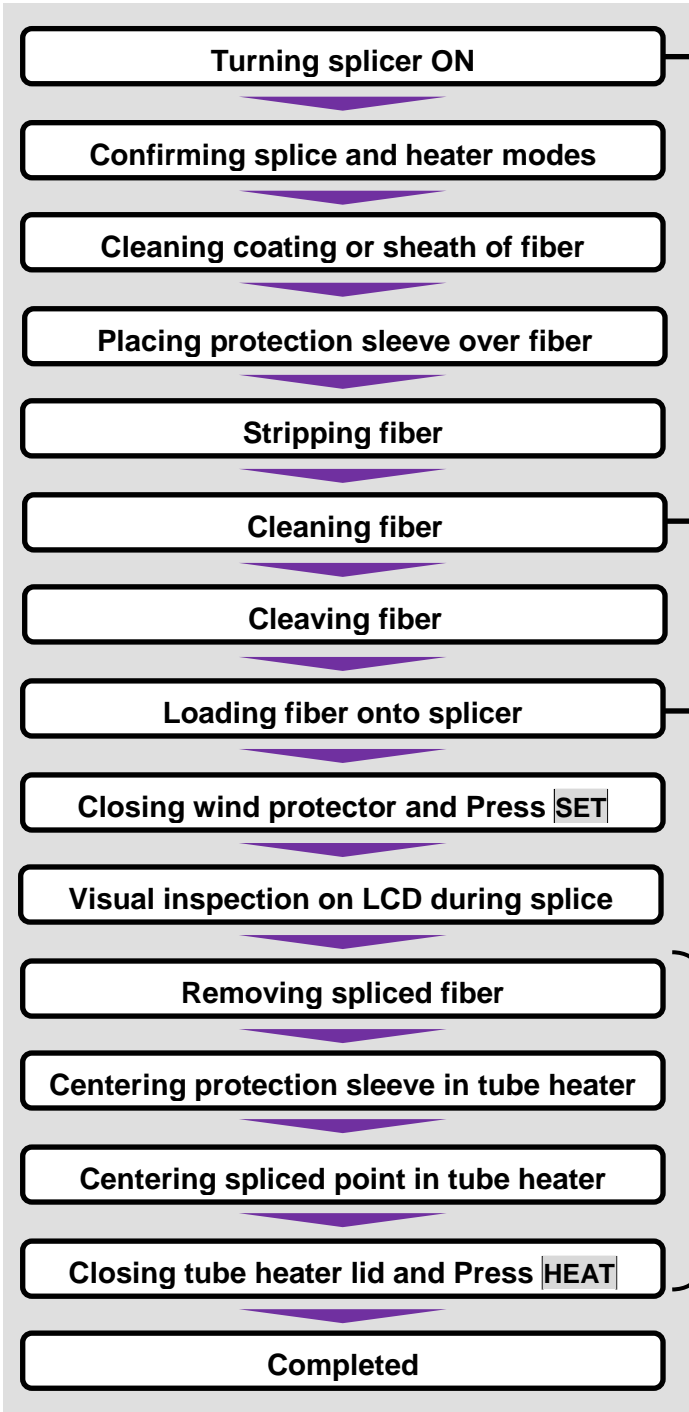
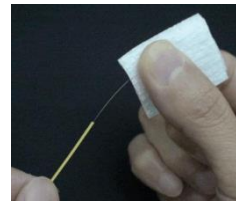


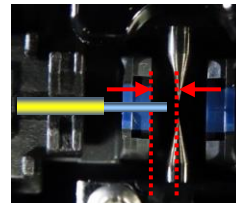
# Splicing Operation



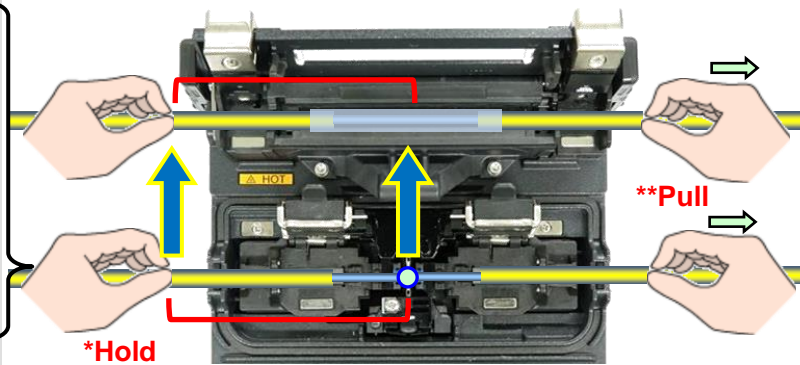
When splicing only standard SM fibers, **“SM AUTO”** mode is recommended. Heating Mode has been the optimal conditions for the sleeve made from FUJIKURA.



- Make sure the stripped fiber is free of coating debris or contamination.
- Use only 99% or better purity alcohol.



