

# SUB-METER INSTALLATION DIAGRAM

*Meter base must be installed outside of the structure.*

## BREAKER PANEL

### Items needed for installation

Part# R6851-5C Submeter Base including base lid  
Part# 2NR-201 Current Transformer

After installation is complete, make sure that the meter spins in the correct direction (left to right) in both the heating and cooling modes. If it does not, review the possible scenarios below and follow the corrective procedures. If the problem cannot be resolved, please contact your geothermal installer or Southwestern Electric Cooperative. It may take several corrective actions to resolve certain problems.

\*\*\* Meter spins correctly while cooling, and incorrectly while heating.  
- Switch the leads at the breaker that supplies the aux. heat unit.  
\*\*\* DO NOT SWITCH LEADS TO METER

\*\*\* Meter spins correctly while heating, and incorrectly while cooling.  
- Switch the leads at the breaker that supplies the cooling unit.  
\*\*\* DO NOT SWITCH LEADS TO METER

\* Meter spins incorrectly while heating and cooling.  
- Reverse leads going from the CT to the meter.

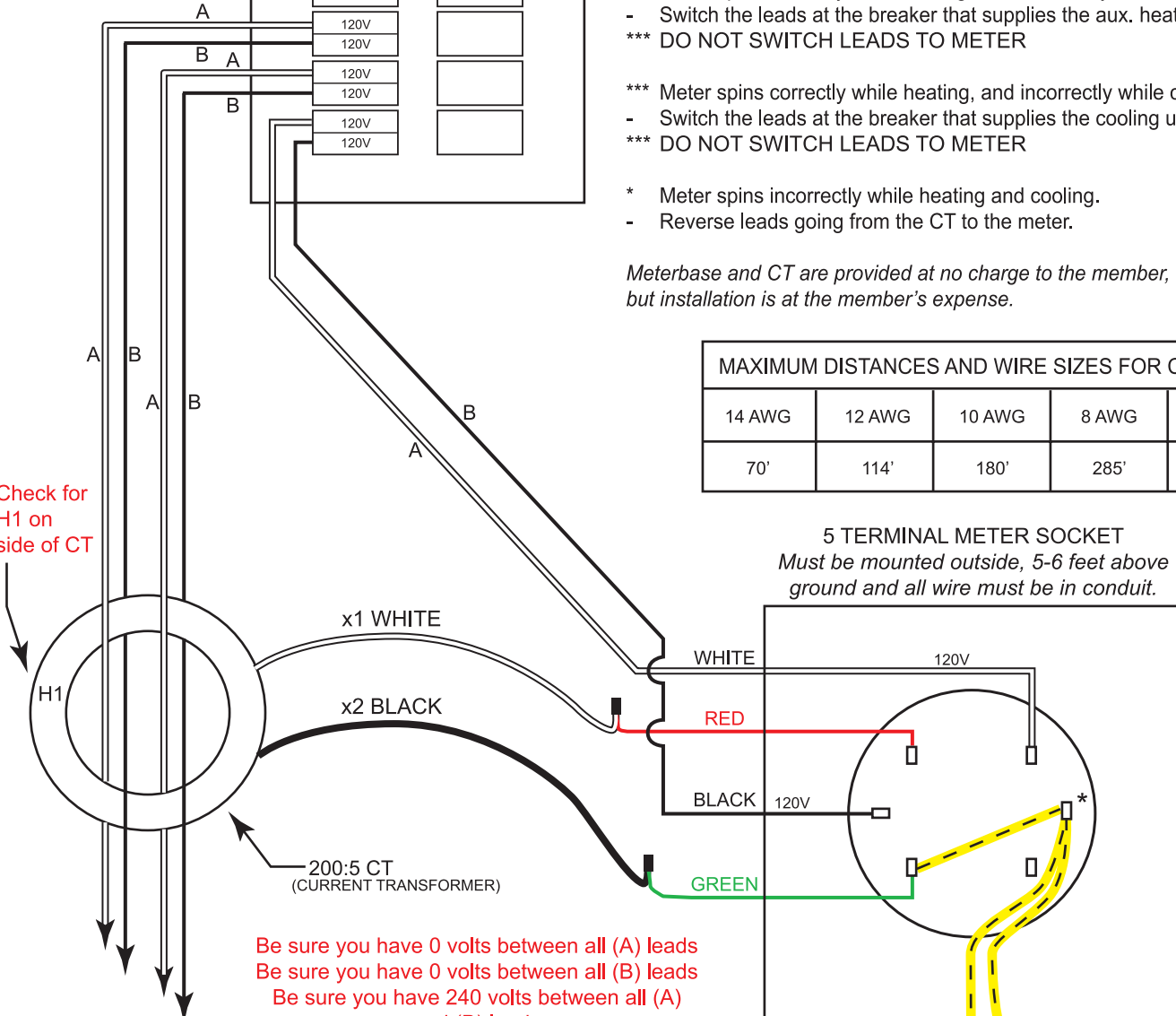
*Meterbase and CT are provided at no charge to the member, but installation is at the member's expense.*

Be sure you have 0 volts between all (A) leads

Be sure you have 0 volts between all (b) leads

Be sure you have 240 volts between all (A) and (B) leads

Check for H1 on side of CT



### MAXIMUM DISTANCES AND WIRE SIZES FOR CT LEADS

14 AWG	12 AWG	10 AWG	8 AWG	6 AWG
70'	114'	180'	285'	456'

5 TERMINAL METER SOCKET  
*Must be mounted outside, 5-6 feet above ground and all wire must be in conduit.*

\* Ground may be in center or on side of base.

Be sure you have 0 volts between all (A) leads  
Be sure you have 0 volts between all (B) leads  
Be sure you have 240 volts between all (A) and (B) leads

Please make sure colored wires are used on CT wires to meter base lugs.

ALL "A'S" RUN THRU SIDE OF CT MARKED H1  
AND ALL "B'S" RUN THRU CT IN OPPOSITE DIRECTION

NEUTRAL  
TO BREAKER PANEL  
Use #6 Copper Wire

TO DRIVEN  
GROUND ROD  
*Can be to an existing ground rod.*  
Use #6 Copper Wire

