

MERCEDES-BENZ

2007 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.

BATTERY

Primary REMOVAL

1. Before disconnecting ground lines, voltage must be removed from vehicle by terminating internal on-board electrical system functions. Terminate internal on-board electrical system functions as follows:
 - a. Move selector lever position to "P."
 - b. Switch off all electrical consumers.
 - c. Turn transmitter key in EIS (EZS) control unit to position "0."
 - d. Turn transmitter key in EIS (EZS) control unit to position "2" and wait for approximately 30 seconds.
 - e. Turn transmitter key in EIS (EZS) control unit to position "0" and leave in EIS (EZS) control unit.
 - f. Internal on-board electrical system functions are now ended.
2. Loosen nut on ground line (1) and remove ground line (1) from terminal of starter battery (G1/4), **Fig. 1**.
3. Remove center paneling in trunk.
4. Remove bolt of ground line (2) of on-board electrical system battery (G1) on longitudinal member and set ground line (2) aside, **Fig. 1**.
5. Remove trim in center of trunk or implement carrier plate, if equipped.
6. Remove reinforcement at rear of rear shelf (3), **Fig. 2**.
7. Remove bracket (4) and pull out on-board electrical system battery (G1) slightly, **Fig. 2**.
8. Loosen nut on ground line (2) and remove ground line (2) from terminal of on-board electrical system battery (G1), **Fig. 1**.
9. Disconnect positive line (2) from positive terminal of on-board electrical system battery (G1), **Fig. 2**.
10. Detach vent hose from on-board electrical system battery.
11. Remove battery.

INSTALLATION

1. Install battery.
2. Attach vent hose to on-board electrical system battery. Observe kink-free routing of vent hose, otherwise venting of on-board electrical system battery is not guaranteed.
3. Connect positive line to terminal of on-board electrical system battery. Pay attention to tight seating of positive line,

- otherwise damage to terminal of on-board electrical system battery and electrical system can occur.
4. Connect ground line to terminal of on-board electrical system battery. Pay attention to tight seating of ground line, otherwise damage to terminal of on-board electrical system battery and electrical system can occur.
5. Push in on-board electrical system battery slightly, and ensure battery is seated securely.
6. Install bracket (4), **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. Install reinforcement at rear of rear shelf (3), **Fig. 2**.
10. Install trim in center of trunk or implement carrier plate, if equipped.
11. Install ground line of on-board electrical system battery on longitudinal member.
12. **Torque** ground line of battery to body bolt to 12 ft. lbs.
13. Install center paneling in trunk.
14. Connect ground line to terminal of starter battery. Pay attention to tight seating of ground line, otherwise damage to terminal of starter battery and electrical system can occur.

Starter REMOVAL

1. Disconnect ground line (4) from starter battery (G1/4). Do not disconnect ground line from on-board electrical system battery (primary), **Fig. 3**.
2. Remove retaining bracket (1), **Fig. 3**.
3. Disconnect positive lead (3) on starter battery (G1/4), **Fig. 3**.
4. Detach bleed hose (2), **Fig. 3**.
5. Remove starter battery.

INSTALLATION

1. Install starter battery.
2. Attach bleed hose (2), **Fig. 3**.
3. Connect positive lead to starter battery. Pay attention to tight seating of positive line, otherwise damage to terminal of starter battery and electrical system can occur.
4. Install retaining bracket (1), **Fig. 3**.
5. Connect ground line to starter battery. Pay attention to tight seating of ground line, otherwise damage to terminal of starter battery and electrical system can occur.

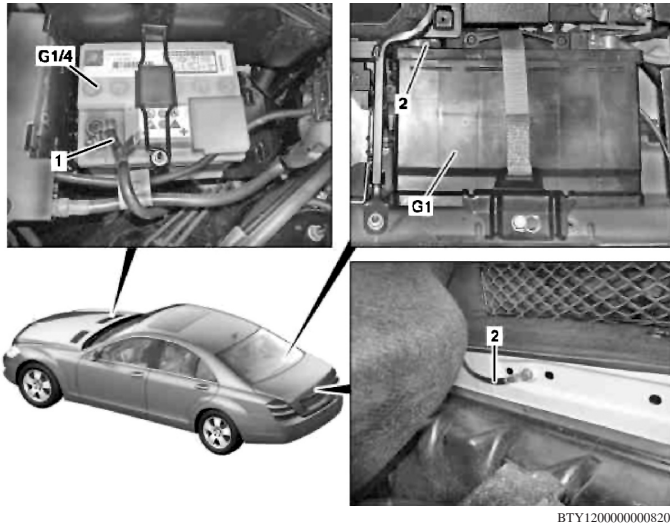


Fig. 1 Primary battery ground removal

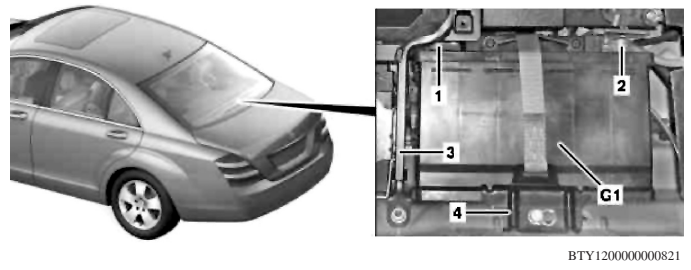


Fig. 2 Primary battery removal

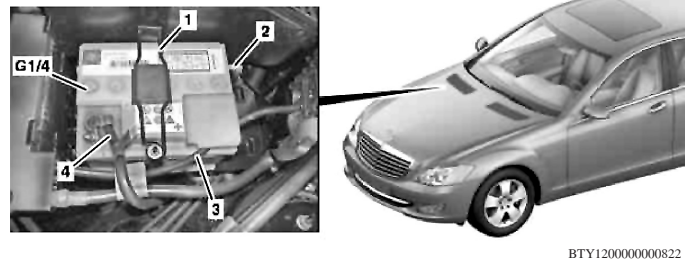


Fig. 3 Starter battery removal

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