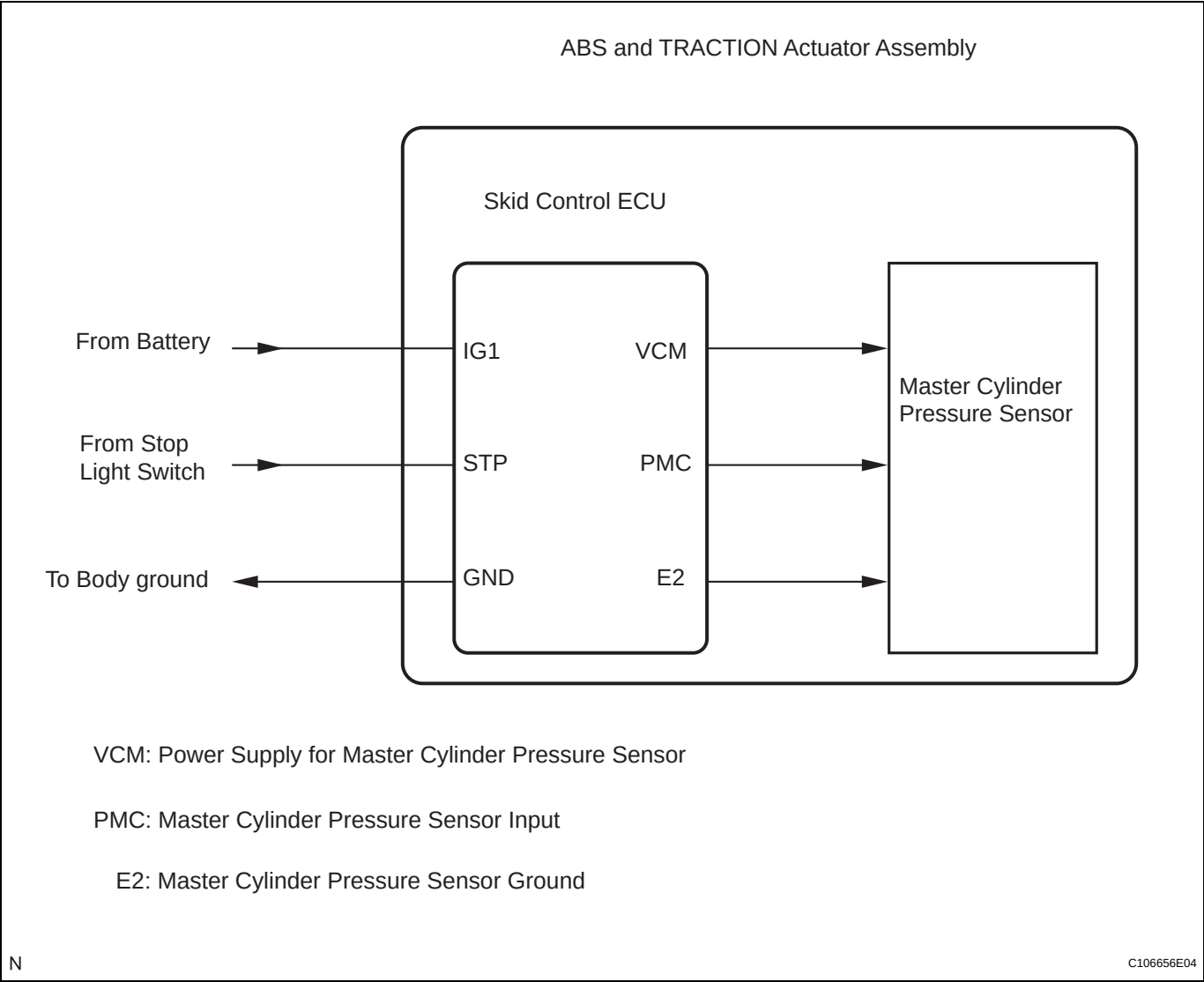


DTC	C1246/46	Master Cylinder Pressure Sensor Malfunction
DTC	C1281/81	Master Cylinder Pressure Sensor Output Malfunction (Test Mode DTC)

DESCRIPTION

The master cylinder pressure sensor is connected to the skid control ECU in the actuator. DTC C1281/81 is output only in the test mode (SIGNAL CHECK).



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DTC No.	DTC Detecting Condition	Trouble Area
C1246/46	When any of the following (a to e) is detected: (a) All of the following conditions continue for at least 30 seconds. * Vehicle speed is more than 4 mph (7 km/h). * PMC terminal voltage does not change by more than 0.05 V once it exceeds 0.86 V. (b) PMC terminal receives interference at least 7 times within 5 sec. (c) All of the following conditions continue for at least 5 seconds. * Stop light switch is OFF. * PMC terminal voltage is more than 0.86 V or less than 0.3 V. (d) All of the following conditions continue 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. (e) All of the following conditions continue 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

NOTICE:

When replacing the ABS and TRACTION actuator assembly, perform zero point calibration (See page [BC-80](#)).

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 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 intelligent tester, changes when the brake pedal is depressed.

OK:

Brake fluid pressure value should change.

NG

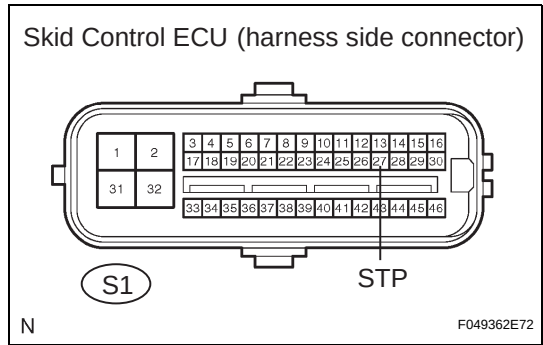
Go to step 2

OK

BC

REPLACE ABS AND TRACTION ACTUATOR ASSEMBLY

2
 INSPECT SKID CONTROL ECU (STP TERMINAL)



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

Voltage

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 ABS AND TRACTION ACTUATOR ASSEMBLY