

## OPERATING INSTRUCTIONS



**Manufacturer:**

AFL

**Product Name:**

AFL RT-02 Ribbonizing Tool for 200µm and 250µm Fibers

**Manufacturer Part Number:**

S017465

▶ [Click here for more details on the AFL RT-02 Ribbonizing Tool for 200µm and 250µm Fibers](#)

# Ribbonizing Loose 200 µm Coated Fibers



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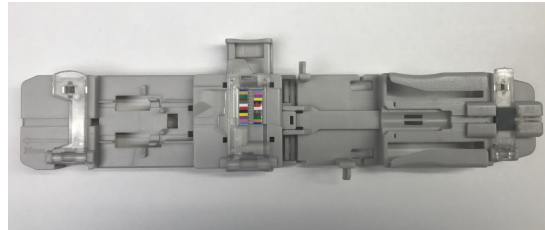
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## Items Needed

- FH-70-12PC
  - Pitch conversion fiber holder
- RT-02 Ribbonizing Tool
  - Also applicable to 250 µm coated fibers

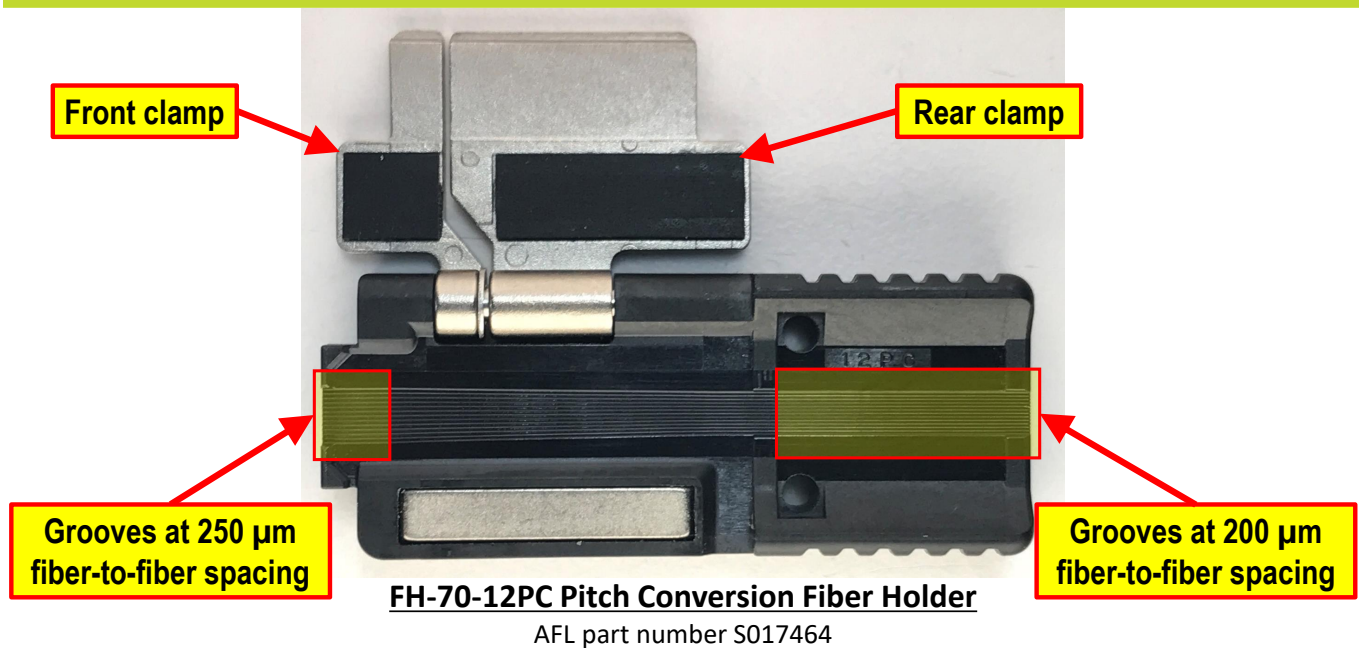


**FH-70-12PC Pitch Conversion Fiber Holder**  
(AFL part number S017464)



**RT-02 Ribbonizing Tool**  
(AFL part number S017465)

## FH-70-12PC Pitch Conversion Fiber Holder Features



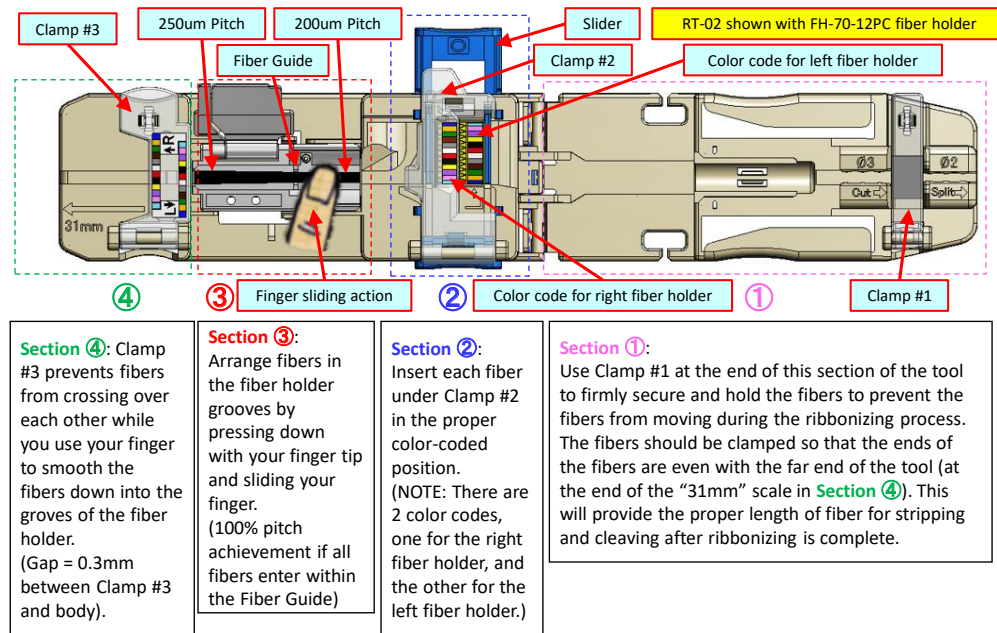
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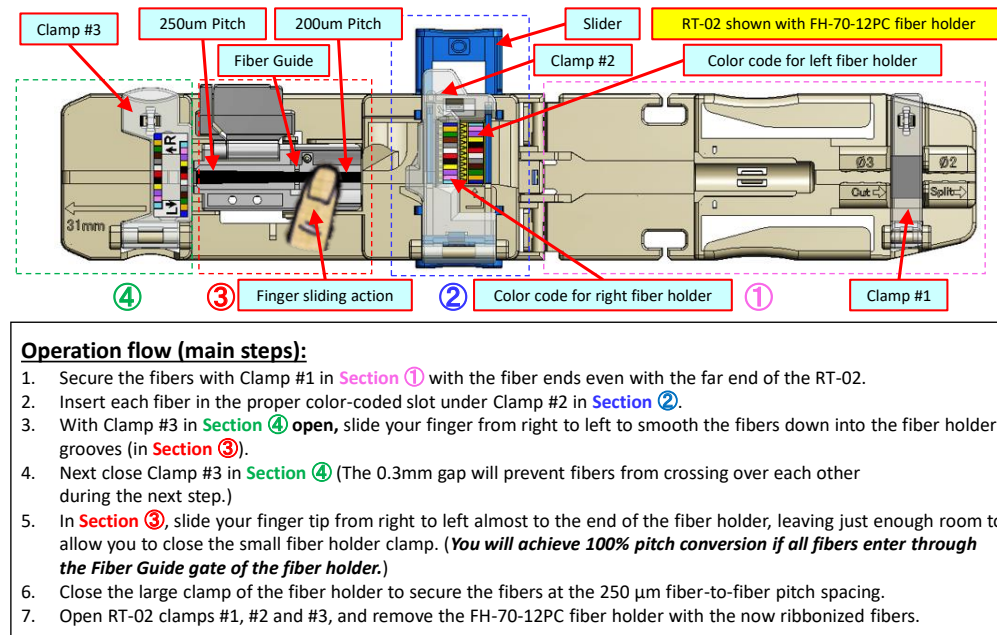
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## RT-02 Structure and Features



