

Optical Fiber Fusion Splicer

Instruction Manual

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Safety Precautions

Please strictly follow the safety guidance of the manual in application of the optical fiber fusion splicer (Hereinafter referred to as Splicer). The ignorance or violence of the rules or notice stressed in the manual may cause electric shock, fire disaster and injuries to users. The manufacturer shall take no responsibilities of accidents caused by improper use.

For your safety, please carefully read and follow the following instructions.

Cautions:

1. Please use the matching accessories of the splicer and don't use any power adapter, battery or power cord that are not specified in the instruction. Please don't use the splicer under the voltages that are not specified for the model in case any fire disasters or electric shock caused. The customized car charger power cord is only available for 12V power supply of gasoline cars. In any circumstances, users shall not use it on diesel car with 24V power supply.
2. Please prevent any liquid or metal materials getting into the internal structure of the product, or possible fire, electric shock or product malfunction may be caused. Once water or any metal materials get into the product please stop using, cut the power supply, turn off the equipment and contact the maintenance service department.
3. Don't use the splicer in environment vulnerable to fire, explosion in case any fire disaster or explosion caused.
4. Please do not touch the electrodes when the equipment is working in case getting hurt by the high voltage. Please do cut the power supply and turn off the equipment before changing electrodes.
5. If the equipment is emitting smoke, smell, or abnormal sound, stop using it and unplug the power cord, and contact our maintenance department. Keep using may cause fire, electric shock or equipment malfunction.
6. Do not disassemble or modify the equipment, battery or power adaptor in case the overheating, damages or fire may be caused.
7. Please strictly following the instruction manual to use the battery. Improper use of the battery may cause overheating, damage, explosion, fire and even do harm to personal safety.
 - *Please do not recharge the battery with methods unspecified in the manual.
 - *Please do not drop the battery into fire and Please put it away from heat source with high temperature.
 - *Do not reversely connect the positive and the negative poles
 - *Do not recharge or discharge in environment of high temperature such as somewhere close to fire or somewhere directly exposed under the sunshine.
 - *Please do not throw or hit the battery.
 - *If the battery electrolyte leaks out, please handle it carefully. If you accidentally get it on your skin or into your eyes, please wash it thoroughly and seek medical attention immediately. At the same time please inform the after-sales department to help to handle the battery.
8. Please do not disassemble the equipment.
9. Please prevent the equipment from getting wet in its storage, transporting and operation.
10. The maintenance and repair of the equipment must be carried out by professional technicians from our company, incorrect repair may cause fire or electric shock. When there are malfunctions please contact the maintenance center through 24-hour-on service line. Product warranty will be invalid for customer's self-disassemble products.

Part 1 Overview

This part of the manual is an overview introduction of the product performance. By reading this part the user can know more about the features, parameters and working environment of the product.

1.1 Product Introduction

Optical fiber fusion splicer is a subtly designed portable easily-operational mini splicing device for optical fiber splicing. It has fine and smooth imaging system for optical fiber. It has high precision image processing technology for fiber alignment, which makes the splicing faster and the splicing loss lower. It also has nice operational interface. The framework of the machine is designed according to ergonomics, which will greatly improve the user's experience. The high capacity of the internal Li-battery makes it reliable for long time outdoor operations. This is a fully-automatic, high performance, low power consumption, small volume, light weight, high safety splicing machine.

1.2 Product Characteristics and Parameters

1.2.1 Product Characteristics

- ◆ Based on PAS theory, advanced image detection algorithm is applied
- ◆ Double core-adjusting structure, higher splicing efficiency and lower loss.
- ◆ Reliable design: Guard strip over 5 directions, dust-resistance, shock-resistance
- ◆ Lower power consumption. Long endurance when multiple functions are processing simultaneously
- ◆ Small volume, light weight, less burden
- ◆ Automatically detect the air pressure, temperature, humidity and process discharging compensation automatically.

