

MERCEDES-BENZ

2003-07 E320 CDI, S & 4M

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 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. 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 transmitter key from vehicle

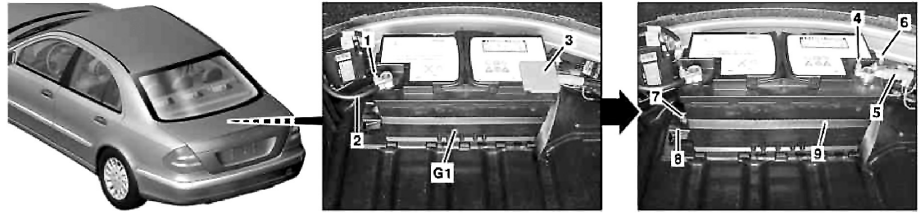


Fig. 1 Primary battery removal

2. Remove trunk floor covering from trunk.
3. Remove spare tire cover or spare tire well trim panel from trunk.
4. Loosen nut (1), and remove ground line (2) from battery (G1), Fig. 1.
5. Disconnect electrical connector from battery sensor, if required.
6. Remove positive terminal cover (3), Fig. 1.
7. Loosen nut (4), and remove positive line (5) from battery (G1), Fig. 1.
8. Pull off vent hose (6), Fig. 1.
9. Remove bolt (7), and remove bracket (8), Fig. 1.
10. Loosen retaining strap (9), and take battery (G1) with carrying yoke out of trunk, Fig. 1.

INSTALLATION

1. Install battery.
2. Pay attention to correct seating of battery in spare tire well.
3. Tighten retaining strap.
4. Install vent hose.
5. Install positive line to battery.
6. Connect electrical connector to battery sensor, if required.
7. Install ground line to battery. Ensure that ground line (2) is seated tightly, otherwise terminal may be damaged, Fig. 1.
8. Install spare tire cover or spare tire well trim panel.
9. Install trunk floor covering.
10. Set time on instrument cluster.
11. Calibrate power window, move respective window to upper stop and hold power window switch depressed for approximately one second.
12. Activating steering angle sensor as follows:
 - a. The following message appears in multifunction display when battery has been disconnected, "EI-STAB-PROGRAM - LOCATE WORKSHOP."
 - b. Start engine and run at idling speed.
 - c. Turn steering wheel from one lock position to the other, then center it.
 - d. The message, "EI-STAB-PROGRAM - LOCATE WORK-

13. Normalize panoramic glass roof as follows:
 - a. Remove panoramic glass roof fuse from fuse box.
 - b. Reinstall panoramic glass roof fuse.
 - c. Switch on ignition.
 - d. Move sliding roof lining to front and rear stop, and hold sliding roof lining switch depressed for approximately one second.
 - e. Move panoramic glass roof to front and rear stop, and keep roof switch depressed for approximately one second.
14. Normalize tilting/sliding roof as follows:
 - a. Remove tilting/sliding roof fuse from fuse box.
 - b. Reinstall tilting/sliding roof fuse.
 - c. Switch on ignition.
 - d. Move tilting/sliding roof to front and rear stop, and keep roof switch depressed for approximately one second.

Auxiliary

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 transmitter key from vehicle, and store at a location that is beyond transmitter range of at least 6 feet.
2. Remove trunk floor covering from trunk.
3. Remove spare tire cover or spare tire well trim panel from trunk.
4. Loosen nut (1), and remove ground line (2) from battery (G1), Fig. 1.
5. Open engine hood and raise to vertical.
6. Remove housing (1), Fig. 2.
7. Open ground terminal cover (2) of auxiliary battery (G1/1), Fig. 2.
8. Remove bolt (4) of ground line, and remove ground line, Fig. 2.
9. Open positive terminal cover (3) on auxiliary battery (G1/1), Fig. 2.
10. Remove bolt (4) from positive line, Fig. 2.

11. Remove nut (5) and fold bracket (6) upward, **Fig. 2**.
12. Remove auxiliary battery.

INSTALLATION

1. Install auxiliary battery.
2. Install nut (5) and fold bracket (6) downward, **Fig. 2**.
3. **Torque** bracket for auxiliary battery nut to 27 inch lbs.
4. Install positive line.
5. Install ground line.
6. **Torque** battery cable to battery terminal on auxiliary battery bolts to 27 inch lbs.
7. Close positive terminal cover.
8. Install housing (1), **Fig. 2**.
9. Install ground line (2) to battery (G1), **Fig. 1**.
10. Install spare tire cover or spare tire well trim panel.
11. Install trunk floor covering.
12. Set time on instrument cluster.
13. Calibrate power window, move respective window to upper stop, and hold power window switch depressed for approximately one second.
14. Activate steering angle sensor as follows:
 - a. This message appears in multifunction display when battery has been disconnected, "EI-STAB-PROGRAM - LOCATE WORKSHOP."
 - b. Start engine and run at idling speed.
 - c. Turn steering wheel from one lock position to the other, then center it.
 - d. The message, "EI-STAB-PROGRAM - LOCATE WORKSHOP," goes out in multifunction display.

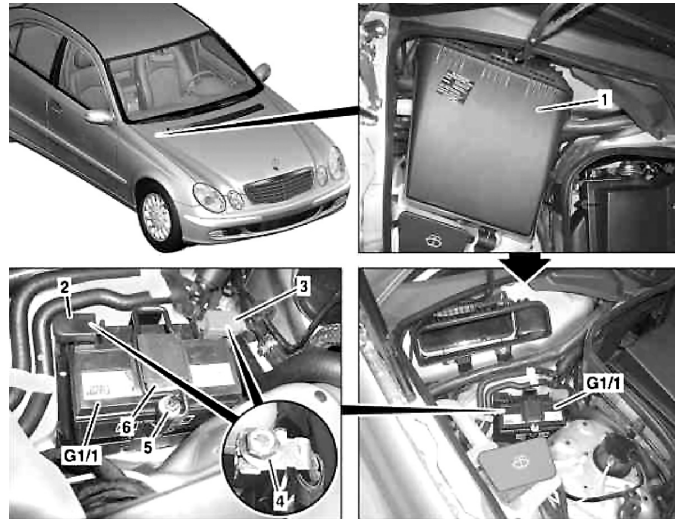


Fig. 2 Auxiliary battery removal

15. Normalize panoramic glass roof as follows:
 - a. Remove panoramic glass roof fuse from fuse box.
 - b. Reinstall panoramic glass roof fuse.
 - c. Switch on ignition.
 - d. Move sliding roof lining to front and rear stop, and hold sliding roof lining switch depressed for approximately one second.
 - e. Move panoramic glass roof to front and rear stop, and keep roof switch depressed for approximately one second.
16. Normalize tilting/sliding roof as follows:
 - a. Remove tilting/sliding roof fuse from fuse box.
 - b. Reinstall tilting/sliding roof fuse.
 - c. Switch on ignition.
 - d. Move tilting/sliding roof to front and rear stop, and keep roof switch depressed for approximately one second.

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