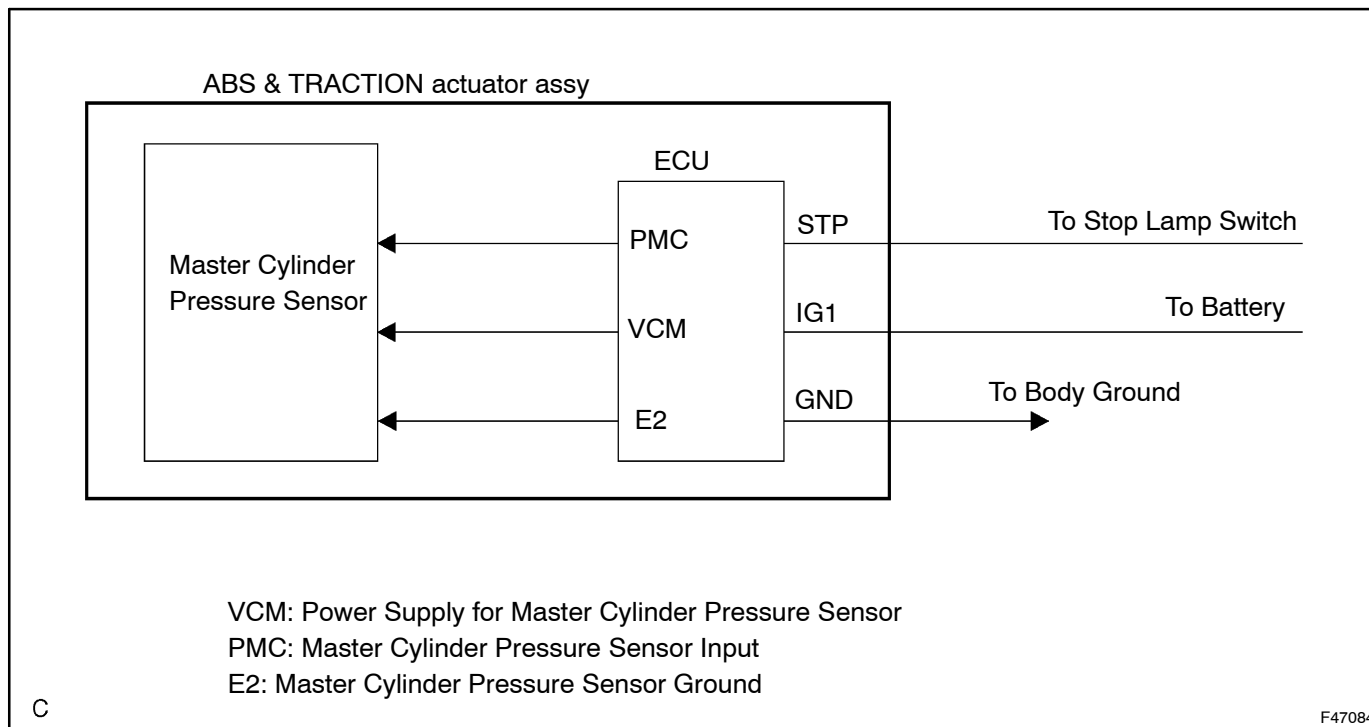


DTC	C1246/46	MALFUNCTION IN MASTER CYLINDER PRESSURE SENSOR
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CIRCUIT DESCRIPTION

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



DTC No.	DTC Detecting Condition	Trouble Area
C1246/46	<ul style="list-style-type: none"> The vehicle speed is 7 km/h (4 mph) or more and the PMC terminal voltage of the skid control ECU exceeds 0.86 V. The voltage does not change by 0.005 V or more for 30 sec. Noise in the terminal PMC of the skid control ECU occurs 7 times or more within 5 sec. The stop lamp switch is off, the PMC terminal voltage of the skid control ECU is 0.86 V or more or less than 0.3 V for 5 sec. or more. The IG1 terminal voltage is between 9.5 and 17.2 V, the VCM terminal voltage of the skid control ECU is out of the range from 4.4 to 5.6 V for 1.2 sec. or more. The VCM terminal voltage of skid control ECU is between 4.4 and 5.6 V, that the PMC terminal voltage of the skid control ECU is out of the range from 0.19 to 4.57 V for 1.2 sec. or more. 	<ul style="list-style-type: none"> Master cylinder pressure sensor Master cylinder pressure sensor circuit

INSPECTION PROCEDURE

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	Master cylinder pressure sensor 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.

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Go to step 2

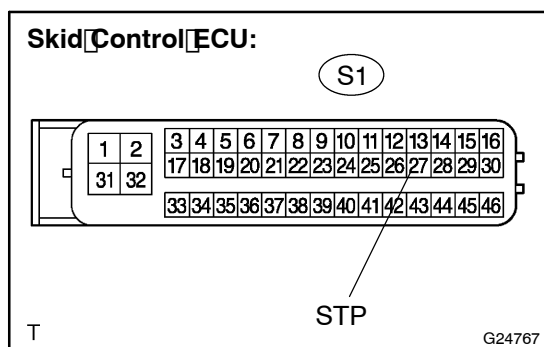
OK

REPLACE ABS & TRACTION ACTUATOR ASSY (SEE PAGE 32-20)

NOTICE:

When replacing the ABS & TRACTION actuator assy, perform zero point calibration (see page 05-610).

2 INSPECT SKID CONTROL ECU TERMINAL VOLTAGE (STP TERMINAL)



- Disconnect the skid control ECU S1 connector.
- Measure the voltage according to the value(s) in the table below.

Standard:

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 released	Below 1 V

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CHECK AND REPLACE STOP LIGHT SWITCH CIRCUIT

OK

REPLACE ABS & TRACTION ACTUATOR ASSY (SEE PAGE 32-20)

NOTICE:

When replacing the ABS & TRACTION actuator assy, perform zero point calibration (see page 05-610).