

# CHEVROLET

## 1997-2005 Venture

### PRECAUTIONS

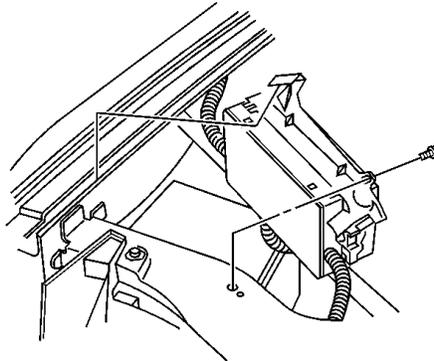
**Warning:** Batteries generate hydrogen gas, which is extremely flammable and may explode violently if ignited by a spark or a flame. Battery acid is extremely corrosive and causes severe personal injury if the acid comes into contact with the skin, and blindness if the acid comes into contact with the eyes. In order to avoid severe personal injury, use extreme caution when servicing the battery or battery-related components.

**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

- Record radio anti-theft code and station presets.
- Turn off all lamps and accessories.
- Turn ignition switch to OFF position.
- Remove underhood electrical center cover.
- Remove bolt retaining underhood electrical center to upper tie bar.
- Rotate and remove underhood electrical center from righthand sheet metal diagonal brace and position aside, **Fig. 1**.
- Partially remove hood rear seal to gain



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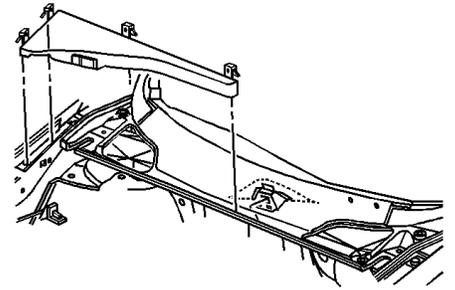
**Fig. 1 Electrical center removal**

- access to windshield wiper module cover retainers.
- Remove windshield wiper module cover, **Fig. 2**.
- Remove bolt from rear hole in righthand front end sheet metal diagonal brace at wheelhouse, **Fig. 3**.
- Remove bolts from front of righthand front end sheet metal diagonal brace at upper tie bar.
- Remove righthand front end sheet metal diagonal brace from engine compartment.
- Loosen battery ground cable bolt, and disconnect ground cable from battery, **Fig. 4**.
- Loosen battery positive cable bolt, and disconnect positive cable from battery.
- Remove battery hold down retainer bolt and retainer, **Fig. 5**.
- Remove battery from vehicle. Do not tip battery more than 40°.
- Remove battery insulator from battery, **Fig. 6**.

### Installation

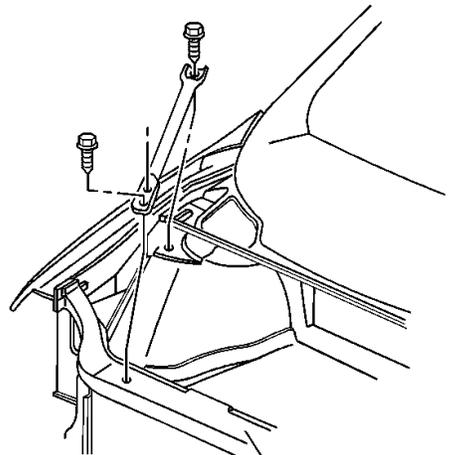
Clean any existing corrosion from the battery terminal bolt flange and the battery cable end.

- Install battery insulator to battery, **Fig. 6**.
- Install battery and ensure that battery is positioned properly in battery tray. Do not tip battery more than 40°.
- Install battery hold down retainer and bolt, **Fig. 5**. **Torque** bolt to 13 ft. lbs.
- Install battery positive cable to battery, and **torque** cable bolt to 12 ft. lbs.
- Install battery ground cable to battery, **Fig. 4**. **Torque** cable bolt to 12 ft. lbs.
- Install righthand front end sheet metal diagonal brace, **Fig. 3**.
- Install righthand diagonal brace bolts at upper tie bar, and **torque** to 18 ft. lbs.
- Install righthand diagonal brace bolts at wheelhouse, and **torque** to 34 ft. lbs.



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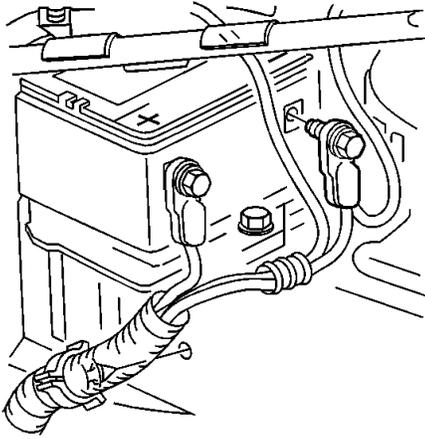
**Fig. 2 Windshield wiper module cover removal**



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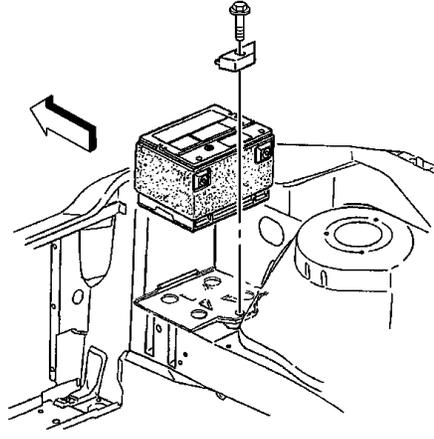
**Fig. 3 Righthand front end sheet metal diagonal brace removal**

- Place underhood electrical center to righthand sheet metal diagonal brace and rotate into position, **Fig. 1**.
- Install underhood electrical center retaining bolt at upper tie bar.
- Install underhood electrical center cover.
- Reset all preset and theft codes previously recorded to radio.
- Initialize power sliding doors as follows:
  - Turn On/Off switch for power sliding door system to be initialized to OFF position.
  - Manually open power sliding door completely.
  - Manually close and latch power sliding door.
  - Turn power sliding door On/Off switch to ON position.
  - Open power sliding door completely using B-pillar or overhead console Open/Close switch.
  - Close power sliding door completely using B-pillar or overhead console Open/Close switch.



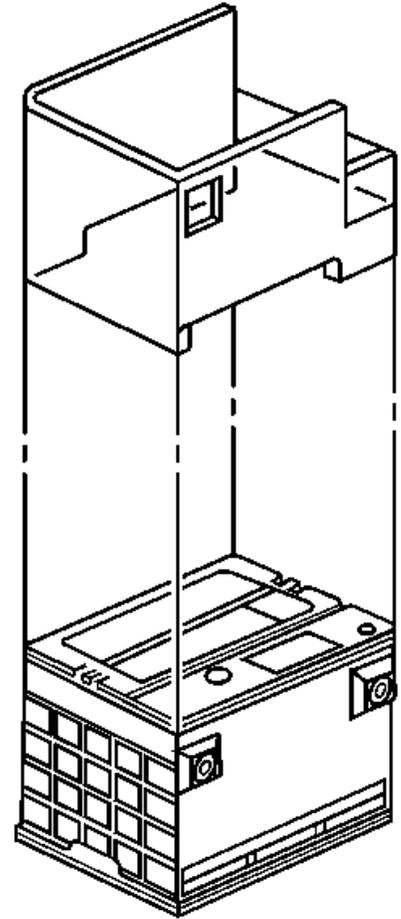
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**Fig. 4 Battery ground cable disconnection**



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**Fig. 5 Battery removal**



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**Fig. 6 Battery insulator removal**

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