

C1142 PRESS SENSOR

Description

The pressure sensor converts the brake fluid pressure to an electric signal and transmits it to the ABS actuator and electric unit (control unit). [The pressure sensor is integrated in the ABS actuator and electric unit (control unit).]

DTC DETECTION LOGIC

DTC	Display item	Malfunction detected condition	Possible cause
C1142	PRESS SEN CIRCUIT	Pressure sensor signal line is open or shorted, or pressure sensor is malfunctioning.	<ul style="list-style-type: none"> • Harness or connector • Stop lamp switch • ABS actuator and electric unit (control unit)

DTC CONFIRMATION PROCEDURE

- 1). Turn the ignition switch ON.
- 2). Perform ABS actuator and electric unit (control unit) self-diagnosis.
- 3). Is DTC "C1142" detected?
 - YES >> Proceed to diagnosis procedure.
 - NO >> INSPECTION END

Diagnosis Procedure

- 1). CHECK STOP LAMP SWITCH
 - A). Check stop lamp switch.
 - B). Is the inspection result normal?
 - YES >> GO TO 2.
 - NO >> Repair or replace damaged parts.

2).CHECK DATA MONITOR

A).Check pressure sensor signal.

B).Is the inspection result normal?

YES >> GO TO 3.

NO >> Check brake pedal, brake booster, and master cylinder for mount play, looseness, brake system fluid leakage, etc.

3).ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)

SELF-DIAGNOSIS

A).Perform ABS actuator and electric unit (control unit) self-diagnosis.

B).Is any item indicated on the self-diagnosis display?

YES >> Replace ABS actuator and electric unit (control unit).

NO >> Check ABS actuator and electric unit (control unit) pin terminals for damage or loose connection with harness connector. If any items are damaged, repair or replace damaged parts.

Component Inspection

1).CHECK ACTIVE TEST

2).On "ACTIVE TEST", select "ABS MOTOR".

3).Touch "On" and "Off" on screen. Make sure motor relay and actuator relay operates as shown in table below.

4).Is the inspection result normal?

YES >> INSPECTION END

NO >> Proceed to diagnosis procedure.

Special Repair Requirement

1).ADJUSTMENT OF STEERING ANGLE SENSOR NEUTRAL POSITION, CALIBRATION OF YAW RATE/SIDE/DECEL G SENSOR AND CALIBRATION OF PRESSURE SENSOR.

2).After removing/replacing an ABS actuator and electric unit (control unit), be sure to perform the following procedure.