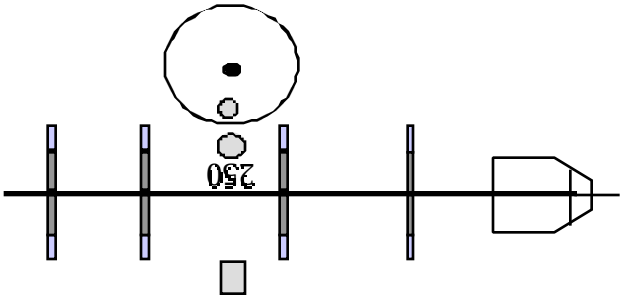
SIECOR

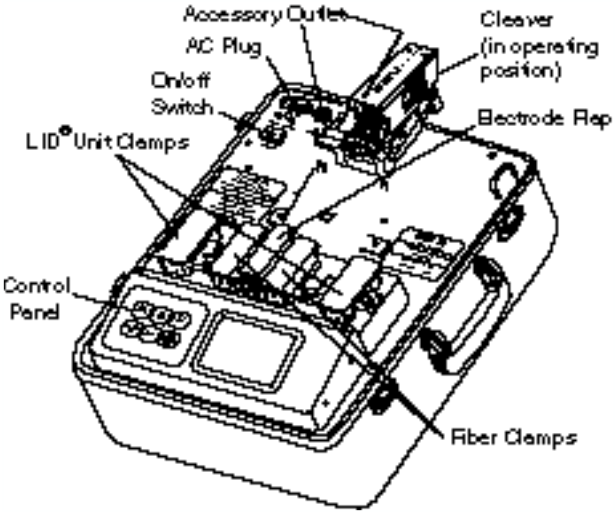
M90 FUSION SPLICER
SERIES 5000
SHORT INSTRUCTIONS

Issue 3 5/8/98

I Machine Setup

1. Unlatch cover and remove.
2. Lift front of cleaver upward and swivel 90_ clockwise and extend back in track to operating position.
3. Plug in AC power cord and connect any optional accessories (Heat Shrink Oven, Work Light).
4. Press on switch to power unit on. ALWAYS TURN OFF BY PRESSING "_" AND "_" KEYS SIMULTANEOUSLY. DAMAGE MAY RESULT OTHERWISE.
5. Press "**P**", on the control panel, to select program, customize program, select language, or to select options.
   - A. The "_" or "_" keys are used for scrolling through selections.
   - B. Use "**+**" or "**-**" key to change value.
   - C. Press "♉" to enter the value.
6. Press "**P**" to return to splicing mode.
7. Insure proper fiber guides (250um or 900um) are installed by opening fiber clamps. Fiber guides are stored in cover of splicer, near hinge.
   - A. To change, use 1.5mm allen wrench, (located in the tool pouch), and turn cam screw 180_. Remove fiber guide.
   - B. Replace with proper fiber guide,(located in top cover), and turn cam screw until both dots align.





M90 Series 5000

II Fiber Preparation

1. Clean all cable gel from fibers.
2. Strip approximately 2 inches of coating off of the fiber.
3. Clean with alcohol and lint free tissue.

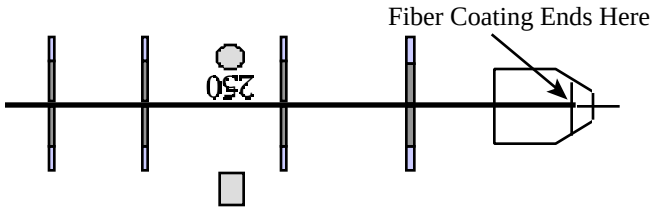
III Fiber Cleaving

1. Cleaver should be operated with a slow and gentle motion.
2. Ensure fiber is lying in v-grooves of cleaver on both sides of scoring blade.
3. If using 250um coated fiber, cleave to **3.5mm**.
4. If using 900um coated fiber, cleave to **10.5mm**.
5. After cleaving, fibers should be loaded into the splicer fiber guides.
6. Remove fiber shards from the cleaver each time.

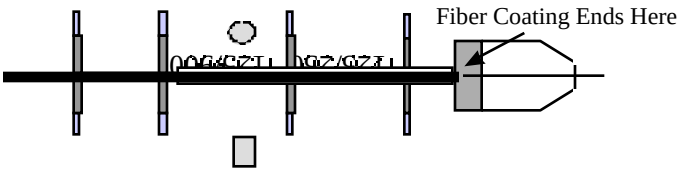
IV Fiber Placement

1. Make sure proper fiber guides were selected.
2. Open clamps *starting with center electrode flap* and then open other flaps proceeding from center.

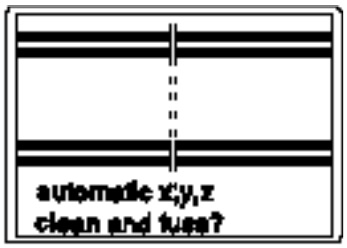
3. For 250um coated fiber, place the coating edge on the white colored area of the guide at the tip.



For 900um coated fiber, place the end of the coating just above the mirrored area at the end of the large groove closest to the electrodes.



5. While holding a slight downward bow in the fiber, close the fiber clamp.
6. If LID is being used, place 250µm fiber in groove and close LID clamp.
   NOTE: LID clamp is not used on 900µm fiber unless stripped back to primary 250µm layer.
7. Repeat same procedure for other fiber.
8. Close the electrode flap.



V Fusion

1. Examine end-faces in monitor.
2. Use "_" or "_" to select desired operation. Typically, the prompt shown above is selected for automatic operation.
3. Press "♉" to initiate action displayed on screen.

VI Splice Removal

1. Open electrode flap.
2. Open fiber clamps.
3. Open LID system clamps (if applicable).
4. Place splice in appropriate protection devices (heat shrink oven, crimping device, etc.).
5. Load splice into tray.
6. You are now ready to start the next splice.

ALWAYS TURN OFF BY PRESSING "_" AND "_" KEYS SIMULTANEOUSLY. DAMAGE MAY RESULT OTHERWISE.

VII Common Error Messages

1. *Fiber Position OK?*-Check fiber position in fiber guides.
2. *Bad End faces*-Recleave or press "♉" to override.
3. *Measurement Impossible*-Press "_" and re-fuse by pressing the "♉".
4. *Bad Z-Distance*-Check fiber placement and reposition fibers in guides.

Siecor Technical Hotline: (800) SIECOR-1
Ask for the “Duty Engineer.”