

# JUMP STARTING

If your vehicle has a discharged battery, it can be jump started using a set of jumper cables and a battery in another vehicle or by using a portable battery booster pack. Jump starting can be dangerous if done improperly, so please follow the procedures in this section carefully.

## Note:

When using a portable battery booster pack, follow the manufacturer's operating instructions and precautions.

## WARNING:

Do not attempt jump starting if the battery is frozen. It could rupture or explode and cause personal injury.

## CAUTION:

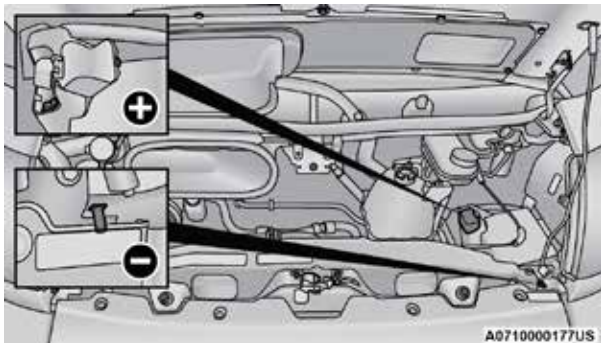
**Do not use a portable battery booster pack or any other booster source with a system voltage greater than 12 Volts or damage to the battery, starter motor, alternator or electrical system may occur.**

## Preparations For Jump Start

The vehicle's jump starting remote posts are located under the hood, in the engine compartment on the driver's side.

The Remote positive (+) Post is covered with a protective cap located on the side of the Front Power Distribution Center.

The Remote negative (-) Post is located on the core support closest to the front of the vehicle.



Remote Positive (+) Post
Remote Negative (-) Post

### Jump Starting Locations

See the following steps to prepare for jump starting:

1. Apply the parking brake, shift the automatic transmission into PARK (P) and turn the ignition to the OFF position.
2. Turn off the heater, radio, and all electrical accessories.
3. Pull upward and remove the protective cover over the remote positive (+) battery post.
4. If using another vehicle to jump start the battery, park the vehicle within the reach of the jumper cables, apply the parking brake and make sure the ignition is OFF.

## WARNING:

- Do not allow vehicles to touch each other as this could establish a ground connection and personal injury could result.
- Take care to avoid the radiator cooling fan whenever the hood is raised. It can start anytime the ignition switch is ON. You can be injured by moving fan blades.
- Remove any metal jewelry such as rings, watch bands and bracelets that could make an inadvertent electrical contact. You could be seriously injured.
- Batteries contain sulfuric acid that can burn your skin or eyes and generate hydrogen gas which is flammable and explosive. Keep open flames or sparks away from the battery.

# Jump Starting Procedure

## **WARNING:**

Failure to follow this jump starting procedure could result in personal injury or property damage due to battery explosion.

## **CAUTION:**

**Failure to follow these procedures could result in damage to the charging system of the booster vehicle or the discharged vehicle.**

### **Connecting The Jumper Cables**

1. Connect the positive (+) end of the jumper cable to the remote positive (+) post of the discharged vehicle.

#### **Note:**

The remote positive (+) post is located in the engine compartment on the driver's side under the cover of the Front Power Distribution Center.

2. Connect the opposite end of the positive (+) jumper cable to the positive (+) post of the booster battery.
3. Connect the negative (-) end of the jumper cable to the negative (-) post of the booster battery.
4. Connect the opposite end of the negative (-) jumper cable to the remote negative post or a good engine ground of the discharged vehicle. A "ground" is an exposed metallic/unpainted part of the engine, frame or chassis, such as an accessory bracket or large bolt. The ground must be away from the battery and the fuel injection system.

#### **Note:**

The remote negative (-) post is located in the front of the engine compartment on the driver's side.

## **WARNING:**

Do not connect the jumper cable to the negative (-) post of the discharged battery. The resulting electrical spark could cause the battery to explode and could result in personal injury.

5. Start the engine in the vehicle that has the booster battery. Let the engine idle a few minutes and then start the engine in the vehicle with the discharged battery.
6. Once the engine is started, follow the disconnecting procedure.

### **Disconnecting The Jumper Cables**

1. Disconnect the negative (-) end of the jumper cable from the remote negative (-) post of the vehicle with the discharged battery.
2. Disconnect the opposite end of the negative (-) jumper cable from the negative (-) post of the booster battery.
3. Disconnect the positive (+) end of the jumper cable from the positive (+) post of the booster battery.
4. Disconnect the opposite end of the positive (+) jumper cable from the remote positive (+) post of the discharged vehicle, and reinstall the protective cap.
5. Close the cover of the Front Power Distribution Center.

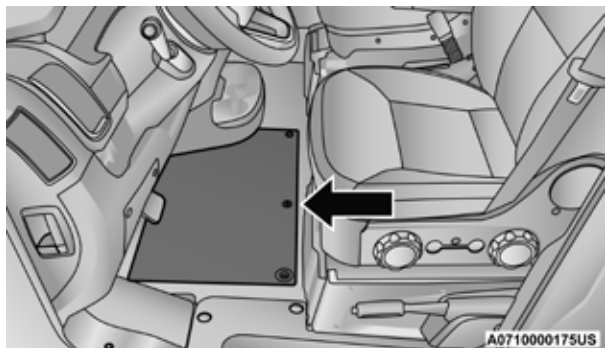
If frequent jump starting is required to start your vehicle you should have the battery and charging system inspected at an authorized dealer.

## **CAUTION:**

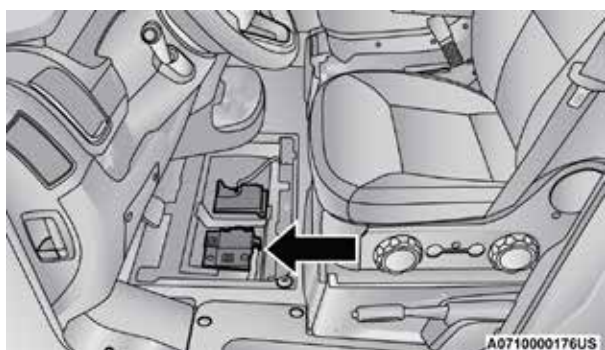
**Accessories plugged into the vehicle power outlets draw power from the vehicle's battery, even when not in use (i.e., cellular devices, etc.). Eventually, if plugged in long enough without engine operation, the vehicle's battery will discharge sufficiently to degrade battery life and/or prevent the engine from starting.**

# Battery Location

There are two remote jump starting posts under the hood which is the recommended jump start location. If access to the battery is needed, an access panel on the driver's side floor will allow for battery access.



Battery Access Panel



Battery Location