## Operation Summary



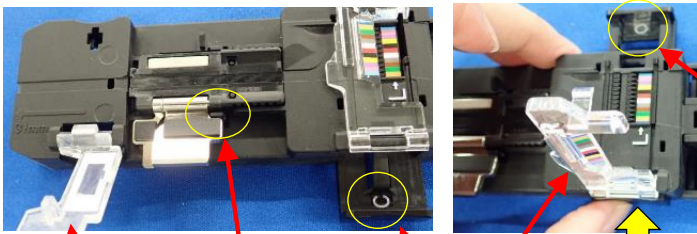
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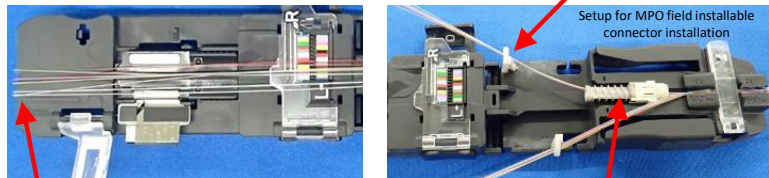
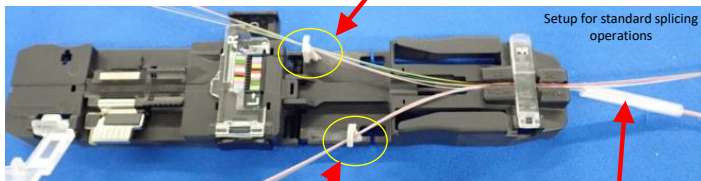
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## Step 1: *Setup RT-02 to Prepare for Ribbonizing*

Step No.	Job content	Process specification
1	Initial Tool & Fiber Holder setting	 <p>① Open Clamp #3</p> <p>② Set the FH-70-12PC fiber holder in place and lock the fiber holder clamp open.</p> <p>③ Open Clamp #2 <b>BEFORE</b> pushing the Slider to the rear. <b>NOTE: If Clamp #2 is closed, the Slider cannot be pushed to the rear.</b></p> <p>④ Push the Slider completely to the <b>REAR</b> to the "O" (open) position, as shown. This is the Slider starting position.</p> <p>⑤ You will see the "O" (open) mark.</p> <p>"C" Closed</p>

## Step 2: *Initial Fiber Loading*

Step No.	Job content	Process specification
2	Initial fiber setting into the RT-02  <b>NOTE:</b> In this example, each cable unit tube contains 24 fibers. In such a case, the operator must first sort and separate the striped fibers #13 through #24 from the non-striped fibers #1 through #12.	 <p>Group of 12 fibers being ribbonized</p> <p>Setup for MPO field installable connector installation</p> <p>Fiber ends should be even with the end of the RT-02 as shown (~30mm from the end of FH-70-12PC fiber holder) to provide the proper fiber length for stripping</p> <p>Connector housing part &amp; Sleeve (in the case of Fuse MPO connector with cable)</p>  <p>Group of 12 fibers being ribbonized</p> <p>Setup for standard splicing operations</p> <p>Next 12 fibers to be ribbonized (Fibers 13 through 24)</p> <p>Sleeve (in the case of general splicing)</p>

