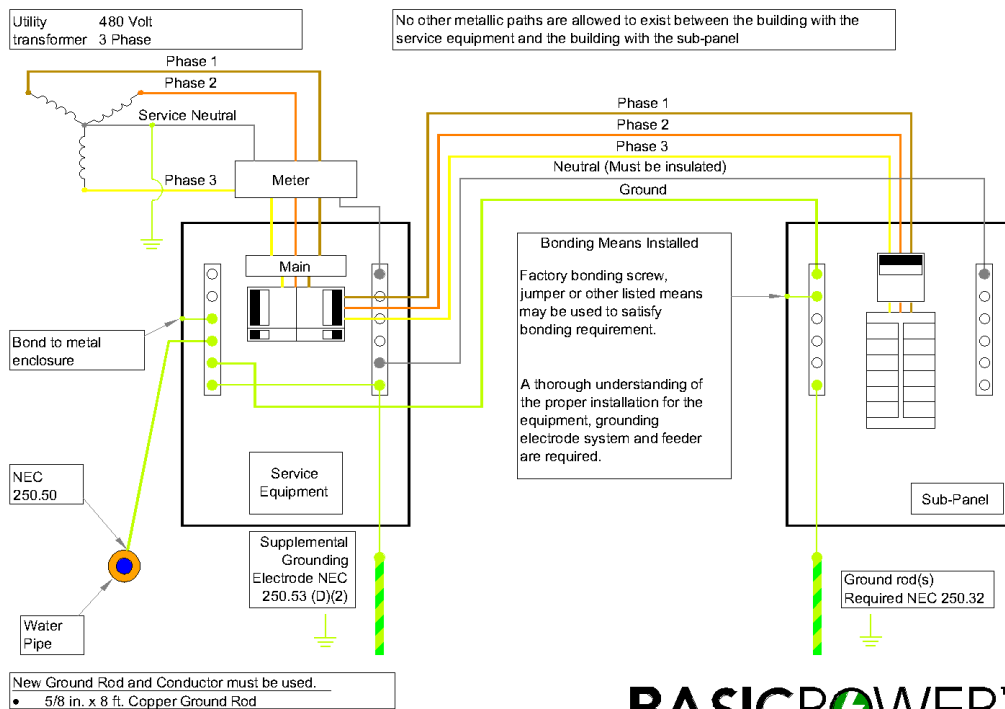




The NEW GROUND ROD MUST BE USED TO MAKE SURE THE SYSTEM WILL WORK AT YOUR Location!

Sub-Panel Grounding Specifications



New Ground Rod and Conductor must be used.

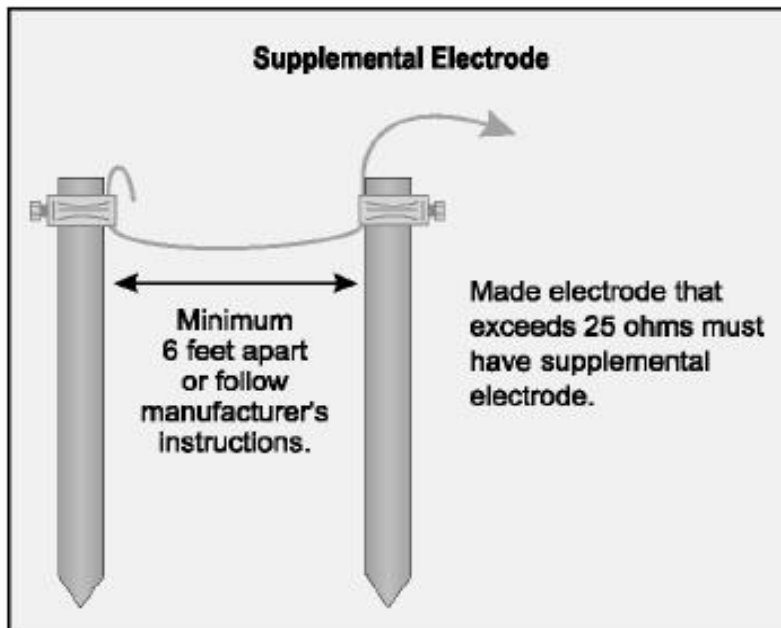
1. The ground rod shall be 8 feet by 5/8 inch copper. No galvanized copper rods.
2. The grounding conductor wire shall be THHN and sized according to the unit Cut Sheet and have a grounding clamp for the rod.
3. The grounding conductor wire shall be as short as practicable and protected where exposed to physical damage.
4. The Basic Power Unit's performance is greatly dependent on proper grounding!



TESTING YOUR GROUND

Use a clamp meter that can be used to check your Ground system.

Some codes require Two Rods



Power Quality experts indicate that 50% of all Power Quality problems are related to grounding, ground bonds, and neutral to ground voltages, ground loops, ground current or other ground associated issues. It is essential to differentiate the functions of the grounded conductor (neutral) from the equipment grounding system (safety ground). The safety ground protects the electrical system and equipment from super-imposed voltages caused by lightning or accidental contact with higher voltage systems. The safety ground establishes a "zero-voltage" reference point for the system. The safety ground must be a low impedance path from the equipment to the bonding point to the grounding electrode at the service entrance. The grounded conductor (neutral) is a current carrying conductor which is bonded to the grounding system at one point. Grounding this conductor limits the voltage potential inside the equipment in reference to grounded parts. Neutral and ground should only be bonded together at the service entrance or after a separately derived source. One of the most common errors in a system is bonding the neutral to ground in multiple locations. Proper grounding and bonding minimizes costly disturbances. Use a reliable clamp meter capable of measuring Ohms and current to determine the effectiveness of the grounding system.

Thank You,