1.2.2 Technical Parameters

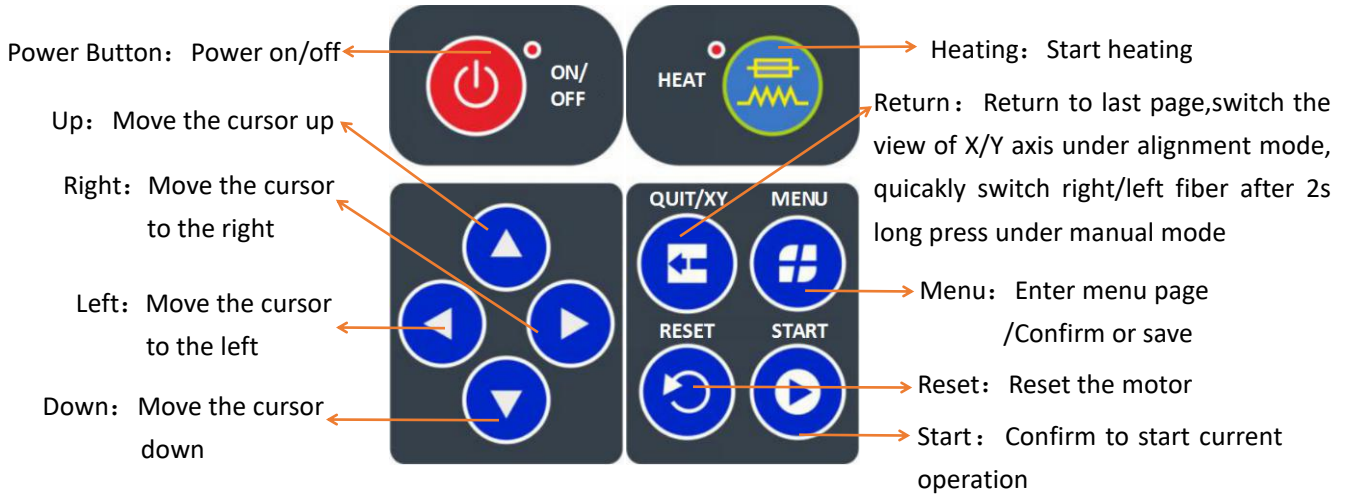
Applicable Fiber	SM, MM, DS, NZDS etc
Applicable Core Amount	Single core
Applicable Diameter	Cladding diameter 100-150μm, Coating diameter 200-1000μm
Splicing Mode	Pre-store 8 groups, user self-customize: 792 groups
Average Splicing Loss	0.03dB(SM), 0.02dB(MM), 0.05dB(DS), 0.05dB(NZDS)
Echo Loss	≥60dB
Splicing Speed	9sec(Typical) / 7sec(Fast Mode)
Splicing Loss Estimation	Exist
Tension Test	≥2N
Display	4.3 inches colorful LCD Screen
Magnification	X/Y:175times, X or Y:350 times
Power Supply	11.1V Lithium Battery, Adapter input standard 100-240V 、1.4A、 50/60HZ, output 13.5V、 5A
Battery	Typically work 280 cycles(Splicing/Heating), charging time: 3H, rechargeable for 500 cycles, 6800mAh Lithium Battery
Splicing Result Storage	10000 groups of splicing records, 100 Pieces of Splicing Images
Data Interface	USB2.0
Operating Environment	Altitudes 0~5000m,Relative Humidity 0~95%(No condensation), Temperature -20℃~55℃, Wind speed ≤15m/s
Storage Condition	Relative Humidity 0~95%(No Condensation), Temperature -40℃~80℃(Exclude Battery), Temperature -10℃~40℃(Battery)
Weight	1.73kg(No battery), 2.14 kg(With battery)
Corrosion resistance	Qualified Corrosion-resistant Components. Free from Corrosion of Liquid Pollution
Dimension	167D×154W×141H(mm)
Alignment	Core to core alignment, Cladding alignment, Accurate Alignment
Applicable Shrinkable Tube Diameter	2mm, 3mm, 4mm, 6mm
Applicable Shrinkable Tube Length	60mm, 45mm, 40mm(FP-03)
Heating Speed	2mm shrinkable tube (10-15s adjustable), 4mm shrinkable tube (15-20s adjustable), 6mm shrinkable tube (15-20s adjustable)
Heating Temperature	10-260℃(customizable)
Electrode Endurance	5000 Times
Power-saving Mode	Power-saving mode applicable

