK:

Check continuity between GND1 or GND2 terminal of hydraulic brake booster (pump motor) connector and body ground.

## OK:

Continuity

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Repair or replace harness or connector.

OK

Replace hydraulic brake booster pump motor.

Check[for[\$hort[¢ircuit[]n[harness[and[¢onnector[þetween[hydraulic[þrake[þoost-er[[pump[motor)[and[ABS[&[TRC[&[VSC[ECU[[See[page]]N-29].

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Repair or replace harness or connector.

OK

4 Check for short circuit (to B+) in harness and connector between MTT of hydraulic brake booster and ABS& TRC & VSC ECU ( See page).

OK

Check and replace ABS & TRC & VSC ECU.

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# Check pressure switch (PH).

# In case of using the hand-held tester.

### PREPARATION:

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

#### **CHECK:**

Depress[]he[]brake[]bedal[]more[]han[]40[]imes[]with[]he[]gnition[]switch[]DFF[]]hen[]urn[]he[]gnition[]switch[]DN and []check[]he[]bressure[]switch[]PH)[]condition.

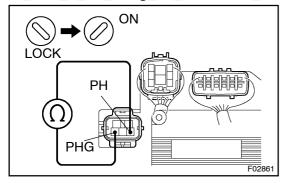
# <u>OK:</u>

# "OFF"[turns[to]"ON".

HINT:

OFF: Low pressure ON: High pressure

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



## PREPARATION:

- (a) Disconnect[the@onnector[from[the[hydraulic[brake[booster.]
- (b) With ignition witch OFF, depress the brake pedal more than 40 times of decrease the accumulator pressure.

## **CHECK:**

Measure@esistance@etween@erminals@H@and@HG@f@ydrau-lic@rake@ooster@onnector.

## OK:

Resistance: 1.0  $\mathbf{k}\Omega$ 

#### PREPARATION:

- (a) Connect he connector of he hydraulic brake booster.
- (b) Disconnect[the[connector[after[gnition[switch[has[been ON[and[the[pump[motor[has[stopped.

### **CHECK:**

Measure $\P$ esistance $\P$ etween $\P$ erminals $\P$ H $\P$ and $\P$ H $\P$ Opf $\P$ ydraulic brake booster connector.

### OK:

Resistance: 0  $\Omega$ 

#### HINT:

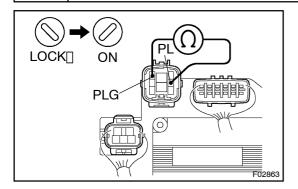
After inspection, clear the DTC See page DI-210).

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Replace hydraulic brake booster.

OK

6 | Check[pressure[switch[PL].



#### PREPARATION:

- (a) Disconnect[the@onnector[from[the[hydraulic[brake[booster.]
- (b) With ignition switch OFF, depress the brake pedal more than 40 times to decrease the accumulator pressure.

#### **CHECK:**

Measure desistance between derminals PLand PLG of by draulic brake booster connector.

#### OK:

Resistance: 5.7 k $\Omega$ 

## **PREPARATION:**

- (a) Connect the connector of the hydraulic brake booster.
- (b) Disconnect[the[connector[after[]gnition[switch[]has[]been ON[and[]he[]pump[]notor[]has[]been[]stopped.

#### **CHECK:**

## OK:

Resistance: 1.0  $\mathbb{k}\Omega$ 

HINT:

After inspection, clear the DTC See page DI-210).

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Replace[hydraulic[brake[booster.

ОК

**7**[

Check[for[open[and[short[circuit]n[harness[and[connector[between[pressure switch[and[ABS[&]TRC[&]VSC[ECU[(See[page[]N-29).

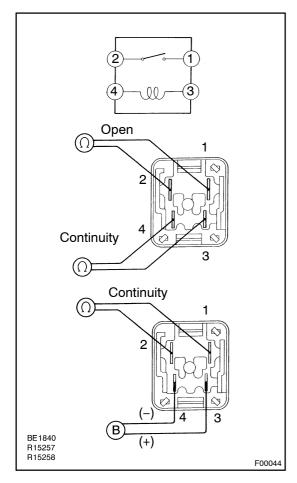
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Repair or replace harness or connector.

OK

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# Check\_ABS\_and\_TRC\_motor\_relay.



#### PREPARATION:

Remove[ABS[and[TRC[motor[relay[from[Engine[Room[R/B No.2.

#### **CHECK:**

Check@ontinuity\_between\_each\_pair\_off\_lerminal\_off\_motor\_felay.

OK:

Terminals[3[and[4	Continuity (Reference[yalue[₃¹)
Terminals[][and[2	Open

<sup>\*1:[</sup>ABS[motor[]elay[62]]2 TRC[motor[]elay[54]]2

## **CHECK:**

- (a) Apply battery voltage between erminals and 4.
- (b) ☐ Check continuity between terminals.

## OK:

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Replace ABS or TRC motor relay.

OK

9 Check[for[\$hort[¢ircuit]]n[harness[and[¢onnector[between[ABS[ør[TRC]]]motor relay[and[ABS[&[TRC]&[VSC[ECU][See[page[]N-29]].

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Repair or replace harness or connector.

ОК

Check and replace ABS & TRC & VSC ECU.