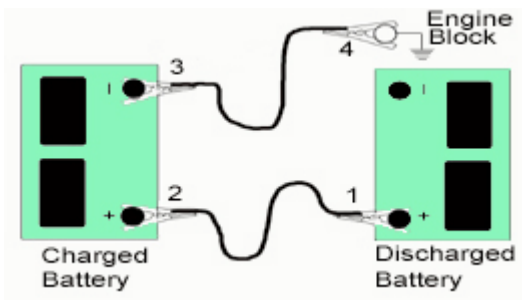




## Electrical System: Jump Start Procedure



**Description:** "Jump starting" is a procedure involving the proper sequence of connecting jumper cables from a vehicle with a good battery to a vehicle with a discharged battery.

**Purpose:** The proper jump-starting procedure increases the likelihood of success when starting a car with a discharged battery and minimizes the chances of vehicle damage.

**Maintenance Tips/Suggestions:** When possible, refer to your car's owner's manual for the recommended jump-start procedure and follow it exactly. Use extreme care when working around batteries as batteries emit explosive gas that can ignite if jumper cables are connected improperly. The following procedure outlines the general steps involved when jump-starting.

1. Make sure that the vehicles are not touching.
2. Turn off the engine and all electrical accessories.
3. Connect one of the positive (+) cable clamps (red) to the positive terminal of the discharged battery.
4. Connect the positive clamp (red) from the other end of the jumper cable to the positive (+) terminal of the good battery.
5. Connect the clamp from the negative jumper cable (black) to the negative (-) terminal of the good battery.
6. Connect the negative cable clamp (black) on the other end of the jumper cable to the engine block or other good engine metal surface on the vehicle with the discharged battery. **DO NOT CONNECT THE NEGATIVE CLAMP TO THE NEGATIVE (-) TERMINAL OF THE DISCHARGED BATTERY.** This may trigger a spark and result in explosion of the gases surrounding the battery, causing injury.
7. Make sure that the jumper cables are clear of all moving parts and start the engine of the vehicle with the discharged battery. To remove the cables, reverse the connection order, starting with the negative cable on the vehicle with the discharged battery.

After the vehicle with the discharged battery is running, take the vehicle to a reliable repair facility to have the electrical system tested and the cause of the discharged battery determined and corrected.

Information provided by the Car Care Council ([www.carcare.org](http://www.carcare.org))