



---

# **Fujikura-70s-Manual-Alignment**

---

March 18, 2026



## **Objective**

In some cases, it is useful to create splices that behave as attenuators or terminations. For this, manual alignment is required in order to intentionally misalign one fiber end and produce a controlled imperfect splice.

This document shows how to configure the Fujikura 70S fusion splicer to operate in manual alignment mode, bypassing automatic algorithms.

## **Author**

**Darío Kunik**

March 17, 2026





## Procedure

### 1) Enter the menu

Go to the main menu of the device.



Figure 1 – Main menu access.

### 2) Select “Splice Mode”

Navigate to:

Splice Mode

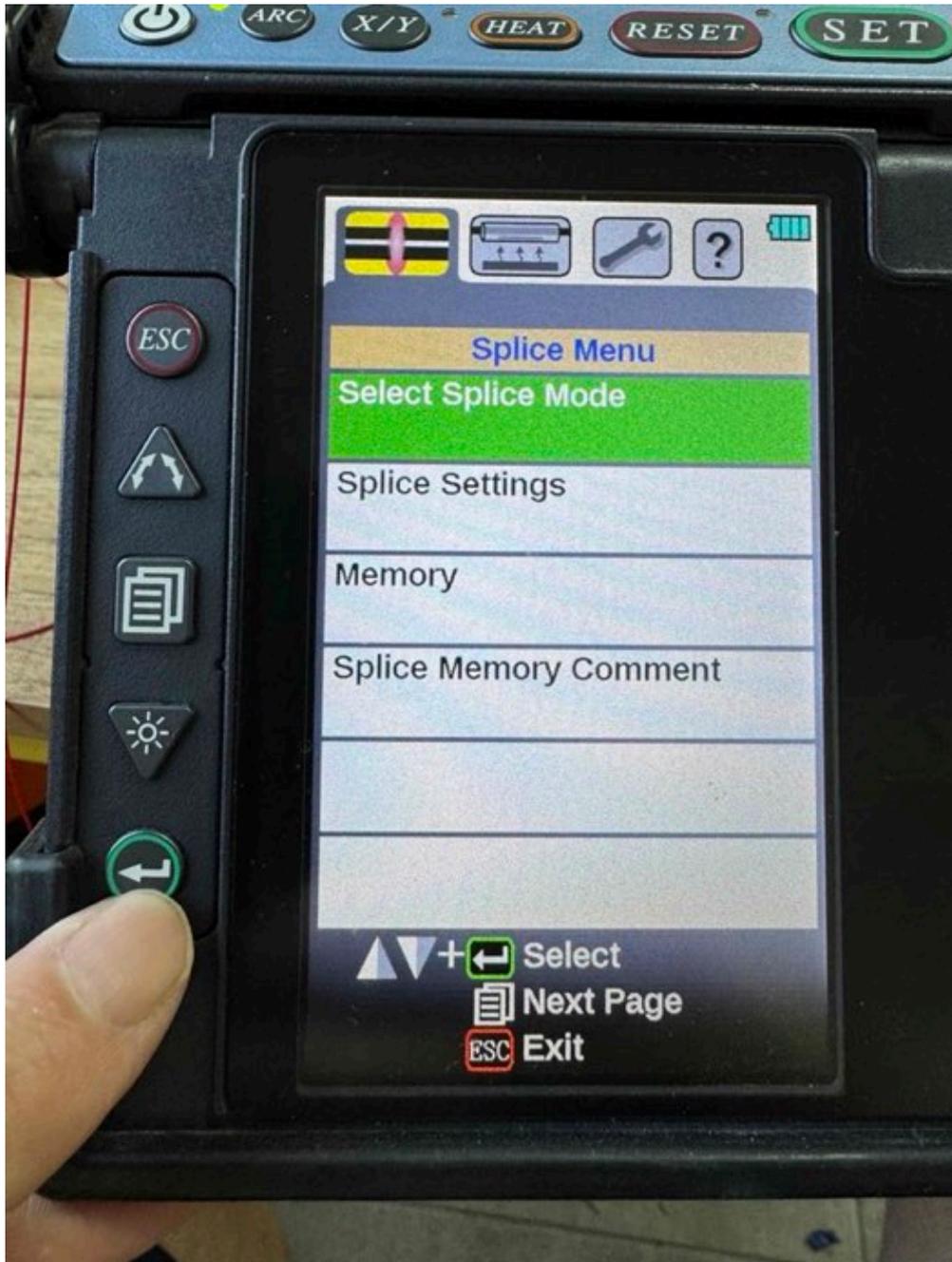


Figure 2 – Splice Mode.

