

# DODGE

## 2007-09 Sprinter 3500

### PRECAUTIONS

**Warning:** The battery is vented to release excess hydrogen gas that is created when 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 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.

**Warning:** If equipped with an auxiliary battery, never jump start the vehicle with the auxiliary battery. Vehicle jump starting should only be performed at the remote battery terminals in the engine compartment or at the main battery itself.

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.

### BATTERY

#### Main

The main vehicle battery is located in a floor well forward of the driver seat. A metal cover retained by four screws protects the top of the battery. To access the battery and battery cover the lefthand floor covering must be removed. A breather line runs from the battery through the bottom of the recess well to the outside of the vehicle.

#### REMOVAL

Removing the isolating connector only disconnects power to the main battery. If the vehicle is equipped with an auxiliary battery, that must be also be disconnected prior to vehicle service.

1. Verify that ignition switch and all accessories are "OFF."
2. Isolate main battery from vehicle electrical system as follows:
  - a. Take key out of ignition lock and wait for approximately 20 seconds.
  - b. Pull down on isolating connector locking tab (2), **Fig. 1**.
  - c. Pull connector (1) away from grounding stud, **Fig. 1**.
  - d. Clamp connector under accelerator pedal so that it cannot make contact with ground pin.
3. Remove retaining screws, and remove front door upper sill trim.
4. Remove front driver floor covering.
5. Remove retaining screws, and remove battery access cover by sliding it rearward and up.
6. Disconnect battery ground cable (5), **Fig. 2**.
7. Remove battery positive cable cover (4), and disconnect battery positive cable (3), **Fig. 2**.
8. Disconnect battery vent tube and elbow from battery vent cover (1), **Fig. 2**.
9. Remove battery hold down bolt (6), and remove hold in, **Fig. 2**.
10. Slide battery forward and lift it out of battery well using built in handles.

#### INSTALLATION

Ensure that the battery positive and ground terminal posts are correctly positioned. The battery cable terminal clamps must reach the correct battery terminal post without stretching the cables. Be certain that the battery cable terminal clamps are

connected to the correct battery terminal posts. Reverse battery polarity may damage electrical components of the vehicle.

1. Position battery onto battery tray.
2. Slide battery rearward to lock it in rear retaining tab.
3. Install battery hold down and retaining bolt. Tighten retaining bolt as required.
4. Disconnect battery vent tube and elbow from battery vent cover (1), **Fig. 2**.
5. Connect battery positive cable. **Torque** battery clamp hex nut to 105 inch lbs.
6. Connect battery ground cable. **Torque** battery clamp hex nut to 70 inch lbs.
7. Install battery access cover.
8. Install front floor covering.
9. Install front door upper sill trim.
10. Connect isolating connector.

### Auxiliary REMOVAL

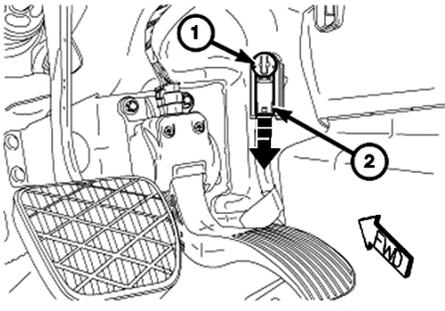
The auxiliary battery is located in the lefthand side of the engine compartment. The auxiliary battery is used to power optional equipment such as trailers, lift gates, refrigeration units, and service and emergency vehicles.

1. Disconnect auxiliary battery ground cable (1), **Fig. 3**.
2. Disconnect auxiliary battery positive cable (3), **Fig. 3**.
3. Remove fasteners (5) securing retaining brackets (4) to auxiliary battery tray, **Fig. 3**.
4. Remove retaining brackets (4), **Fig. 3**.
5. Remove auxiliary battery (2) from vehicle, **Fig. 3**.

### INSTALLATION

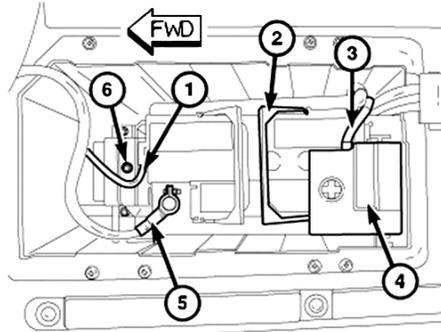
Ensure that the battery positive and ground terminal posts are correctly positioned. The battery cable terminal clamps must reach the correct battery terminal post without stretching the cables. Be certain that the battery cable terminal clamps are connected to the correct battery terminal posts. Reverse battery polarity may damage electrical components of the vehicle.

1. Position battery onto battery tray.
2. Install battery retaining brackets and fasteners. Tighten retaining fasteners as required.
3. Connect auxiliary battery positive cable (3), **Fig. 3**.
4. Connect auxiliary battery ground cable (1), **Fig. 3**.



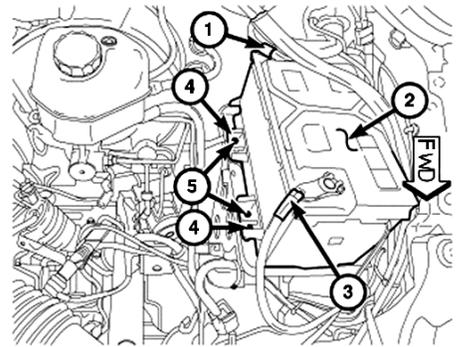
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**Fig. 1 Isolating connector removal**



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**Fig. 2 Main battery removal**



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**Fig. 3 Auxiliary battery removal**

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