

Solving Problems In and Around the Ham Shack

**Presented to the
Azalea Coast Amateur Radio Club**

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By

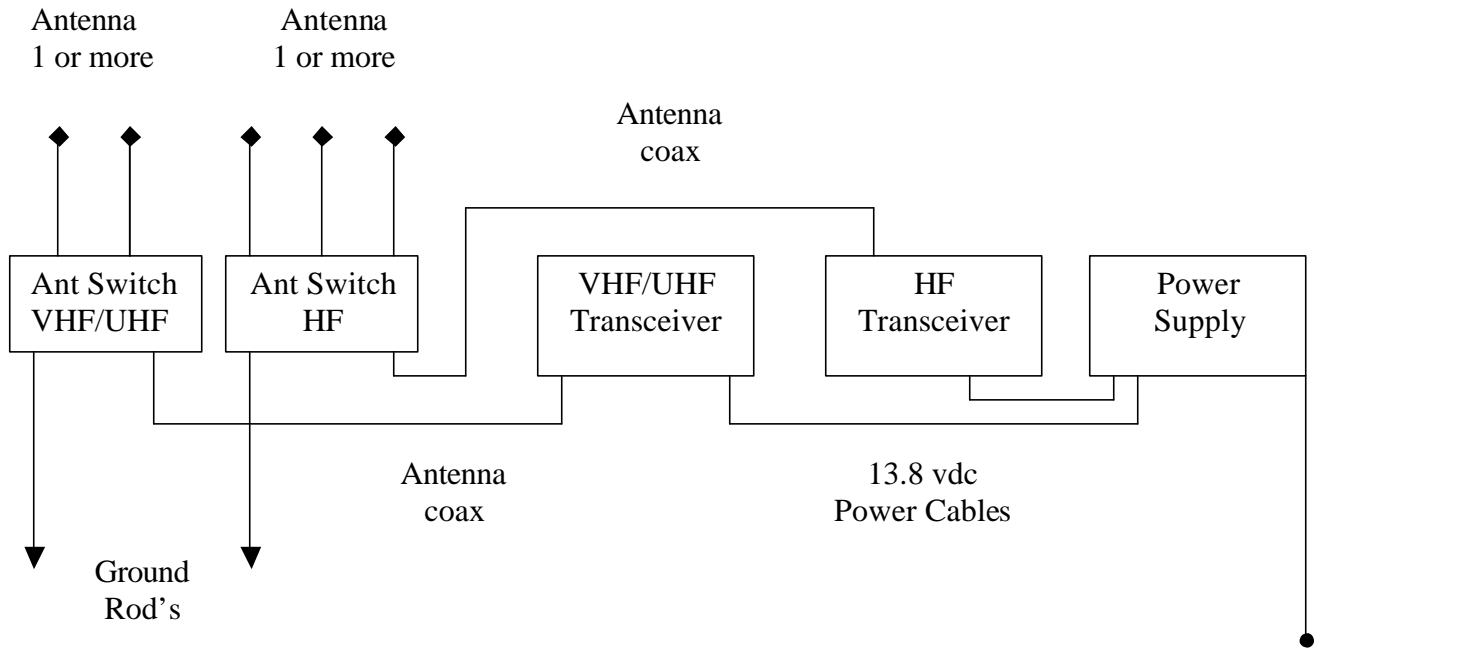
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- 1. Ham Shack equipment**
 - Antennas**
 - Coax**
 - Lightning Arrestors**
 - Antenna Switches**
 - Ground rods and wiring**
 - Transceivers**
 - Power supplies**
 - Computer**
 - TNC – digital equipment**

- 2. Simple testing and repair equipment**
 - Volt / Ohm meter**
 - AC – wall outlet test adapter**
 - Dummy Load**
 - RF chokes**
 - Low Pass Filter**
 - High pass filter**
 - Soldering Iron or Gun**
 - Normal tools such as screw driver, pliers, wire cutters, etc....**

- 3. Types of problems**
 - Antenna with high SWR or poor transmitting/receiving performance**
 - Damage to antennas from High winds or icing**
 - Lightning (earth struck by lightning on an average of 6,000 per minute – NASA)**
 - Interference to**
 - Telephones**
 - TV**
 - Radios**
 - Stereo**
 - CD, DVD, etc...**
 - Intercom**

- 4. Schematic of station and antenna / power connection to minimize lightning damage**



About 70% of lightning damage is done to equipment that does not have an antenna connected. The lightning enters through the ground or Power line connection.

Always disconnect the antennas, ground and AC power cable to ensure maximum protection to your station equipment and your personal health and safety.