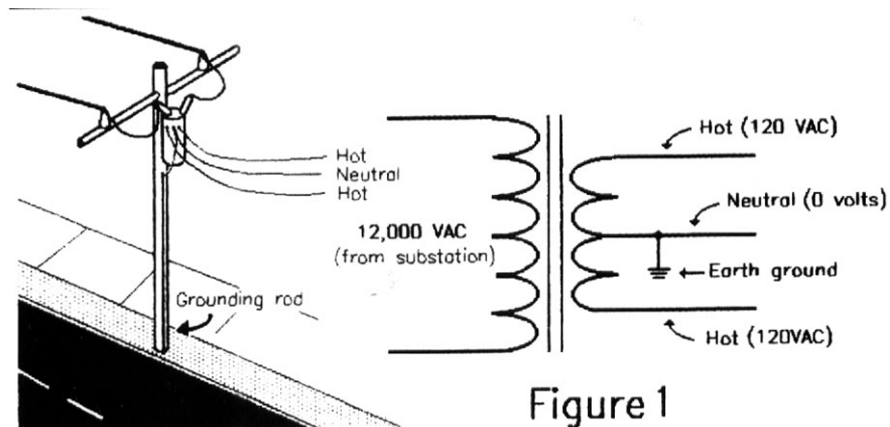


# Check Location AC Power

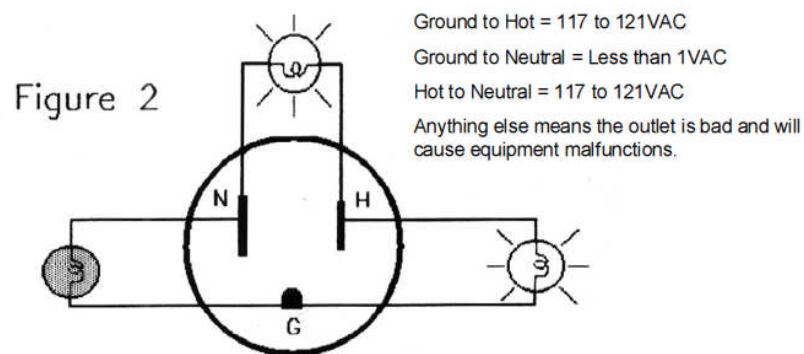
In order for any electronic device to operate correctly, it must be provided proper AC power. Below is a diagram of how AC power is distributed.



Current flows from Ground toward Hot (through the transformer) then returns via Neutral. A fault on the neutral side will cause a resistance to current flow. That resistance will cause a voltage drop on the Neutral wire which ultimately causes unreliable operation of any electronics that is powered by the circuit.

Typically, when a Neutral fault exists, you'll see a voltage of 20vac or higher when measured from Ground to Neutral.

Using an AC Voltmeter, check voltage between Hot and Ground.  
Then check AC voltage between Neutral and Ground.



The Earth Ground provides virtually the same connection to the center-top of the pole-mounted transformer as does the neutral. Note that a lamp connected between Hot and Neutral receives the same power as between Hot and Ground.