

C1120, C1122, C1124, C1126 IN ABS SOL

Description

The solenoid valve increases, holds or decreases the fluid pressure of each brake caliper according to the signals transmitted by the ABS actuator and electric unit (control unit).

DTC DETECTION LOGIC

DTC	Display item	Malfunction detected condition	Possible cause
C1120	FR LH IN ABS SOL	When the control unit detects a malfunction in the front LH inlet solenoid circuit.	ABS actuator and electric unit (control unit)
C1122	FR RH IN ABS SOL	When the control unit detects a malfunction in the front RH inlet solenoid circuit.	
C1124	RR LH IN ABS SOL	When the control unit detects a malfunction in the rear LH inlet solenoid circuit.	
C1126	RR RH IN ABS SOL	When the control unit detects a malfunction in the rear RH inlet solenoid circuit.	

DTC CONFIRMATION PROCEDURE

- 1). Turn the ignition switch ON.
- 2). Perform ABS actuator and electric unit (control unit) self-diagnosis.
- 3). Is DTC "C1120", "C1122", "C1124" or "C1126" detected?
 - YES >> Proceed to diagnosis procedure.
 - NO >> INSPECTION END

Diagnosis Procedure

1).CHECK CONNECTOR

- A).Turn the ignition switch OFF.
- B).Disconnect ABS actuator and electric unit (control unit) connector.
- C).Check terminal for deformation, disconnection, looseness, etc.
- D).Is the inspection result normal?
 - YES >> GO TO 2.
 - NO >> Replace or repair damaged parts.

2).CHECK SOLENOID, VDC SWITCH-OVER VALVE AND ACTUATOR RELAY POWER SUPPLY CIRCUIT

- A).Check the voltage between ABS actuator and electric unit (control unit) harness connector and ground.
- B).Is the inspection result normal?
 - YES >> GO TO 3.
 - NO >> Repair or replace damaged parts.

3).CHECK SOLENOID, VDC SWITCH-OVER VALVE AND ACTUATOR RELAY GROUND CIRCUIT

- A).Check the continuity between ABS actuator and electric unit (control unit) harness connector and ground.
- B).Is the inspection result normal?
 - YES >> Replace ABS actuator and electric unit (control unit).
 - NO >> Repair or replace damaged parts.

Component Inspection

1).CHECK ACTIVE TEST

- A).Select each test menu item on "ACTIVE TEST."
- B).On the display, touch "Up", "Keep", and "Down", and check that the system operates as shown in the table below.
- C).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.