# C1109 POWER AND GROUND SYSTEM

## Description

Supplies electric power to the ABS actuator and electric unit (control unit).

#### DTC DETECTION LOGIC

| DTC   | Display item                     | Malfunction detected condition  | Possible cause   |
|-------|----------------------------------|---|--|
| C1109 | BATTERY<br>VOLTAGE<br>[ABNORMAL] | When the ABS actuator and electric unit (control unit) power supply is lower than normal. Power supply is greater than normal limits. | Harness or connector    ABS actuator and electric unit (control unit)    Fuse    Vehicle electrical power system |

#### DTC CONFIRMATION PROCEDURE

- Turn the ignition switch OFF to ON.
- Perform ABS actuator and electric unit (control unit) self-diagnosis.

Is DTC "C1109" 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 >> Repair or replace damaged parts.

- 2).CHECK ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT) POWER SUPPLY CIRCUIT ANDGROUND CIRCUIT
  - A) Turn ignition switch ON or OFF and check voltage between ABS actuator and electric unit (control unit) harness connector terminal and ground.
  - B).Check 10A fusible link (45).
  - C).Check continuity between ABS actuator and electric unit (control unit) harness connector terminals and IPDM E/R.
  - D).Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace malfunctioning components.
- CHECK ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)
  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 >> Check battery for terminal looseness, low voltage, etc. if any malfunction is found, repair damaged parts.
    - NO >> Repair or replace damaged parts. (Check ABS earth bolt for tightness and corrosion.)

### Special Repair Requirement

- 1).ADJUSTMENT OF STEERING ANGLE SENSOR NEUTRAL POSITION, CALIBRATION OF YAW RATE/SIDE/DECEL G SENSOR AND CALIBRATION OF PRESSURE SENSOR
  - A) After removing/replacing an ABS actuator and electric unit (control unit), be sure to perform the following procedure.