

INSTALLATION PROCEDURES

ALL INSTALLATIONS SHOULD BE MADE BY A LICENSED ELECTRICIAN WITH KNOWLEDGE OF HIGH VOLTAGE POWER INSTALLATIONS.

IMPORTANT NOTE:

Proper installation of EP units has a direct bearing on the units' effectiveness.

All installations must be secure. This means that after each installation, each and every connection should be checked to insure tightness. Poor connections may render the units inoperative.

The unit is intended for non-weather or indoor use only!

The EP unit must be installed on a 20 to 30 amp breaker. If none is available you must install a busman fuse of equal rating as per local codes.

Indicator Lamps show that the unit is connected to a phase. If the lamp should go out, remove the unit from power and replace the light to see if the bulb is defective. If lamp still does not light, the phase is blown. Disconnect the unit and return it to EP.

TOOLS REQUIRED:

The following is a list of the basic tools required for proper installations:

- Various size screwdrivers
- Set of Allen wrenches (3/16" to 1/2")
- Set of nut drivers (3/16" to 1/2")
- Set of open end wrenches (3/8" to 1/4")
- 6" crescent wrench
- Flashlight
- Pair of high voltage tolerant gloves
- Electrical tape
- Voltage testers up to 750V AC
- A 3/4" drill
- Set of drill bits
- Greenlee knockout punch (1/2").

WIRES:

The wires extending from each unit are coded to as per the national electrical code:

- Wires need to be as short as possible,
- Wires can be no less than 14 gauge wire, as comes with the unit from the Factory.
- Black Wire: Is the Load Conductor (Could also be Red)
- White Wire: Is the Neutral Conductor
- Green Wire: Is the Ground Conductor
- You will find a red wire on some models. This red wire is for the "High Leg" of a delta system.

INSTALLATION:

1. **SAFETY FIRST:** Turn off power. Make sure that you are standing on dry ground and that you will not be touching any metal or pipes, etc. while making the installation. Don't let anyone touch you while you are making the installation.
2. **REMOVE PANEL COVER:** Remove panel cover or open disconnect switch door.
3. **MOUNTING:** Once cover is off or door is open, knock out 1/2" hole in conventional circuit breaker panel and mount the Waveform Correction Absorber into the hole guiding the wires through first. Be careful that the wires do not touch any other bare parts of existing wires. After unit has been placed in hole, slide 1/2" lock nut over wires and screw onto nipple extending from the unit on inside of panel. Make sure lock nut is tight by tapping with screwdriver. Unit should now be securely in place.

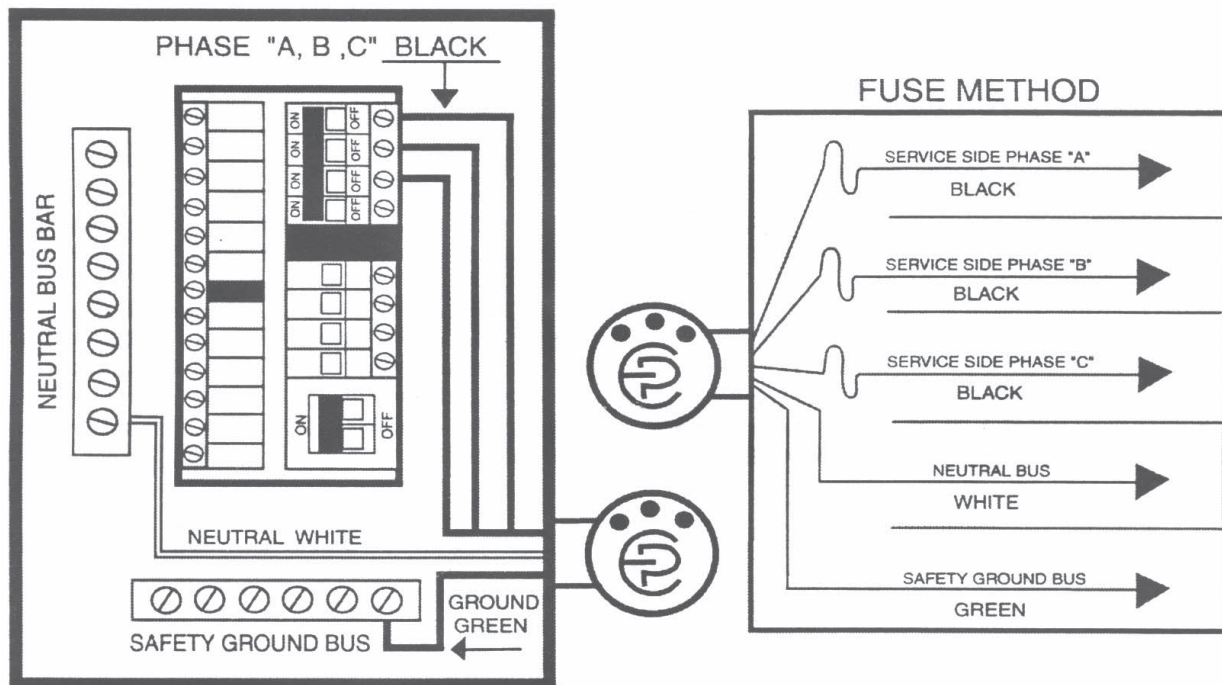
4. **WIRE CONNECTIONS:** Wearing your voltage rated safety gloves, first install the green wire to the ground bar. Next install the white wire, if any, to the neutral connecting bar. Carefully loosen one hot lead terminal while holding the hot lead wire with the other hand (so as not to let the wire pop out of its terminal).

After terminal is loose, install a black wire and tighten terminal. Use the same procedure on remaining black or red wires.

(The red wire is the "high leg" connection and should only be connected to the high leg of a Delta system. Never connect a black wire to the high leg of a Delta system!)

5. **RECHECK:** Make sure all connections are tight.

6. **REPLACE PANEL COVER:** Reinstall the panel cover or close disconnect switch door.



In some states the laws require that the EP unit is installed on its own breaker.
You must follow your local installation codes.