**3) Choose a BLANK mode to create a new splice mode**

Find an available mode labeled:

BLANK

(You can modify an existing mode, but using an empty one is recommended.)

Press the menu button to edit.

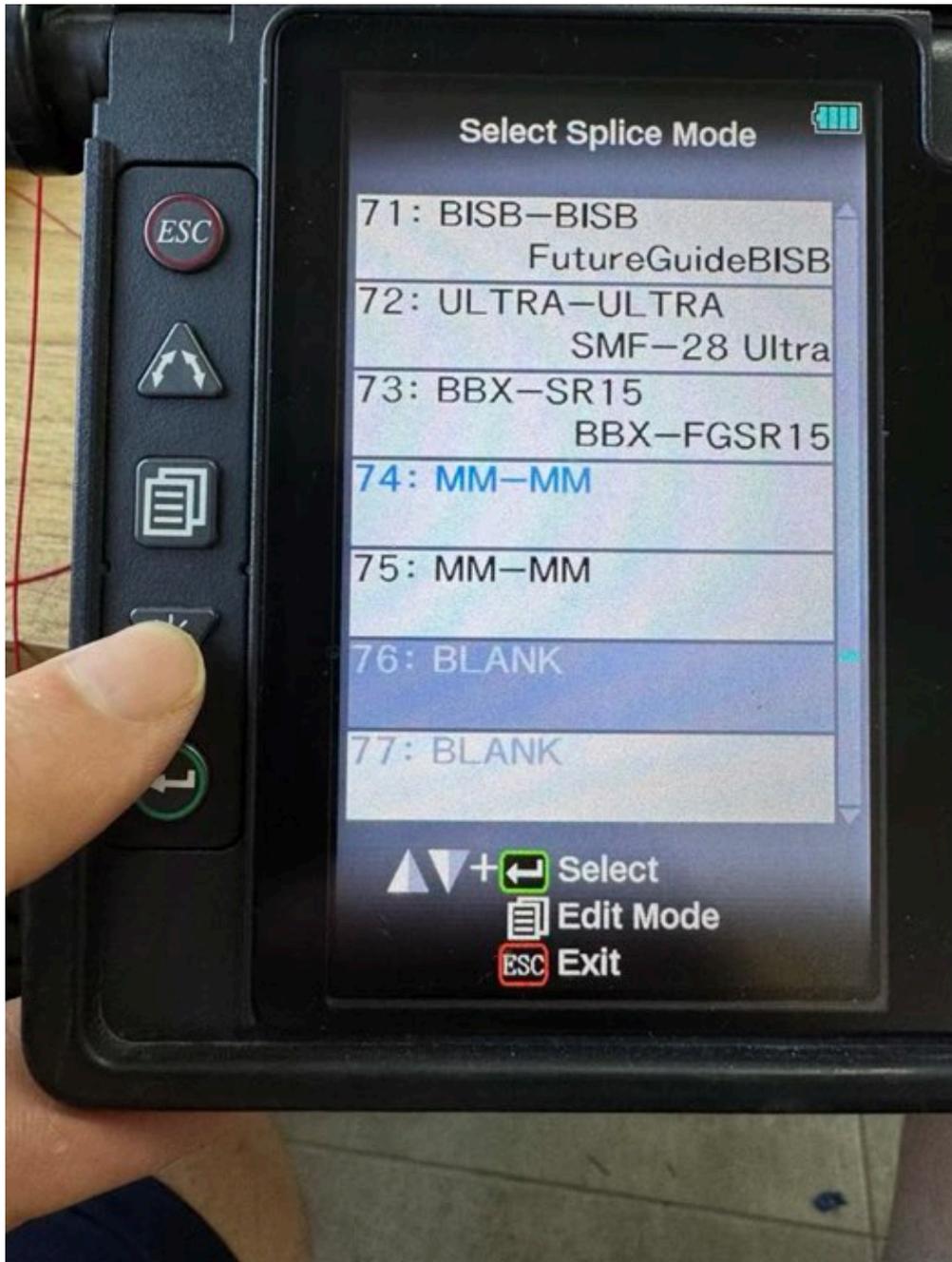


Figure 3 – Selecting a blank mode.

