### Splicing Operation

<table>
<thead>
<tr>
<th>Turning splicer ON</th>
</tr>
</thead>
<tbody>
<tr>
<td>Confirming splice, heater and operation modes</td>
</tr>
<tr>
<td>Cleaning coating or sheath of fiber</td>
</tr>
<tr>
<td>Placing protection sleeve over fiber</td>
</tr>
<tr>
<td>Stripping fiber</td>
</tr>
<tr>
<td>Cleaning fiber</td>
</tr>
<tr>
<td>Cleaving fiber</td>
</tr>
<tr>
<td>Loading fiber onto splicer</td>
</tr>
<tr>
<td>Splicing start automatically</td>
</tr>
<tr>
<td>Visual inspection on LCD during splice</td>
</tr>
<tr>
<td>Removing spliced fiber</td>
</tr>
<tr>
<td>Centering protection sleeve in tube heater</td>
</tr>
<tr>
<td>Centering spliced point in tube heater</td>
</tr>
<tr>
<td>Heating start automatically</td>
</tr>
<tr>
<td>Completed</td>
</tr>
</tbody>
</table>

- 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.

- Hold lid firmly
- Free of any gel residue
- Make sure the stripped fiber is free of coating debris or contamination.
- Use only 95% or better purity alcohol.

- Hold this point firmly

**Placing Fiber Holder**

- Do not reverse Fiber Holder when placing onto splicer.
- Set in the direction which sees from the sheet key side and can read the name of a holder.

**Note**

*Hold the fiber at edge of splicer body
**Apply tension to the fiber until heater cover closes completely.

- 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.
How to use Keypad

- **ON/OFF Key**: Power ON/OFF
- **ARC Key**: Arc
  - Operation of a Wind Protector
- **X/Y Key**: Switch X/Y images
- **HEAT Key**: Heat Cancel
  - Operation of a lid
- **RESET Key**: Stop and back to Ready
- **SET Key**: Execute Splice

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

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

Power Supply

### AC Adapter
- **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
- 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
- Confirm power saving function is working when using battery
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.

Fiber Clamp Chips

Fiber Cleaver
- Clean rubber pads.
- Clean rubber anvil.
- Clean blade.

Objective Lens
- When lens is dirty, clean it.

Caution of cleaning
- Do not contact the electrode tips.
- Use only 99% or better purity of alcohol.

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).

Replace Electrodes

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- Execute [Replace Electrodes] in Maintenance Menu.
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Remove the electrode cover Loosen screws 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.
<table>
<thead>
<tr>
<th>Error Message</th>
<th>Reason</th>
<th>Solution</th>
</tr>
</thead>
</table>
| 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 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 | • 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.  
• Set the [Cleaning Arc] time to “150ms.” When splicing carbon coated fibers, set to “200ms.” |
| ZL/ZR Motor Overrun | • 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. | • 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 | • 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.  
• Increase the [Cleave Limit] to an adequate limit. |
| Cleave Shape NG | • Bad fiber end-face. | • Check the condition of the fiber cleaver. If the blade is worn, rotate the blade to a new position. |

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