



Instruction Manual

Installation Guide #	IG-RBSW-PC-2025 Pitch Converter
Date of Enactment	2024-01-02
No. of Revision	02K
Page	1/8

RBSW-PC-2025 Pitch Converter Operational Guide

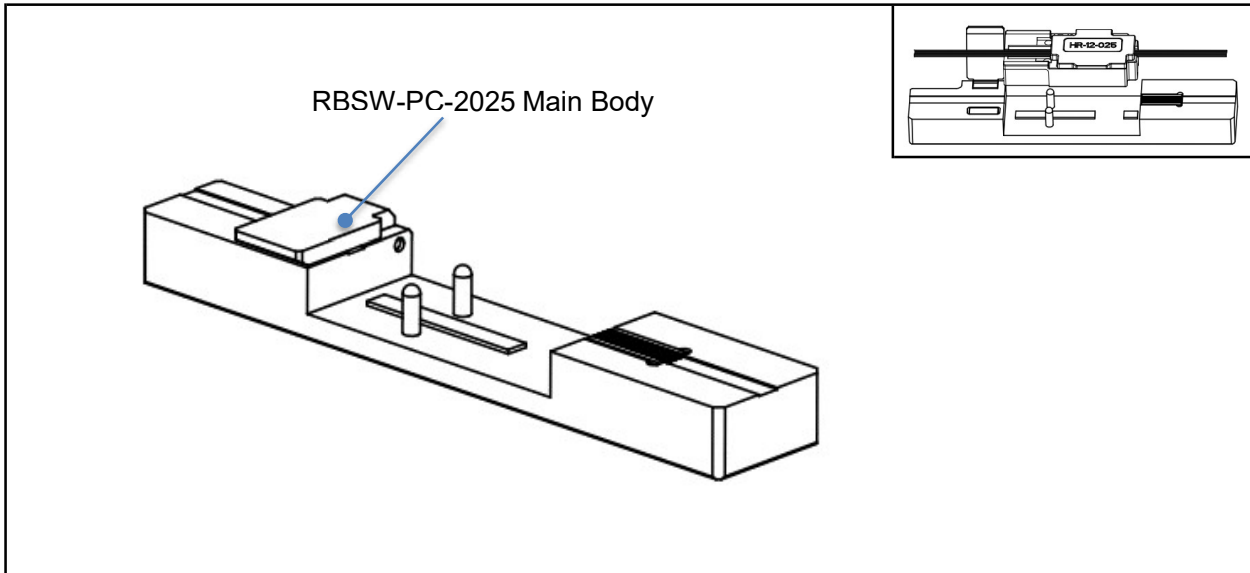
Contents

1. General
2. RBSW-PC-2025 Pitch Converter Configuration
3. Installation Tools
4. KR12A(Fusion Splicer) Setting
5. Procedure

1. General

This user manual provides procedures for splicing 200um ribbon fiber to 250um ribbon fiber using the RBSW-PC-2025 pitch converter and KR12A splicer. This manual will help you gain a basic understanding of 200um to 250um pitch conversion and splicing.

2. RBSW-PC-2025 Pitch Converter Configuration



Installation Guide #	IG-RBSW-PC-2025 Pitch Converter
Date of Enactment	2024-01-02
No. of Revision	02K
Page	2/8

RBSW-PC-2025 Pitch Converter Operational Guide

3. Installation Tools

3.1 Tools for Cable Preparation

Fiber Separator (RFS-100)	Cleaning Wipes	Non-Slip Plier	Ruler	Marker

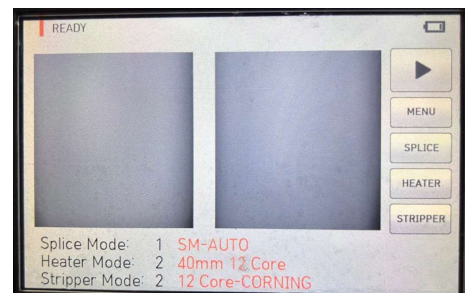
3.2 Tools for Fusion Splicing (Stripping & Cleaving & Heating)

KR12A	Holder Left (HR-12-025)	Holder Right (H7-12-10)	RBSW-PC-2025

4. KR12A Setting

Depending on the tool you will use and the type of fiber you are splicing, you will need to change your splice heater and stripper settings.

