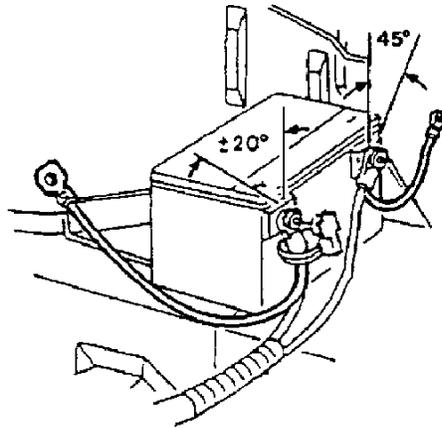


OLDSMOBILE 1990-2004 Silhouette

PRECAUTIONS

Caution: 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.

Caution: 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



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Fig. 1 Battery ground cable removal

injury, use extreme caution when servicing the battery or battery-related components.

The maintenance free battery is standard. There are no vent plugs in the cover. The battery is completely sealed except for two small vent holes in the sides. These vent holes allow the small amount of gas that is produced in the battery to escape.

Disconnecting the battery ground cable from the battery is recommended when performing many repair procedures. When this is done, certain memory functions are lost, such as radio and clock presets. Devices are available that eliminate the memory loss of the radio and the clock by providing just enough current to keep the memory alive, but not enough to cause a shock or burn hazard if contact is made with a current carrying lead or terminal.

A memory saving device can supply enough current to deploy the Supplemental Inflatable Restraint (SIR) air bag, which

may cause personal injury or the otherwise unneeded SIR system repairs. Therefore, always reference the appropriate service manual procedure for the vehicle system being serviced. If specifically directed by the service procedure for the component(s) being serviced, disable and enable the SIR system as outlined.

Whenever there is a reference to disconnect a battery ground cable or pull a fuse that powers the radio, it is required to unlock a Delco-Loc II® radio, if equipped.

Whenever the battery is disconnected, the power sliding door must be reinitialized.

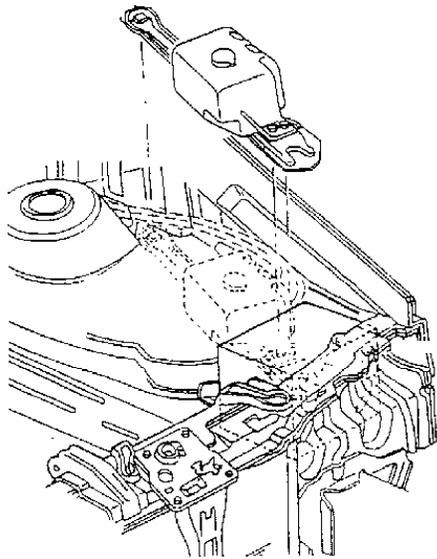
BATTERY

Removal

1. Disconnect battery ground cable, **Fig. 1**.
2. Disconnect battery positive cable.
3. Remove diagonal brace with washer reservoir attached and locate to side, **Fig. 2**.
4. Disconnect heat shield from battery, **Fig. 3**.
5. Remove battery hold down bolt and retainer, **Fig. 4**.
6. Remove battery from vehicle. Do not tip battery more than 40° during removal.

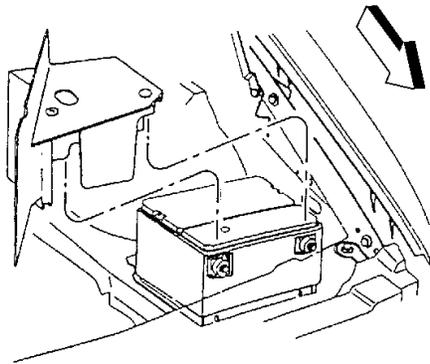
Installation

1. Install battery to vehicle.
2. Install retainer and hold down bolt.
3. **Torque** hold down bolt to 13 ft. lbs.
4. Install heat shield over battery.
5. Install diagonal brace and washer reservoir and bolts.
6. Connect battery positive cable.
7. **Torque** battery positive cable to 11 ft. lbs.
8. Connect battery ground cable.
9. **Torque** battery ground cable to 11 ft. lbs.



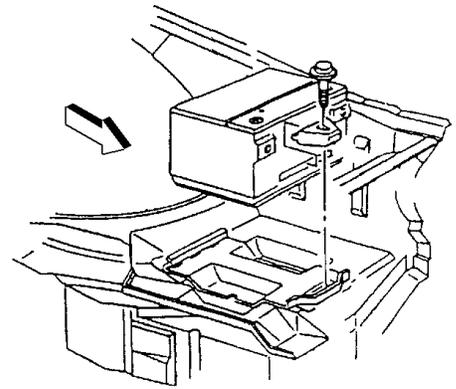
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Fig. 2 Diagonal brace with washer reservoir removal



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Fig. 3 Battery heat shield removal



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Fig. 4 Battery removal

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