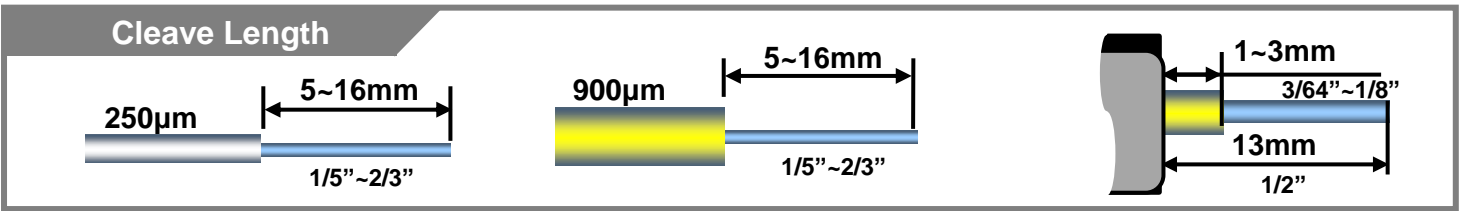
- **Do not allow the cleaved fiber ends to touch anything or become contaminated.**
- Place the fiber end between V-groove edge and Electrode center.



- \*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.



## Sheet Key Operation

**ON/OFF key**

- Power ON/OFF

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

➤ **Turning OFF**  
Press key until **red LED** turns on.  
**Then, release** **key to turn off.**

**UP/DOWN key**

- Move cursor
- Change value

**ESCAPE key**

- Return to previous screen
- How to operate

**HEAT key**

- Heater ON/OFF

**ENT key**

- Open the Menu at the "READY" state.
- Select the command and decide the parameter at the menu state

**SET key**

- Execute Splice
- To next page in the menu

**RESET key**

- Stop and back to Ready

## Power Supply

### AC Adapter

**ADC-19**

**AC power cord**

**AC Operation**

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

Insert AC cord into the AC inlet of the AC adapter. The power ON LED of the AC adapter changes green color when suitable AC voltage is supplied.  
**If high AC Voltage is supplied, AC adapter will immediately be damaged.**

**Inlet**

### Battery Pack

How to recharge battery

When LED blink at the time of charge is early, degradation of a battery and failure can be considered. Charge is not performed. Exchange for New BTR-11.

- Charging an internal battery pack "BTR-11" is started where AC adapter "ADC-19" is connected to an Inlet.
- Keep below practices to prevent battery damage. Fully charge the battery after every use. Follow bellow conditions.

How to check remaining capacity

Note

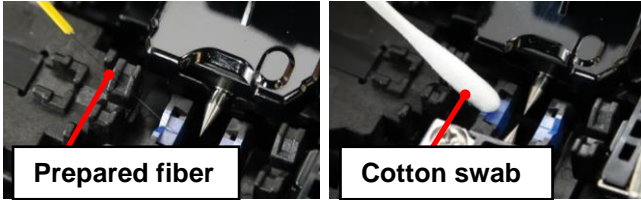
Confirm power saving function is working when using battery pack.

**Operation** : -10 degree C to 50 degree C  
**Charging** : 0 degree C to 40 degree C  
**Storage** : -20degree C to 50 degree C

- If splicer is already equipped with the battery, turn splicer ON. Power source of "Battery" is automatically identified and the remaining battery capacity is displayed on the "READY" screen.

## Cleaning before Splice Operation

### V-groove

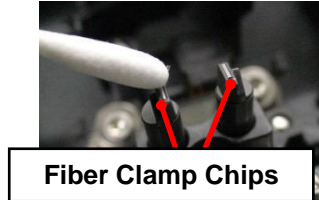


- Clean bottom of V-groove with a thin cotton swab with alcohol.
- Remove excess alcohol from V-grooves with a clean dry swab.
- Use a cleaved fiber end-face to dislodge.

**Note**

- 1) Remove electrodes before cleaning objective lens cover.
- 2) Do not contact the electrode tips.
- 3) Use only 99% or better purity of alcohol.

### Fiber Clamp Chips



### Fiber Cleaver

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

### Objective Lenz

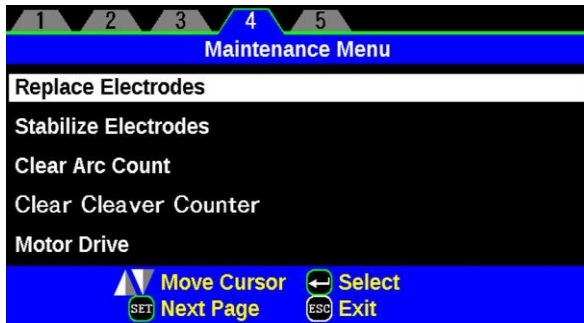


When lens is dirty, clean it.

