

Tool for Splicing Operation



Mass Fusion Splicer



Fiber Holder



Ribbon Fiber Stripper



Optical Fiber Cleaver



Protection sleeve

Consumables for cleaning

- Cotton
- Cotton swab
- Alcohol

Setup & Preparation before Splicing

Plug AC adaptor into the DC adaptor.
*No need when using battery pack.



Turn splicer ON.

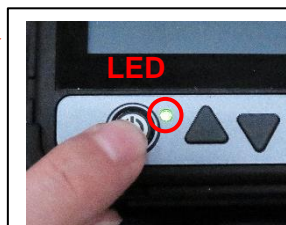
Confirm Splice Mode

Confirm Heater Mode

Check Wireless Communication

Clean before splicing

Setup & Preparation complete



- **Turning ON**
Press key until **green** LED turns on.
- **Turning OFF**
Press key until **red** LED turns on.

Splice Mode

- Select "SM AUTO" to splice standard SM fibers (ITU-T G.652).

Heater Mode

- Select the adequate heater mode according to the sleeve. The [READY] screen shows the current heater mode.
- When using a protection sleeve which is not made by Fujikura, please set parameters based on the specific sleeve.

Sheet Key Operation

ON/OFF

- Power ON/OFF

- **Turning ON**
Press key until **green** LED turns on, then release.
- **Turning OFF**
Press key until **red** LED turns on, then release.

Power LED

HEAT LED

UP/DOWN

HEAT

RESET

SET

- Execute Splice
- Hold down to navigate to next page in the menu

- Move cursor
- Change value
- Open the "Classic Menu" with key in [READY] screen.

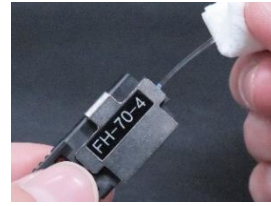
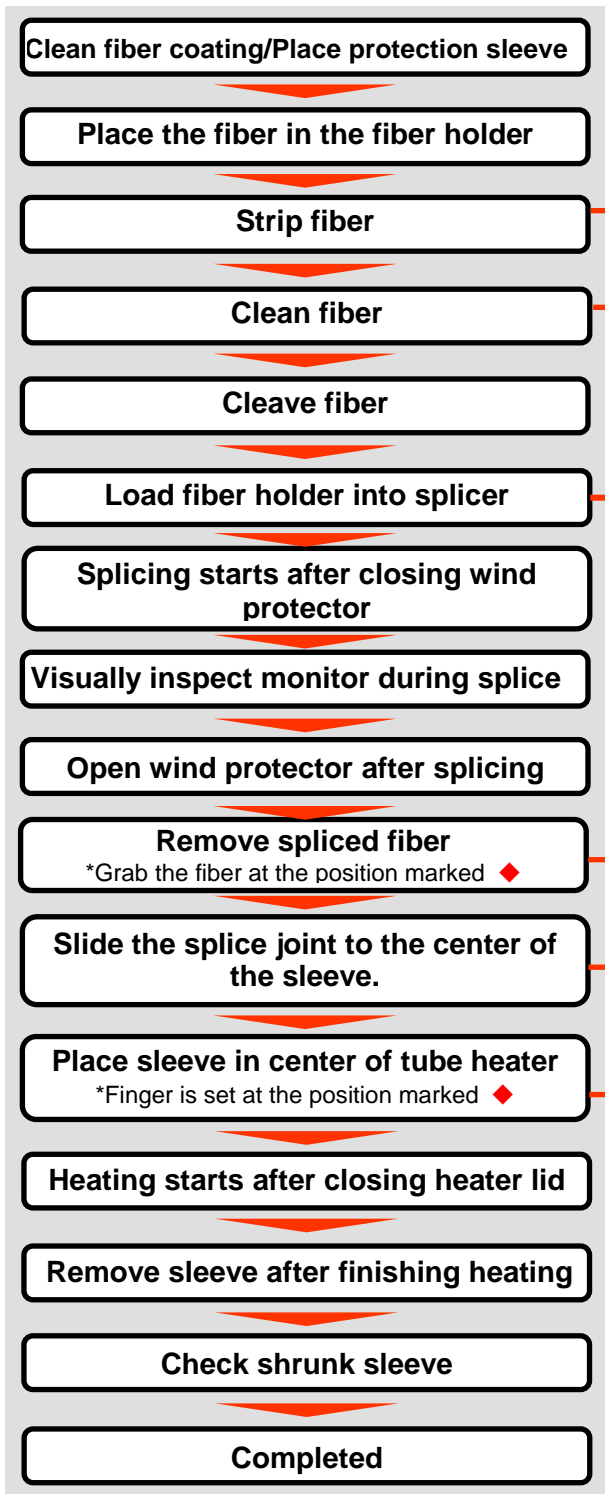
- Heater ON/OFF

