

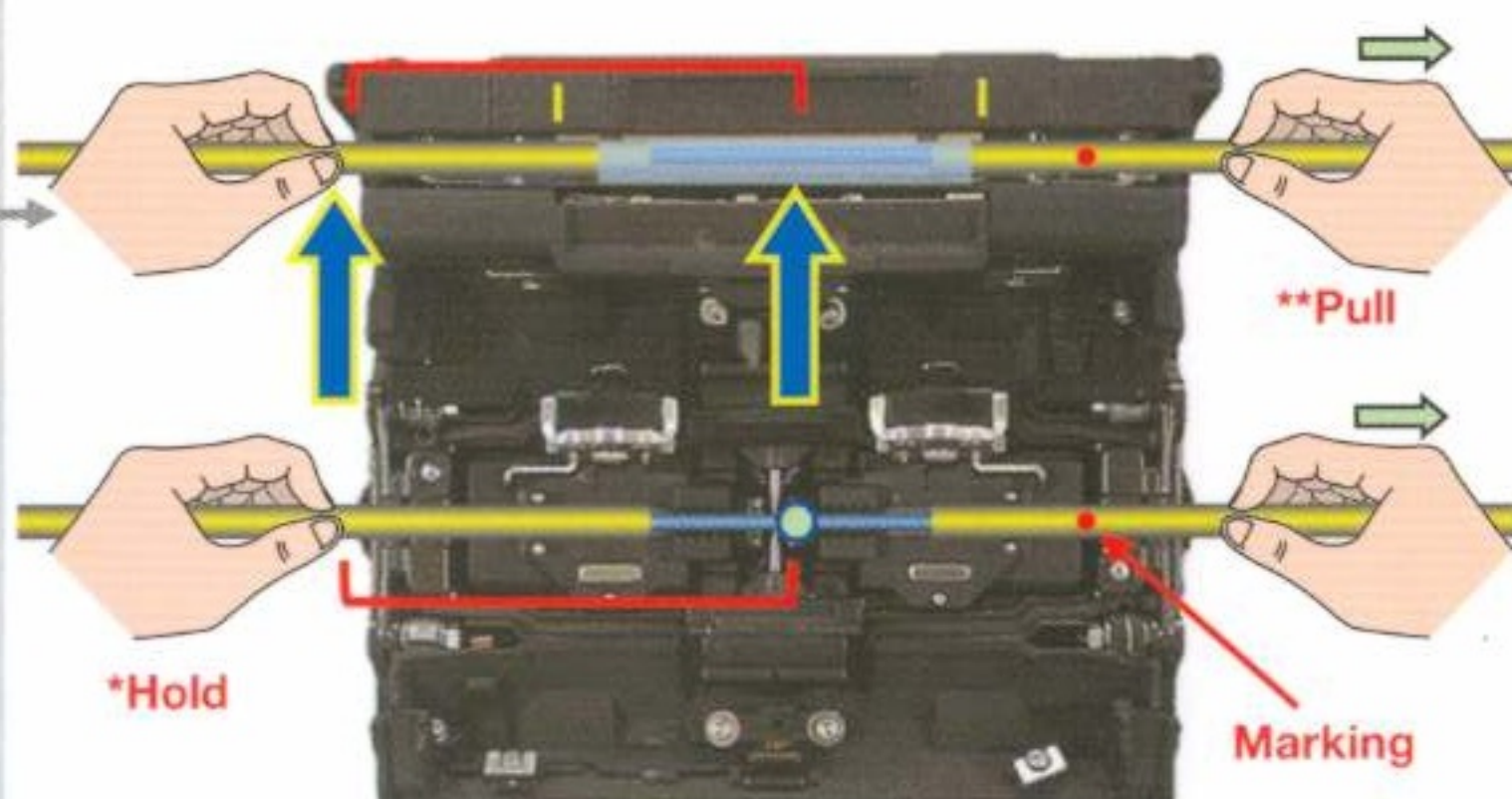
## Splicing Operation

- Turning splicer ON
- Confirming splice, heater and operation modes
- Cleaning coating or sheath of fiber
- Placing protection sleeve over fiber
- Stripping fiber
- Cleaning fiber
- Cleaving fiber
- Loading fiber onto splicer
- Splicing start automatically
- Visual inspection on LCD during splice
- Removing spliced fiber
- Centering protection sleeve in tube heater
- Centering spliced point in tube heater
- Heating start automatically
- Completed

