

1. Introduction

This manual covers the description, operation, and maintenance of the Siecor Compact Fusion Set II. The CFS II splicer is available with either heat shrink or Splice Pak™ splice protection fixtures – both models are described in this manual.

The Compact Fusion Set II incorporates the automatic features of fiber alignment with the splice quality and loss estimating features of the award winning manual splicer, the Compact Fusion Set. After preparing and clamping the fibers in the CFS II, the push of one button aligns and fuses the fibers. Two perpendicular views of the fibers are captured by a CCD camera and displayed at 100x magnification on a large 4-inch LCD. This digital image is analyzed for cleave quality and fiber alignment by a microprocessor which controls the positioning and fusion of the fibers. The image is then analyzed after the splice and an estimated loss is determined and displayed.

The CFS II has a rubber base for added protection against minor bumps and scratches.

Parts Checklist

1.1 Each CFS II package consists of the following items:

	part number
1 Fusion Splicer	S46998-Z300-A27 (for example)
1 Transport Case	S46998-Z300-A31
2 Battery Packs	S46998-Z300-A58
1 110/220V Power supply/charger	S46998-Z300-A59
2 Tray Holder Brackets	S46998-Z300-A30
1 Electrode Kit	S46998-Z300-A62
which includes:	
5 Amp Fuse, 1 Hex Head Wrench, 2 Hex Head Screws,	
4 Electrodes, 4 Feed Arm Pads (covered), 4 Feed Arm Pad	
Covers	
1 Triceps Tool	S46998-Z300-A64
1 Cleaning Brush	S46998-Z300-A66
1 Rubber Base Cover Yellow	S46998-Z300-A67
1 CFS II Instruction Manual	
German/English	S46998-Z300-A68
1 Fiber Cleave A8	S46999-M9-A8
1 Shoulder Strap	S46998-Z300-A63
1 AC Power Cord Europe	S46998-Z300-A69
1 Battery Clip	S46998-Z300-A65

Description of the CFS II Set

1.2 The parts of the CFS II are identified in Figures 2 and 3:

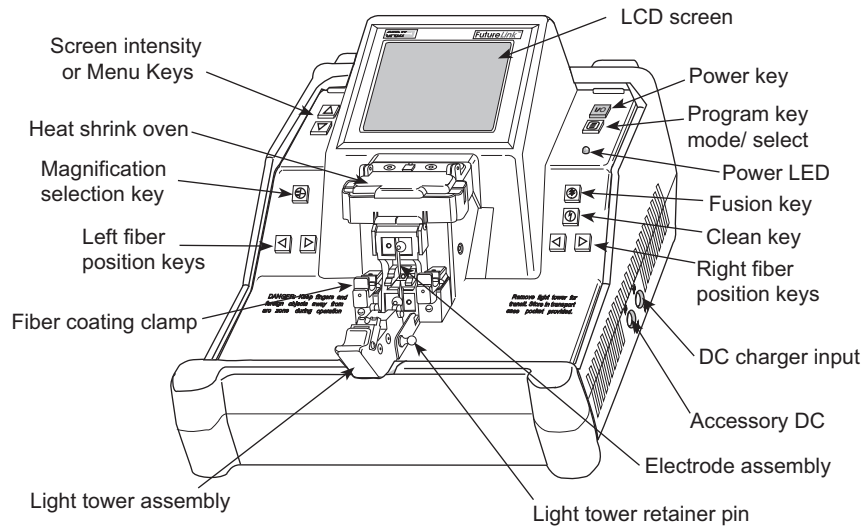


Figure 2 CFS II Splicer - Heat Shrink Oven model

Screen Intensity or Menu Keys

In normal mode, operating these keys controls the intensity of the LCD screen. When in program mode they allow the operator to move from one menu selection to another.

Magnification Selection Key

This selects either the 25 times magnification single fiber view or the 100 times X and Y fiber views.

Left Fiber Position Keys

These keys allow the operator to move the left fiber horizontally in order to butt the cleaved ends of the fibers in the arc zone when in the unit's manual mode .

Heat Shrink Oven

The oven for shrinking heat shrink splice protectors.

Clean Key	This key gaps the fibers and fires a cleaning arc in the manual mode.
Fuse Key	This key fires the fusion arc and pushes the fibers together in the manual mode or begins the complete process in the automatic mode.
Fiber Coating Clamps	The inside clamps on the right and left of the V-groove grip the fiber on the 250µm acrylate or 900µm outer coating.
Light Tower Assembly	This removable assembly contains the bare fiber clamp as well as the LED's used to illuminate the fiber for display on the screen. The tower should be removed and secured in the transit case during transport or storage.
Fiber Clamp	This clamp contacts the fiber while in the V-groove and maintains proper alignment during the fusion process.
Electrode Assembly	Each electrode is secured by a hex head screw.
Light Tower Retainer Pin	Remove the light tower by pulling this pin out.
Power LED	LED which indicates that power is on – flashing indicates a low battery.
Program Key Mode/Select	This key allows the operator to enter the program mode and to select functions once in the mode.
Right Fiber Position Keys	These keys move the right fiber horizontally in the manual mode.
DC Charger Input	The charger can be plugged into the fusion set at this point to charge the battery inside the splicer.

