

# MERCEDES-BENZ 2008-13 S550

## 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.

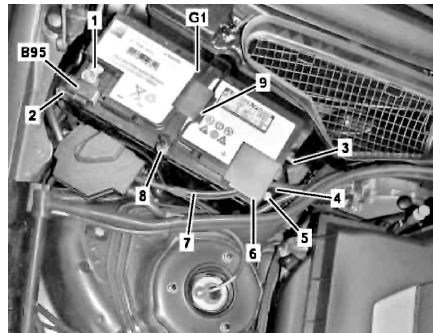
**Caution:** Wear acid-resistant gloves and clothing and safety glasses with side guards.

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.



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Fig. 1 Primary battery removal

## BATTERY Primary REMOVAL

1. Disconnect ground line (1) from on-board electrical system battery (G1). Do not disconnect ground line from starter battery if equipped, **Fig. 1**.
2. Unscrew bolt (5) and remove bracket (4), **Fig. 1**.
3. Unscrew nut (8) and remove retaining bracket (9), **Fig. 1**.
4. Remove battery terminal cover (6), **Fig. 1**.
5. Disconnect positive line (7) from on-board electrical system battery (G1), **Fig. 1**.
6. Detach vent hose (3), **Fig. 1**.
7. Remove on-board electrical system battery.

## INSTALLATION

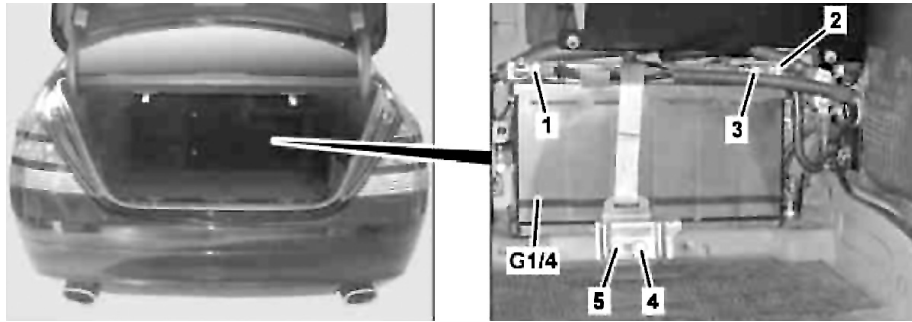
1. Install on-board electrical system battery.
2. Attach vent hose.
3. Connect positive line to on-board electrical system battery. Ensure that positive line is fitted securely to positive terminal, otherwise positive terminal and electrical system could be damaged.
4. Install battery terminal cover (6), **Fig. 1**.
5. Install retaining bracket (9), **Fig. 1**.
6. Install bracket (4), **Fig. 1**.
7. Connect ground line to on-board electrical system battery. Ensure that ground line is fitted securely to terminal, otherwise terminal and electrical system could be damaged.

## Starter REMOVAL

1. Disconnect ground line (1) on starter battery (G1/4) and on-board electrical system battery (primary), **Fig. 2**.
2. Remove bolt (4), place bracket (5) to one side, and pull starter battery (G1/4) forwards slightly, **Fig. 2**.
3. Remove cover (2) and disconnect positive line (3) on positive terminal of starter battery (G1/4), **Fig. 2**.
4. Detach vent hose from starter battery.
5. Remove starter battery.

## INSTALLATION

1. Install starter battery.
2. Attach vent hose to starter battery. Observe routing without kinks of vent hose, otherwise ventilation of starter battery is not guaranteed.
3. Connect positive line to starter battery. Pay attention to tight seating of positive line, otherwise damage to positive terminal and electrical system can occur.
4. Install cover (2), **Fig. 2**.
5. Push starter battery backwards slightly; ensure battery is seated properly.
6. Install bracket (5), **Fig. 2**.
7. **Torque** battery bracket to body M8 bolt to 17 ft. lbs.
8. **Torque** battery bracket to body M6 bolt to 71 inch lbs.
9. Connect ground line to starter battery. Pay attention to tight seating of ground line, otherwise damage to terminal and electrical system can occur.



**Fig. 2 Starter battery removal**

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