1.3 Standard Configuration

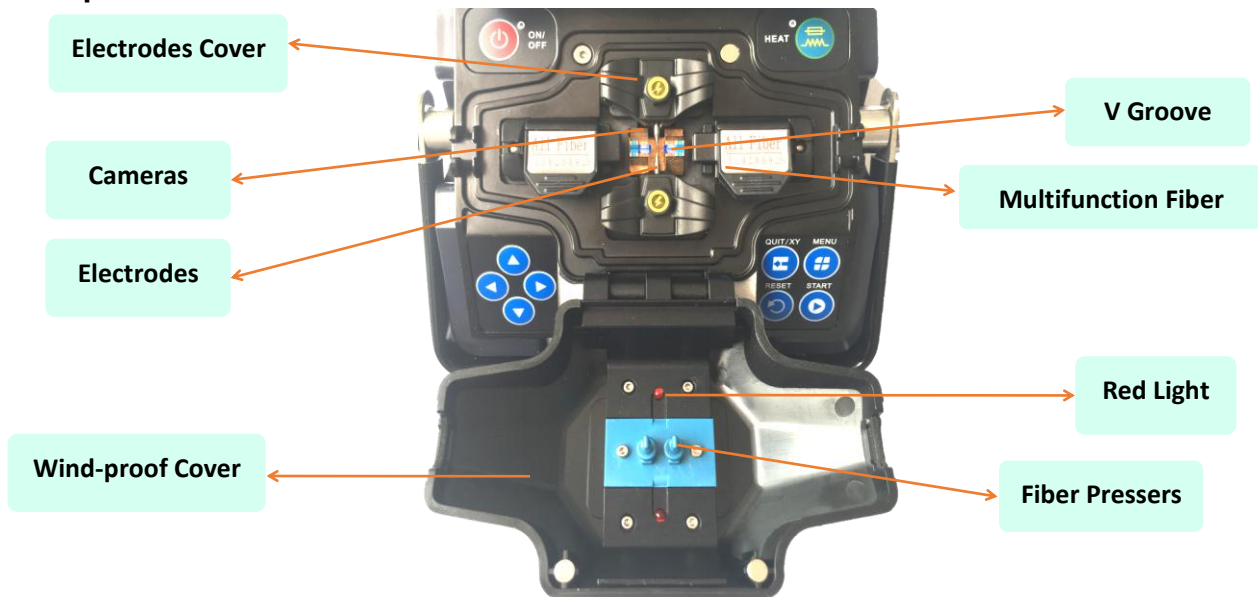
No	Items	Pics	Whether configured
1	Splicing Machine		●
2	High Precision Fiber Cleaver		●
3	Power Adapter		●
4	AC Power Cord		●
5	High Precision Electrodes		●
6	Cooling Tray		●
7	Three-hole Stripper		●
8	Bow-type fiber cable stripper		●
9	Multifunction Fiber Holder		●
10	Carrying Box		●
11	Dust Blower		●
12	Plastic Tweezers		●
13	Instruction Manual	-	●
14	Alcohol Bottle	-	●
15	FC、LC、SC fiber holder(Optional)	-	○
16	Car Charger(Optional)	-	○
17	High-altitude operating plat(Optional)	-	○

1.4 Introduction of Product Structure

1.4.1 Keyboard



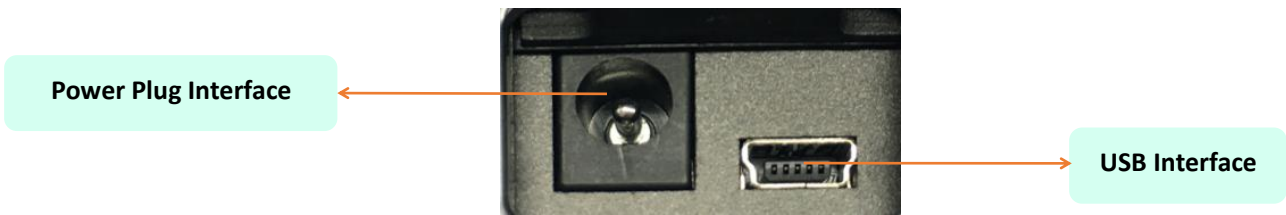
1.4.2 Splicer



1.4.3 Heater



1.4.4 Outer Interface



Part 2 Operations

In this part we will introduce the fundamental operation methods of the splicer. Please carefully read this part so to use the device properly and get expected splicing effectiveness ,in case any damages caused.

2.1 Power Supply

The product support 2 types of power supply: Internal Lithium battery power supply(No outer adapter connected); Outer power adapter power supply (With power adapter). Plug the output cord of the adapter into the outer interface of the splicer, the internal battery will be charged.

The battery charging condition shows on the upper right corner of the screen




When the battery power is low there will be warning notice on the screen, the user should get the battery charged or the adapter connected.

The power is too low



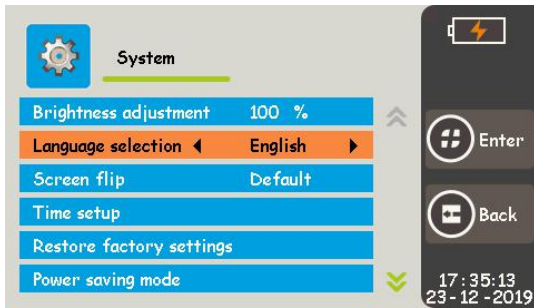
2.2 Power On/Off

Shortly press the “” to get the machine on. Power on, the indicator light will turn red, after the buzzer beeped for twice the fiber observation page will show itself. Press and hold the power button to turn off. The display screen will be off firstly and the indicator light will flash and turn off after you release your finger, indicating that the splicer has been turned off normally.

Optical Fiber Observation Page



2.3 System and Function Settings



System Settings

System	Explanation
Brightness	Adjust the brightness of the screen
Language selection	Default language is English, other languages optional
Screen flip	Rotate the display interface
Time setup	Set the system alarm
Restore factory setting	Reset the machine back to primary settings
Power saving mode	Auto sleep mode, auto shut-down mode available
Silent mode	Turn off/on the buzzer
Help	Provides operating instructions and information about the keyboard
Version Information	Current system version number



Function Setting Menu

Function	Explanation
Arc compensation	After the automatic discharge compensation function is turned on, the welding machine automatically adjusts the discharge current according to the real-time welding conditions. (It is recommended to set it to "ON")
Tension Test	If this is set "on", after splice is completed, the equipment will restore and tension test will perform itself
Reset Waiting Time	In the tension test is closed, the automatic reset wait time after flipping the lid (this setting is invalid when the tension test is on)
Auto Starting	If this is set "on", it will perform alignment splice itself when the cover is lidded.
Auto heating	When this set is open, close the flip, automatic operation of heating.
Forced Splicing	In the open condition, when an angle failure or an optical fiber mismatch is detected during the welding process, the user may press the start key to continue the fusion; in the closed state, when the angle failure or the optical fiber mismatch is detected during the fusion process, the system will automatically exit splicing.