#### 4) Initialize the mode

The following message will appear:

"No splice or heater mode in this area. Input new mode."

Press:

SELECT



Figure 4 – Entering new mode configuration.

### 5) Configure fiber type

Select:

MM -- MM

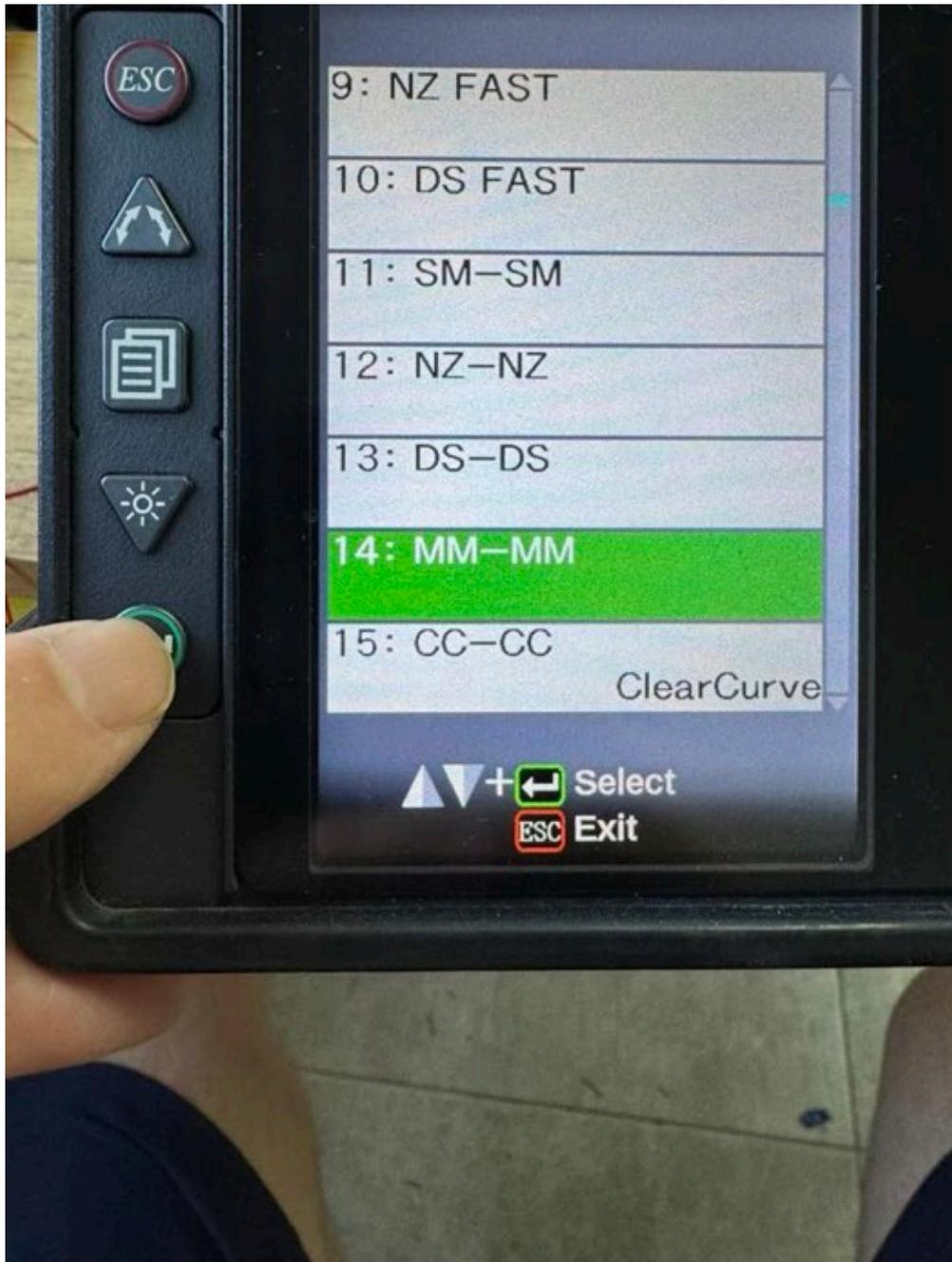


Figure 5 – Fiber type selection.  
Accept default values.

