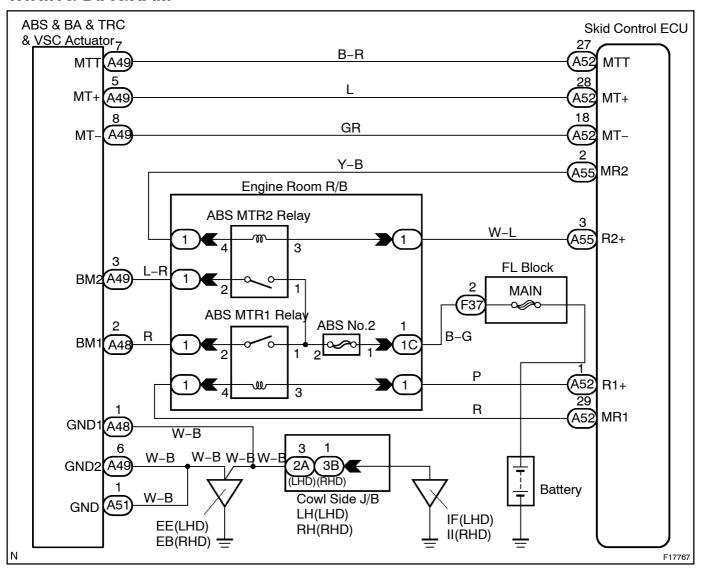
DI6XQ-03

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

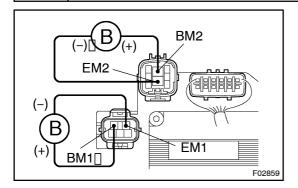
DTC No.	DTC Detecting Condition	Trouble Area
C1252 / 52	After the ignition switch has been turned ON, when the power is supplied to the pump motor for more than 5 min-	Hydraulic brake booster pump motor Hydraulic brake booster pump motor circuit
	utes.	Pressure switch (PH or PL)

# **WIRING DIAGRAM**



# **INSPECTION PROCEDURE**

1 Check operation of hydraulic brake booster pump motor.



## **PREPARATION:**

Disconnect[he[2]connectors[from[he[hydraulic[brake[booster. CHECK:

Connect[battery[positive  $\oplus$  [lead[lo[BM1[br[BM2[lerminal]] and battery[hegative  $\oplus$  [lead[lo[EM1[br[EM2[lerminal]] ft]] helpydraulic brake[booster[pump[hotor)[connector.]

## OK:

The operation sound of he operation sound of



ОК

Check[for[short[circuit[(to[B+)]]n[harness[and[connector[between[BM1[pr[BM2[of hydraulic[brake[booster[and[ABS]]motor 1[pr[ABS]]motor[2]]telay (See[page[N-38).

NG

Repair or replace harness or connector.

OK

3∏

Check[for[\$hort[circuit[(to[B+)[]n[harness[and[connector[between[MTT[of[hydrau-lic[brake[booster[and[\$kid[control[ECU[[See[page[]N-38]).

NG

Repair or replace harness or connector.

OK

4∏

# 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.

## HINT:

When appressure in power supply system is released, reaction force becomes in the comes in the c

### OK:

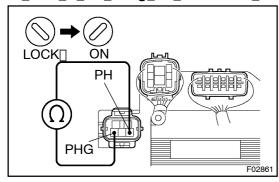
## "OFF"[turns[to]]'ON".

HINT:

OFF: Low pressure

ON: Thigh pressure

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



### PREPARATION:

- (a) Disconnect[he[connector[5P)[from[he[hydraulic[brake booster.
- (b) With the lignition witch OFF, depress the brake pedal more than 40 times to decrease the accumulator pressure.

### HINT:

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

## **CHECK:**

Measure [] esistance [] between [] erminals [] Hand [] HG[] of [] ydrau-lic [] brake [] booster [] onnector.

## OK:

Resistance: 1.0[kΩ

#### PREPARATION:

- (a) Connect the connector 5P) to the hydraulic brake booster.
- (b) Disconnect[the[connector[(5P)]after[gnition[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  $\Omega$ 

## HINT:

After[inspection,@onnect[the@onnector@nd@lear[the@TC[Seepage@I-185).

NG

Replace hydraulic brake booster assembly.



5

## Check pressure switch (PL).

## In case of using hand-held tester:

#### PREPARATION:

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

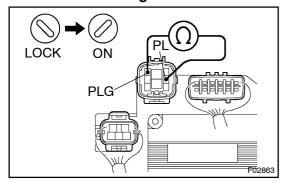
### OK:

"OFF" turns to "ON".

HINT:

OFF: Low pressure ON: High pressure

## In case of not using hand-held tester:



#### PREPARATION:

- (a) Disconnect the connector (8P) from the hydraulic brake hooster
- (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 k $\Omega$ 

## **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 k $\Omega$ 

#### HINT:

After[inspection,@onnect[the@onnector@ind@lear[the@TC[Seepage\_DI-185].

NG□

Replace[hydraulic[brake[booster[assembly.

OK

6∏

Check[for[short[circuit[(to[B+)[]n[harness[and[connector[between[pressure switch[and[skid[control[ECU[(See[page[IN-38]).

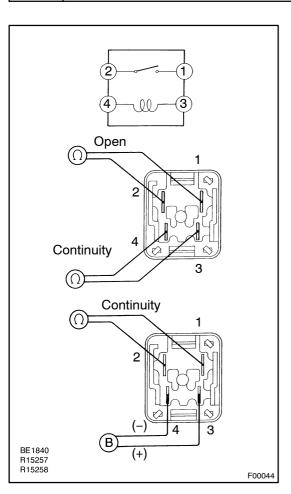
NG

Repair or replace harness or connector.

OK

7

Check ABS motor 1 and ABS motor 2 relay.



## **PREPARATION:**

Remove ABS motor 1 and ABS motor 2 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

<sup>\*1:</sup> ABS motor 1 relay 54  $\Omega$ ABS motor 2 relay 62  $\Omega$ 

## **CHECK:**

- (a) Apply battery voltage between terminals 3 and 4.
- (b) Check continuity between terminals.

## OK:

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

NG□

Replace ABS motor 1 or ABS motor 2 relay.

OK

8 Check[for[short[circuit[in[harness[and[connector[between[ABS[motor 1]or[ABS motor[2]relay[and[skid[control[ECU[See[page[N-38].

NG□

Repair or replace harness or connector.

OK

Checkandreplaceskidcontrol ECU.

9 Check[for[open[or[short[circuit]]n[harness[and[connector[between[hydraulic brake[booster[and[skid[control[ECU[See[page]]N-38]).

NG

Replace wire harness.

OK

10 Check hydraulic brake booster pump motor (See Pub. No. RM731E on page BR-8).

NG

Replace hydraulic brake booster pump motor.

OK

Replace hydraulic brake booster.