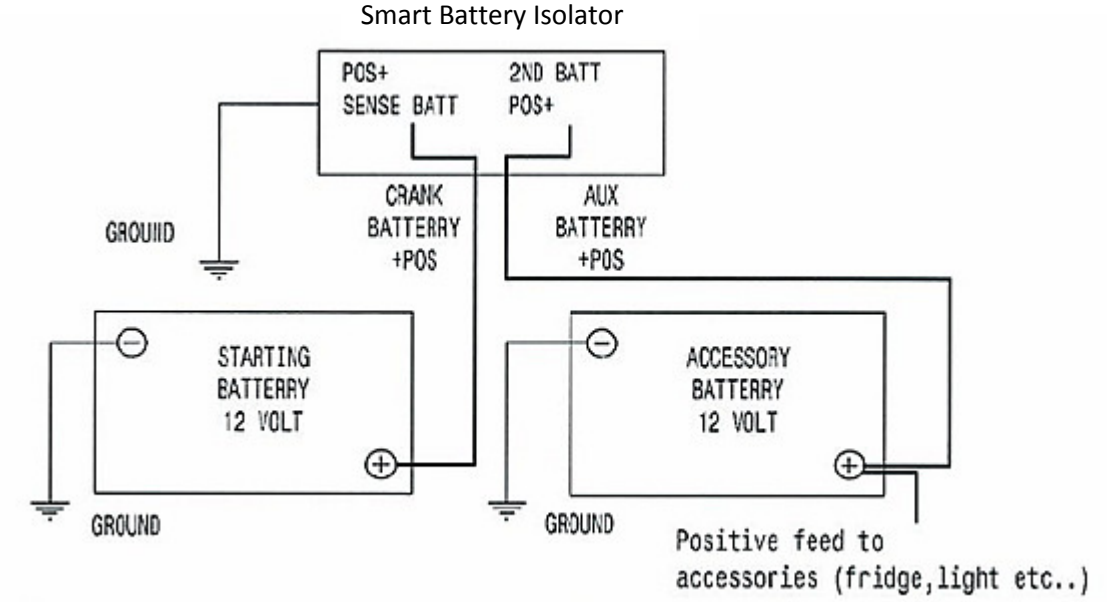
Smart Battery Isolator

The smart battery isolator allows two batteries to be charged at the same time. When the engine is started and the start battery reaches 13.4 volts, the relay engages, allowing two battery banks (start and accessory) to be charged simultaneously. When the voltage drops below 12.9 volts (eg the engine is stopped), the relay disengages, separating the batteries. This system eliminates the possibility of draining the start battery and protects sensitive electronic equipment powered with the accessory battery from harmful engine start up spikes.

Wiring Diagram



Wiring the relay:

1. The black wire coiled inside the relay needs terminated to a good ground location using the included blue crimp connector. This wire is simply used as a ground for activating the relay.

2. The terminal on the relay marked “Positive Sense Batt” should be connected to the positive terminal of the primary starting battery using 4-6ga red wire. A crimp connector should be used to attach the wire to the relay side and another crimp connector will attach the cable to a battery terminal.

Handy Tip: The side of the relay casing has break away tabs for the wires to pass thru.

3. The second terminal on the relay is marked “Second Batt Poitive” and should be connected to the positive side of the second battery using 4-6ga red wire in the same manner as above.

4. Black 4-6ga wire should be used to ground the second battery. Remember, your ground points are very important! Make sure you are grounding to a good, clean, solid metal surface.

Specifications:

- DC Power: 12V
- Continuous Current Rate: 140A
- Intermittent Current Rate: 170A
- Back-up Current at 12.5V: <=13.0mA
- Ignition Protection: UL1107/UL1500
- Operation Temperature Range: -30 to 105°C