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

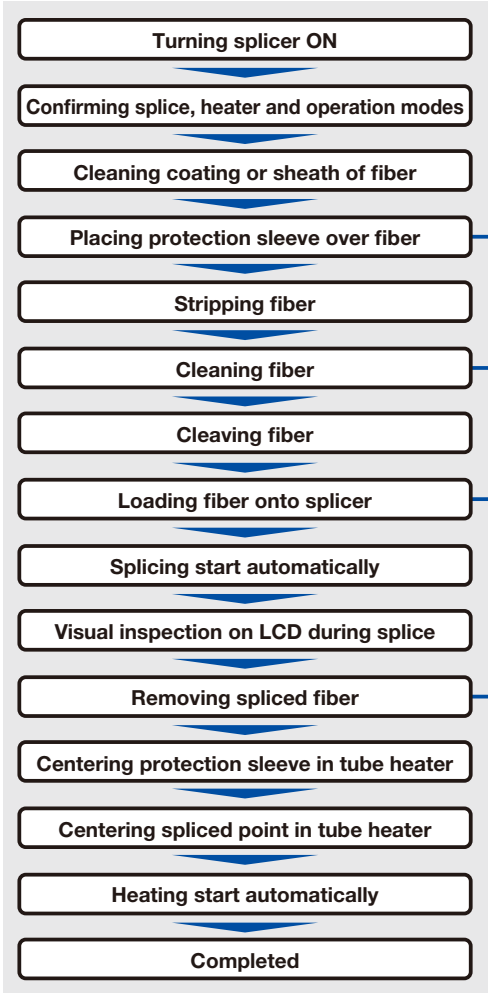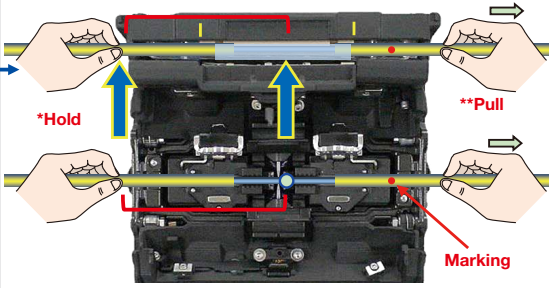Completed

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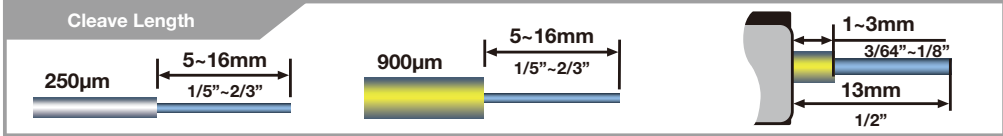
- Make sure the stripped fiber is free of coating debris or contamination.
- Use only 99% or better purity alcohol.
- Do not allow the cleaved fiber ends to touch anything or become contaminated.
- Place the fiber end between V-groove edge and Electrode center.

*Hold

**Pull

Marking

*Hold the fiber at edge of splicer body.
**Apply tension to the fiber until heater cover closes completely.

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 completeing it, re-splice fibers.
- When an altitude changes drastically, stabilizing elctrodes must be excecuted before splicing.

Cleave Length

250µm — 5~16mm / 1/5"~2/3"

900µm — 5~16mm / 1/5"~2/3"

1~3mm / 3/64"~1/8"
13mm / 1/2"

How to use Keypad

ON/OFF Key
• Power ON/OFF

ARC Key
• Arc

X/Y Key
• Switch X/Y images

• Operation of a Wind Protector

ESCAPE Key
• Return to previous screen

HEAT Key
• Heat Cancel
• Operation of a lid

RESET Key
• Stop and back to Ready

SET Key
• Execute Splice

MENU Key
• Open Main Menu
• Go to next page

UP/DOWN Key
• Move cursor
• Change value

ENTER Key
• Enter of value

➢ **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.**

DC Input   AC Input

Battery Pack

How to recharge Battery Pack

BTR-09

ADC-18

DCC-18

AC cord

Rechage 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**

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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

Objective Lens

When lens is dirty, clean it.

Fiber Cleaver

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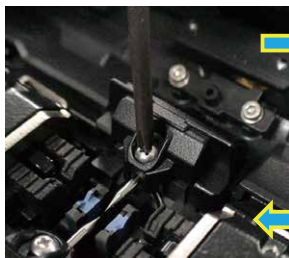- Clean rubber anvil.
- Clean blade.


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. Use attached screw driver (SD-01).**

Remove the electrode cover

Place the electrode cover

Loosen screws

Electrode holder
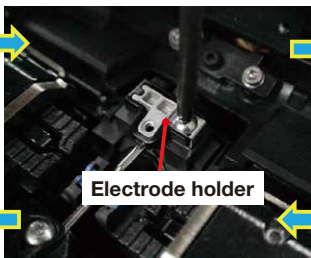
Tighten screws

Remove the old electrode

Install new electrode

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

Ways of Solution of an Error

Error Message	Reason	Solution
Too Long Fiber	• The fiber end-face is placed on the electrode centerline, or beyond it. • The cleave length (bare fiber part) is too long • Dust or dirt is on the objective lens.	• Press RESET , and set the fiber end-face between the electrode centerline and the V-groove edge. • Confirm the setting position of the stripped fiber end on the fiber cleaver. Check the cleave length. • Execute the [Dust Check]. Clean the lens when dust or dirt exists.
Too Dusty Fiber	• Dust or dirt is on the fiber surface. • Dust or dirt is on the objective lens. • [Cleaning Arc] time is too short or "OFF." • Splicing indistinct core fibers with the SM or DS modes. • [Align] is set to "Core" to splice indistinct core fibers when using other splice modes. • [Focus] is incorrectly set when using other splice modes. The fiber end-face is placed on the electrode centerline, or beyond it.	• Completely prepare the fiber again (strip, clean and cleave). • Execute the [Dust Check]. Clean the lens if dust or dirt exists. • Set the [Cleaning Arc] time to "150ms." When splicing carbon coated fibers, set to "200ms." • Use the MM mode to splice indistinct core fibers (i.e. MM fiber). • Set [Align] to "Clad" to splice indistinct core fibers (i.e. MM fiber). • 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.
ZL/ZR Motor Overrun	• The fiber is set too far back and does not reach the splice point. • 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. • The cleave length (bare fiber part) is too short.	• Press RESET , re-position the fiber again with the end-face closer to the electrodes. • Press RESET , and set the fiber again to seat it correctly at the bottom of the V-groove. • Confirm the setting position of the stripped fiber end on the fiber cleaver. Check the cleave length.
Large Cleave Angle	• Bad fiber end-face. • [Cleave Limit] is set too low	• Check the condition of the fiber cleaver. If the blade is worn, rotate the blade to a new position. • Increase the [Cleave Limit] to an adequate limit.
Cleave Shape NG	• Bad fiber end-face.	• Check the condition of the fiber cleaver. If the blade is worn, rotate the blade to a new position.

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