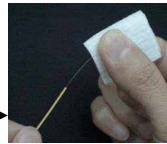


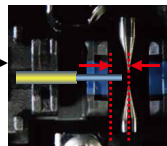
## Splicing Operation

- Turning splicer ON
- ▼
- Confirming splice and heater modes
- ▼
- Cleaning coating or sheath of fiber
- ▼
- Placing protection sleeve over fiber
- ▼
- Stripping fiber
- ▼
- Cleaning fiber
- ▼
- Cleaving fiber
- ▼
- Loading fiber onto splicer
- ▼
- Closing wind protector and Press **SET**
- ▼
- Visual inspection on LCD during splice
- ▼
- Removing spliced fiber
- ▼
- Centering protection sleeve in tube heater
- ▼
- Centering spliced point in tube heater
- ▼
- Closing tube heater lid and Press **HEAT**
- ▼
- Completed

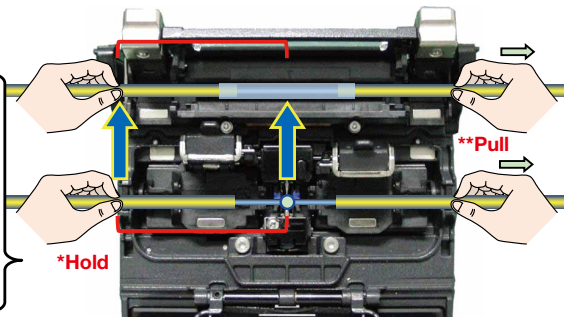
When splicing only standard SM fibers, "**SM AUTO**" mode is recommended. Heating Mode has been the optimal conditions for the sleeve made from FUJIKURA.



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



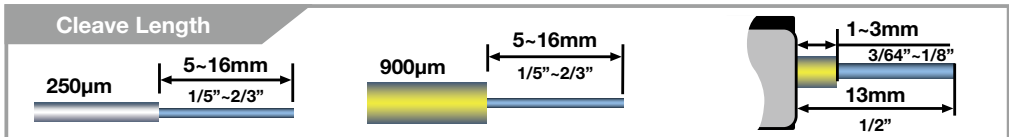
- Do not allow the cleaved fiber ends to touch anything or become contaminated.
- Place the fiber end between V-groove edge and Electrode center.



- 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.**

**ESCAPE** key

- Return to previous screen
- How to operate

**UP/DOWN** key

- Move cursor
- Change value

**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

**RESET** key

- Stop and back to Ready

**SET** key

- Execute Splice
- To next page in the menu

## 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 a 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.

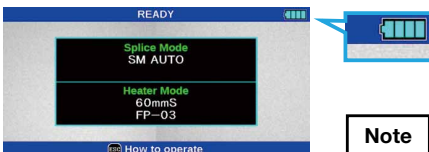
**If high AC Voltage is supplied, AC adapter will immediately be damaged.**

### 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-10.

#### How to check remaining capacity



**Note**

- Charging an internal battery pack "BTR-10" 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 below conditions.

**Operation** : -10 degree C to 50 degree C

**Charging** : 0 degree C to 40 degree C

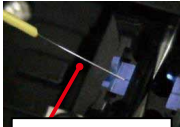
**Storage** : -20degree C to 50 degree C

- 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.

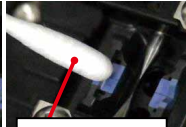
**Confirm power saving function is working when using battery pack.**

## Cleaning before Splice Operation

### V-groove



Prepared fiber



Cotton swab



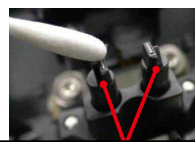
VCB-01

- 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.
- Use the specialized V-groove cleaning brush: VCB-01].

### 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.
- 4) VCB-01 is the cleaning tool only for V-groove. Do not clean except for V-groove.

### Fiber Clamp Chips



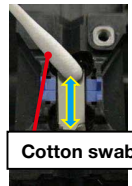
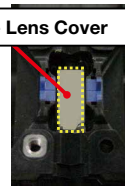
Fiber Clamp Chips

### Fiber Cleaver

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

### Objective Lens Cover

Objective Lens Cover

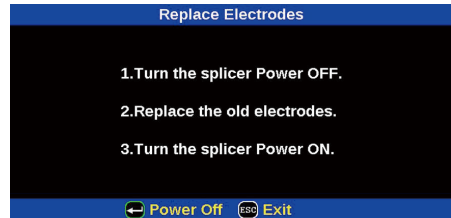
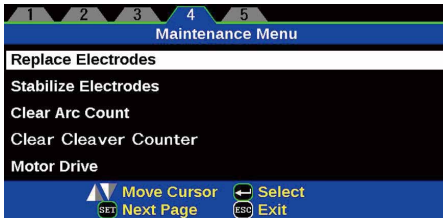


Cotton swab

## Periodical Maintenance

### Electrodes

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



- Exchange to new electrode.

Remove the electrode cover



Place the electrode cover

Loosen screws



Tighten screws

Electrode holder

Remove the old electrode



Install 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 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 <b>[Dust Check]</b>. Clean the lens 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><b>[Cleaning Arc]</b> time is too short or "OFF".</li> </ul>	<ul style="list-style-type: none"> <li>Prepare the fiber again.</li> <li>Execute the <b>[Dust Check]</b>. Clean the lens cover when dust or dirt exists.</li> <li>Set the <b>[Cleaning Arc]</b> 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 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> </ul>
<b>Large Cleave Angle</b>	<ul style="list-style-type: none"> <li>Bad fiber end-face.</li> <li><b>[Cleave Limit]</b> 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 <b>[Cleave Limit]</b> 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

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<b>Authorized Splicer Distributor</b>	

