

## PROCESSOR TECHNOLOGY CORPORATION

### Sol CABINET-CHASSIS

### SECTION VI

#### 6.3.2 Electrical (continued)

5. (Sol-20 only.) The Backplane PC board (Sol-BPB) has plated-through holes. Solder flow through to the component side of the board can produce solder bridges (shorts). Check for such bridges after you install each component or wire.

6. (Sol-20 only.) The Backplane PC board (Sol-BPB) has an integral solder mask (a lacquer coating) that shields selected areas on the board. This mask minimizes the chances of creating solder bridges during assembly.

#### 6.3.3 Mechanical

1. If you do not have the proper screwdrivers (see Paragraph 6.5), 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 Sol cabinet-chassis 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 your 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.