

# MERCEDES-BENZ

## 2005-14 SL65 AMG

### 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

#### LESS (P99) AMG BLACK SERIES

#### REMOVAL

1. Switch off all electrical consumers.

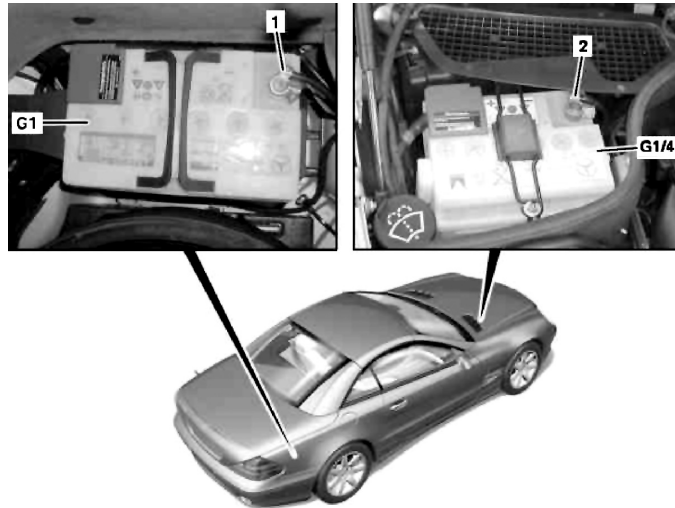


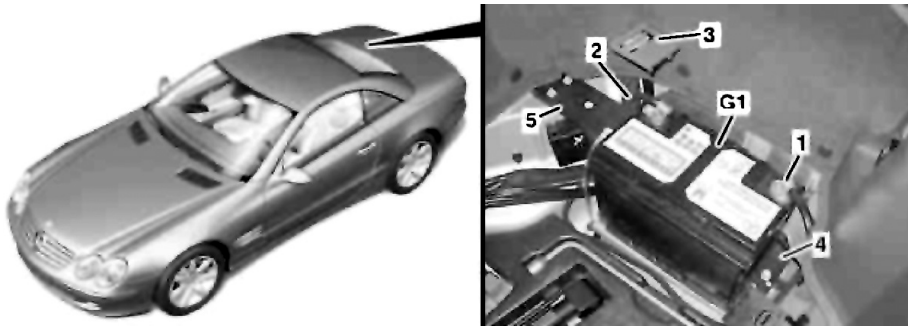
Fig. 1 Primary battery ground removal. Less (P99) AMG black series

2. Set Telematic Alarm Identification on Demand (TELE AID) in service mode, if equipped. This prevents discharge of additional battery and an emergency call signal from being sent.
  3. Switch off ignition and remove transmitter key from EIS control unit, or press Keyless-Go start/stop button repeatedly until ignition is switched off. Remove Keyless-Go chip card or transmitter key from vehicle, and store beyond reach of transmitter (at least six feet).
  4. Unhook trunk partition.
  5. Remove spare tire cover.
  6. Loosen nut, and disconnect ground line (1) from on-board electrical system battery (G1), Fig. 1.
  7. Open engine hood and raise to vertical position.
  8. Loosen nut, and disconnect ground cable (2) from starter battery (G1/4). Before disconnecting ground line (2) from starter battery (G1/4), ground line (1) must be disconnected from on-board electrical system battery (G1), otherwise components of electrical system may become damaged, Fig. 1.
  9. Remove bracket (4), Fig. 2.
  10. Remove positive terminal cover (3), Fig. 2.
  11. Loosen nut and disconnect positive lead (2) from on-board electrical system battery (G1), Fig. 2.
  12. Remove battery. Use carrying strap.
1. Insert on-board electrical system battery (G1), and push against support (5), Fig. 2.
  2. Connect positive lead to on-board electrical system battery. Ensure that positive line is seated tightly, otherwise terminal may be damaged.
  3. Install positive terminal cover.
  4. Install bracket (4), Fig. 2.
  5. Connect ground cable to starter battery (G1/4), Fig. 1. Ensure that ground line is seated tightly, otherwise terminal may be damaged.
  6. Connect ground cable to on-board electrical system battery. Ensure that ground line is seated tightly, otherwise terminal may be damaged.
  7. Install spare tire cover.
  8. Install trunk partition.
  9. Activate steering angle sensor as follows:
    - a. If battery was disconnected or voltage supply to steering angle sensor was interrupted, ESP, SPS (PML) and BAS control unit switches to malfunction mode. This message appears in multifunction display when battery has been disconnected, "EI-STAB-PROGRAM - GO TO GARAGE."
    - 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 - GO TO GARAGE" goes out in multifunction display.
    - e. Switch off engine.