When working with 200um fiber using RBSW-PC-2025, please choose the appropriate settings as follows.



4.1 Splice Mode

- Single mode : Setting – 1. SM-AUTO

4.2 Heater Mode

- Setting – 2. 40mm 12 Core
- Detail - Heating Time : 40 seconds / Heat Temp. : 180 Degree

4.3 Stripper Mode

- Setting – 2. 12 Core-CORNING
- Detail - Stripping Time : 5 seconds / Stripping Temp. : 100 Degree

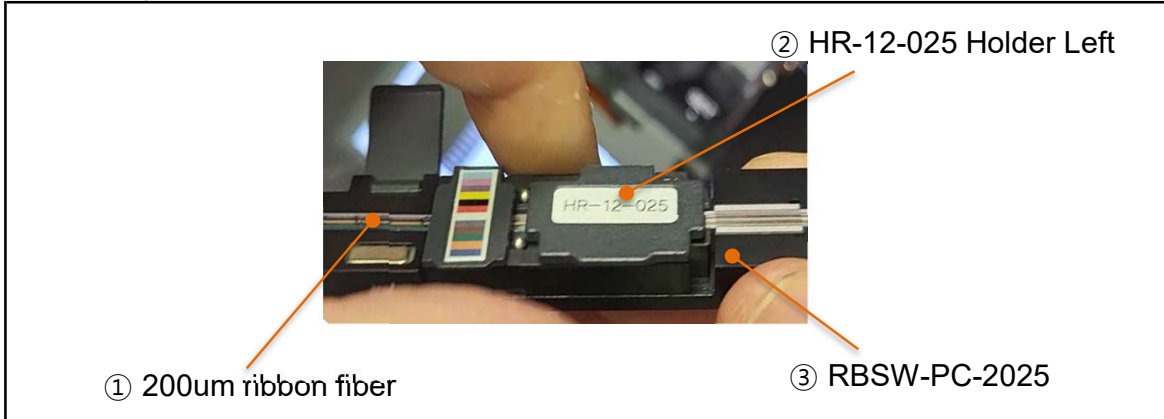
Installation Guide #	IG-RBSW-PC-2025 Pitch Converter
Date of Enactment	2024-01-02
No. of Revision	02K
Page	3/8

