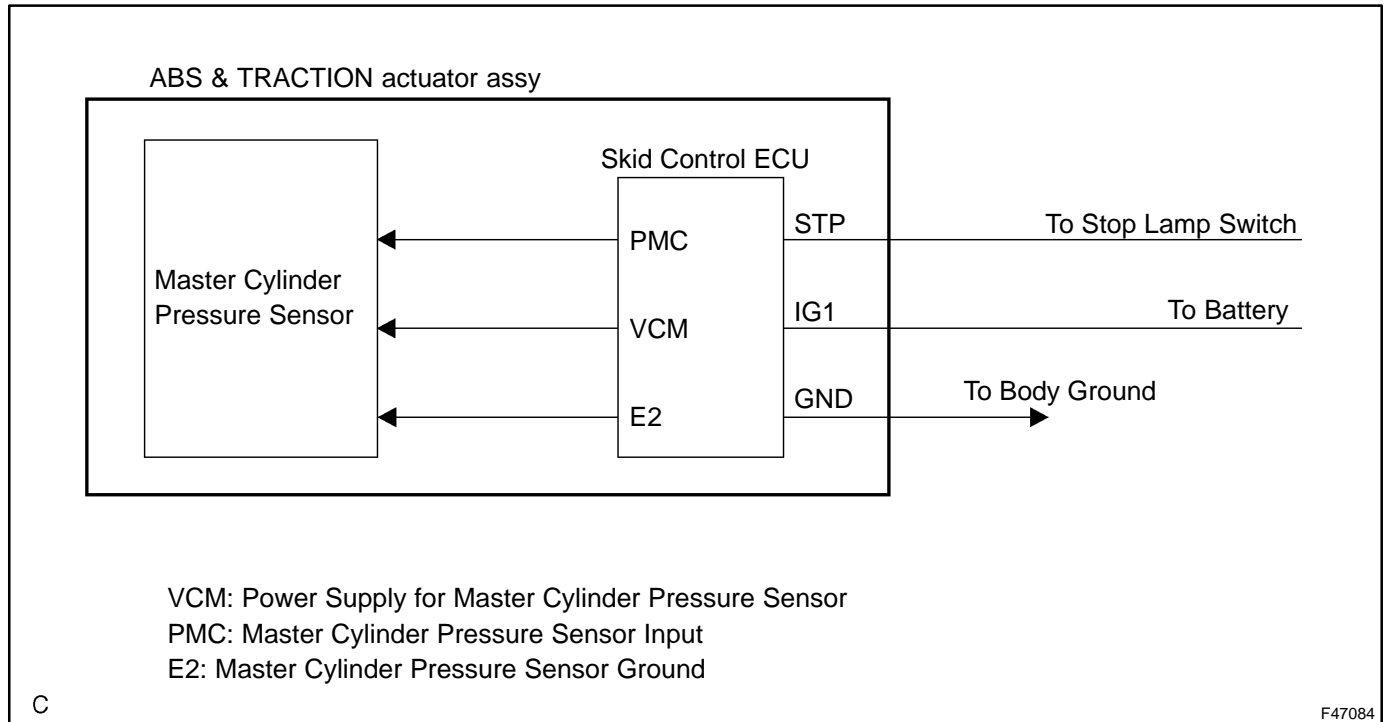


DTC	C1246/46	MALFUNCTION IN MASTER CYLINDER PRESSURE SENSOR
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CIRCUIT DESCRIPTION

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



DTC No.	DTC Detecting Condition	Trouble Area
C1246/46	<p>When any of the following (1 to 5) is detected:</p> <p>(1) All the following conditions continue for at least 30 seconds.</p> <ul style="list-style-type: none"> • Vehicle speed is more than 4 mph (7 km/h). • PMC terminal voltage does not change by more than 0.05 V once it exceeds 0.86 V. <p>(2) PMC terminal receives interference at least 7 times within 5 sec.</p> <p>(3) All the following conditions continue for at least 1.2 seconds.</p> <ul style="list-style-type: none"> • Stop switch is OFF. • PMC terminal voltage is more than 0.86 V or less than 0.3 V. <p>(4) All the following conditions continue for at least 1.2 seconds.</p> <ul style="list-style-type: none"> • IG1 terminal voltage is between 9.5 and 17.2 V. • VCM terminal voltage is not within 4.4 and 5.6 V. <p>(5) All the following conditions continue for at least 1.2 seconds.</p> <ul style="list-style-type: none"> • VCM terminal voltage is between 4.4 and 5.6 V. • PMC terminal voltage is not within 0.14 and 4.85 V. 	<ul style="list-style-type: none"> • Master cylinder pressure sensor • Master cylinder pressure sensor circuit

INSPECTION PROCEDURE

NOTICE:

When replacing the brake actuator assy, perform zero point calibration (see page 05-987).

HINT:

Start the inspection from step 1 when using the hand-held tester and start from step 2 when not using the hand-held tester.

1 READ VALUE OF HAND-HELD TESTER(MASTER CYLINDER PRESSURE SENSOR)

- Connect the hand-held tester to the DLC3.
- Start the engine.
- Select DATA LIST mode on the hand-held 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 hand-held tester changes when the brake pedal is depressed.

OK:

When depressing the brake pedal, the reading on the value increases.

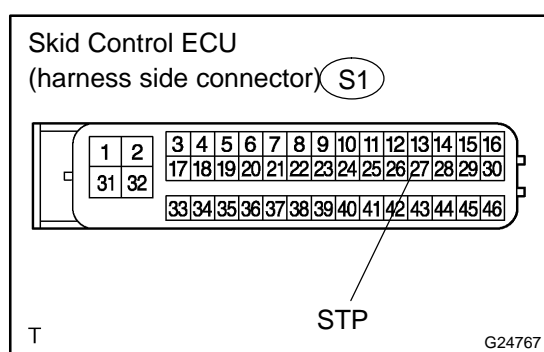
NG

Go to step 2

OK

REPLACE BRAKE ACTUATOR ASSY (SEE PAGE 32-63)

2 INSPECT SKID CONTROL ECU TERMINAL VOLTAGE(STP TERMINAL)



- Disconnect the skid control ECU connector S1.
- 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

NG

CHECK AND REPLACE STOP LIGHT SWITCH CIRCUIT

OK

REPLACE BRAKE ACTUATOR ASSY (SEE PAGE 32-63)