PROTOTYPING
EQUIPMENT & CHEMICALS

Prototyping made simple
### General Purpose Adhesives

**416-K - PHOTOFABRICATION KIT**

A 9-piece set of items needed for producing a printed circuit board using positive photofabrication.

**Includes:**
- 3 x 5" PCB
- 4 x 6" PCB
- 6 x 6" PCB
- 1 418-500ML Positive Developer
- 1 415-500ML ferric chloride
- 2 Foam brushes
- Plastic development tray
- Rubber gloves
- Instruction sheet

This kit requires one of the following copper etchants:
- Exposure source and transparent weight
- Etchant tank, or glass tray, or plastic tray (for etching purposes)
- Artwork laser printed on a transparency.
- Eye protection

### Prototyping Equipment, Accessories & Chemicals

**410 - AMMONIUM PERSULFATE**

Copper Etchant Ammonium Persulfate crystals are used as an alternative to the traditional ferric chloride to produce a cleaner copper etchant solution. One kilogram of crystals will produce four liters of etching solution when mixed with water.

**415 - FERRIC CHLORIDE**

Ready to use solution designed for etching printed circuit boards and other metals.

**418 - POSITIVE DEVELOPER**

For removing exposed resist during the positive photofabrication process.

**421 - LIQUID TIN**

Quickly tinplates copper circuits on PC boards in 5 minutes or less at room temperature.

**416-T - TRANSPARENCY FILM**

8½" x 11" heat stabilized film sheets for use in most laser printers.
Prototyping process using pre-sensitized boards to prototype single sided circuits.

1. Peel the white protective coating off of your Presensitized Copper Clad Board (600 Series).

2. Place artwork on board.


4. Expose board for 10 minutes using a 15W daylight fluorescent bulb 6 inches above the board.

5. Dilute the developer 1:10 with water.

6. Put on rubber gloves. Peel protective covering and place your exposed board in the diluted developer solution. Brush lightly with smoother brush until exposed resist is removed. (1 - 2 min)

7. Rinse board in water. Dispose of the residue solution properly.

8. Place board in Ferric Chloride until the unprotected copper is removed and your artwork becomes visible on the board. (10 - 15 min). Use the Economy Etching Kit.

9. Rinse board in water to finish your board. Dispose of the residue etchant according to your local regulations.