2.4 Preparation before splicing

2.4.1 Stripping and cleaning of fiber coating layer and other layers

Bow-type optical fiber →



Use bow-type stripper to stripe the outer layer for 40mm.

Pigtail and patch cord →



Use the big hole of 3-hole stripper to stripe the outer plastic layer



Cut the wire with scissors



Stripe the internal layer with small hole

0.9 fiber →



Stripe the internal layer with small hole

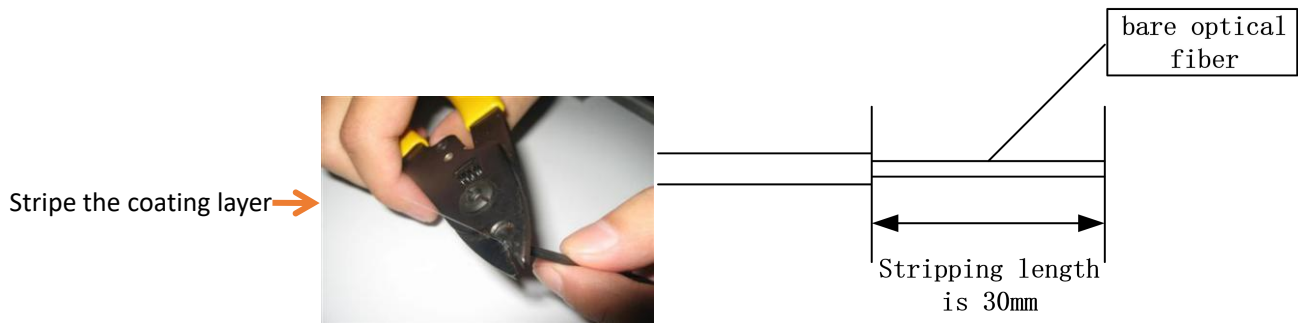
2.4.2 Put the shrinkable splicing tube on

Put the shrinkable splicing tube on →



Put the fiber through the splicing tube so to protect fusion point after splicing. Make sure there is no impurity inside the tube and keep the tube parallel with the fiber.

2.4.3 Stripping and cleaning of fiber coating layer



Use stripper to stripe down the coating layer of fiber, the length shall be about 30mm