RBSW-PC-2025 Pitch Converter Operational Guide

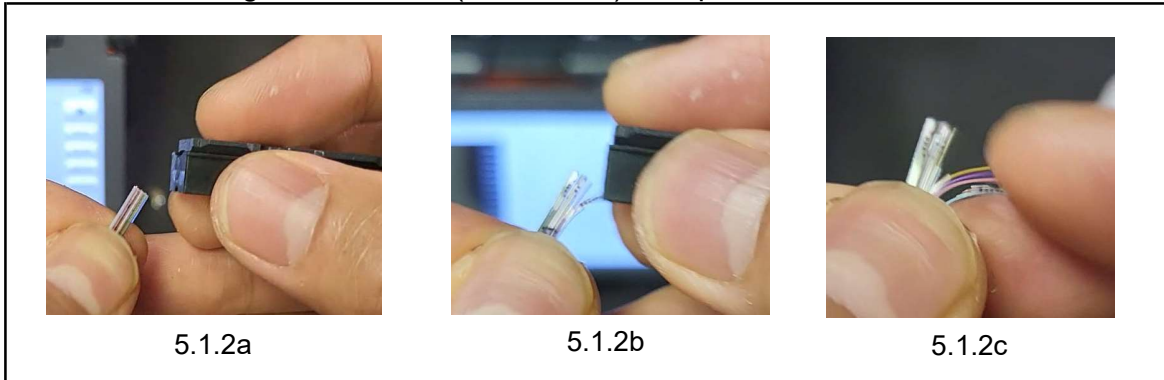
5. Procedure

5.1 Fiber Preparation (Aligning, Stripping and cleaving)

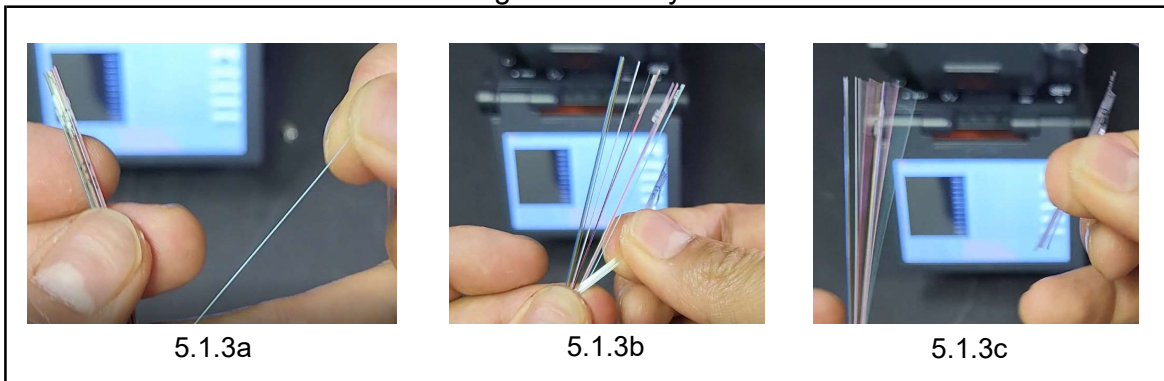
5.1.1 Prepare 200um ribbon fiber and Tools



5.1.2 Use the edge of the holder(HR-12-025) to separate the fibers from the sides.



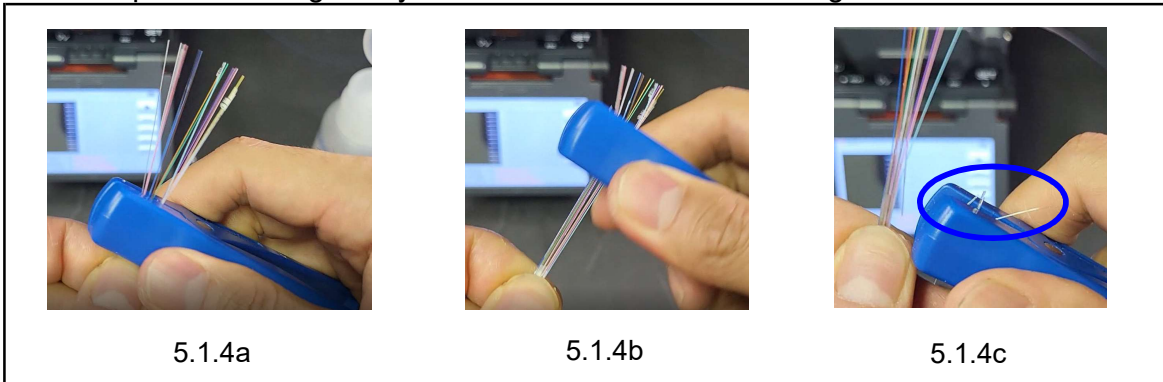
5.1.3 Use your fingers to separate each fiber one by one and remove the matrix coating if necessary.



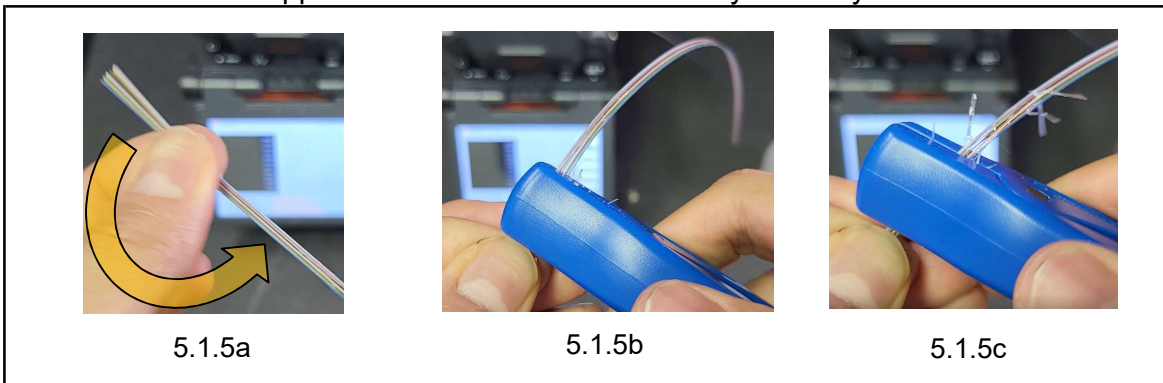
Installation Guide #	IG-RBSW-PC-2025 Pitch Converter
Date of Enactment	2024-01-02
No. of Revision	02K
Page	4/8

