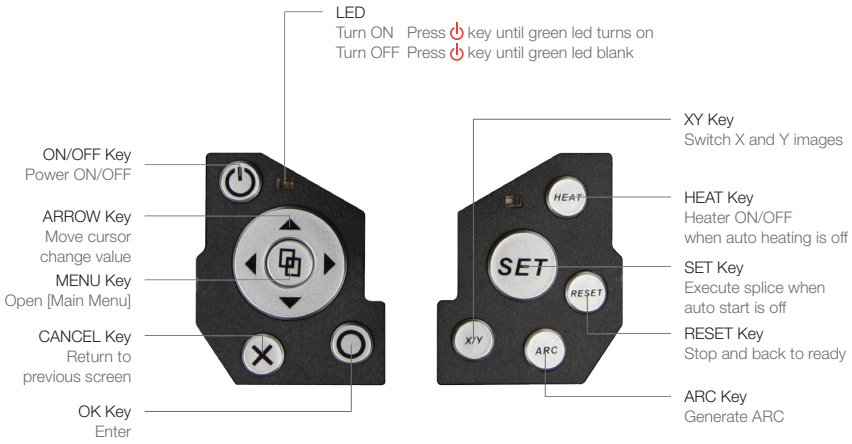
IFS-15H ARC Fusion Splicer

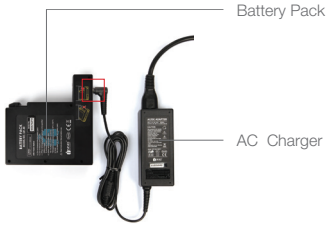
Quick Reference Guide

Ver.1.0

How to use keypad



Battery pack



How to recharge battery

How to check remaining capacity on “READY” screen

Battery checking button

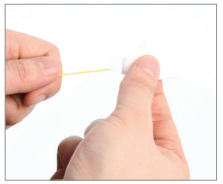
- Connect battery pack (LBT-40) with AC charger, power cable.
- Do not stack battery pack on top of charger while recharging.
- Recharging temperature: 0~40°C (32~104°F).

⚠ CAUTION

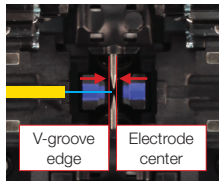
Confirm power saving function is working when using battery pack.

Splicing operation

Insert fiber into the protection sleeve

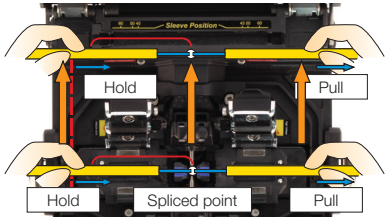


Cleaning fiber



- Make sure the stripped fiber is free of coating debris or dust.
- Use only 99% or better purity alcohol.
- Clean by clean wipes (dustproof)

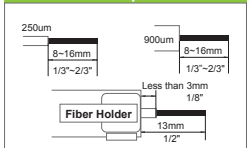
- Keep the cleaved fiber ends face in clean condition.
- Place the fiber end between V-groove edge and Electrode center.



- Hold the fiber at edge of splicer body
- Gently pull the fiber

- Turning splicer on
- Select splice mode
  - When splicing only standard SM fibers (ITU-T G.652),”SM AUTO” mode is recommended.
  - When splicing different types of fibers, “AUTO” mode is rcommended, but splice speed is slower.
  - Splicing speed of “SM FAST” mode is faster, but periodically Arc calibration is required.
- Check splicing and heater modes
- Cleaning fibers
- Place the sleeve on the fiber
- Stripping fiber
- Cleaning fiber
- Cleaving fiber
- Install fiber onto splicer
- Start splicing by closing wind proof cover
- Visual inspection on LCD during splice
- Remove the spliced fiber
- Centering protection sleeve on spliced fiber
- Put the sleeved fiber into heater
- Start heating by closing heater cover
- Completed

Description



⚠ CAUTION

When ARC discharge is not stable. Electrodes should be stabilized and calibrated to reform the arc discharge. Install prepared SM fibers onto splicer to operate stabilize electrodes and arc calibration. After installation SM fibers, splice fibers again.

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Maintenance menu

Maintenance

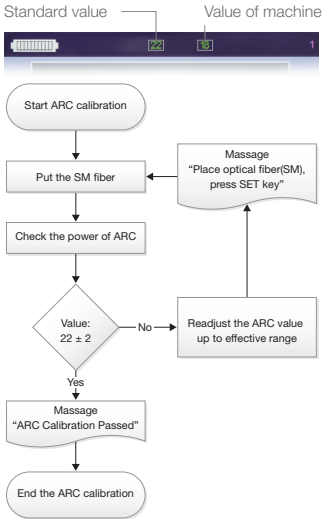
Prepare SM fiber and go to “Main Menu”

Execute [1.Quick Optimize]

Execute [9. Arc Calibration]

Execute [4. Stabilize Electrodes]

ARC Calibration



Important: 1) Always use SM fiber only 2) To keep in best splice condition, following the procedure.

Diagnostic test

In case of trouble, proceed this procedure.

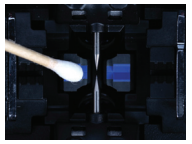
Operation procedure :

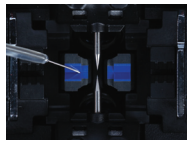
- Select [Diagnostic Test] in [Maintenance Menu] and execute [Diagnostic Test].
  - LED Check
    Measure and adjust the brightness of the illumination LED.
  - Dust Check
    Check the optical path for dust or dirt and judges whether they disturb fiber observation.
    If contamination exists, this function indicates the location.
  - Motor Calibration
    Automatically calibrate press motor movement.
  - Arc Calibration
    Automatically calibrate the arc power value.
- Upon completion of all checks and adjustments, a list of results is displayed. If the dust check result is not good, clean the objective lenses. If the cleaning cannot eliminate contamination, there is a possibility that the contamination may be in the inside of the optical path. Please contact your sales agency for additional instructions. The dust check and motor calibration functions exist as independent instructions in [Maintenance Menu]. It is possible to execute them independently.

Note : Before you start test, remove the fibers from the splicer. When the above item No. 2 (dust check) is completed, prepare and load the fibers onto the splicer and press “SET”

Cleaning before splicing

V-grooves

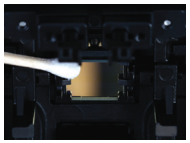




Objective lens

Fiber clamp chips

Wind proof cover mirrors



When lens is dirty, clean it.

⚠ CAUTION
During cleaning,
- Do not contact the electrode tips.
- Use only 99% or better purity alcohol.
- Clean by clean wipes (dustproof)

Periodical maintenance

Objective lens

If lens is dirty, clean it periodically, with alcohol moistened thin cotton swab. Otherwise, the lens can make trouble.

Electrodes

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

- Execute [Replace Electrodes]
- Press “SET”. than automatically turns off
- Loosen screws
- Take out electrodes
- Put new electrodes
- Reassemble the electrode cover
- Tighten screws
- Turn splicer on
- Install prepared fibers
- Execute [Stabilize Electrodes]
- Execute [Arc Calibration]

Battery pack

- Discharge battery pack completely every 3 months before recharging.
- When storing battery pack in long term;
  - Storing temperature should be -20~30˚C (-4~86˚F)
  - Recharge battery pack every 6 months, not to be empty.