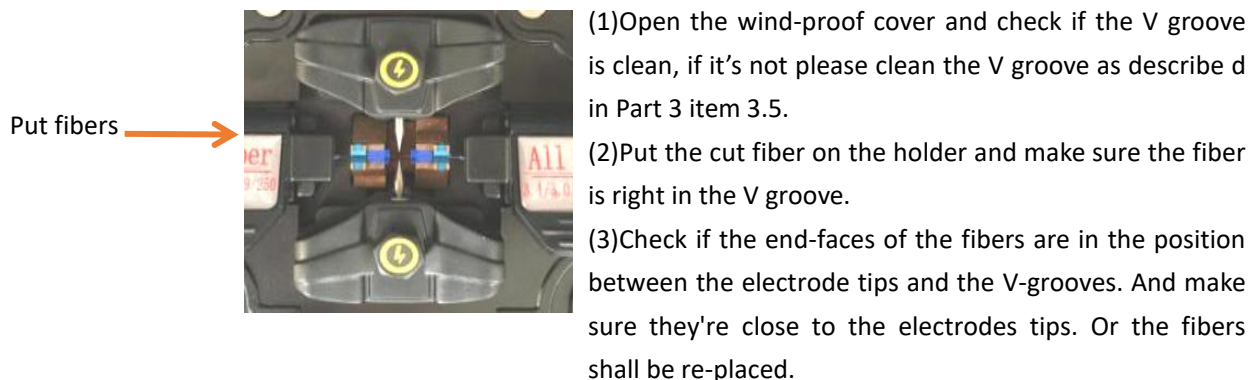


2.4.4 Fiber Cutting

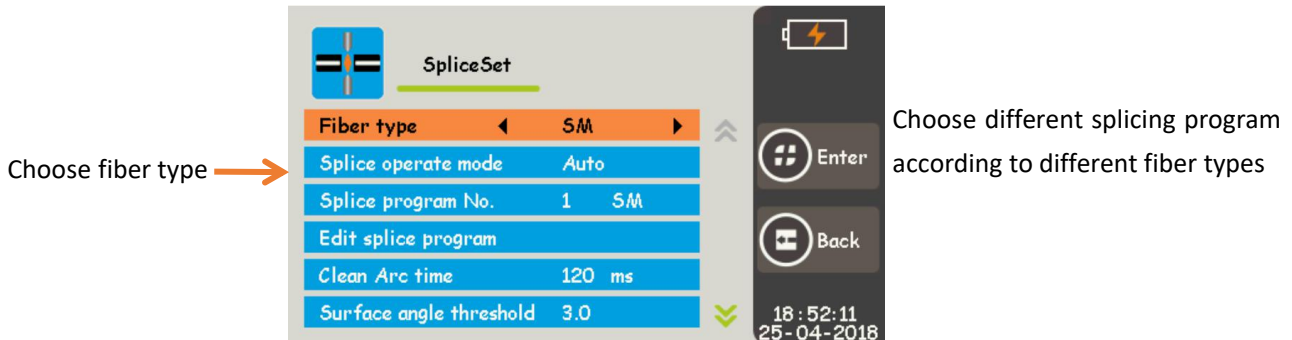
- (1) Open the cleaver cover and put the stripped fiber into the holder groove. Keep the fiber perpendicular to the blade.
- (2) Close the fixture and the cleaver cover
- (3) Push the slider and finish the cutting.
- (4) Open the fixture and open up the pressure pad, take the fiber out.
- (5) Take out the debris of fiber and put them into the collecting box.

Notice: When the cutting fails please adjust the blade of fiber cleaver. What's more, we'd like to suggest you to use specified fiber cleavers equipped with our machines.

2.4.5 Put Fibers



2.5 Splicing and Heating



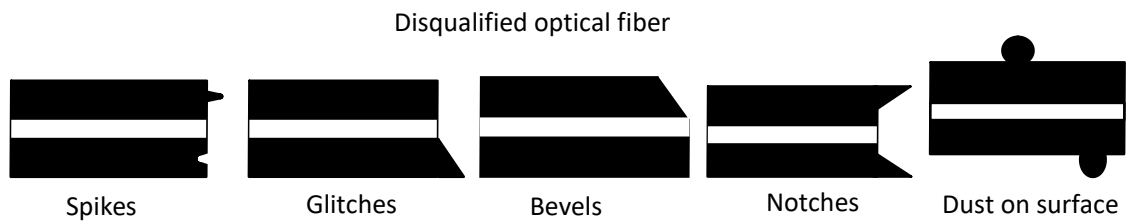
Splice Mode	Description
Fiber type	Set according to the type of fiber used such as SM(single mode),MM (Multimode),DS(Dispersion shifted),NZDS(Non-zero dispersion shifted). Each fiber preset 10 groups of splice program. User scan choose corresponding one based on fiber type
Splice operate mode	Automatic or Manual
Splice Program No.	8groups preset splice program, 792groups of users-set splice program
Edit splice program	Edit splice parameters under the current number of program, as shown in figure 2-16
Cleaning Arc time	Cleaning discharge refers to the cleaning of fine dust attached to the surface of an optical fiber by a short-term discharge. Clean discharge time range is 0-0.2 seconds
Surface angle threshold	Set the limiting value of the end face angle. When the angle of the end face of the left and right optical fibers exceeds the limit value, the screen displays an error message. The setting range is 0-8°
Fiber angle threshold	Left and right optical fiber alignment after the angle limit, beyond the screen display error message, the range is 0-4 °
Align offset threshold	An error message is displayed if the misalignment of the two fibers spliced exceeds the misalignment limit. The setting range is 0.0-1.5μm
Loss threshold	An error message is displayed if the estimated splice loss exceeds the loss limit. The setting range is 0-0.2db
Compensation arc time	In some cases, the compensation arc can improve the splice loss
Fiber alignment mode	Cladding align or core align can be set
Fast splice mode	It can be set "Open" or "Close" which can accelerate alignment

Cover the wind-proof cover and start splicing



Close the wind-proof cover the fibers will be automatically aligned and the system will check the end-face of the fiber. There will be notice on the screen if the end-face quality is too low. The fiber need to be recut. If the "Forced splice mode" is on the user can press "Start" button to continue slicing.

If the splicing mode is set as semiautomatic mode, after fiber alignment there will be "Splice" on the screen, the user can press start button to splice or press reset button to recover the motors. If it's set as



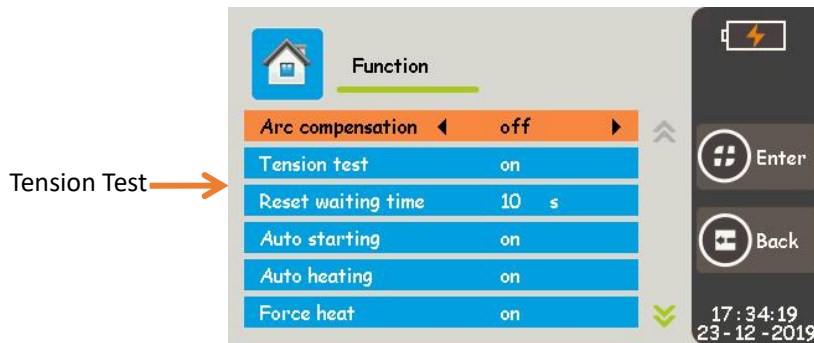
2.5.1 Splicing loss and quality estimation

When the splicing process is done there will be estimated splicing loss value on the right of the screen .The limitation of the splicing loss value can be set in “Splice operate mode”. Please be noted that sometimes the spliced point may be a little thick than other part, it’s normal in splicing and will not affect splicing loss.