RBSW-PC-2025 Pitch Converter Operational Guide

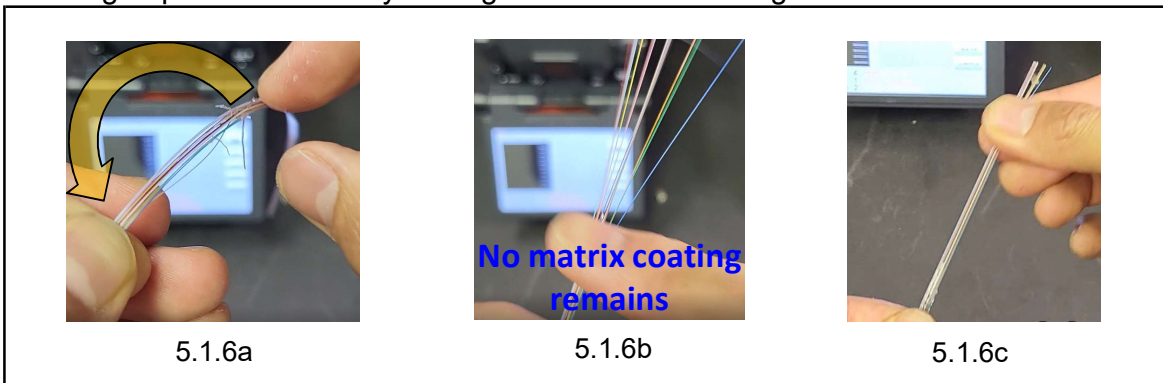
5.1.4 Use the RFS-100 to completely remove the debris of the matrix coating.
Repeat removing until you have no debris of the coating



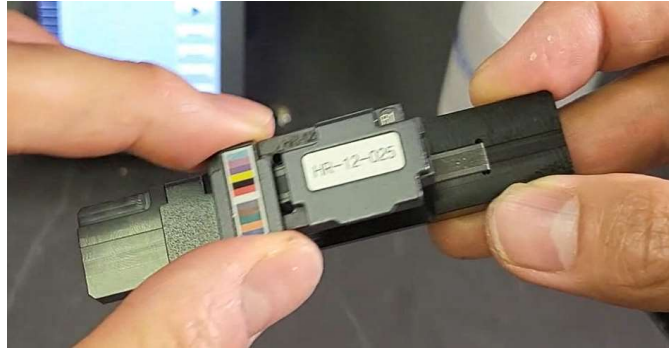
5.1.5 If there is a part that is difficult to remove, hold it in the oppsite direction and remove it very carefully.



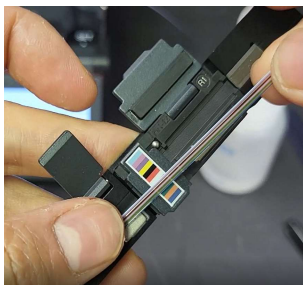
5.1.6 Once everything is removed, return it to its original position.
Tap the fibers to remove any remaining debris, grasp the fibers with your fingers and slide to straighten the fibers.



5.1.7 Place the holder(HR-12-025) to RBSW-PC-2025 main body.



5.1.8 Place the prepared 200um ribbon fibers into the holder and groove of RBSW-PC-2025 and close the middle cover.



5.1.8a



5.1.8b



5.1.8c

5.1.9 Carefully bend the optical fiber with your fingers and align it with the 250um groove while checking (pressing) with your thumb. Close the rest of covers and inspect your work.



