

# DODGE

## 2009-14 Avenger

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

Vehicles equipped with a diesel engine utilize a spiral cell battery with recombination technology. This is a maintenance-free battery that is capable of delivering more power than a conventional battery. This additional power is required by a diesel engine during cold cranking. Vehicles equipped with a gasoline engine utilize a conventional battery. **Warning: When using a high output boosting device or charging, do not allow a conventional battery to exceed 16 volts. Never exceed 14.4 volts when charging a spiral cell battery. Personal injury and/or battery 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 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.

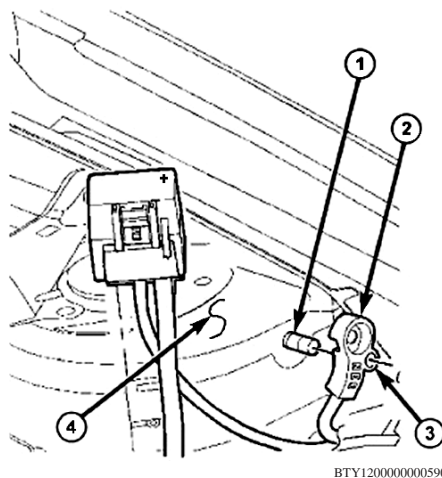


Fig. 1 Battery ground cable remote terminal location

### BATTERY

#### Removal

This vehicle is equipped with a single 12-volt battery. All of the components of the battery system are located in the front of the vehicle, just ahead of the lefthand front wheel and tire assembly.

The battery ground cable remote terminal must be disconnected and isolated from the remote battery post prior to service of the vehicle electrical systems. The battery ground cable remote terminal can be isolated by using the supplied isolation hole in the terminal casing.

Driver side splash shield is a two piece assembly to enable easy access for battery removal.

1. Disconnect and isolate battery ground cable remote terminal (2) from remote battery post (1), **Fig. 1**.
2. Raise and support vehicle.
3. Remove lefthand front wheel and tire assembly.
4. Remove retainers and remove forward section of front fender wheelhouse splash shield, **Fig. 2**.
5. Remove mounting nut, and position battery hold down bracket to one side.
6. Remove battery ground cable first, then remove positive cable from battery.
7. Remove battery from vehicle.

### Installation

1. Position battery in battery tray.
2. Connect battery positive cable first, then battery ground cable to battery. **Torque** battery cable clamp nut to 145 inch lbs.
3. Position battery hold down bracket and install bracket nut. **Torque** bracket nut to 142 inch lbs.
4. Install forward section of front fender wheelhouse splash shield.
5. Install lefthand front wheel and tire assembly.
6. Lower vehicle.
7. Connect battery ground cable remote terminal (2) from remote battery post (1), **Fig. 1**. **Torque** battery cable clamp nut to 45 inch lbs.

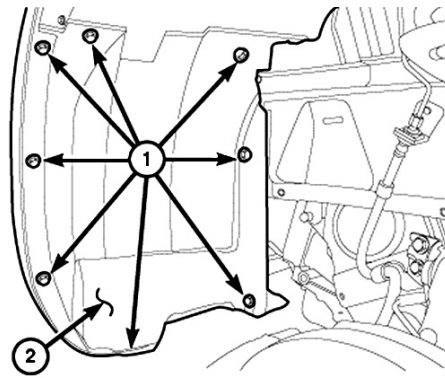
### Battery Connection

Once the battery has been connected, review and perform the following information as applicable. These connection procedures are to be performed any time the battery has been disconnected if the vehicle is equipped with these options.

### ELECTRONIC STABILITY CONTROL

If the vehicle is equipped with Electronic Stability Control, also known as Electronic Stability Program (ESP), once the battery is reconnected, the Steering Angle Sensor (SAS) needs to be calibrated. The SAS requires calibration any time the battery or an ABS (ESP) component has been disconnected for any length of time. If the SAS is not calibrated following battery connection, the ESP/BAS indicator lamp is illuminated following 5 ignition cycles indicating the need for calibration.

1. Start engine.
2. Center steering wheel.
3. Turn steering wheel in lefthand direction until internal stop in steering gear is met, then turn steering wheel in righthand direction until opposite internal stop in steering gear is met.
4. Center steering wheel.
5. Turn engine "Off."



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**Fig. 2 Front fender wheelhouse splash shield removal**

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