- Stop and back to Ready state

LED Indication

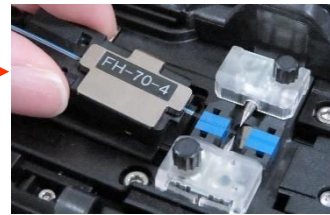
- Power LED
Power ON: **green** LED turns on.
Battery Charge: **orange** LED blinked
- HEAT LED
Heater ON: **orange** LED blinked

Splice Operation



• Press firmly at the points indicated above

- Clean the fiber coating as well as the bare fiber
- Use pure ethyl alcohol, >99%

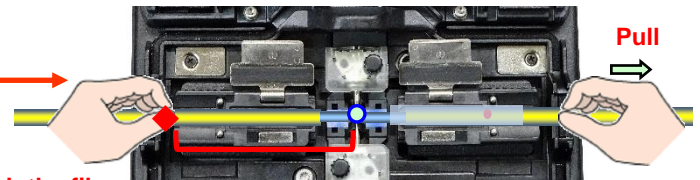


Note; On Holder

- Place fiber holders in the splicer so that the model number reads left to right. If reversed, you may mismatch fibers

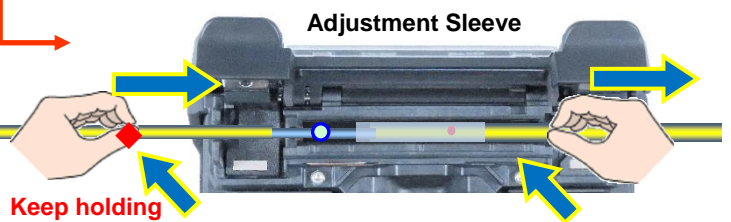
Tips for single fiber

Marking the fiber coating is convenient to avoid "twisting the fiber" when transferring to the heater



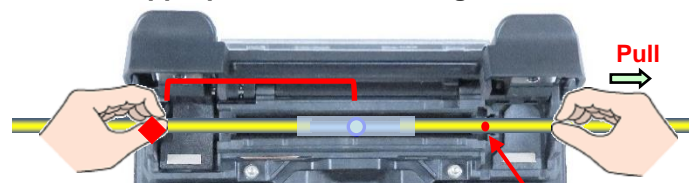
Grab the fiber

Apply proper tension to the fiber during transition to the tube heater to avoid bending of the fiber



Keep holding fiber

There are two slots, one for 40mm and one for 60mm. Use the appropriate slot according to sleeve size.



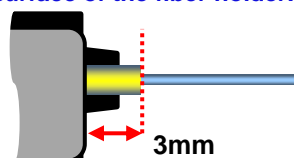
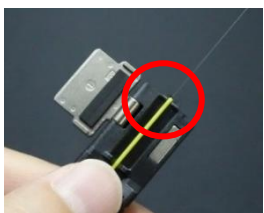
Keep pinching here

Marking

Keep applying tension to the fiber until the heater clamps hold it.

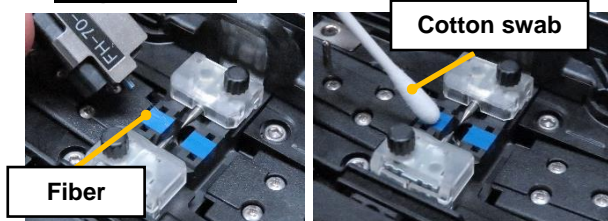
In case of single fiber

When setting a single fiber in the fiber holder, adjust the fiber so 3mm of coating protrudes from the flat front surface of the fiber holder.



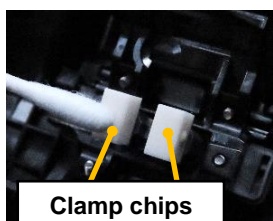
Cleaning before Splice Operation

V-grooves



- 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.

