

# JEEP

## 2011-14 Grand Cherokee

### PRECAUTIONS

**Warning:** The battery is vented to release excess hydrogen gas that is created when the battery is being charged or discharged. However, even with these vents, hydrogen gas can collect in or around the battery. If hydrogen gas is exposed to flame or sparks, it may ignite. Do not smoke, use flame, or create sparks near the battery. Personal injury and vehicle damage may result.

**Warning:** The battery contains sulfuric acid, which is poisonous and caustic. Avoid contact with skin, eyes, or clothing. In the event of contact, flush with water and call a physician immediately. Keep out of reach of children.

**Warning:** To protect the hands from battery acid, a suitable pair of heavy duty rubber gloves, not the household type, should be worn when removing or servicing a battery. Safety glasses also should be worn. Remove metallic jewelry worn on hands or wrists to avoid injury by accidental arcing of battery current.

**Warning:** If the battery shows signs of freezing, leaking or loose posts, do not test, assist-boost, or charge. The battery may arc internally and explode. Personal injury and/or vehicle damage may result.

It is important that the battery, starting system, and charging system be thoroughly tested and inspected any time a battery needs to be charged or replaced. The cause of abnormal discharge, over charging or early battery failure must be corrected before a battery is replaced or returned to service.

The battery Group Size number, the Cold Cranking Amperage (CCA) rating, and the Reserve Capacity (RC) rating or Ampere-Hours (AH) rating can be found on the original equipment battery label. Be

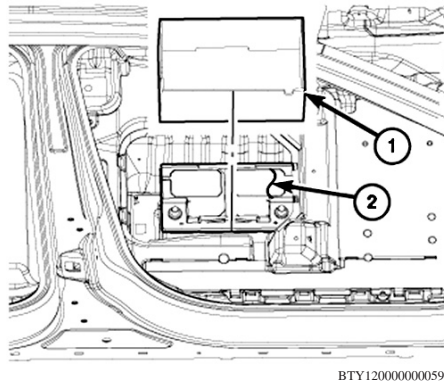


Fig. 1 Battery thermal blanket removal

certain that a replacement battery has the correct Group Size number, as well as CCA and RC or AH ratings that equal or exceed the original equipment specification for the vehicle being serviced.

### BATTERY Removal

The battery is located under the passenger seat. A breather line runs from the battery through the bottom of the recess well to the outside of the vehicle. The battery ground cable is attached to the outboard side of the battery compartment.

1. **On models equipped with power seats**, move passenger seat completely forward and move seat back to a full upright position.
2. **On models less power seats**, move passenger seat completely forward.
3. **On all models**, verify that ignition switch and all accessories are "OFF."
4. Remove battery cover.

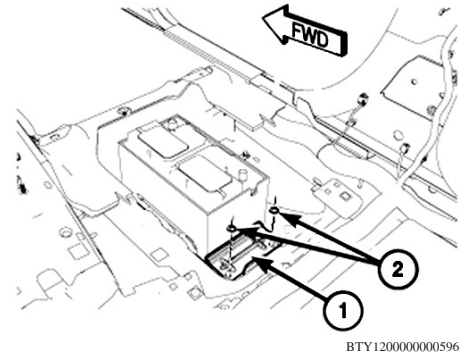


Fig. 2 Battery hold down removal

5. Disconnect battery ground cable from battery.
6. Disconnect battery positive cable from battery.
7. Remove battery thermal blanket (1) from battery (2), **Fig. 1**.
8. Remove battery hold down retainers (2), and remove battery hold down (1), **Fig. 2**.
9. Remove battery from vehicle.

### Installation

1. Install battery into vehicle.
2. Install battery hold down (1) into position, and install battery hold down retainers (2), **Fig. 2**.
3. **Torque** hold down retainer bolts to 15 ft. lbs.
4. Install battery thermal blanket.
5. Connect battery positive cable. **Torque** terminal clamp nut to 50 inch lbs.
6. Connect battery ground cable. **Torque** terminal clamp nut to 50 inch lbs.
7. Install battery cover.
8. Move seat back to its original position.

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