Analysis of Splicing Malfunctions

Images	Reasons	Solutions
 <p>Fiber core axis dislocation</p>	Dust on V-groove or fiber pressers Image examination malfunction	Clean the V-groove/fiber pressers If the situation appears for many times please “Self-Test Mode”
 <p>Fiber angle problem</p>	Dust on V-groove or fiber pressers Disqualified cutting angle of fiber Fibers are placed improperly	Clean the V-groove/fiber pressers Recut the fiber Replace the fiber
 <p>Bubbles</p>	Disqualified cutting angle of fiber Dust on fiber Low pre-splicing current or short pre-splicing duration Low splicing current or short discharging time	Recut or clean the fiber Increase the 【 Pre-Arc current 】 or extend 【 Pre-Splice time 】 Increase 【 Arc current 】 or extend 【 Splice time 】
 <p>Separated fibers</p>	Propulsion distance is too short Propulsion speed is too low Splicing current is too strong or discharging time too long	Please “Self-Test Mode” Decrease 【 Pre-Arc current 】 or shorten 【 Pre-Splice time 】
 <p>Thick connecting point</p>	Over-propulsion	Shorten 【 Overlap length 】, please do 【 Arc correction 】
 <p>Thin connecting point</p>	Propulsion distance is too short Splicing current is too strong	Increase 【 Overlap length 】, please do “arc Correction” Decrease 【 Arc current 】
 <p>Line between fibers</p>	Splicing current is too weak	Increase the 【 Arc current 】

2.5.2 Tension Test



If the "Tension Test" is on, the tension test will be running automatically after splicing.

2.5.3 Storage and searching of splicing result



History	Explanation
Total Arc number	The number of discharging activities counted since latest clear operation.
Clear Arc count	Clear Discharging Record
Total records	The number of splicing records saved by system.
View records	Splicing date, Loss estimation checkable.
Delete records	Delete all splicing records.
Query fault records	Record of warnings, malfunctions etc.
Delete fault records	Delete malfunction records

2.5.4 Heating operation

Choose heating mode and fiber type →



Choose 【 SleeveSet 】 in menu, choose relative heating mode according to the diameter and length of the shrinkable tube. Please enable the default settings. The heating temperature and time are changeable.

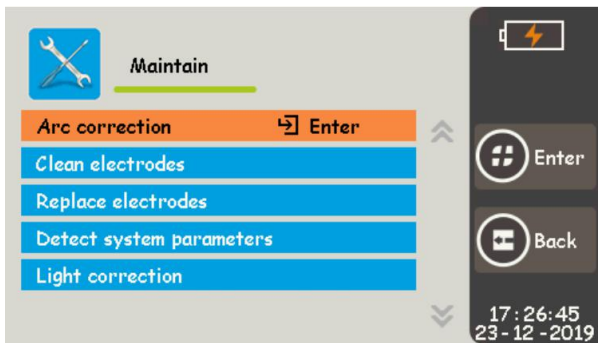
Heating →



1. Open the cover
2. Take out the spliced fiber and move the shrinkable tube to make it right around the spliced point.
3. Put the shrinkable tube into the heater and keep it in the middle of the groove. Straighten the fiber then close the cover, the heating indicator light will be on.
4. When the indicator light is off it means the heating is finished. Please open the cover and take out the fiber immediately. (Please do not touch the heated shrinkable tube in case of burns.)
5. Check the heating result, put it in the cooling tray for cooling if it's qualified. If it's not qualified, for example there is dust or bubble inside, please operate again.

Part 3 Maintenance

3.1 Maintenance Menu



Maintain	Description
Arc correction	Automatically correct the discharge current.
Clean electrodes	Clean the electrodes by a couple of times of high current discharge .
Replace electrodes	Automatically detect discharge position and stabilize new electrodes by discharges after electrodes changing.
Detect system parameters	Automatically check the position of electrodes, test the motors etc.
Light correction	Automatically correct the light source of the red light.

3.2 Arc correction

We insist to suggest users to do Arc correction under below situations:

- Temperature, humidity or air pressure changes
- Aging or pollution of electrodes
- Continuous splice fails or high splicing loss
- Machine is idle for a long time
- Electrodes over used
- Electrodes are newly cleaned or replaced

The process of “Arc Correction”:

(1)Choose “Arc Correction” under “Maintain”

(2)Put cut fibers on fiber holders and close the wind-proof cover.

