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

DESCRIPTION

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

DTC C1281/81 can be detected when the master cylinder pressure sensor sends a master cylinder pressure signal or test mode ends. DTC C1281/81 is output only in test mode.

DTC No.	DTC Detection Condition	Trouble Area	
C1246/46	 When one of following conditions is met: At vehicle speed of 7 km/h (4.3 mph) or more, when PMC terminal voltage over 0.86 V, voltage does not change by 0.005 V or more for 30 seconds. Noise occurs in the PMC terminal 7 times or more within 5 seconds. When stop light switch OFF, PMC terminal voltage more than 0.86 V or less than 0.3 V for 5 seconds or more. With IG1 terminal voltage between 9.5 V and 17.2 V, VCM terminal voltage not between 4.4 V and 5.6 V for 1.2 seconds or more. When VCM terminal voltage between 0.14 V and 4.85 V for 1.2 seconds or more. 	Master cylinder pressure sensor Master cylinder pressure sensor circuit Stop light switch circuit ABS and TRACTION actuator	
C1281/81	Detected only during test mode.	 Master cylinder pressure sensor Master cylinder pressure sensor circuit Stop light switch circuit ABS and TRACTION actuator 	

INSPECTION PROCEDURE

NOTICE:

1

When replacing the ABS and TRACTION actuator, perform zero point calibration (see page BC-24).

READ VALUE OF INTELLIGENT TESTER (STOP LIGHT SWITCH)

(a) Check the DATA LIST for proper functioning of the stop light switch.

Skid control ECU

Item (Display)	Measurement Item / Range (Display)	Normal Condition	Diagnostic Note
STOP LAMP SW	1 0	ON: Brake pedal applied OFF: Brake pedal released	-

OK:

ON (brake pedal is depressed) appears on the screen.

NG CHECK STOP LIGHT SWITCH CIRCUIT

BC



BC

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

Item (D	isplay)	Measurement Item / Range (Display)	Normal Condition	Diagnostic Note
MAS CY	YL PRESS 1	Master cylinder pressure sensor 1 reading / min.: 0 V, max.: 5 V	When brake pedal released: 0.3 to 0.9 V	-

OK:

When the pedal is depressed, the sensor output voltage increases.

NG REPLACE ABS AND TRACTION ACTUATOR ASSEMBLY

OK

3 RECONFIRM DTC

- (a) Clear the DTC(s) (see page BC-47).
- (b) Drive the vehicle at a speed of 30 km/h (18 mph) or more and perform a braking test (decelerate the vehicle by depressing the brake pedal).
- (c) Check if the same DTC(s) is recorded (see page BC-47).

 Result

Result	Proceed to
DTC is output	Α
DTC is not output	В

B END

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REPLACE ABS AND TRACTION ACTUATOR ASSEMBLY