

DTC**C1201/51****Engine Control System Malfunction****DESCRIPTION**

If trouble occurs in the engine control system, the skid control ECU disables TRAC, A-TRAC and VSC controls.

DTC No.	DTC Detecting Conditions	Trouble Areas
C1201/51	Malfunction signal received from ECM	Engine control system

1**CHECK DTC (ENGINE CONTROL SYSTEM)**

(a) Check if any DTC is recorded for the engine control system (See page [ES-40](#) or [ES-38](#)).

Result	Proceed to
DTC not output	A
DTC output	B

B**REPAIR ENGINE CONTROL SYSTEM****A****REPLACE ECM**

DTC	C1202/52	Brake Fluid Level Low / Open Circuit in Brake Fluid Level Warning Switch Circuit
DTC	C1202/58	Brake Fluid Level Low / Open Circuit in Brake Fluid Level Warning Switch Circuit

DESCRIPTION

The brake fluid level warning switch sends the appropriate signal to the skid control ECU when the brake fluid level drops.

DTC No.	DTC Detecting Conditions	Trouble Areas
C1202/52 C1202/58	<p>When any of the following conditions detected:</p> <ol style="list-style-type: none"> 1. Fluid level of brake master cylinder reservoir tank stays low for 30 seconds or more when vehicle stops, or for 60 seconds or more when driving. 2. With ECU terminal IG1 voltage 9.5 V to 17.2 V, an open circuit for brake fluid level warning switch circuit continues for 2 seconds or more. 3. Fluid level of master cylinder reservoir tank LOW for 4 seconds or 40 seconds after ignition switch turned ON, or for 7 seconds during pump motor operation. 	<ul style="list-style-type: none"> • Brake fluid level • Brake fluid level warning switch • Brake fluid level warning switch circuit • Master cylinder solenoid (skid control ECU)

- (b) Depress the brake pedal 20 times or more (until the pedal reaction feels light and pedal stroke becomes longer).

- (c) Check the amount of fluid in the brake reservoir.

HINT:

When the ignition switch is turned to the ON position, brake fluid is sent to the accumulator and the fluid level decreases by approximately 5 mm from the level when the ignition switch is off (normal).

NOTICE:

Do not move the wheels with the ignition switch off.

OK:

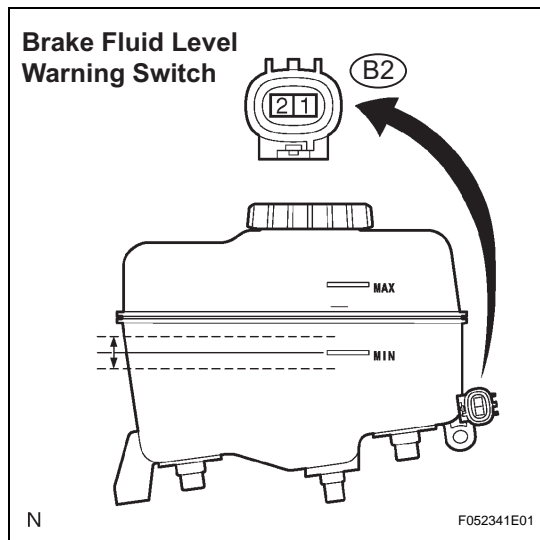
Brake fluid level is correct.

NG

CHECK FOR LEAKAGE AND REPAIR

OK

2 INSPECT BRAKE FLUID LEVEL WARNING SWITCH



- (a) Disconnect the brake fluid level warning switch connector.

- (b) Measure the resistance.

Standard Resistance

Tester Connection	Condition	Specified Condition
B2-1 - B2-2	Float UP (Switch OFF)	1.9 to 2.1 kΩ
B2-1 - B2-2	Float DOWN (Switch ON)	Below 1 Ω

- (c) Reconnect the brake fluid level warning switch connector.

HINT:

If there is no problem after finishing the above check, adjust the brake fluid level to the maximum level.

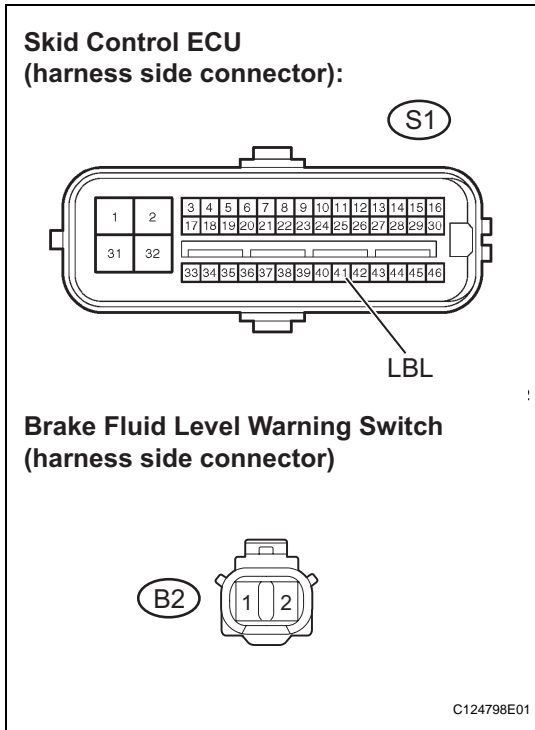
NG

REPLACE BRAKE MASTER CYLINDER RESERVOIR SUB-ASSEMBLY

OK

BC

3 CHECK HARNESS AND CONNECTOR (BRAKE FLUID LEVEL WARNING SWITCH - SKID CONTROL ECU)



- (a) Disconnect the skid control ECU connector.
- (b) Disconnect the brake fluid level warning switch connector.

- (c) Measure the resistance.
Standard Resistance

Tester Connection	Specified Condition
S1-41 (LBL) - B2-2	Below 1 Ω

- (d) Reconnect the brake fluid level warning switch connector.
- (e) Reconnect the skid control ECU connector.

NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

BC

4 RECONFIRM DTC

- (a) Clear the DTCs (See page BC-118).
- (b) Check if the same DTCs are detected.

Result	Proceed to
DTC output	A
DTC not output	B

B → **END**

A

REPLACE MASTER CYLINDER SOLENOID