

CHEVROLET

2006-11 Impala 3.5L & 3.9L

PRECAUTIONS

Warning: Batteries produce explosive gases, contain corrosive acid, and supply levels of electrical current high enough to cause burns. Therefore, to reduce the risk of personal injury when working near a battery: Always shield your eyes and avoid leaning over the battery whenever possible; do not expose the battery to open flames or sparks; do not allow the battery electrolyte to contact the eyes or skin; flush immediately and thoroughly any contacted areas with water, and get medical help.

Warning: Unless directed otherwise, the ignition and start switch must be in the OFF or LOCK position, and all electrical loads must be OFF before servicing any electrical component. Disconnect the battery ground cable to prevent an electrical spark should a tool or equipment come in contact with an exposed electrical terminal. Failure to follow these precautions may result in personal injury and/or damage to the vehicle or its components.

For vehicles equipped with OnStar® (UE1) with Back Up Battery, the back up battery is a redundant power supply to allow limited OnStar® functionality in the event of a main vehicle battery power disruption to the VCIM (OnStar® module). Do not disconnect the main vehicle battery or remove the OnStar® fuse with the ignition key in any position other than OFF. Retained Accessory Power (RAP) should be allowed to time out or be disabled (simply opening the driver door should disable RAP) before disconnecting power. Disconnecting power to the OnStar® module in any way while the ignition is ON or with RAP activated may cause activation of the OnStar® Back Up

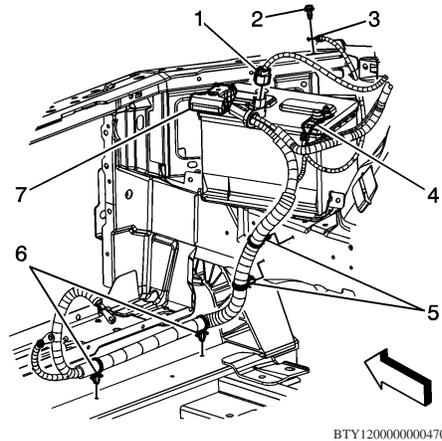


Fig. 1 Battery cable disconnection

Battery (BUB) system and will discharge and permanently damage the BUB. Once the BUB is activated, it will stay on until it has completely discharged. The BUB is not rechargeable and, once activated, the BUB must be replaced.

BATTERY Removal

Caution: When performing service on or near the SIR components or the SIR wiring, the SIR system must be disabled. Failure to observe the correct procedure could cause deployment of the SIR components, personal injury, or unrequired SIR system repairs.

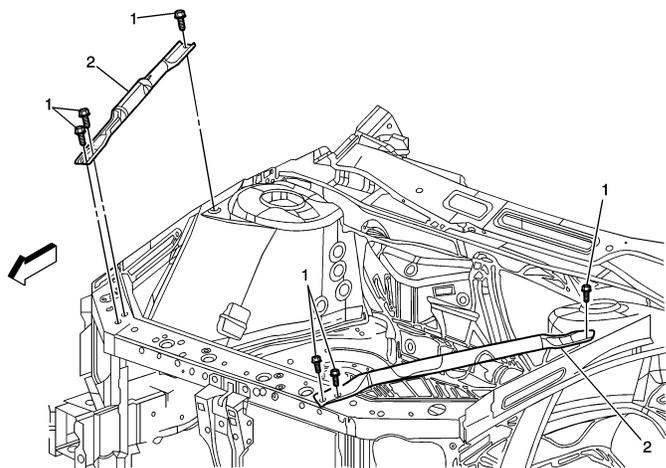
1. Record radio anti-theft code and station presets.
2. Turn off all lamps and accessories.
3. Turn ignition switch to OFF position.

4. Loosen battery ground cable terminal nut.
5. Disconnect battery ground cable (4) from battery, **Fig. 1**.
6. Remove righthand front fender upper diagonal brace, **Fig. 2**.
7. Open battery positive cable terminal cover (7), **Fig. 1**.
8. Loosen battery positive cable terminal nut.
9. Disconnect battery positive cable from battery.
10. Remove battery insulator, **Fig. 3**.
11. Remove battery hold down retainer bolts and retainer, **Fig. 4**.
12. Remove battery from vehicle. Do not tip battery more than 40 degrees during removal.

Installation

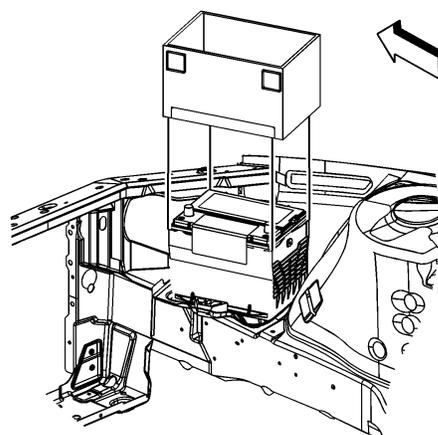
Clean any existing oxidation from the contact face of the battery terminal and battery cable using a wire brush before installing the battery cable to the battery.

1. Install battery to vehicle. Do not tip battery more than 40 degrees during installation.
2. Install battery hold down retainer and bolts, **Fig. 4**. **Torque** bolts to 13 ft. lbs.
3. Install battery insulator, **Fig. 3**.
4. Connect positive battery cable to battery, and **torque** cable terminal nut to 11 ft. lbs.
5. Close battery positive cable terminal cover.
6. Install righthand front fender upper diagonal brace and bolts, **Fig. 2**. **Torque** bolts to 35 ft. lbs.
7. Connect battery ground cable (4) to battery, **Fig. 1**. **Torque** cable terminal nut to 11 ft. lbs.
8. Reset all preset and theft codes previously recorded to radio.



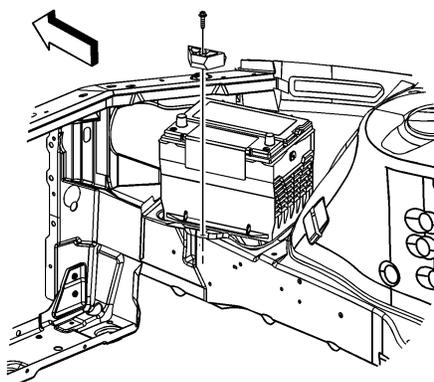
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Fig. 2 Front fender upper diagonal brace removal



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Fig. 3 Battery insulator removal



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Fig. 4 Battery hold down retainer removal

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