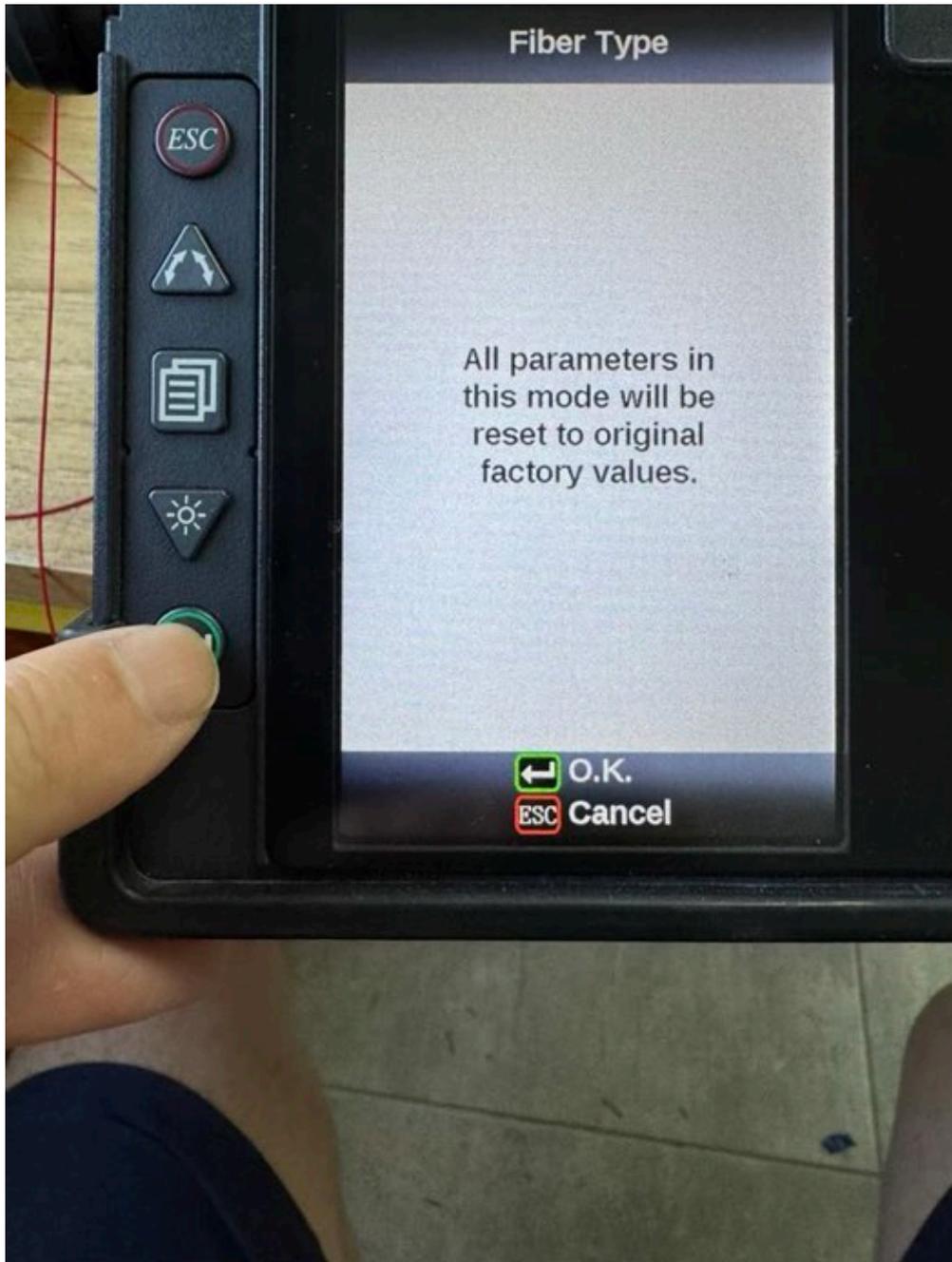


Figure 6 – Confirm default parameters.

### 6) Go to XY Alignment

Navigate to:

XY Alignment

Change:

Align: Clad → Manual



Figure 7 – Access alignment settings.