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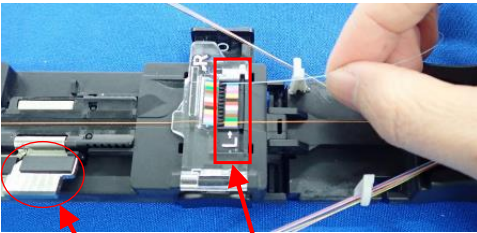
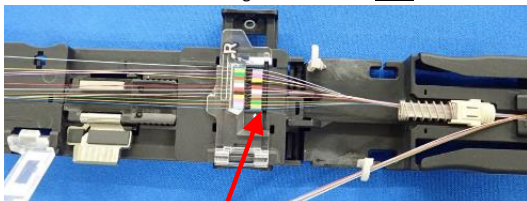
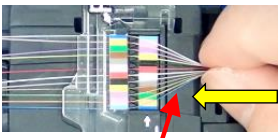
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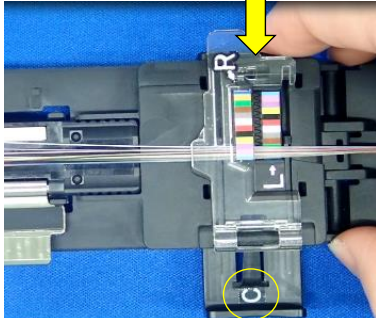
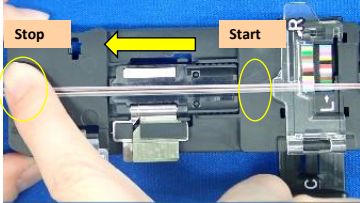
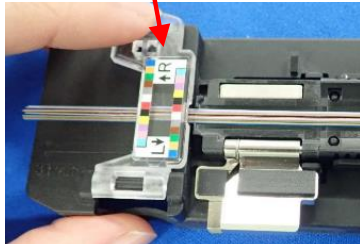
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## Step 3: Inserting Fibers Through Organizer

Step No.	Job content	Process specification
3	Fiber insertion	 <p>① Randomly pick up fibers one by one &amp; insert into the proper color slot.</p> <p><b>*Note 1:</b> Color template "L" or "R" is selected corresponding to the <b>LEFT</b> side or the <b>RIGHT</b> side fiber holder. This will ensure that the Blue #1 fiber will always be closest to the hinge side of the fiber holder clamp, which is industry standard for ribbon splicing.</p> <p>Fiber holder clamp ("locked" open)</p> <p>Use "L" ⇒ color template because fibers are being loaded into the <b>LEFT</b> fiber holder</p>  <p>② Insert all 12 fibers in proper color code position</p>  <p>③ Gather the 12 fiber &amp; push as shown to remove any excess slack so the fibers will all be the same length</p>

## Step 4: Gathering Fibers Together

Step No.	Job content	Process specification
4	Fiber gathering and straightening	<p>① Push the Slider completely towards the <b>FRONT</b> (as shown) to gather the fibers together and align them with the fiber holder.</p>  <p>② You will see the "C" (Close) mark.</p> <p><b>* Note 2:</b> Don't push the Slider back to the rear after the fibers are gathered or fibers may be broken.</p> <p>③ Slide your finger to the left to straighten the fibers across the fiber holder.</p>  <p>④ Close Clamp #3 to prevent fibers from crossing over each other during the next step.</p> 