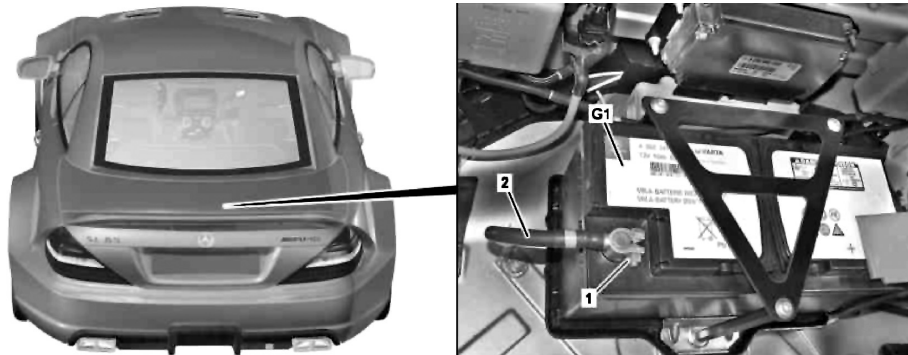
#### INSTALLATION

If the on-board electrical system battery is replaced, the venting reservoir must be modified.

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**Fig. 2 Primary battery removal. Less (P99) AMG black series**



**Fig. 3 Primary battery ground removal. With (P99) AMG black series**

## WITH (P99) AMG BLACK SERIES

### REMOVAL

1. Switch off ignition and remove transmitter key from EIS control unit, or press Keyless-Go start/stop button repeatedly until ignition is switched off. Remove Keyless-Go chip card or transmitter key from vehicle, and store beyond reach of transmitter (at least six feet).
2. Unhook trunk partition.
3. Remove trunk floor.
4. Remove stowage box/tray for vehicle tool kit.
5. Loosen nut (1), and disconnect ground lead (2) from on-board electrical system battery (G1), **Fig. 3**.
6. Lift off cover (1) of positive terminal, **Fig. 4**.
7. Loosen nut (2), and disconnect positive line from battery, **Fig. 4**.
8. Pull off vent hose (3), **Fig. 4**.
9. Undo bolts (4) and remove bracket (5), **Fig. 4**.
10. Remove bolt (6) and bracket (7), **Fig. 4**.
11. Remove on-board electrical system battery.

### INSTALLATION

1. Install on-board electrical system battery.
2. Install bracket (7), **Fig. 4**.
3. Install bracket (5), **Fig. 4**.
4. Install vent hose.
5. Connect positive line to battery. Ensure that positive line is seated tightly, otherwise terminal may be damaged.

6. **Torque** positive line terminal clamp nut to 53 inch lbs.
7. Install cover of positive terminal.
8. Connect ground cable to battery. Ensure that ground line is seated tightly, otherwise terminal may be damaged.
9. **Torque** ground line terminal clamp nut to 53 inch lbs.
10. Install stowage box/tray for vehicle tool kit.
11. Install trunk floor.
12. Install trunk partition.
13. Activate steering angle sensor as follows:
  - a. If battery was disconnected or voltage supply to steering angle sensor was interrupted, ESP, SPS (PML) and BAS control unit switches to malfunction mode. This message appears in multifunction display when battery has been disconnected, "EI-STAB-PROGRAM - GO TO GARAGE."
  - 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 - GO TO GARAGE" goes out in multifunction display.
  - e. Switch off engine.