5.1.9a



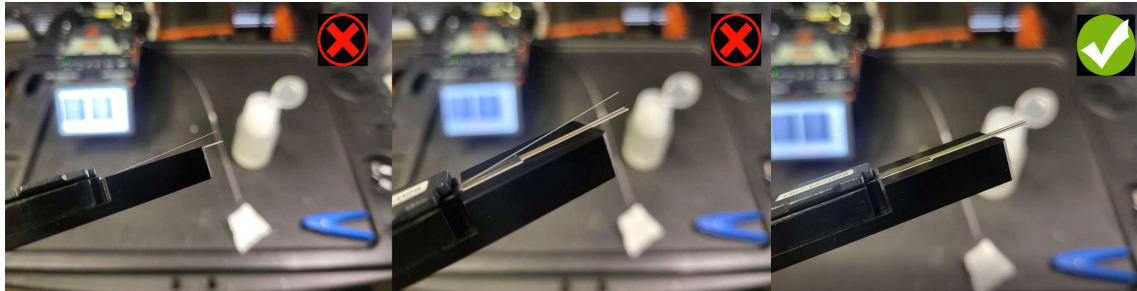
5.1.9b



5.1.9c

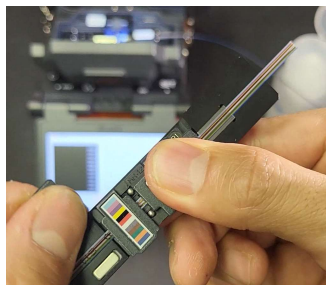
Installation Guide #	IG-RBSW-PC-2025 Pitch Converter
Date of Enactment	2024-01-02
No. of Revision	02K
Page	6/8

RBSW-PC-2025 Pitch Converter Operational Guide



[Tip]
If any of the fibers protrude upward after closing the cover, it means that the alignment is not done properly.

- 5.1.10 Open the lower cover.
 Remove the holder from the RBSW-PC-2025 main body.



5.1.10a

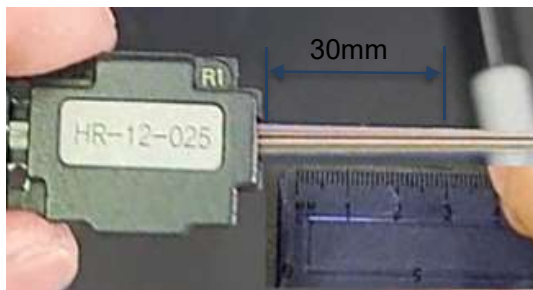


5.1.10b

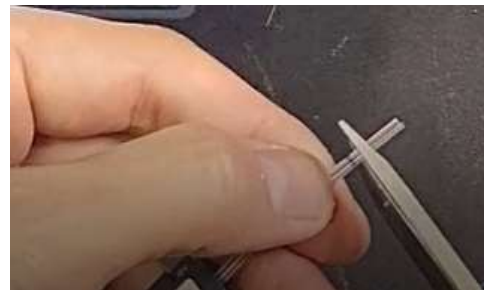


5.1.10c

- 5.1.11 Measure and mark 30mm from the end of ribbon fiber
 Cut the fiber at 30mm mark.



5.1.11a

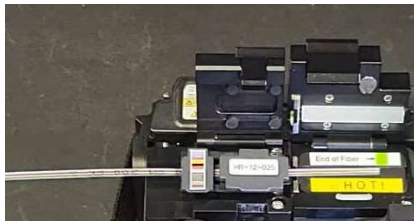


5.1.11b

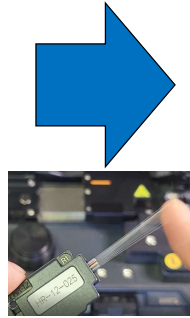
Installation Guide #	IG-RBSW-PC-2025 Pitch Converter
Date of Enactment	2024-01-02
No. of Revision	02K
Page	7/8

RBSW-PC-2025 Pitch Converter Operational Guide

5.1.12 Follow the manual of IG-FSOC-MPOSB30 or IG-FSOC-MPOSRB, fusion splicing process on KR12A. (Stripping to Cleaving Both Left & Right side)