(3)Press “” to start.

(4)If there is “Arc current too powerful” or “Arc current too weak” please repeat the operation of (2) (3) until it shows the correction is successful.

(5)If it notice “Arc calibration failed” ,please restart from step (1) .

3.3 Electrodes maintenance

(1) Choose “Clean electrodes” under “maintain”.

Clean electrodes → (2) Press “”, the splicer will clean the electrodes automatically

Notice: Do not touch the tips of the electrodes with any hard objects in case the electrodes might be damaged and the splicing effect might be affected.

Replace electrodes →



The electrodes will be attrited due to long time use. Please replace the electrodes timely or the splicing quality will be affected.

(1) Users shall cut the power and turn off the machine before replacing electrodes.

(2) Unscrew the screws on electrode cover, take off the electrodes.

(3) Put new electrodes into the electrode groove then put the cover back and tight the screws gently.

(4) Check if the two electrodes are at the same horizontal line and the same vertical line. If not please re-put the electrodes.

(5) Turn on the machine and put well cut fiber into the machine, choose “ Replace Electrodes ” under “ Maintenance ”

(6) Please do “ Self-Test Mode ” and “ Arc correction ”

3.4 Detect system parameters

We insist to suggest users to do parameters detection :

- After system updating
- After replacing/move electrodes
- After enduring long-distance transportation or strong shock
- After continuous splicing failures or splicing loss is abnormally high
- When there is continuous over-adjusting in alignment process in case splicing quality may be affected.

The process of parameters detection:

(1) Clean V-groove and pressers as well as prepared fibers with cotton swab dipped with alcohol.

(2) Choose “Self-Test Mode” under “Maintain”, press menu for twice to enter parameters detection page.

(3) Put fibers and close the cover the self-test will be on.

(4) Normally the test will continue for 2 minutes. Please observe the notice on screen, if the test fails please operate according to instructions on screen and retry it(Step 2).

3.5 Splicer Cleaning

V-groove
Cleaning



- (1) Open the wind-proof cover of the splicer.
- (2) Clean the contaminant on V-groove with equipped dust-blow ball.
- (3) Clean the bottom of the V-groove with cotton swab dipped with alcohol. Notice: Do not touch the tips of electrodes. Clean the V-groove gently and do not use any hard stuff (Blade etc.) to clean the groove in case any damages affecting normal functions caused.

Microscope
lens
Cleaning



- (1) Turn off the machine and open the wind-proof cover.
- (2) Clean the lens gently with cotton swab dipped with alcohol. Notice: Do not touch the electrodes. Do not touch the lens with hard stuff.
- (3) Clean the residual alcohol with dry cotton swab and make sure there is no contaminant left.

(4) Turn on the machine, observe the image on screen and check if there is dust or other contaminant, if so, please clean the lens again.

Fiber Pressers
Cleaning




- Open the wind-proof cover.
- Clean the pressers with cotton swab dipped with alcohol and clean the residual alcohol with dry swab after cleaning.

Heater
Cleaning



Dust is easy to accumulate on the heater, please clean the heating board regularly.

3.6 System Upgrading

- (1) Press “” under “Version Information” to enter the info page. Here the software version code of the splicer is visible. (For example V0.01 V0.01 ROM:0.01). The user can get newest upgrading files from the manufacturer. If the software is already the newest version there is no need to upgrade again.
- (2) Open the splicer and connect the splicer to a computer with USB data cord. There will be USB operation notice on the computer. Copy the upgrading file and put it directly to the root directory of the USB stick, then restart the machine while the copy finished. (Notice: Please do not turn off the machine before the copy is finished or malfunctions may appear.)
- (3) Please operate according to the instruction after the splicer restarted. There will be a while for the upgrade to be finished from 0% to 100%. If the process abnormally stopped or interrupted please repeat step (2) (3)
- (4) Any problem can't be solved by yourself please contact our after-sales department.

