

# C1164, C1165 CV SYSTEM

## Description

The cut valve shuts off the normal brake fluid path from the master cylinder, when VDC/TCS is activated.

## DTC DETECTION LOGIC

DTC	Display item	Malfunction detected condition	Possible cause
C1164	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"> <li>• Harness or connector</li> <li>• ABS actuator and electric unit (control unit)</li> </ul>
C1165	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 "C1164" or "C1165" 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.