- Splice Pak Fixture** This device holds an open Splice Pak protector and its pressure arm securely seals the protector.
- Transfer Arm Assembly** The mechanism used to transfer a completed splice from the fiber arc zone to the Splice Pak fixture (available only with Splice Pak model).
- Power Key** This turns the unit on and off.
- Tray Bracket Holder** This is a raised area on the case where the organizer tray holder brackets snap on.
- V-Groove** Used to align fibers for fusing.

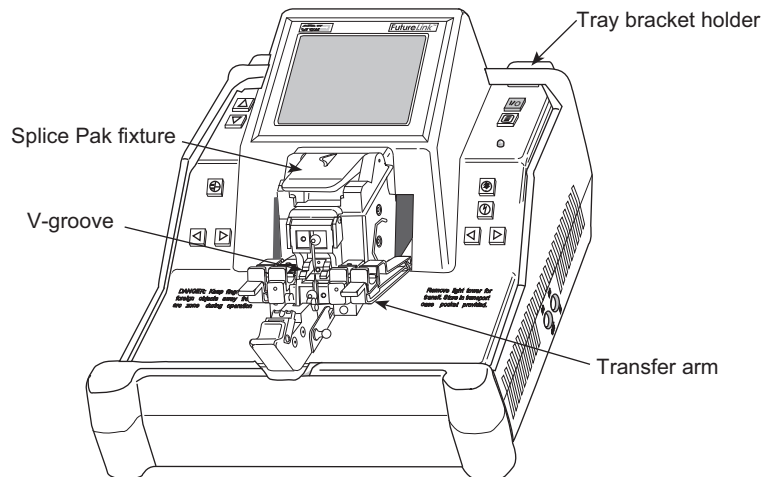


Figure 3 CFS II Splicer - Splice Pak model

Optional Accessories

1.4 The following optional accessories are available for the CFS II:

Sunscreen
(order number S46998-Z300-A32) Shields the LCD screen from excessive light.

Quad Battery Charger
(order number S46998-Z300-A33) Charges 4 batteries simultaneously (Figure 4).

Cleaver A8
(order number S46999-M9-A8) Cleave fibers with an average end-face angle of $< 0.5^\circ$.

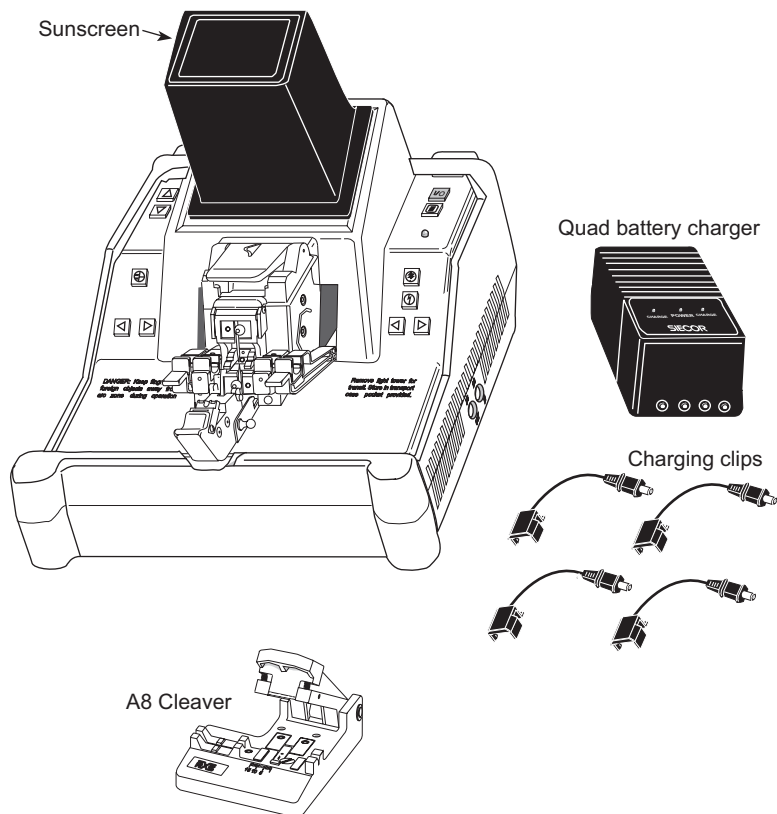


Figure 4