QRG-03

Tools for Splicing Operation





Mass Fusion Splicer

Fiber Holder



Stripper

Ribbon Fiber Optical Fiber



Cleaver

Protection sleeve

Consumables for cleaning

- CottonCotton swab
- Alcohol

Setup & Preparation Before Splicing





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

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-03" or instruction manual for wireless communication function details.



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Splice Operation





Cleaning before Splice Operation

V-groove Clamps **V-grooves**



- Clean the clamp chips and bottom of the V-grooves with a thin lint-free cotton swab moistened with alcohol.
- Remove excess alcohol with a clean dry swab.
- Dislodge debris in the V-groove by using Brush [VCB-01] and/or the cleaved fiber end face if there is a remaining deposit in the bottom of the V-groove.-

Electrode Replacement

- 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.



•When the lens is dirty, clean it with a thin cotton swab moistened with alcohol. Remove the electrodes or V

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- groove inserts when cleaning the lenses.
- Take care not to damage the lens surface by using a rigid or hard object when cleaning.

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.

Replacing V-grooves

Using properly cleaned or new V-grooves simplifies fiber viewing and handling when loading ribbons into the splicer. After extended use or improper splicer care, excessive glass particles and debris will accumulate on the V-grooves, making them impossible to clean. This splicer has replaceable V-grooves to solve this problem. Instead of returning for maintenance, users can resume splicing within minutes by replacing the V-grooves.

<How to replace>



Remove two screws.



There is a slot on the heater side inside of the wind protector.



First, pull the V-grooves insert straight up



Install V-grooves in splicer such that side "A" is inserted in the slot.



Second, rock the V-grooves towards you.



Lower V-grooves straight down.



Note: V-grooves orientation. use side "A" as reference.



Tighten the screws to secure. Proper torque is 20cNm.



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 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	 Dust or dirt is on the fiber surface Dust or dirt is on the objective lens. [Cleaning Arc] time is too short or "OFF." 	 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	 The bare fiber is too far back and does not reach the electrodes. The cleave length (bare fiber) is too short. 	 Press <u>RESET</u>, 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	 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. If dirty, clean clamp pads, anvil, or blade. Load the default 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. If dirty, clean clamp pads, anvil, or blade.
High Estimated Loss	 Dust or dirt is on the fiber surface Bad fiber end-face 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. 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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