BASIC GUIDES TO PERFECT SOLDERING

Here are some basic guides which, if observed, will assure good electrical connections at all soldered joints:

- 1. The metal surface must be absolutely clean.
- 2. Metals to be solder-joined must be heated to a point (approximately 450° F) above the melting point of the solder (about 415° F). If either metal or solder is not hot enough, the result will be a strengthless "cold joint" that will be dull and granulated in appearance.
- 3. The surfaces to be joined must be sufficiently heated so that the flux does its cleaning thoroughly, then "boils off."
- Tiny points of solder sticking up indicate too little heat (metal and solder were not sufficiently heated to permit the solder to flow freely when the tip was removed).
- 5. Keep the work as level as possible, because hot solder flows like water.
- 6. Once the tip has been removed, the joint should be allowed to cool undisturbed until the solder has completely hardened. Don't test by "jiggling."