

C1166, C1167 CV SYSTEM

Description

The suction valve supplies the brake fluid from the master cylinder to the pump, when VDC/TCS is activated.

DTC DETECTION LOGIC

DTC	Display item	Malfunction detected condition	Possible cause
C1166	CV1	VDC switch-over solenoid valve (CV1) on the primary side is open circuit or shorted, or the control line is open or shorted to the power supply or the ground.	<ul style="list-style-type: none"> • Harness or connector • ABS actuator and electric unit (control unit)
C1167	CV12	VDC switch-over solenoid valve (CV2) on the secondary side is open circuit or shorted, or the control line is open or shorted to the power supply or the ground.	

DTC CONFIRMATION PROCEDURE

- 1). Turn the ignition switch ON.
- 2). Perform ABS actuator and electric unit (control unit) self-diagnosis.
- 3). Is DTC "C1166" or "C1167" 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", "ACT UP", and "ACT KEEP", 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.