

3a. Troubleshooting Precautions.

- 1) Always follow proper grounding procedures when handling modules, to prevent electrostatic damage.

Work at a grounded work station.

Wear a grounded wrist strap.

Place modules in anti-static bags whenever moving.

Store modules in anti-static boxes when in Module Test or Repair.

- 2) When probing modules, either with scope probe or with chip lead probe; use caution so as not to bend chip leads or damage foils.
- 3) Probe inside boards of modules only under pulse power, never under full power.
- 4) When scoping signals on the ABC board in the full power tank, use caution with the scope probe, particularly around the clock and -5.2 pins on the chips. It is very easy to short these, damaging the clock layer. When checking a clock, check it at the clock jumper.
- 5) When probing, use as short a ground lead as possible. When taking clock skews or timing measurements particularly, the short "bayonet" ground probes must be used.
- 6) Do not leave the testers unattended while a module is powered up and/or the circulator bath is running.