- When splicing only standard SM fibers (ITU-T G.652), "SM AUTO" mode is recommended.
- When splicing different types of fibers, "AUTO" mode is recommended, but splice speed is slow.
- Splicing speed of "SM FAST" mode is fast, but periodical Arc calibration is required.



- Make sure the stripped fiber is free of coating debris or contamination.
- Use only 99% or better purity alcohol.
- Do not allow the cleaved fiber ends to touch anything or become contaminated.
- Place the fiber end between V-groove edge and Electrode center.

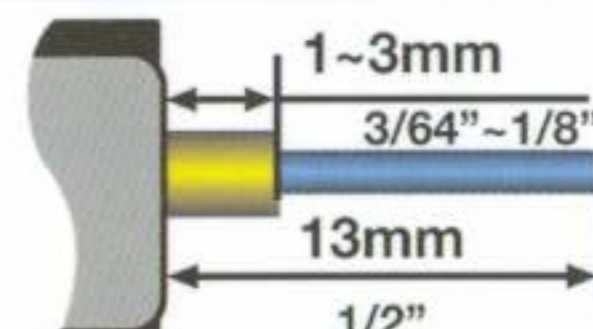
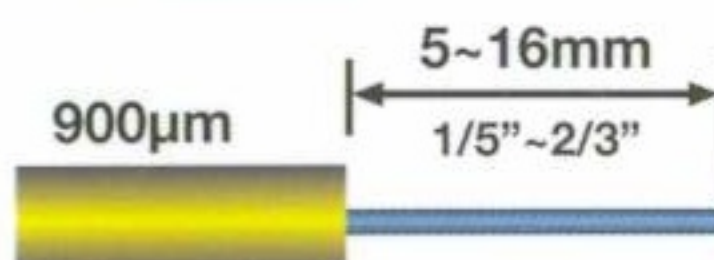
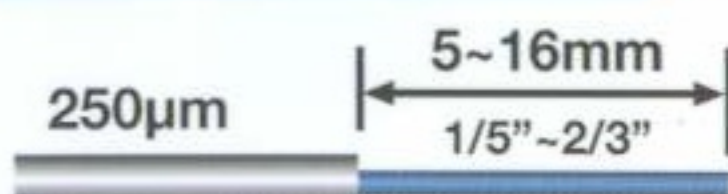


- \*Hold the fiber at edge of splicer body
- \*\*Gently pull the fiber

### Note

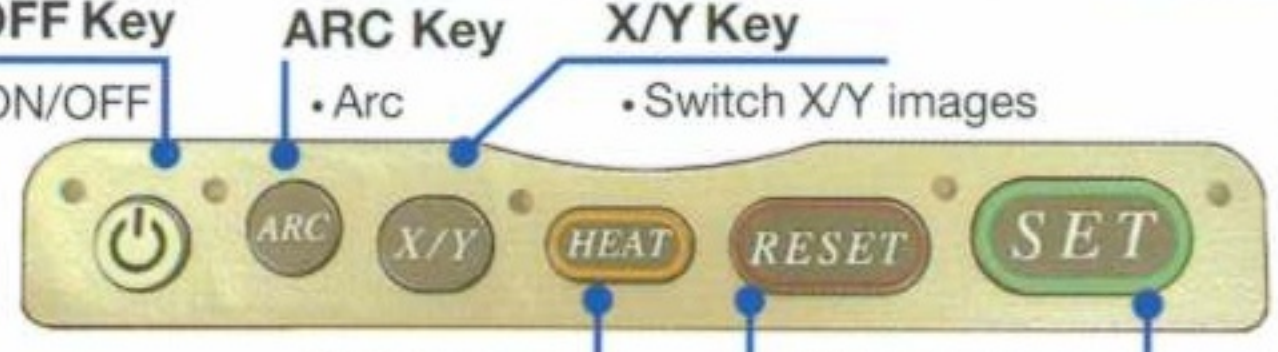
- When splicer indicates following message, splice loss may be high  
 "Arc discharge is not stable. Electrodes should be stabilized to reform the arc discharge."
- Load prepared SM fibers onto splicer in order to stabilize electrodes. After completing it, re-splice fibers.
- When an altitude changes drastically, stabilizing electrodes must be executed before splicing.

