

# MERCEDES-BENZ

## 2010-14 E350

### 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 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 conduc-

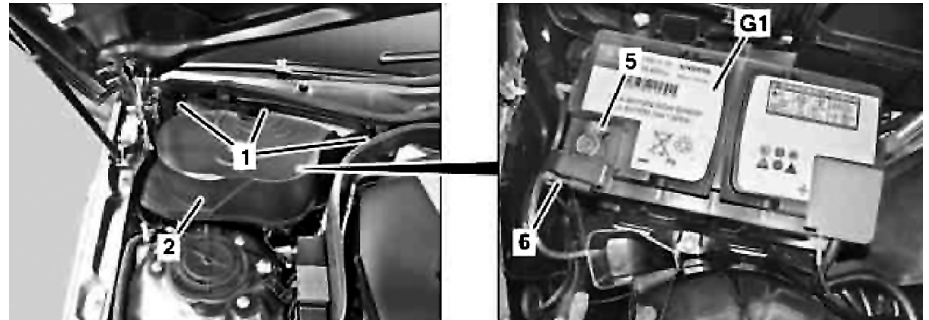


Fig. 1 Battery ground removal

**tive 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

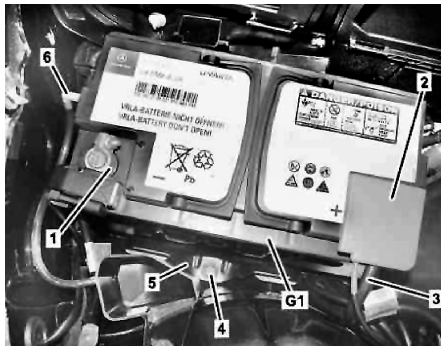
1. Unclip clamping springs (1), and remove air duct (2), **Fig. 1**.
2. Loosen nut (5), and remove and insulate ground line (6) from terminal of on-board electrical system battery (G1), **Fig. 1**.
3. Remove cover (2), **Fig. 2**.
4. Disconnect positive line (3) of on-board electrical system battery (G1), **Fig. 2**.
5. Disconnect vent hose (6) from on-board electrical system battery (G1), **Fig. 2**.

6. Remove bolts (4) of mounting rail (5), **Fig. 2**.
7. Remove mounting rail (5), **Fig. 2**.
8. Remove battery.

### Installation

1. Install battery.
2. Install mounting rail.
3. **Torque** battery mounting rail bolts to 15 ft. lbs.
4. Connect vent hose to on-board electrical system battery. Ensure vent hose (6) is correctly seated, otherwise escaping battery vapor will damage vehicle, **Fig. 2**.
5. Connect positive line to on-board electrical system battery. Pay attention to tight seating of positive terminal, otherwise electrical system may be damaged.
6. Install cover (2), **Fig. 2**.
7. Install ground line to terminal of on-board electrical system battery. Ensure that ground line is seated securely, otherwise electrical system can be damaged.
8. Install air duct and clip in clamps. Ensure that air duct (2) is seated correctly, **Fig. 1**.

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**Fig. 2 Battery removal**

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