

## 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

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Authorized Splicer Distributor



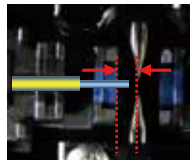
## Splicing Operation

- 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

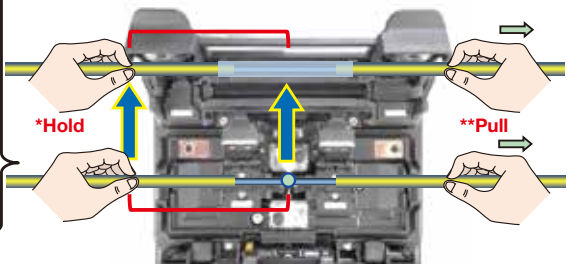
When splicing only standard SM fibers, "SM AUTO" mode is recommended. Heating Mode has been the optimal conditions for the sleeve made from FUJIKURA.



- 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.

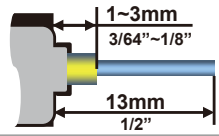
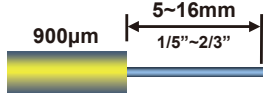
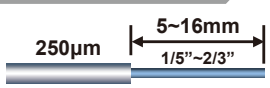


\*Hold the fiber at edge of splicer body  
 \*\*Gently pull the fiber.

**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.

**Cleave Length**



## Sheet Key Operation

**ON/OFF key**  
• Power ON/OFF

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

**HEAT key**  
• Heater ON/OFF

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

**SET key**  
• Execute Splice  
• To next page in the menu

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

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

## Power Supply

### AC Adapter

**ADC-19A**  
**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.

**How to check remaining capacity**

- Charging an internal battery pack "BTR-11" is started where AC adapter "ADC-19A" 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** : -20 degree 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.

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

## Cleaning before Splice Operation

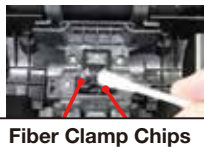
### V-groove



- 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

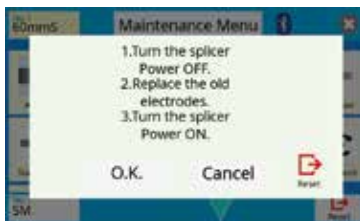


When lens is dirty, clean it.

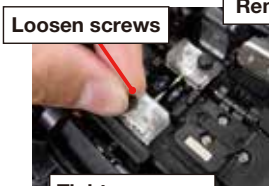
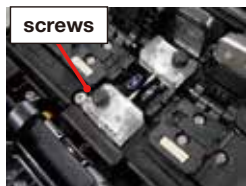
## Periodical Maintenance

### Electrodes

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



- Exchange to new electrode.



Remove the old electrode



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