### Cleave Length





## How to use Keypad



**ON/OFF Key**  
• Power ON/OFF

**ARC Key**  
• Arc

**X/Y Key**  
• Switch X/Y images

**HEAT Key**  
• Heat Cancel  
• Operation of a lid

**RESET Key**  
• Stop and back to Ready

**SET Key**  
• Execute Splice


**ESC Key**  
• Return to previous screen


**MENU Key**  
• Open Main Menu  
• Go to next page


**UP/DOWN Key**  
• Move cursor  
• Change value

**ENTER Key**  
• Enter of value

• Operation of a Wind Protector

➤ **Turning ON**  
Press  key until **green** LED turns on.

➤ **Turning OFF**  
Press  key until **red** LED turns on.



## Power Supply

### AC Adapter



#### AC operation

- Input power : AC100-240V, 50-60Hz
- Use only supplied AC power cord.
- Connect to ground with ground terminal of AC power cord.
- When using a AC power generator, check output voltage periodically with a circuit tester.

#### DC operation

- Input power : DC12V
- Use only supplied DC power cord.

## Battery Pack

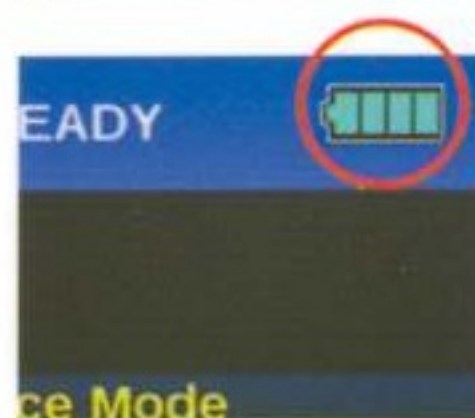
### How to recharge Battery Pack



Recharge by DC is also possible

- ◆ Connect AC adapter (ADC-18) and battery pack (BTR-09) with battery recharge cord (DCC-18).
- ◆ Do not stack battery pack on top of AC adapter while recharging.
- ◆ Recharging temperature: 0~40°C (32~104°F)

### How to check remaining capacity



#### Note

Confirm power saving function is working when using battery



## Cleaning before Splice Operation

### V-grooves



- Clean bottom of V-groove with a thin cotton swab moistened with alcohol.
- Remove excess alcohol from V-grooves with a clean dry swab.
- Use a cleaved fiber end-face to dislodge.

#### Caution of cleaning

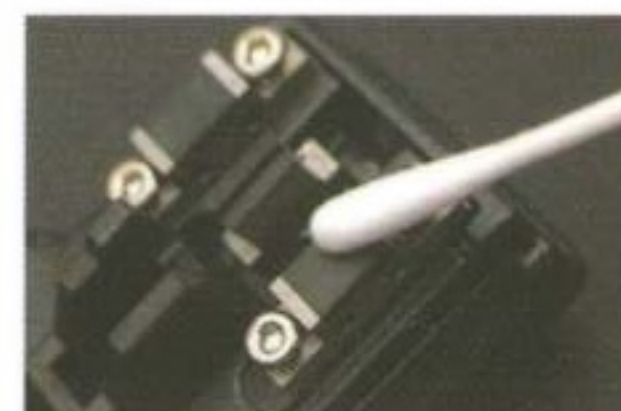
- Do not contact the electrode tips.
- Use only 99% or better purity of alcohol.