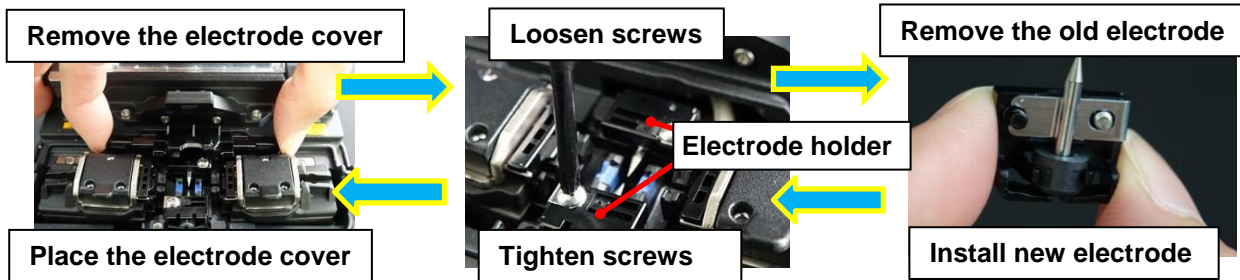
## Periodical Maintenance

### Electrodes

- When "Replace electrodes" message appears, or when the tip is damaged, replace electrodes.
- Execute [Replace Electrodes]

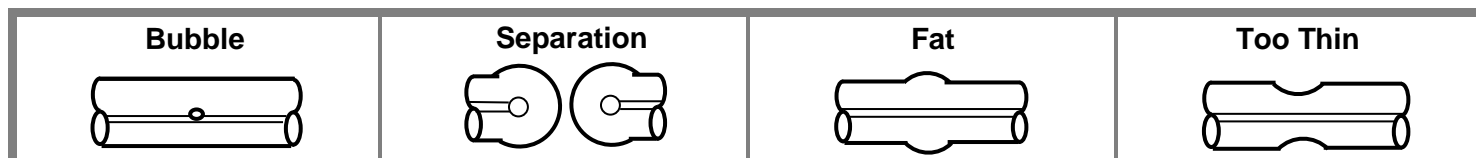


- Exchange to new electrode.



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

## Visible Splice Defects and Error Message



Error Message	Reason	Solution
<b>Too Long Fiber</b>	<ul style="list-style-type: none"> <li>▪ The Cleave length (bare fiber part) is too long.</li> <li>▪ Dust or dirt is on the objective lens cover.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Cleave by forcing a holder tip of fiber cutting, and pressing to a position.</li> <li>▪ Execute the [Dust Check]. Clean the lens cover when dust or dirt exists.</li> </ul>
<b>Too Dusty Fiber</b>	<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 cover.</li> <li>▪ [Cleaning Arc] time is too short or "OFF".</li> </ul>	<ul style="list-style-type: none"> <li>▪ Prepare the fiber again.</li> <li>▪ Execute the [Dust Check]. Clean the lens cover when dust or dirt exists.</li> <li>▪ Set the [Cleaning Arc] time. When splicing carbon coated fibers, set to more time.</li> </ul>
<b>ZL/ZR Motor Overrun</b>	<ul style="list-style-type: none"> <li>▪ The fiber is correctly at the bottom of the V-groove.</li> <li>▪ The Cleave length (bare fiber part) is too short.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Press RESET, and set the fiber again to seat it correctly at the bottom of the V-groove.</li> <li>▪ Cleave by forcing a holder tip of fiber cutting, and pressing to a position. Check the fiber length.</li> </ul>
<b>Large Cleave Angle</b>	<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>
<b>Cleave Shape NG</b>	<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

Fujikura Ltd.	1-5-1 Kiba, Koto-ku, Tokyo 135-8512 Japan Phone : +81-3-5606-1131      Fax : +81-3-5606-1528 <a href="http://www.fujikura.co.jp">http://www.fujikura.co.jp</a>
Fujikura (CHINA) Co., Ltd.	16 <sup>th</sup> Floor, Shanghai Hang Seng Bank Tower 1000Lujiazui Ring Road, Pudong New Area Shanghai ZIP200120, China Phone : +86-21-6841-3636      Fax : +86-21-6841-2070 <a href="http://www.fujikura.com.cn">http://www.fujikura.com.cn</a>
Fujikura Asia Ltd.	438A Alexandra Road, #08-03 Blk A Alexandra Techno Park, SINGAPORE, 119967 Phone : +65-6-2711312      Fax : +65-6-2780965 <a href="http://www.fujikura.com.sg">http://www.fujikura.com.sg</a>
Fujikura Europe Ltd.	C51 Barwell Business Park, Leatherhead Road, Chessington, Surrey KT9 2NY England Phone : +44-20-8240-2000      Fax : +44-20-8240-2010 <a href="http://www.fujikura.co.uk">http://www.fujikura.co.uk</a>
AFL Telecommunications	260 Parkway East, Duncan, SC 29334 USA Phone : +1-800-235-3423      Fax : +1-864-433-5560 <a href="http://www.AFLglobal.com">http://www.AFLglobal.com</a>

URL : <http://www.fusionsplicer.fujikura.com>