

# MERCEDES-BENZ

## 2008 G500

### PRECAUTIONS

**Warning:** Risk of explosion when charging lead batteries with battery electrolyte containing sulfuric acid. A highly explosive gas mixture is created that ignites by means of fire, sparks, open flames and smoking.

**Warning:** The battery electrolyte contains diluted sulfuric acid that causes caustic burns to the skin, eyes and mucous membranes in the event of contact. Bonded electrolyte is just as caustic as liquid electrolyte. Battery electrolyte mist causes caustic burns to eyes. If inhaled, this can result in caustic burns to mucous membranes and respiratory tracts.

**Warning:** In event of a short circuit from battery positive to ground, battery terminals and conductive objects causing short circuit, such as a tool or jewelry, become hot in seconds and cause burns.

**Warning:** If battery electrolyte is swallowed, this can result in symptoms of poisoning such as headache, dizziness, stomach ache, respiratory paralysis, unconsciousness, vomiting, caustic burns and cramps. Absorption of lead in body through contact with leaded components (battery terminals, lead plates in damaged batteries) damages blood, nerves and kidneys; lead compounds are also toxic for reproduction.

**Caution:** Wear acid-resistant gloves and clothing and safety glasses with side guards.

Only charge lead batteries in well-ventilated rooms with appropriate voltage and appropriate current with approved

chargers, taking into account the instructions of battery and charger manufacturers.

**Caution:** Do not place any conductive objects on battery, and do not wear any conductive jewelry (risk of short circuit).

Always disconnect the ground terminal first; always connect positive terminal first (risk of short circuit caused by tool).

Only store, transport and install batteries with liquid battery electrolyte horizontally, otherwise battery electrolyte can escape from the degassing holes.

### BATTERY

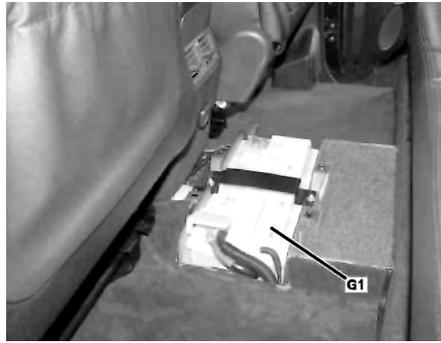
#### Removal

1. Remove rear cup holder, if equipped.
2. Remove cover of battery (G1) in rear footwell, **Fig. 1**.
3. Disconnect ground line from battery.
4. Remove hold down bracket.
5. Detach positive line on battery.
6. Remove battery.

#### Installation

1. Install battery.
2. Attach positive line to battery.
3. Install hold down bracket.
4. Connect ground line to battery.
5. Install cover of battery.
6. Install rear cup holder if equipped.
7. Activate steering angle sensor as follows:
  - a. This message appears in multifunction display when battery has been disconnected, "EI-STAB-PROGRAM - LOCATE WORKSHOP."

- b. Start engine and run at idling speed.
  - c. Turn steering wheel from one lock position to the other, then center it.
  - d. Message "EI-STAB-PROGRAM - LOCATE WORKSHOP" goes out in multifunction display.
8. Synchronize power windows as follows:
    - a. Switch on ignition.
    - b. Actuate power window switch until window is closed, continue to hold switch depressed for approximately one second.
    - c. Switch off ignition.
    - d. Synchronization also can be performed via a suitably programmed scan tool using synchronization routine.
  9. Normalize seats as follows:
    - a. Switch on ignition.
    - b. Adjust seat forward as far as stop and, as soon as mechanical stop is reached, continue to keep seat adjustment switch pressed for approximately one second.
    - c. Move head restraint upwards as far as stop and, as soon as mechanical stop is reached, continue to keep head restraint adjustment switch pressed for approximately one second.
    - d. Switch off ignition.
    - e. Normalizing can also be performed via a suitably programmed scan tool using synchronization routine.
  10. Read out fault memory and erase using a suitably programmed scan tool.
  11. Release radio (see operator's manual).
  12. Set time on instrument cluster (see operator's manual).
  13. Set time on timer of stationary heater.



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**Fig. 1 Battery ground removal**

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