

MERCEDES-BENZ

2010-13 S400

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

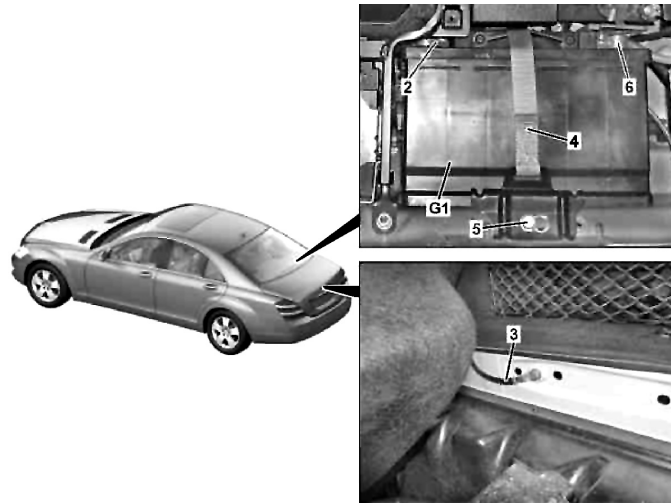
Removal

1. Lift cargo area floor paneling, remove bolt of ground line (3) of on-board electrical system battery (G1) on vehicle longitudinal member, and put down ground line (3), **Fig. 1**.
2. Loosen nut on ground line (2) and remove ground line (2) from terminal of on-board electrical system battery (G1), **Fig. 1**.

3. Remove bolt (5), place bracket to one side (4) and pull on-board electrical system battery (G1) forwards slightly, **Fig. 1**.
4. Remove cover, detach positive line (6) on on-board electrical system battery (G1), **Fig. 1**.
5. Detach vent hose from on-board electrical system battery.
6. Remove battery.

Installation

1. Install battery.
2. Attach vent hose to on-board electrical system battery. Observe kink-free routing of bleed hose, otherwise venting of on-board electrical system battery is not guaranteed.
3. Attach positive line and install cover. Pay attention to tight seating of positive line, otherwise damage can occur to positive terminal and electrical system.
4. Push on-board electrical system battery backwards slightly and install bracket (4), **Fig. 1**.
5. **Torque** battery bracket to body M8 bolt to 17 ft. lbs.
6. **Torque** battery bracket to body M6 bolt to 71 inch lbs.
7. Attach ground line to battery. Pay attention to tight seating of ground line, otherwise damage can occur to terminal of on-board electrical system battery and electrical system.
8. Attach ground line to vehicle body.
9. **Torque** ground line of battery to body bolt/nut to 12 ft. lbs.



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Fig. 1 Battery removal

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