

2.3 ASSEMBLY TIPS

2.3.1 Electrical

For the most part the assembly tips given in Paragraph 3.2 of Section III (Page III-1) apply to assembling the Sol regulator board and power supply.

In addition, scan Section II completely before you start to assemble the power supply.

2.3.2 Mechanical

1. If you do not have the proper screwdrivers (see Paragraph 2.5), we recommend that you buy them rather than using a knife point, a blade screwdriver on a Phillips screw, and other makeshift means. Proper screwdrivers minimize the chances of stripping threads, disfiguring screw heads and marring decorative surfaces.

2. To assure a correct fit and tight assembly, be sure you use the screws specified in the instructions.

3. Lockwashers are widely used in the power supply assembly so that screws will not loosen when subjected to stress or vibration. When a lockwasher is specified, do not omit it and make sure you install it correctly.

4. Some instructions call for prethreading holes. This is done to make assembly easier by giving you maximum working space for installing relatively hard-to-drive sheet metal screws. If you bypass prethreading instructions you will only make subsequent cabinet-chassis assembly more difficult.

To prethread a hole, insert specified screw in the hole and position it as straight as possible. While holding the screw in this position, drive it into the metal with the proper screwdriver. If started straight the screw will continue to go straight into the metal so that the head and sheet metal surfaces are in full contact.

5. The diameter of the shank (threaded portion) of a screw increases in relation to its number. For example, a 6-32 screw is larger in diameter than a 4-40 screw. Also, a #8 lockwasher is larger than a #4 lockwasher.

2.4 ASSEMBLY PRECAUTIONS

The precautions concerning soldering and the installation and removal of integrated circuits given in Paragraph 3.3 of Section III (Page III-6) also apply to assembling the Sol regulator board.