V-groove Clamps



Tools

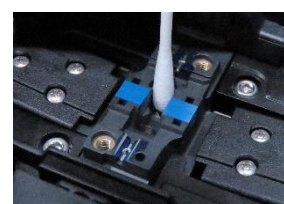
Optical fiber cleaver

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

Ribbon fiber stripper

- Clean stripping blade

Objective Lens



- When the lens is dirty, clean it with a thin cotton swab moistened with alcohol.
- Remove the electrodes when cleaning the lenses.

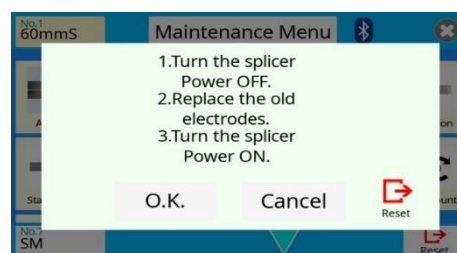
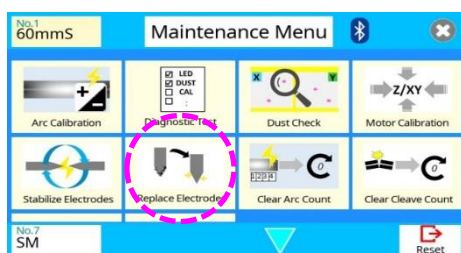
Cleaning Cautions

- Do not allow contact onto the electrode tips.
- Use only 99% or better purity of alcohol
- Use new lint-free cotton swab every time you clean.

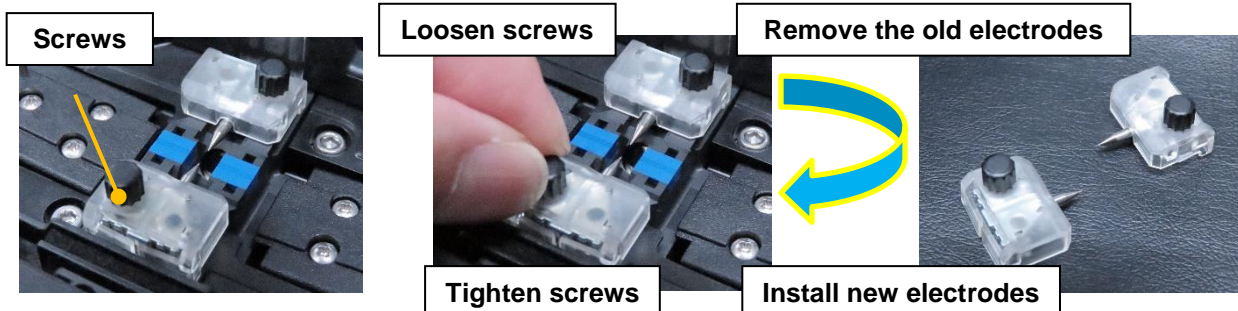
Electrode Replacement

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

《Replace the electrode after selecting [Electrode Replacement] in the maintenance menu.》



- Exchange to new electrode.



- After installation, execute [Stabilized Electrodes] followed by an [Arc Calibration].

Solutions to Common Splicer Errors

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 set position of the stripped fiber end on the fiber cleaver. Check the cleave length. • Execute [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." 	<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. • Increase the [Cleaning Arc] time in small increments.
ZL/ZR Motor Overrun	<ul style="list-style-type: none"> • The bare fiber is too far back and does not reach the electrodes. • The cleave length (bare fiber) is too short. 	<ul style="list-style-type: none"> • Press RESET, re-position the fiber again with the end-face closer to the electrodes. • Confirm the set 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. If dirty, clean clamp pads, anvil, or blade. • Load the default value from the splice mode database.
Cleave Shape NG	<ul style="list-style-type: none"> • Bad fiber end-face 	<ul style="list-style-type: none"> • Clean and check the condition of the fiber cleaver. If the blade is worn, rotate the blade to a new position. If dirty, clean clamp pads, anvil, or blade.
High Estimated Loss	<ul style="list-style-type: none"> • Dust or dirt is on the fiber surface • Bad fiber end-face • Unstable arc discharge 	<ul style="list-style-type: none"> • Completely prepare the fiber again (strip, clean and cleave). • Check the condition of the fiber cleaver. If the blade is worn, rotate the blade to a new position. • Electrodes might be worn. Perform [Electrode Stabilization] or replace electrodes.

*This table only shows a few possible errors. Refer to the instruction manual for a more comprehensive list.

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