## Starter

### REMOVAL

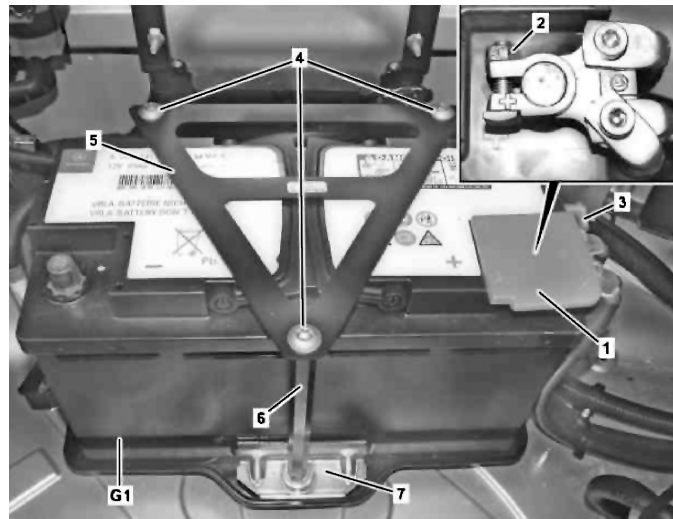
1. Switch off all electrical consumers.
2. Set Telematic Alarm Identification on Demand (TELE AID) in service mode, if equipped. This prevents discharge of additional battery and an emergency

- call signal from being sent.
3. Switch off ignition and remove transmitter key from EIS control unit, or press Keyless-Go start/stop button repeatedly until ignition is switched off. Remove Keyless-Go chip card or transmitter key from vehicle, and store beyond reach of transmitter (at least six feet).
4. Unhook trunk partition.
5. Remove spare tire cover.
6. Loosen nut, and disconnect ground line (1) from on-board electrical system battery (G1), **Fig. 1**.
7. Open engine hood and raise to vertical position.
8. Loosen nut, and disconnect ground cable (2) from starter battery (G1/4). Before disconnecting ground line (2) from starter battery (G1/4), ground line (1) must be disconnected from on-board electrical system battery (G1), otherwise components of electrical system may become damaged, **Fig. 1**.
9. Remove ventilation grille (5) on air inlet. Unclip both catch hooks on vent grille (5), **Fig. 5**.
10. Remove retaining bracket (4), **Fig. 5**.
11. Remove positive terminal cover (3), **Fig. 5**.
12. Slacken nut and disconnect positive line (2) from starter battery (G1/4), **Fig. 5**.
13. Remove battery.

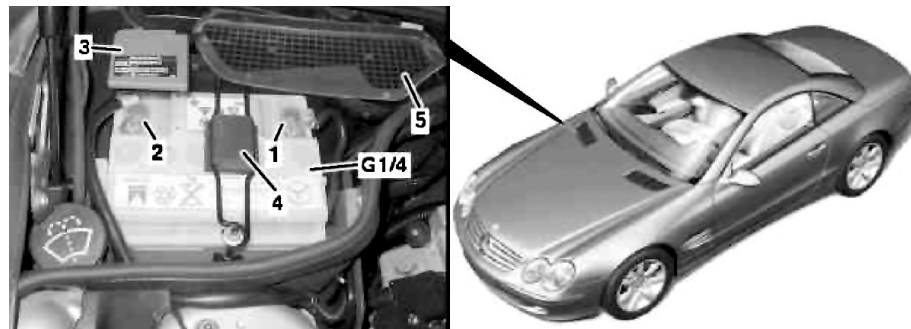
## INSTALLATION

If the on-board electrical system battery is replaced, the venting reservoir must be modified.

1. Connect positive line to starter battery. Ensure that positive line is seated tightly, otherwise terminal may be damaged.
2. Install positive terminal cover.
3. Install retaining bracket (4), **Fig. 5**.
4. Install ventilation grille on air inlet.
5. Connect ground cable to starter battery. Ensure that ground line is seated tightly, otherwise terminal may be damaged.
6. Connect ground cable to on-board electrical system battery. Ensure that ground line is seated tightly, otherwise terminal may be damaged.
7. Install spare tire cover.
8. Install trunk partition.
9. Activate steering angle sensor as follows:
  - a. If battery was disconnected or voltage supply to steering angle sensor was interrupted, ESP, SPS (PML) and BAS control unit switches to malfunction mode. This message appears in multifunction display when battery has been disconnected, "EI-STAB-PROGRAM - GO TO GARAGE."
  - 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 - GO TO GARAGE" goes out in multifunction display.
  - e. Switch off engine.



**Fig. 4 Primary battery removal. With (P99) AMG black series**



**Fig. 5 Starter battery removal**

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