

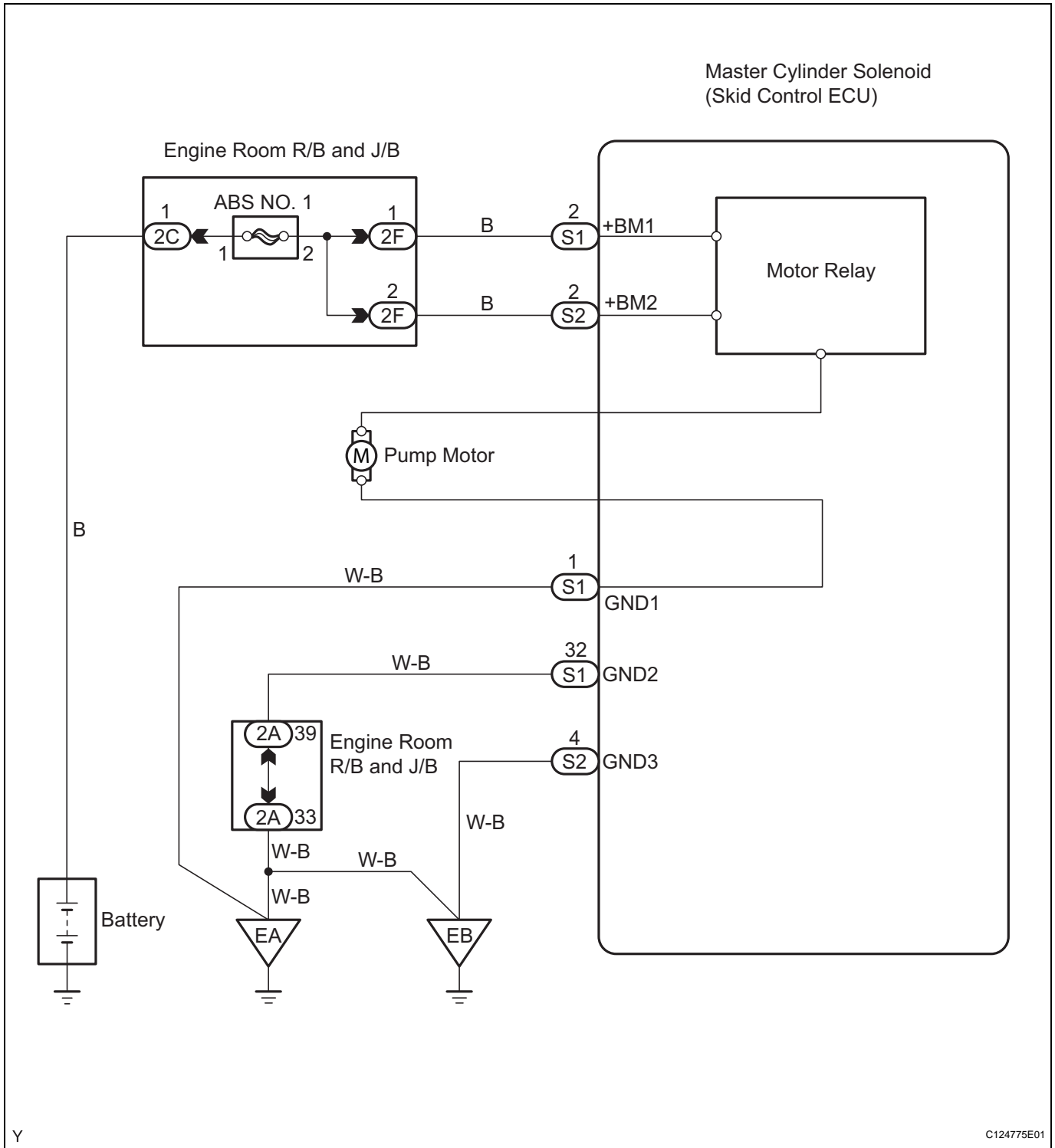
DTC	C1252/52	Brake Booster Pump Motor on Time Abnormally Long
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DESCRIPTION

The motor relay (semiconductor relay) is built into the master cylinder solenoid and drives the pump motor based on a signal from the skid control ECU.

