

Anderson Powerpole Connectors

Installation Instructions, Suggestions and Hints

Revised August 1, 2006

I. All I.C. ARES Members are requested to install Powerpole connectors:

1. Why?
 - So all ARES transceivers power lead connections will be compatible with each other in North Carolina.
 - Adopted by N.C. ARES & ARRL
2. On all ac power supply “pigtail” leads from main terminals
 - Use proper gauge wire for pigtail based on amperage requirement
 - #14 for 15 amps, #12 for 20 amps and #10 for 30 amps
 - Install 2 or more pigtails on each supply where needed
 - There’s no other way to parallel sets using wire
3. On all mobile power supply leads
 - Use #10 gauge wire (**minimum**) from battery
 - Include a 30 amp fuse block close to battery + terminal if you install special wiring from battery

NOTE: Some recommend a fuse block & fuse in negative wire also.
4. On all transceiver factory supplied power leads
 - **DO NOT** remove or bypass factory in-line fuse(es)
5. Use the **30 amp size** Powerpole connectors
 - Unisex design
 - Sold in sets
 - 1 red and 1 black insulator, 2 terminals and 1 roll pin per set
 - Accepts up to #10 wire
 - **Suggest soldering wire into each terminal rather than crimping**
 - Allows for reuse of terminal
 - Does not require that special \$50 crimping tool. N4AVQ owns one.
 - Soldering prevents distortion of terminal
 - **DO NOT use excessive solder**
 - After soldering terminal onto wire it can be **snapped** into its insulator
6. Locking a Powerpole set
 - **CAUTION!** Make sure **orientation AND polarity** are correct to accept other mating set(s) on ALL transceivers and power supplies
 - **It IS possible** to connect **red** and **black** together on mating sets if not correctly oriented. Pay close attention to this!
 - Unisex design
 - **Slide lock** each set together properly (dovetailed)
 - Insert the short roll pin, **with glue on it**, into hole to keep them locked
 - **Lou, N2TU** uses heat shrink to hold each set together
7. **DOUBLE-CHECK !** - When you connect power supply leads to a transceiver make sure a **red** and **black** didn’t plug into each other before applying DC voltage. Re-orient as needed.

II. SAFETY FIRST - Always disconnect negative wire (ground) from vehicle battery before working on positive terminal of battery to prevent a short circuit to chassis.

III. Negative comment? Powerpole connector pairs are easy to be unplugged.