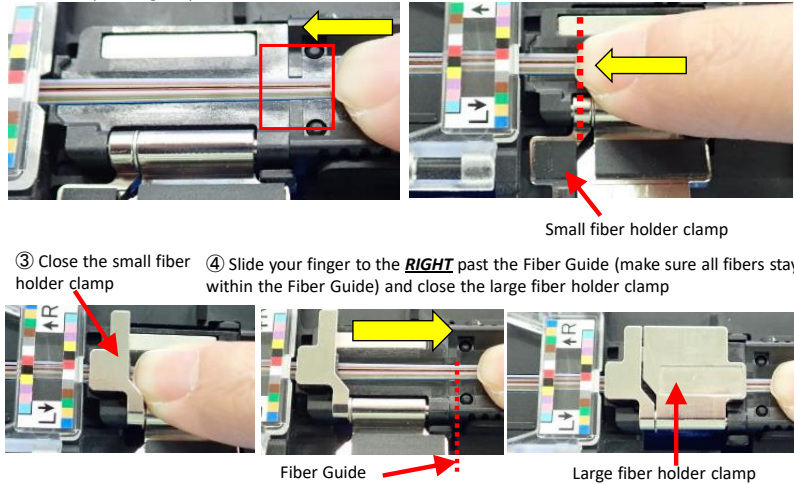
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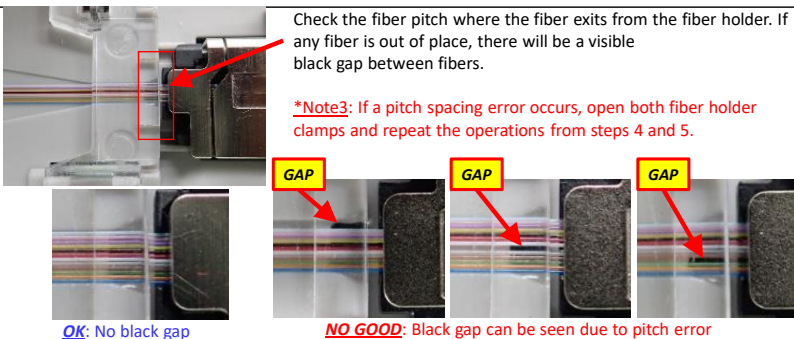
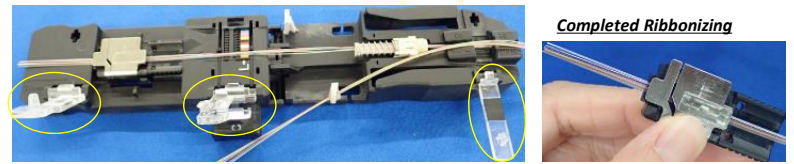
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## Step 5: Converting Fiber Pitch Spacing to 250 µm

Step No.	Job content	Process specification
5	Fiber pitch arrangement	<p>① Slide your finger to the <b>LEFT</b> while pressing the fibers down to ensure all fibers pass within the Fiber Guide of the fiber holder. Continue to hold the fibers down with your finger tip.</p> <p>② Continue sliding your finger to the <b>LEFT</b> but stop in the position shown by the dotted line so the small fiber holder clamp can be closed.</p> <p>③ Close the small fiber holder clamp</p> <p>④ Slide your finger to the <b>RIGHT</b> past the Fiber Guide (make sure all fibers stay within the Fiber Guide) and close the large fiber holder clamp</p>  <p>Small fiber holder clamp</p> <p>Fiber Guide</p> <p>Large fiber holder clamp</p>

## Steps 6 & 7: Confirming Pitch Spacing & Removing Fibers

Step No.	Job content	Process specification
6	Fiber Pitch Confirmation	<p>Check the fiber pitch where the fiber exits from the fiber holder. If any fiber is out of place, there will be a visible black gap between fibers.</p> <p><b>*Note3:</b> If a pitch spacing error occurs, open both fiber holder clamps and repeat the operations from steps 4 and 5.</p>  <p><b>OK:</b> No black gap</p> <p><b>NO GOOD:</b> Black gap can be seen due to pitch error</p>
7	Release Fiber Holder	<p>Open all three clamps of the RT-02 and remove the fiber holder with the now ribbonized fibers</p>  <p><b>Completed Ribbonizing</b></p>

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