

# Analysis of C1210/36 & C1336/98

## DTC Explanation:

DTC	Explanation
C1210/36	Yaw rate sensor zero point calibration not completed
C1336/98	Acceleration sensor zero point calibration not completed

Note: When DTC C1210/36 and/or C1336/98 appear(s), check whether zero point calibration is completed and yaw rate and acceleration sensors are properly installed or damaged.

- Brake Control ECU receives signal from yaw rate and acceleration sensors (Airbag Sensor Assembly) through CAN communication system.
- Airbag Sensor Assembly has a built-in yaw rate and acceleration sensor to detect car condition.
- If the Bus between yaw rate/acceleration sensors (Airbag Sensor Assembly) and CAN communication system is faulty, DTC U0123/62 (Lost communication with yaw rate sensor module) and U0124/95 (Lost communication with lateral acceleration sensor module) will appear.
- If calibration is not completed, it displays DTC C1210/36 and C1336/98.

## Analysis:

### Test Condition:

C1210/36

- Yaw rate sensor zero point calibration not completed.

C1336/98 (Any one of the following being detected)

- Car is driven normally before zero point calibration completed.
- After zero point calibration, sensor zero point voltage is not within 2.38-2.62V.

### Possible Reasons:

C1210/36

- Zero point calibration not completed.
- Yaw rate and acceleration sensors (Airbag Sensor Assembly).
- Brake Control ECU (Brake Booster with Master Cylinder Assembly).

C1336/98

- Zero point calibration not completed.
- Yaw rate and acceleration sensors (Airbag Sensor Assembly).
- Brake Control ECU (Brake Booster with Master Cylinder Assembly).

## Diagnostic Procedure:

### NOTE:

- After replacement of Brake Control ECU (Brake Booster with Master Cylinder Assembly), perform linear valve initialization and calibration.
- After replacement of yaw rate and acceleration sensors (Airbag Sensor Assembly), perform zero point calibration.

**Reminder:** When U0123/62 and/or U0124/95 and C1210/36 and/or C1336/98 appear at the same time, firstly check and repair the faulty area indicated by U0123/62 and/or U0124/95.

1).Perform yaw rate and acceleration sensor zero point calibration, then go to Step 2.

2).Reconfirm the DTC.

#### Reminder:

- DTC due to uncompleted zero point calibration.
- After zero point calibration, if same DTC no longer appears, procedure finished.

A).Turn ignition switch to OFF

B).Clear DTC

C).Turn ignition switch to ON(READY)

D).Drive the car at 30km/h(18mph) or higher, rotate the steering wheel and decelerate the car (apply the brake pedal).

E).Check whether C1210/36 and/or C1336/98 exist(s)?

- YES: Go to Step 3.
- NO: Diagnostic completed.

3).Check installation of Airbag Sensor Assembly

A).Turn ignition switch to OFF

B).Check whether yaw rate and acceleration sensors (Airbag Sensor Assembly) are properly installed.

- YES: Go to Step 4.
- NO: Install Airbag Sensor Assembly properly.

4).Replace Airbag Sensor Assembly

A).Replace yaw rate and acceleration sensors (Airbag Sensor Assembly), go to Step 5.

**Note:** Check yaw rate and acceleration sensor signal after replacement.

5).Reconfirm the DTC.

A).Clear DTC

B).Turn ignition switch to ON(READY)

C).Drive the car at 30km/h(18mph) or higher, rotate the steering wheel and decelerate the car (apply the brake pedal).

D).Check whether C1210/36 and/or C1336/98 exist(s)?

- YES: Replace Brake Booster with Master Cylinder Assembly.
- NO: Diagnostic completed.

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