

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

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

DTC No.	DTC Detection Condition	Trouble Area
C1246/46	- When vehicle speed is 7 km/h (4 mph) or more and PMC terminal voltage of skid control ECU exceeds 0.86 V, condition that voltage does not change by 0.005 V or more continues for 30 seconds - Noise in terminal PMC of skid control ECU occurs 7 times or more within 5 seconds - When stop light switch is OFF, condition that PMC terminal voltage of skid control ECU is 0.86 V or more, or less than 0.3 V continues for 5 seconds or more - When IG1 terminal voltage is 9.5 to 17.2 V, condition that VCM terminal voltage of skid control ECU is out of range from 4.4 to 5.6 V continues for 1.2 seconds or more - When VCM terminal voltage of skid control ECU is 4.4 to 5.6 V, condition that PMC terminal voltage of skid control ECU is out of range from 0.14 to 4.85 V continues for 1.2 seconds or more	- Master cylinder pressure sensor - Master cylinder pressure sensor circuit

1**CHOOSE DIAGNOSIS METHOD**

(a) Choose the diagnosis method.

Method

Method	Proceed to
Using intelligent tester	A
Not using intelligent tester	B

B**Go to step 3****A****2****READ VALUE OF INTELLIGENT TESTER (MASTER CYLINDER PRESSURE SENSOR)**

(a) Check the DATA LIST for proper functioning of the master cylinder pressure sensor.

Skid control ECU with actuator

Item	Measurement Item / Range (Display)	Normal Condition	Diagnostic Note
MAS CYL PRESS 1	Master cylinder pressure sensor 1 reading / Min.: 0 V, Max.: 5 V	When brake pedal is released : 0.3 to 0.9 V	Reading increases when brake pedal is depressed

OK:

Brake fluid pressure value (voltage) changes from 0.3 to 0.9 V.

HINT:
When replacing the skid control ECU with actuator,
perform the zero point calibration (see page [BC-11](#)).

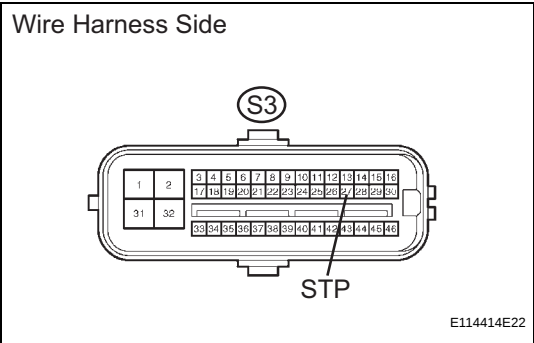
OK

REPLACE BRAKE ACTUATOR ASSEMBLY

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3

CHECK WIRE HARNESS (SKID CONTROL ECU - BATTERY)



- (a) Disconnect the S3 ECU connector.
 - (b) Measure the voltage of the wire harness side connector.
- Standard voltage**

Tester Connection	Condition	Specified Condition
S3-27 (STP) - Body ground	Brake pedal is depressed	8 to 14 V
	Brake pedal is released	Below 1 V

HINT:
When replacing the skid control ECU with actuator,
perform the zero point calibration (see page [BC-11](#)).

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REPAIR OR REPLACE HARNESS AND CONNECTOR

OK

REPLACE BRAKE ACTUATOR ASSEMBLY