### Fiber Clamp Chips



### Fiber Cleaver

- Clean rubber pads.
- Clean rubber anvil.
- Clean blade.



### Objective Lens



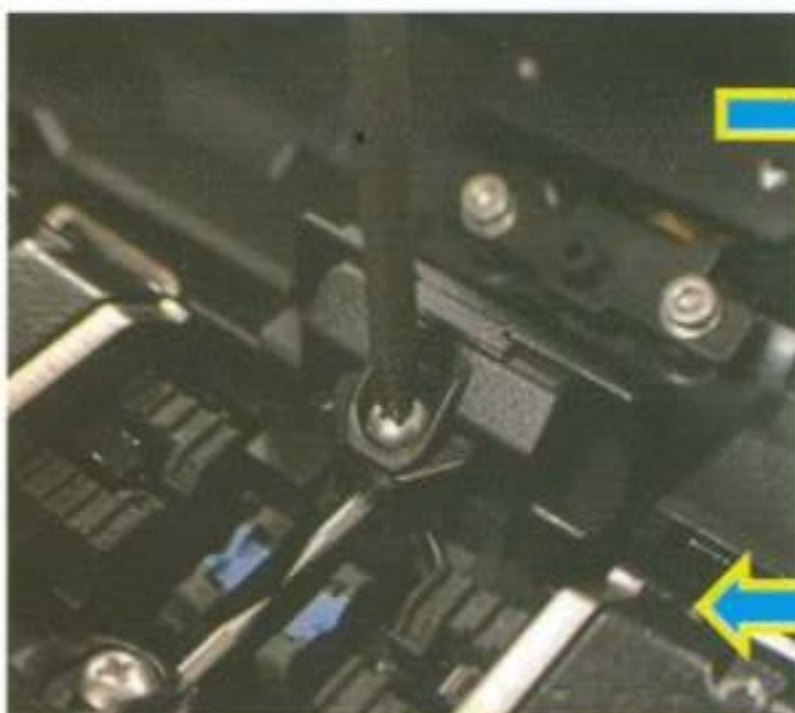
When lens is dirty, clean it.

## Replace Electrodes

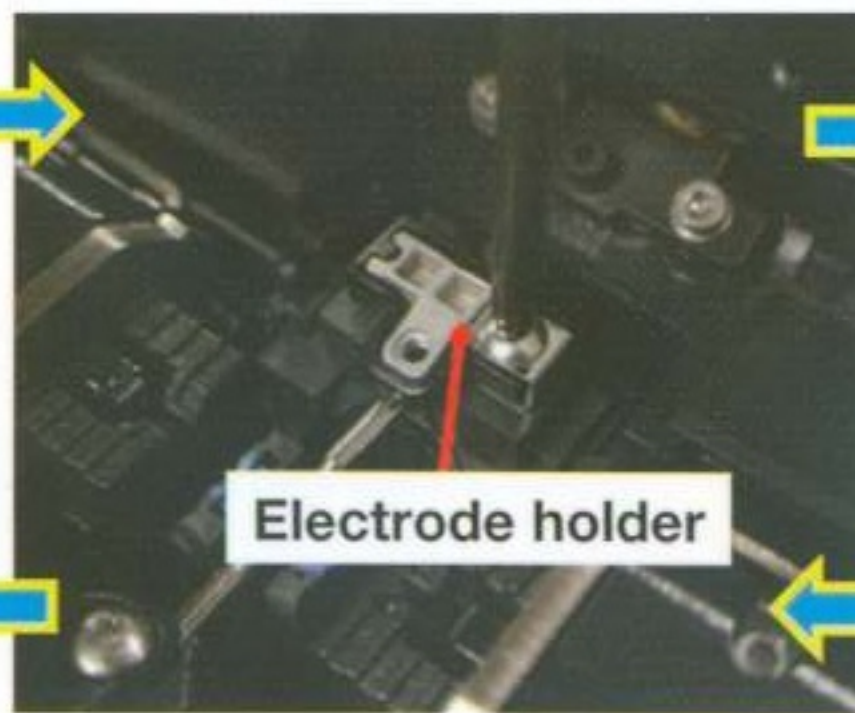
### Electrodes

- When "Replace electrodes" message appears, or when the tip is damaged, replace electrodes.
- Execute [Replace Electrodes] in Maintenance Menu.
- Exchange for a new electrode the old electrode currently attached to equipment.