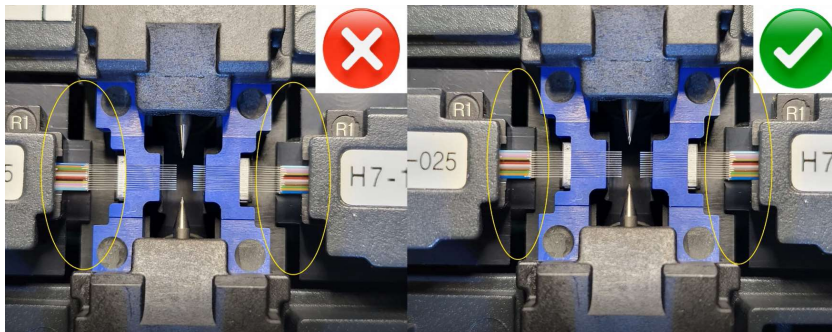


5.1.12a



5.1.12b

[Caution] Do not miss!
Dry and separate each fibers
by touching tips of fibers carefully.



[Tip]
When splicing prepared fibers, please check the color code from left to right

5.1.13 Close the windcover.

Make sure there are no alignment errors and touch the ► button to perform splicing. Check the Est Loss value after splicing.



5.1.13a



5.1.13b



5.1.13c

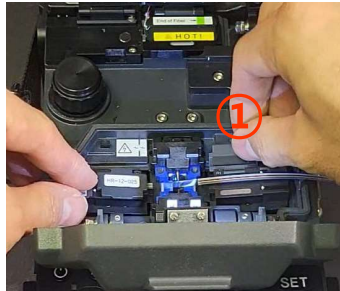
Installation Guide #	IG-RBSW-PC-2025 Pitch Converter
Date of Enactment	2024-01-02
No. of Revision	02K
Page	8/8

RBSW-PC-2025 Pitch Converter Operational Guide

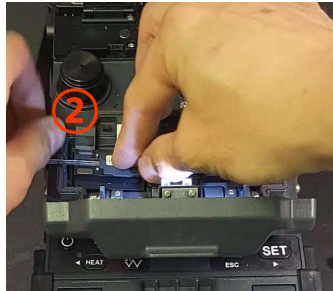
5.2 Complete splicing and removing fibers

5.2.1 Open the windcover. Please wait until the tensile test is completed.

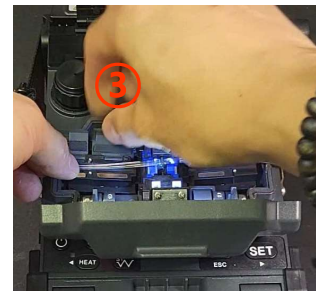
Open the holder covers in order. (Right → Left → Middle)



5.2.10a



5.2.10b



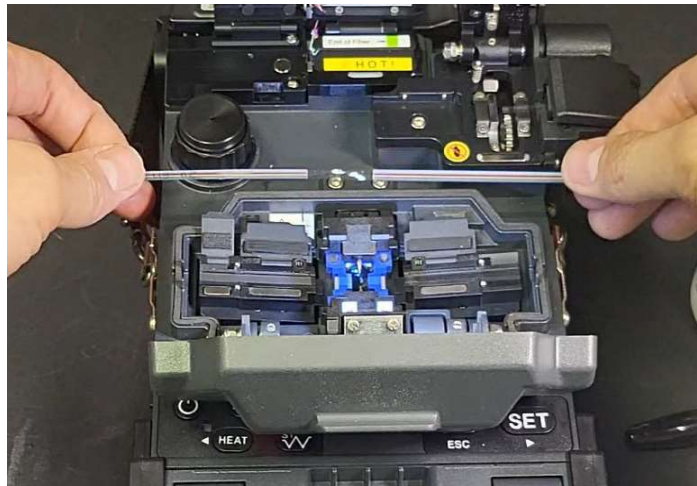
5.2.10c

[Tip]

Open the cover one by one.

Carefully hold and open in order to avoid damage to the fibers.

5.2.2 Use heat/shrink sleeve to protect the splice area.



-End of Document-