QRG-02

Tools for Splicing Operation

The following items are standard tools for optical fiber splicing.



90S Core Alignment Fusion Splicer



Single Fiber Stripper



Optical Fiber Cleaver



Protection sleeve

Consumables for cleaning

- Cotton
- Cotton swab
- Alcohol

Setup & Preparation Before Splicing

Install battery pack or DC adaptor

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 status

Clean before splicing

Setup & Preparation completed



*Basic operations can be performed from the touch screen after the power is turned on.



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

Splice Mode:

- Select "SM AUTO" to splice standard SM fibers (ITU-T G.652).
- Select "AUTO" mode to splice unknown fiber types. However, splice time might be longer.
- "SM-FAST" will shorten the splice time. However, periodic Arc Calibrations are neccesary.

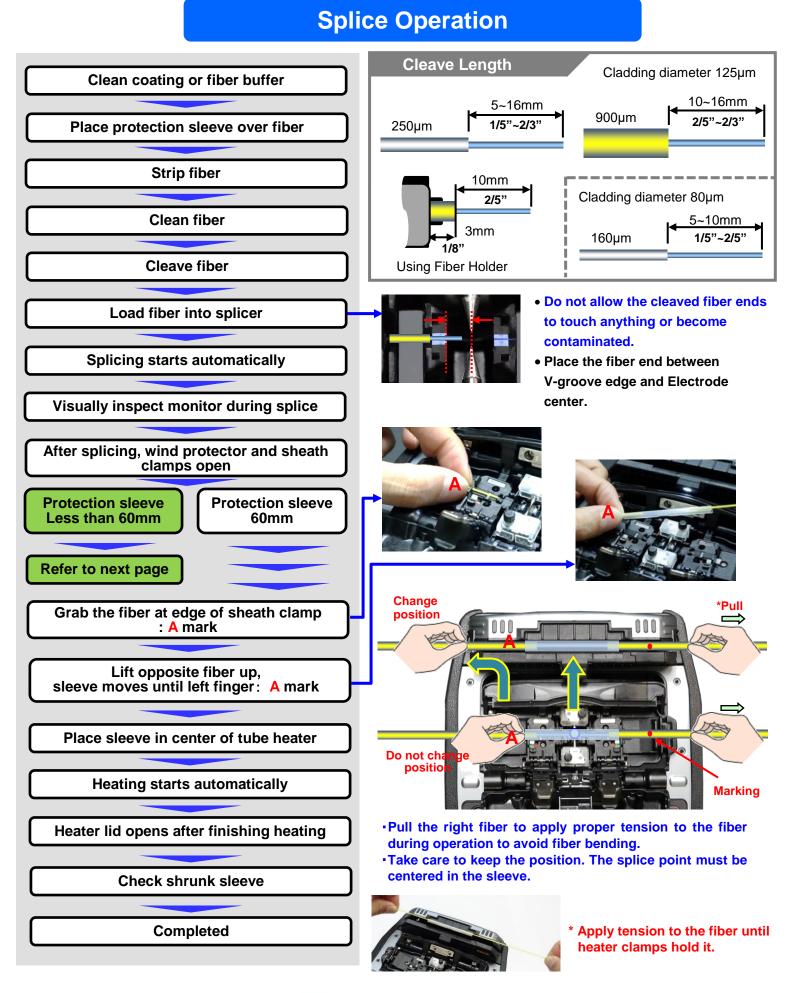
Heater Mode:

- 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.

Wireless communication with accessories:

- Splicr can connect to the CT50 cleaver and RS02/03 ribbon stripper.
- When wireless comunication is established, the splicer monitors the conditon of these tools. If the splicer sees that the tool has an issue, it alerts the operator with an on-screen alarm.
- After initial pairing, the devices are always paired. Communication between splicer, cleaver and stripper resumes automatically even after power cycling.
- Refer to the setting guide "SG-02" or instruction manual for wireless communication function details.

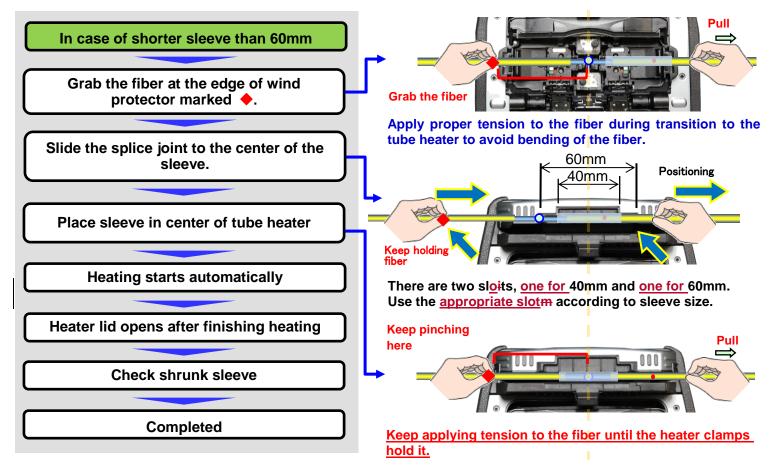






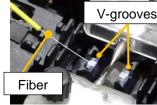
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Cleaning before Splice Operation









V-groove clamps

<u>Tools</u>

Optical fiber cleaver

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

Single fiber stripper

- Clean stripping blade
- Clean the bottom of the V-grooves with a thin lint-free cotton swab moistened with alcohol.
- Remove excess alcohol from V-grooves with a clean dry swab.
- Dislodge debris in the V-groove by using the cleaved fiber end face if there is a remaining deposit in the bottom of the V-groove.

Electrode Replacement

Cleaning Cautions

- When the "Replace electrodes" message appears, or when the tip is damaged, replace electrodes.
- If the electrodes appear heavily worn, it is recommended to replace the electrodes even if the alarm message hasn't appeared.
- Execute [Replace Electrodes] in Maintenance Menu.

Objective Lens



- •When the lens is dirty, clean it with a thin cotton swab moistened with alcohol.
- Remove the electrodes when cleaning the lens.
- Take care not to damage the lens surface by using a rigid or hard object when cleaning.

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.



Solutions for Common Splicer Errors

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 placement 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	 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 fibers with unresolvable core positions using the SM or DS modes [Align] is set to "Core" when splicing fibers with unresolvable core positions when using other splice modes [Focus] is incorrectly set when using other splice modes. 	 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 fibers with unresolvable core positions (i.e. MM fiber). Set [Align] to "Clad" to splice these fibers (i.e. MM fiber). Set [Focus] to "Edge" to splice fibers with unresolvable core positions (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 cleave length (bare fiber part) is too short. Splicing loose buffer tube fiber without protrusion engaged 	 Press <u>RESET</u>, re-position the fiber again with the end-face closer to the electrodes. Confirm the placement of the stripped fiber end on the fiber cleaver. Check the cleave length. Flip the protrusion switch so it engages the loose buffer tube fiber.
Large Cleave Angle	 Bad fiber end-face [Cleave Limit] was changed to a low cleave angle. 	 Check the condition of the fiber cleaver. If the blade is worn, rotate the blade to a new position. Load the default cleave angle value from the splice mode database.
Cleave Shape NG	Bad fiber end-face	Clean and check the condition of the fiber cleaver. If the blade is worn, rotate the blade to a new position.
High Estimated Loss	 Dust or dirt is on the fiber surface Bad fiber end-face Improper splice mode selected Unstable arc discharge 	 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. Select proper splice mode 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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