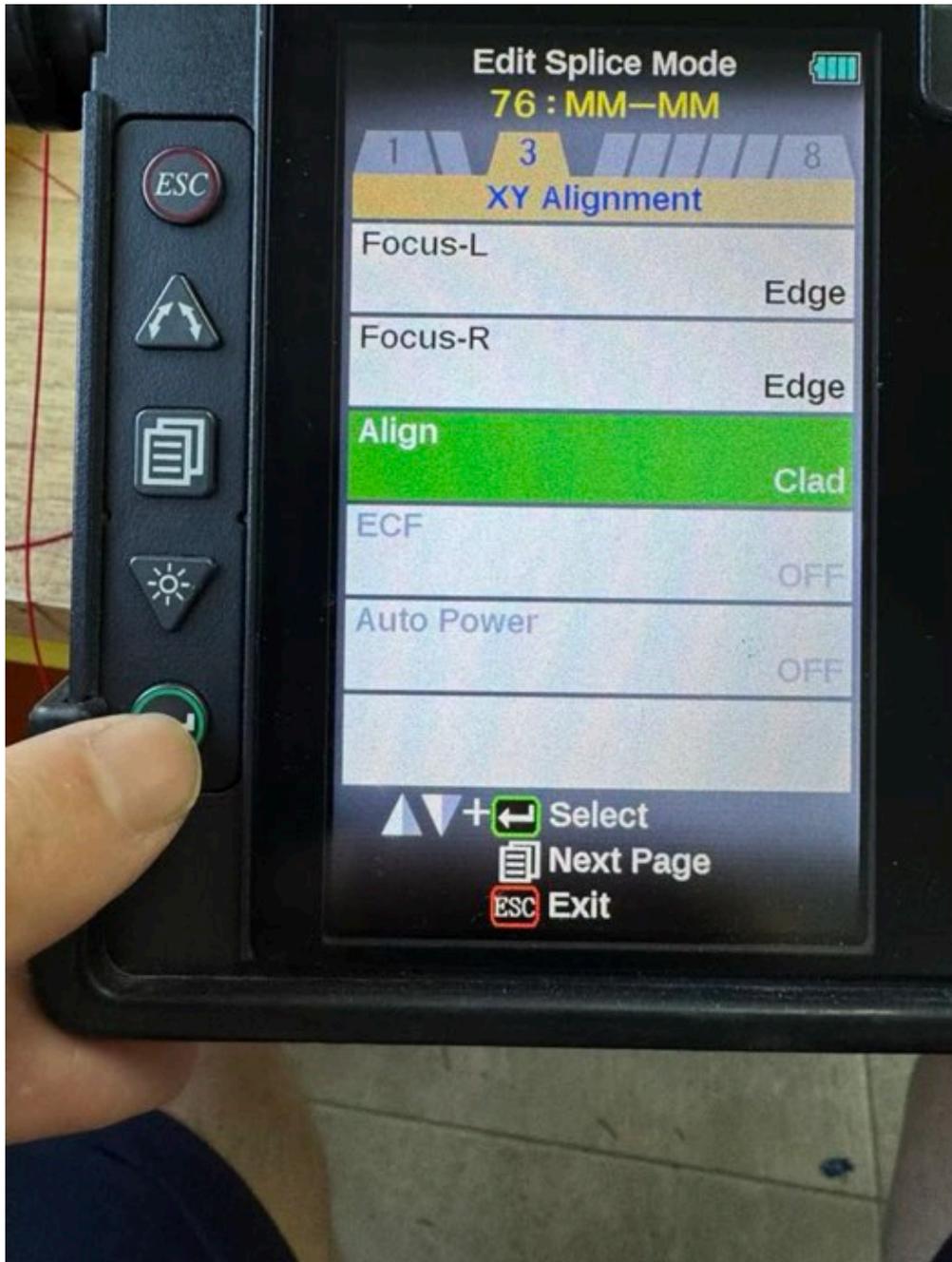


Figure 8 – Navigate to Align.