DTC No.	DTC Detecting Condition	Trouble Areas
C1252/52	Motor operates for 5 minutes or more.	<ul style="list-style-type: none">• Hydraulic brake booster pump motor• Hydraulic brake booster pump motor circuit• Accumulator pressure

WIRING DIAGRAM



BC

HINT:

When C1253/53, C1254/54 or C1256/56 is output together with C1252/52, inspect and repair the trouble areas indicated by C1253/53, C1254/54 or C1256/56 first.

1 CHECK HYDRAULIC BRAKE BOOSTER PUMP MOTOR OPERATION

- (a) Turn the ignition switch to OFF.
- (b) Depress the brake pedal more than 20 times.

- (c) Turn the ignition switch to the ON position.
- (d) Check how the hydraulic brake booster pump motor operates.

Result	Proceed to
Pump motor does not operate	A
Pump motor operates continuously (Does not stop)	B
Pump motor operates intermittently	C
Pump motor operates, then stops	D

B → **REPLACE HYDRAULIC BRAKE BOOSTER**

C → **Go to step 4**

D → **Go to step 5**

A

2 CHECK BRAKE PUMP MOTOR WIRE HARNESS CONNECTION (MT+ / MT-)

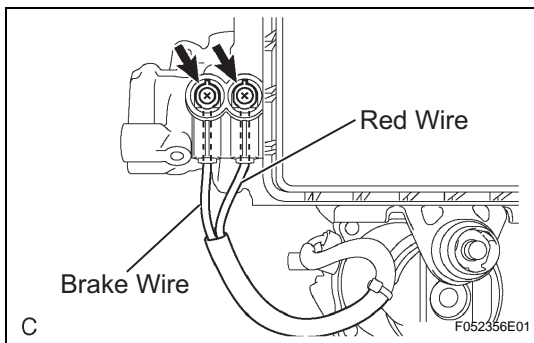
- (a) Using a screwdriver, remove the 2 plugs from the hydraulic brake booster (See page BR-45).
- (b) Check the tightening torque of 2 screws which fasten the wire harness connecting hydraulic brake booster and brake booster pump (See page BR-49).

Torque: 2.9 N*m (30 kgf*cm, 26 in.*lbf)

NG → **RETIGHTEN SCREWS**

BC **OK**

3 CHECK RESISTANCE OF PUMP MOTOR WIRE HARNESS (MT+/MT-)



- (a) Using a screwdriver, remove the 2 screws and pull the wire harness from the hydraulic brake booster assembly.
- (b) Measure the resistance between the red wire (MT+) and black wire (MT-).

Resistance:

2 Ω

NG → **REPLACE HYDRAULIC BRAKE BOOSTER**

OK

4 READ VALUE OF DATA LIST (ACCUMULATOR PRESSURE SENSOR)

- (a) Connect the intelligent tester to the DLC3.
- (b) Turn the ignition switch to the ON position.
- (c) Turn the intelligent tester ON.

(d) Select the DATA LIST mode on the intelligent tester.

Item	Measurement Item / Range (Display)	Normal Condition	Diagnostic Note
ACC PRESS SENS	Accumulator pressure sensor reading / min.: 0 V, max.: 5 V	3.58 to 5 V	If value constant regardless of pump operation, accumulator pressure sensor malfunction suspected.

(e) Check that the accumulator pressure sensor output is normal.

Result	Proceed to
Output value varies within "Normal Condition" range	A
Output value does not reach "Normal Condition" range	B
Output value constant regardless of pump motor operation	C

B → **REPLACE MASTER CYLINDER SOLENOID**

C → **REPLACE HYDRAULIC BRAKE BOOSTER**

A

5 RECONFIRM DTC

- (a) Clear the DTCs (See page BC-118).
- (b) Turn the ignition switch to OFF.
- (c) Turn the ignition switch to the ON position.
- (d) Wait for more than 5 minutes.
- (e) Check if the same DTCs are recorded.

Result	Proceed to
DTC output	A
DTC not output	B

B → **REPLACE HYDRAULIC BRAKE BOOSTER**

A

REPLACE MASTER CYLINDER SOLENOID