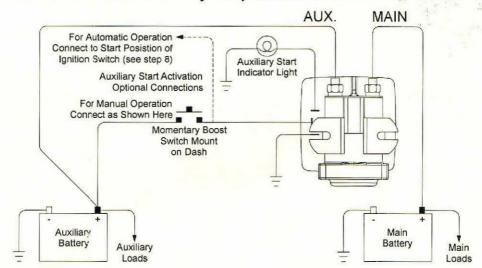
Sure Power Industries Battery Separator Model 1314-200/1315-200



Battery Separator Installation Instructions

- Mount the Battery Separator in a convenient location near the main battery bank. Do not mount in direct engine heat. Drill 7/32" holes for ½-20 self-threading screws and lock washer. For material less than 0.10" add a washer and nut (not included).
- 2. Connect one end of a new wire of the proper size (see wire size chart) to the main battery terminal of the Battery Separator.
- 3. Connect the opposite end of a wire installed in step #2 to the main battery positive (+) terminal.
- 4. Connect one end of wire of proper size (see wire size chart) to the auxiliary battery terminal of the Battery Separator.
- 5. Connect the opposite end of the wire installed in step #4 to the auxiliary battery positive (+) terminal.
- 6. Make sure the auxiliary battery is properly grounded to the vehicle chassis.
- 7. Ground Connection. Connect a #14 gauge wire between chassis ground and the Battery Separator ground terminal. This may momentarily activate the Battery Separator. This is normal.
- 8. Auxiliary Start Connection (optional). Automatic operation. Connect a #14 gauge wire from the start position of the ignition switch to the Start terminal of the Battery Separator. Make this connection at the ignition switch. This wire should only have voltage when the ignition switch is in the start position. Note: The start signal must be able to produce at least 3V* in order to provide automatic boost, see connection diagram above for manual operation option.
- Lamp Connections (optional). Connect a #14 gauge wire from the Lamp terminal of the Battery Separator to one
 end of an indicator lamp (250mA maximum current draw). Connect the opposite end of the lamp to the chassis
 ground. This lamp will illuminate when the auxiliary start function is activated.
- 10. Checking the Operation: The Battery Separator should now be operational. Start the vehicle or apply a charge to the main battery. Once the main battery rises to 13.2V* the Battery Separator should activate. Turn off the vehicle or remove the charge to the main battery. The Battery Separator should disconnect the auxiliary battery once the voltage on the main battery drops below 12.8V*.
- 11. If a model 1315-200 is used, apply a charge to the auxiliary battery. When auxiliary voltage rises above 13.2V*, the Battery Separator should activate. Remove charging unit, the Battery Separator should open when auxiliary battery is less than 12.8V*.
- 12. The auxiliary start function should activate the *Battery Separator* if the main battery voltage is lower than the auxiliary battery. The start terminal must see at least 3V* to activate. The auxiliary battery must read at least 10V*.

Recommended Battery Separator Wire Size Chart

Wire Length	Wire Gauge if using Auxiliary Start	Wire Gauge if not using Auxiliary Start
up to 10 feet	4 gauge	8 gauge
10 to 20 feet	2 gauge	6 gauge

Typical voltage settings have ± 2% tolerance.