

SIECOR

M90 FUSION SPLICER

SERIES 3000

SHORT INSTRUCTIONS

Issue 2 6/30/98

- fiber.
3. Clean with alcohol and lint free tissue.

I Machine Setup

1. Unlatch cover and remove.
2. Lift front of cleaver upward and swivel 90° clockwise to operating position.
3. Plug in AC power cord and connect any optional accessories (Heat Shrink Oven, Work Light).
4. Press on/off 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, fiber type, tensile test, memory on/off, or to change parameters.
 - A. The "-" or "-" keys are used for scrolling of the parameters.
 - 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.
 - 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 cover), and turn cam screw until both dots align, (figure 2).

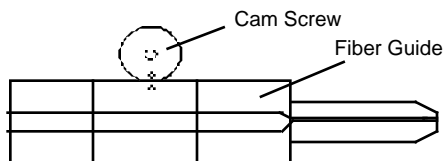
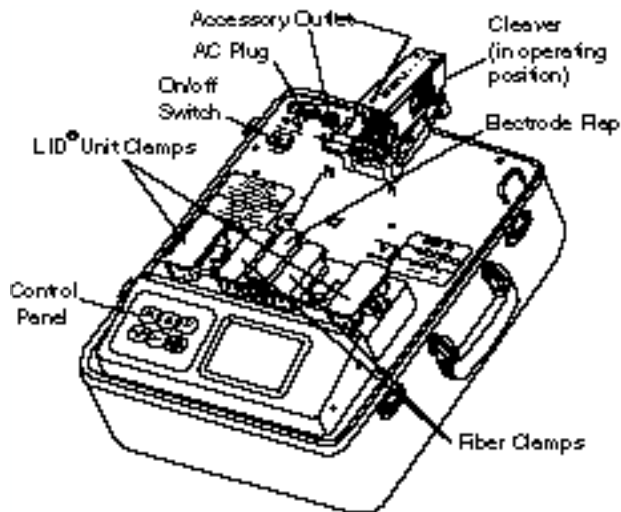


Figure 2
Fiber Guide Replacement

II Fiber Preparation

1. Clean all cable gel from fibers.
2. Strip approximately 2 inches of coating off of the



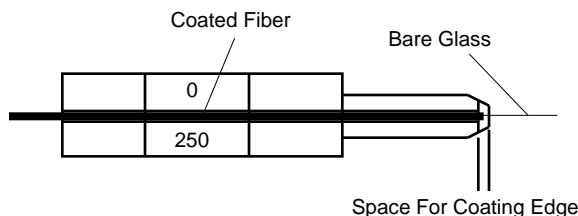
M90 Series 3000

III Fiber Cleaving

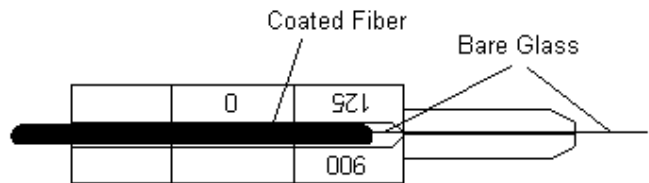
1. Cleaver should be operated with a slow and gentle motion.
2. Insure fiber is lying in v-grooves of cleaver on both sides of scoring blade.
3. If using 250um coated fiber, cleave to **6mm**.
4. If using 900um coated fiber, cleave to **16mm**.
5. After cleaving, fibers should be loaded into the splicer v-grooves to be fused.
6. Remove fiber shards from the cleaver each time.

IV Fiber Placement

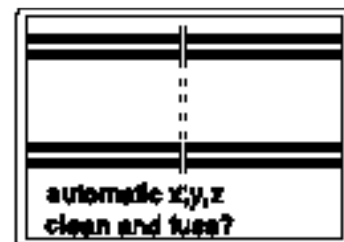
1. Make sure proper fiber guides were selected.
2. Open clamps *starting with center electrode flap* and then open other flaps proceeding from center.
3. For 250um coated fiber, place the coating edge on the silver colored area of the guide, (figure 3).



4. For 900um coated fiber, place the coating near the end of the largest groove closest to the electrodes. Place the end of the buffered coating near the "1" in the "125" label.



5. While holding a slight downward bow in the fiber, close the fiber clamp.
6. If LID is being used (*auto fusion time* program) place fiber in groove and close LID clamp.
NOTE: LID clamp is not used on 900um fiber.
7. Repeat same procedure for other fiber.
8. Close the electrode flap.
9. If your unit has serial number < 3000, rotate both z-axis knobs until fiber tips are within dotted lines.



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.

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.

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