

Splice 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

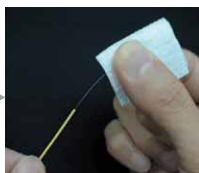
Centering protection sleeve in tube heater

Centering spliced point in tube heater

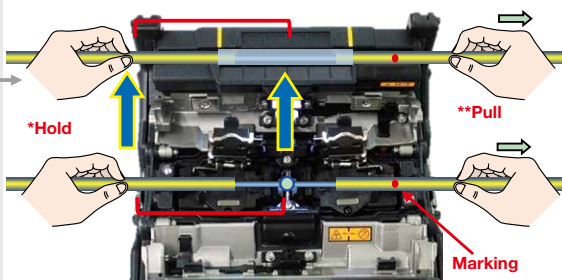
Heating start automatically

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.

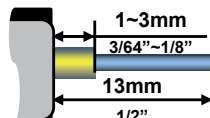
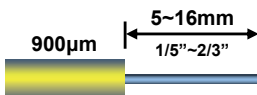
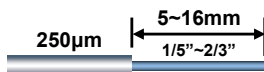


- * Hold the fiber at edge of splicer body.
- ** Apply tension to the fiber until heater holds the fiber.

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

X/Y Key

- Switch X/Y images

SET Key

- Execute Splice

Open/Close Key

- Operation of a Wind Protector

ARC Key

- Arc

HEAT Key

- Heat Cancel
- Operation of a lid

RESET Key

- Stop and back to Ready

ESCAPE 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



Turning ON

Press  key until **green** LED turns on.

Turning OFF

Press  key until **red** LED turns on.

Power Supply

AC Adapter



DC Input AC Input

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

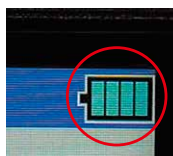
How to recharge Battery Pack



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 pack

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

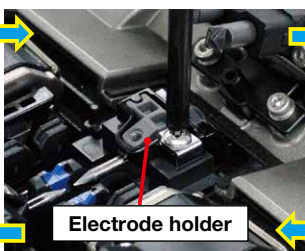
Electrodes

- 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



Loosen screws



Electrode holder

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.

Ways of solution of an Error

Error Message	Reason	Solution
Too Long Fiber	<ul style="list-style-type: none"> 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. 	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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. 	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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. 	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Bad fiber end-face. [Cleave Limit] is set too low 	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Bad fiber end-face. 	<ul style="list-style-type: none"> Check the condition of the fiber cleaver. If the blade is worn, rotate the blade to a new position.