Appendix 1 Warning Notices

Warning info	Reasons	Solutions
Incorrect placement of left fiber(LFPC)	<p>The fiber on the left is too short</p> <p>The fiber on the left has been broken</p> <p>The fiber on the left was not put right in the V-groove</p> <p>Connecting problem with left motor</p>	<p>For reason 1/2 please recut the fiber and make sure the cut length is proper</p> <p>For reason 3 please replace the left fiber.</p> <p>If reason 1,2,3 are all excluded please do Self-Test Mode. If the malfunction still exist please contact after-sales department</p>
Right fiber placement is incorrect(RFPC)	<p>The fiber on the right is too short</p> <p>The fiber on the right has been broken</p> <p>Right fiber was not put right in the V-groove</p> <p>Connecting problem with right motor</p>	<p>The solutions are the same as those of the left fiber.</p>
Left and Right fiber placement are incorrect(LRFPC)	<p>The same as above</p>	<p>Please solve the problem according to the solutions of the same problems of left/right fiber</p>
Left fiber is unqualified(LFNQ)	<p>Dust on fiber</p> <p>The cutting quality of the left fiber is not good, fiber core damaged, coating layer damaged or fiber incomplete</p>	<p>For reason 1 please clean the left fiber with alcohol.</p> <p>For reason 2 please reprepare the fiber for splicing</p>
Right fiber is unqualified (RFNQ)	<p>Dust on right fiber</p> <p>The cutting quality of the right fiber is not good, fiber core damaged, coating layer damaged or fiber incomplete</p>	<p>The solutions are the same as those of the left fiber.</p>
Left and Right fiber is unqualified(LRFNQ)	<p>The same as above</p>	<p>Please solve the problem according to the solutions of the same problems of left/right fiber</p>
Left fiber head face is unqualified(LFEANQ)	<p>The end-face angle of the left fiber exceeds the limited value</p>	<p>Please recut the left fiber. If the cutting quality is always not qualified please replace the fiber cleaver.(Notice:In “menu-splicing mode-Surface angle threshold”the value limitation of fiber end-face is changeable.)</p>
Right fiber head face is unqualified(LRFEANQ)	<p>The end-face angle of the left fiber exceeds the limited value</p>	<p>The solutions is the same as that of the left fiber.</p>

Appendix 2 Problems and malfunctions resolutions

Abnormal Phenomenons	Reasons	Solutions
Abnormal sounds when discharging	Improper installation of electrodes	Please strictly following the instruction when installing electrodes
Delayed discharge or no discharge	<ol style="list-style-type: none"> 1. Improper installation of electrodes 2. The tips of electrodes are wrapped by silicon oxide 	<ol style="list-style-type: none"> 1. Please strictly following the instruction when installing electrodes 2. Clean the tips of electrodes or replace the electrodes
The machine crash when discharging	Improper installation of electrodes	Please strictly following the instruction when installing electrodes
Discharge Correction Failure	Current environment is interfering the discharging process	If it keeps warning overcurrent, please lower the current before arc correction. Otherwise please increase the current. If it still fails please contact after-sales department.
Fibers alignment failures	There is dust on lens, LED light, V-groove. Power system malfunction.	Try to clean lens, LED lights and V-groove. If the problem still exists please contact after-sales department.
Low quality of splicing point	<ol style="list-style-type: none"> 1、 Dust on fibers 2、 Wrong fiber type settings or wrong splicing program 3、 Splicing environment changes 4、 Controlling motor malfunction 	<ol style="list-style-type: none"> 1、 Re-prepare the fibers and splice again. 2、 Choose right fiber type and right splicing program 3、 Do arc correction to adjust current to normal intensity 4、 Retry parameters self-test
Keyboard no response	System operating malfunctions	Cut off the power and restart the machine
Dark screen or mottled color on screen	System operating malfunctions Cable of LCD display is loose or damaged	Cut off the power and restart the machine, if the problem still exists please contact the after-sales department
The fibers on both sides are not connected with each other after splicing	Abnormal discharging intensity or system operating error	Please do arc correction and splice again, if the problem still exists please turn off the machine and turn on again.

Appendix 3 Contact Us

Fault repair:

Please describe state when fault repair

Multifunctional optical fiber fusion splicer repair shall be returned to agents or manufacturers

Repair please contact us

Connie Zhang

Sales Manager

E-mail : connie@eloikchina.com

Tel/Fax: +86-22-88971157

Mobile/WhatsApp: +86-13672092562

Skype: connie-eloik.123

Warranty Card

Thank you for choose our optical fiber Mini splicing machine. We will offer you the following services according to Consumer Protection Ordinance of People’ s Republic of China:

1. From the purchasing day on, we offer 3 year warranty for the optical fiber splicing machine, 6 months warranty for power supply module and fiber cleaver, 3 months warranty for consumables goods(For example: Cleaver Blade, Electrodes, Strippers, Alcohol bottle etc.)
- 2.Free repairing and replacing services will be offered for damages of accessories caused by quality issues. Material and shipping costs of repairing out of warranty or in warranty but caused by man-made damage or misuse will be undertaken by the buyer.
3. We offer 24-hours online after-sales services. When equipment malfunction can’t be fixed through on-line direction, the equipment can be sent back to the factory and it will be fixed in time.

(Warranty card is needed for equipment under warranty)

Model		S/N		Purchase Date	
Name		Tel			
Address					
Repair Date	Fault Description\Fault Cause\Results		Spare Parts Used	Check Date	Serviceman Signature

Notice:

This warranty certificate is only available for the optical fiber splicing machine.

Please keep the certificate properly and send this certificate together with relative invoice when warranty services are needed.

The design of our products may be changed and improved without notice in advance.

The data or information of the manual are carefully proofread to ensure its correctness, we have the final explanation of any printing mistakes.