

## INSTALLING ELECTRIC HEAT SUB METERING GEAR

**NOTE: ONLY THE ELECTRIC HEATING EQUIPMENT IS TO BE SUB METERED. **DO NOT** INCLUDE THE WATER HEATER OR ANY OTHER APPLIANCE.**

The meter base must be mounted 5 ½ feet (66") above final grade (*ground level*) on the outside wall of the house. **It must be easily accessible to Corn Belt Energy personnel and not on or under a deck or in a garage, and not in an enclosed patio or deck.** Either end of the house is an ideal location since construction is rarely done there after the home is built.

The current transformer (CT) may be located in the main electrical panel or in a separate panel (*not provided by Corn Belt Energy*). The conductors for the electric heating equipment must run in opposite directions through the CT as shown on the diagram on the reverse side. The top of the breaker (*black wire*) will go through the H1 side of the CT and the bottom (*red wire*) will enter from the opposite side.

If more than one pair of red and black wires are used, (*baseboard heaters, for example*), the red wires must always come from the bottom terminal of each breaker and the black wire from the top terminal as long as all breakers are fed from the same buss. This is essential to maintain polarity and to insure accurate readings on the sub meter.

If the electric heat breakers are on both sides of the panel, the terminations of the red and black wires should be opposite to those on the other side as shown in the diagram on back.

The leads on the CT are to be connected to the meter lugs, but please leave at least 12 inches of excess wire in the meter base for our meterman to work with. The white wire goes to the upper left lug and the black wire goes to the lower left lug. Stranded or solid wire may be used.

**Use the following wire sizes for the following distances:**

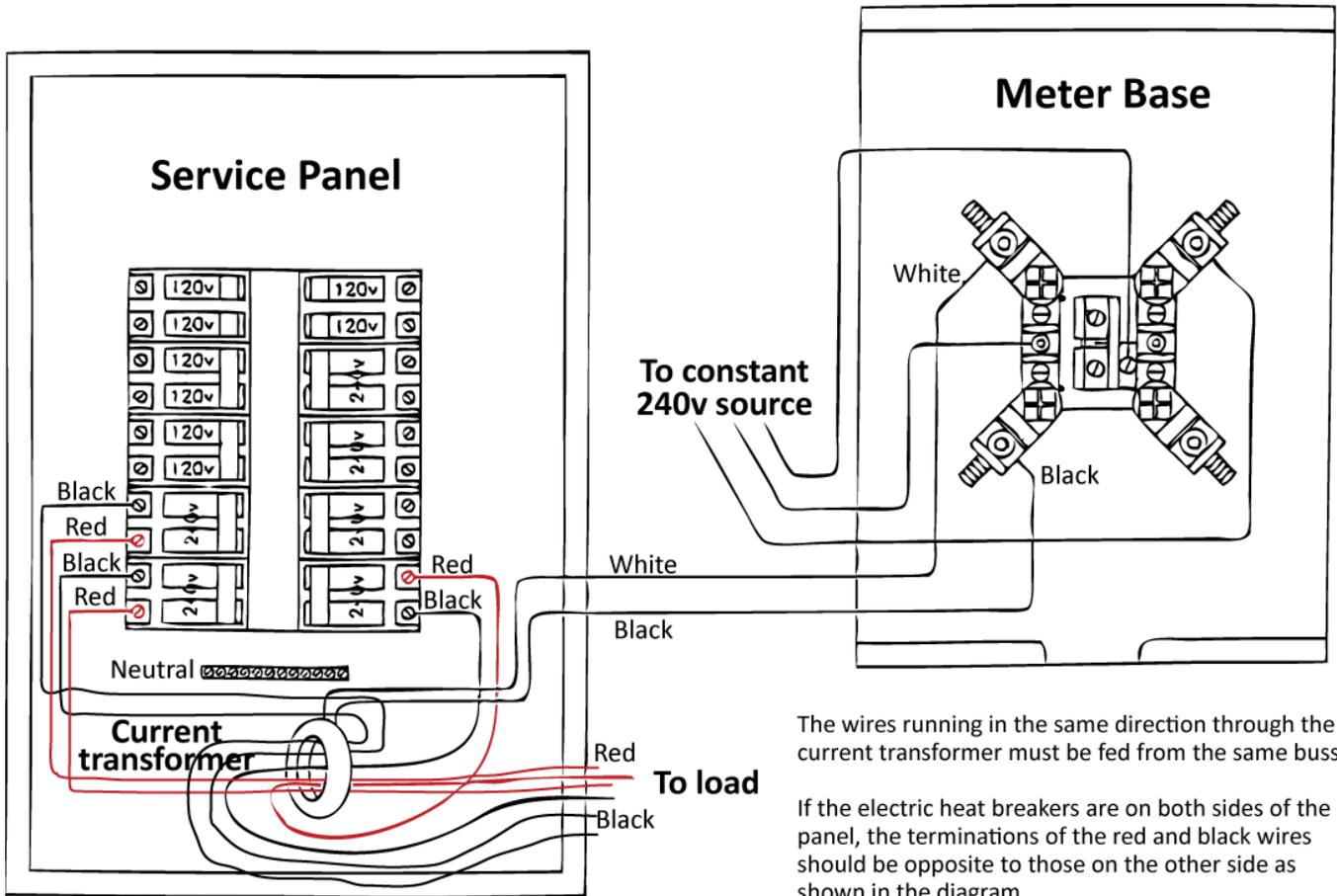
- #14 wire up to 40 feet distance
- #12 wire up to 60 feet distance
- #10 wire up to 80 feet distance
- Distance > 80 feet, call Member Services Dept

The 240 volts to power the meter can come from any constant source. Use #14 wire from the power source to the meter base. The wire must be in metal or plastic conduit. One wire goes to the upper right lug and the one to the middle left lug which is provided and which you will install and terminate.

**When the installation is complete, please call the Member Services Department at 309-662-5330 or 800-879-0339 (Extension 222 or 235).** We will work with our Operations Department to schedule a meterman to come to the site, inspect the installation and install the sub meter.

The heating season runs from October 1<sup>st</sup> – April 30<sup>th</sup>. All kilowatt hours registered on the sub meter during the heating season are billed at 4.45 cents.

## ELECTRIC HEAT SUB METER INSTALLATION DIAGRAM



The wires running in the same direction through the current transformer must be fed from the same buss.

If the electric heat breakers are on both sides of the panel, the terminations of the red and black wires should be opposite to those on the other side as shown in the diagram.