

GMC

2010-14 Terrain

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 the 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 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

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 (1), **Fig. 1**.
5. Disconnect battery ground cable (2) from battery, **Fig. 1**.
6. Remove battery cover (1), **Fig. 2**.
7. Remove Engine Control Module (ECM) bracket bolts (2), **Fig. 2**.
8. Remove battery hold down retainer bracket bolt (4) and nut (5), **Fig. 2**.
9. Remove ECM bracket/battery hold down retainer with ECM (3) and position aside, **Fig. 2**.
10. Loosen battery positive cable terminal nut (2), **Fig. 3**.
11. Disconnect battery positive cable (4) from battery, **Fig. 3**.
12. Remove front bumper fascia opening cover, **Fig. 4**.
13. Remove battery (6) from battery tray, **Fig. 2**.

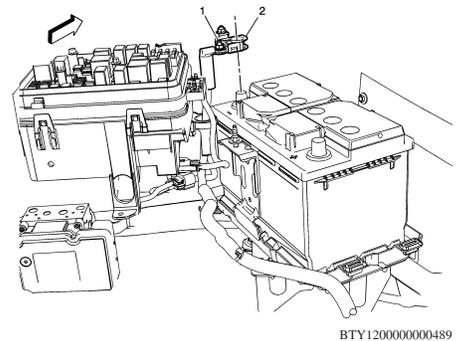


Fig. 1 Battery ground cable disconnection

Installation

Clean any existing corrosion from the battery terminal bolt flange and the battery cable end.

1. Install battery to battery tray.
2. Install front bumper fascia opening cover, **Fig. 4**.
3. Connect battery positive cable (4) to battery, **Fig. 3**. **Torque** cable terminal nut to 88 inch lbs.
4. Install ECM bracket/battery hold down retainer with ECM (3), **Fig. 2**. **Torque** battery hold down retainer bracket bolt (4) and nut (5) to 80 inch lbs.
5. Install ECM bracket bolts (2), **Fig. 2**. **Torque** bolts to 80 inch lbs.
6. Install battery cover (1), **Fig. 2**.
7. Connect battery ground cable (2) to battery, **Fig. 1**. **Torque** cable terminal nut to 89 inch lbs.
8. Reset all preset and theft codes previously recorded to radio.

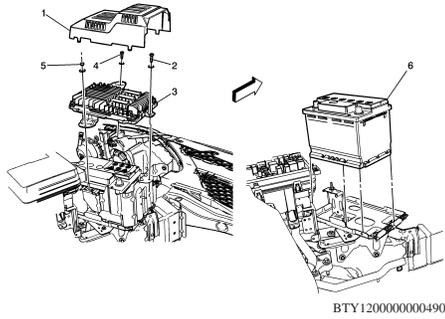


Fig. 2 Battery removal

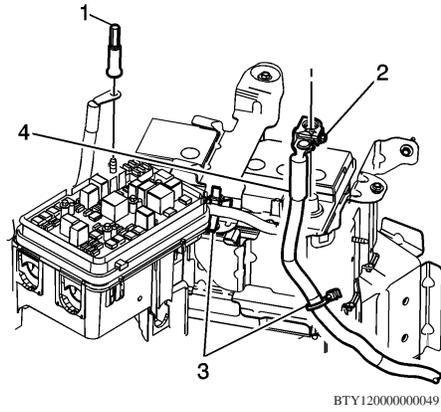


Fig. 3 Battery positive cable disconnection

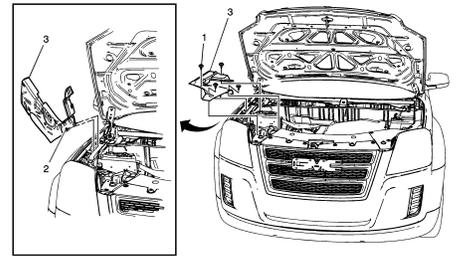


Fig. 4 Front bumper fascia opening cover removal

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