

DTC**C1246/46****Master Cylinder Pressure Sensor Malfunction****DESCRIPTION**

Master cylinder pressure sensor is connected to the skid control ECU in the actuator.

DTC No.	DTC Detection Condition	Trouble Area
C1246/46	<ul style="list-style-type: none"> When the vehicle speed is 4 mph(7 km/h) or more and PMC terminal voltage of skid control ECU exceeds 0.86 V, the condition that the voltage does not change by 0.005 V or more continues for 30 sec. Noise in terminal PMC of skid control ECU occurs 7 times or more within 5 sec. When the stop light switch is off, the condition that PMC terminal voltage of skid control ECU is 0.86 V or more, or less than 0.3 V continues for 5 sec. or more. When IG1 terminal voltage is between 9.5 and 17.2 V, the condition that the VCM terminal voltage of skid control ECU is out of the range from 4.4 to 5.6 V continues for 1.2 sec. or more. When VCM terminal voltage of skid control ECU is between 4.4 and 5.6 V, the condition that the PMC terminal voltage of skid control ECU is out of the range from 0.14 to 4.85 V continues for 1.2 sec. or more. 	<ul style="list-style-type: none"> Master cylinder pressure sensor Master cylinder pressure sensor circuit

HINT:

Start the inspection from step 1 when using the intelligent tester and start from step 2 when not using the intelligent tester.

1**READ VALUE OF INTELLIGENT TESTER (MASTER CYLINDER PRESSURE SENSOR)**

- Connect the intelligent tester to the DLC3.
- Start the engine.
- Select the DATA LIST mode on the intelligent tester.

Item	Measurement Item / Range (Display)	Normal Condition
MAS CYL PRS 1	Master cylinder pressure sensor 1 reading / min.: 0 V, max.: 5 V	When brake pedal is released : 0.3 to 0.9 V

- Check that the brake fluid pressure value of the master cylinder pressure sensor indicated on the intelligent tester, changes when the brake pedal is depressed.

OK:

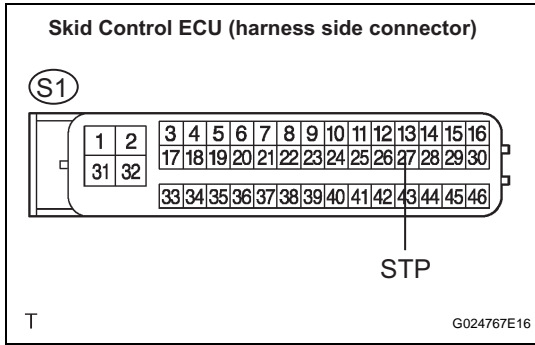
Brake fluid pressure value should change.

NOTICE:

When replacing the ABS & TRACTION actuator assembly, perform zero point calibration (See page BC-5).

NG**Go to step 2****OK****REPLACE ABS AND TRACTION ACTUATOR****BC**

2 INSPECT SKID CONTROL ECU TERMINAL VOLTAGE (STP TERMINAL)



- (a) Disconnect the skid control ECU connector.
- (b) Measure the voltage according to the value(s) in the table below.

Voltage

Tester Connection	Switch condition	Specified Condition
S1-27 (STP) - Body ground	Brake pedal depressed	8 to 14 V
S1-27 (STP) - Body ground	Brake pedal depressed	Below 1 V

NOTICE:

When replacing the ABS & TRACTION actuator assembly, perform zero point calibration (See page BC-5).

NG REPAIR OR REPLACE STOP LIGHT SWITCH CIRCUIT

OK

REPLACE ABS AND TRACTION ACTUATOR