Remove the electrode cover



Loosen screws



Remove the old electrode



Place the electrode cover

Tighten screws

Install new electrode

- Load prepared fibers onto the splicer.
- Execute [Stabilized Electrodes]
- [Arc Calibration] is executed.



## Solution of an Error

Error Message	Reason	Solution
Too Long Fiber	<ul style="list-style-type: none"> <li>The fiber end-face is placed on the electrode centerline, or beyond it.</li> <li>The cleave length (bare fiber part) is too long</li> <li>Dust or dirt is on the objective lens.</li> </ul>	<ul style="list-style-type: none"> <li>Press <b>RESET</b>, and set the fiber end-face between the electrode centerline and the V-groove edge.</li> <li>Confirm the setting position of the stripped fiber end on the fiber cleaver. Check the cleave length.</li> <li>Execute the [Dust Check]. Clean the lens when dust or dirt exists.</li> </ul>
Too Dusty Fiber	<ul style="list-style-type: none"> <li>Dust or dirt is on the fiber surface.</li> <li>Dust or dirt is on the objective lens.</li> <li>[Cleaning Arc] time is too short or "OFF."</li> <li>Splicing indistinct core fibers with the SM or DS modes.</li> <li>[Align] is set to "Core" to splice indistinct core fibers when using other splice modes.</li> <li>[Focus] is incorrectly set when using other splice modes. The fiber end-face is placed on the electrode centerline, or beyond it.</li> </ul>	<ul style="list-style-type: none"> <li>Completely prepare the fiber again (strip, clean and cleave).</li> <li>Execute the [Dust Check]. Clean the lens if dust or dirt exists.</li> <li>Set the [Cleaning Arc] time to "150ms." When splicing carbon coated fibers, set to "200ms."</li> <li>Use the MM mode to splice indistinct core fibers (i.e. MM fiber).</li> <li>Set [Align] to "Clad" to splice indistinct core fibers (i.e. MM fiber).</li> <li>Set [Focus] to "Edge" to splice indistinct core fibers (i.e. MM fiber). To splice distinct core fibers, "Auto" or the correct focus value should be entered.</li> </ul>
ZL/ZR Motor Overrun	<ul style="list-style-type: none"> <li>The fiber is set too far back and does not reach the splice point.</li> <li>The fiber is not set correctly at the bottom of the V-groove. The fiber is not located in the Camera's field of view.</li> <li>The cleave length (bare fiber part) is too short.</li> </ul>	<ul style="list-style-type: none"> <li>Press <b>RESET</b>, re-position the fiber again with the end-face closer to the electrodes.</li> <li>Press <b>RESET</b>, and set the fiber again to seat it correctly at the bottom of the V-groove.</li> <li>Confirm the setting position of the stripped fiber end on the fiber cleaver. Check the cleave length.</li> </ul>
Large Cleave Angle	<ul style="list-style-type: none"> <li>Bad fiber end-face.</li> <li>[Cleave Limit] is set too low</li> </ul>	<ul style="list-style-type: none"> <li>Check the condition of the fiber cleaver. If the blade is worn, rotate the blade to a new position.</li> <li>Increase the [Cleave Limit] to an adequate limit.</li> </ul>
Cleave Shape NG	<ul style="list-style-type: none"> <li>Bad fiber end-face.</li> </ul>	<ul style="list-style-type: none"> <li>Check the condition of the fiber cleaver. If the blade is worn, rotate the blade to a new position.</li> </ul>

## Contact Address

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