DTC	C1246/46	MALFUNCTION IN MASTER CYLINDER PRESSURE SENSOR

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	When any of the following (1 to 5) is detected: (1) All the following conditions continues for at least 30 seconds. • Vehicle speed is more than 4 mph (7 km/h). • PMC terminal voltage does not change by more than 0.005 V once it exceeds 0.86 V. (2) PMC terminal receives interference at least 7 times within 5 sec. (3) All the following conditions continues for at least 1.2 seconds. • Stop switch is OFF. • PMC terminal voltage is more than 0.86 V or less than 0.3 V. (4) All the following conditions continues for at least 1.2 seconds. • IG1 terminal voltage is between 9.5 and 17.2 V. • VCM terminal voltage is not within 4.4 and 5.6 V. (5) All the following conditions continues for at least 1.2 seconds. • VCM terminal voltage is between 4.4 and 5.6 V. • PMC terminal voltage is not within 0.14 and 4.85 V.	• Master cylinder pressure sensor • Master cylinder pressure sensor circuit

INSPECTION PROCEDURE

HINT:

Start the inspection from step 1 in case of using the hand–held tester and start from step 2 in case of not using the hand–held tester.

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

(a) Connect the hand–held tester to the DLC3.

(b) Start the engine.

(c) Select the DATA LIST mode on the hand–held tester.

(d) 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.

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

Standard:

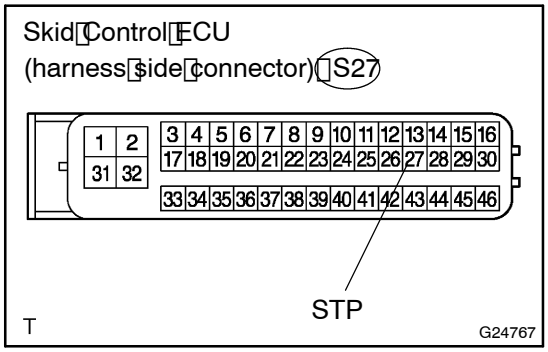
Brake fluid pressure value should change.

NG → **Go to step 2**

OK

REPLACE ABS & TRACTION ACTUATOR ASSY (SEE PAGE 32–43)

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.

Standard:

Tester Connection	Switch condition	Specified Condition
S27–27 (STP) – Body ground	Brake pedal depressed	8 to 14 V
S27–27 (STP) – Body ground	Brake pedal released	Below 1 V

NG → **CHECK AND REPLACE STOP LIGHT SWITCH CIRCUIT**

OK

REPLACE ABS & TRACTION ACTUATOR ASSY (SEE PAGE 32–43)