

05-830

DIAGNOSTICS - ABS WITH EBD & BA & TRAC & VSC SYSTEM

05H30-02

<b>DTC</b>	<b>C1246/46</b>	<b>MALFUNCTION IN MASTER CYLINDER PRESSURE SENSOR</b>
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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	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.	<ul style="list-style-type: none"> <li>• Master cylinder pressure sensor</li> <li>• Master cylinder pressure sensor circuit</li> </ul>

### INSPECTION PROCEDURE

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.

<b>1</b>	<b>READ VALUE OF HAND-HELD TESTER(MASTER CYLINDER PRESSURE SENSOR)</b>
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- (a) Connect the hand-held tester to the DLC3.
- (b) Start the engine.
- (c) Select the 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

- (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.

**Standard:**

**Brake fluid pressure value should change.**

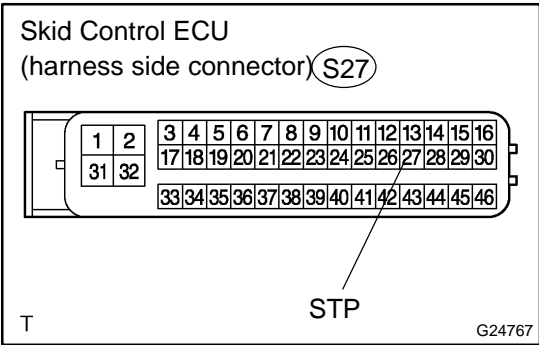
<b>NG</b>	<b>Go to step 2</b>
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**OK**

<b>REPLACE ABS &amp; TRACTION ACTUATOR ASSY (SEE PAGE 32-37 )</b>
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**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 32-37 )**