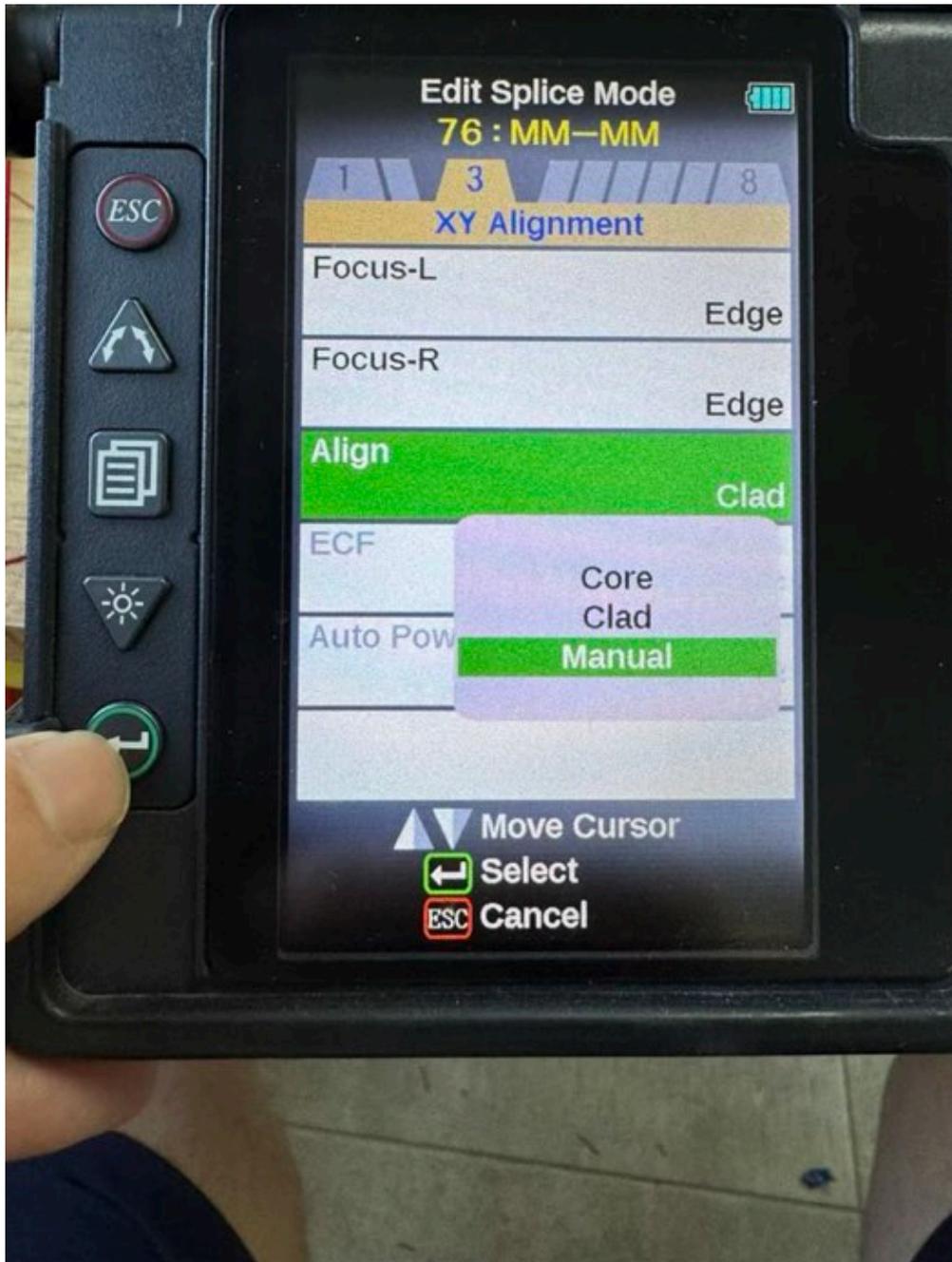


Figure 9 – Select manual mode.

---

**7) Return to main screen**

Press ESC several times until reaching:

READY

---

**8) Place fibers and press SET**

Insert the fibers into the fusion splicer.



Press:

SET

The splicer will start the process until reaching pauses (if configured) or just before the arc.

---

## **9) Manual alignment**

At pause 1:

- The alignment is displayed
- Verify it shows:

Operation mode: Manual



Figure 10 – Initial automatic alignment.

Exit the pause by pressing SET.

Then:

- Use arrow keys to move fibers
- Switch axis (X/Y)
- Adjust speed



Figure 11 – Manual alignment adjustment.

### 10) Generate arc

Once alignment is satisfactory, press:

ARC

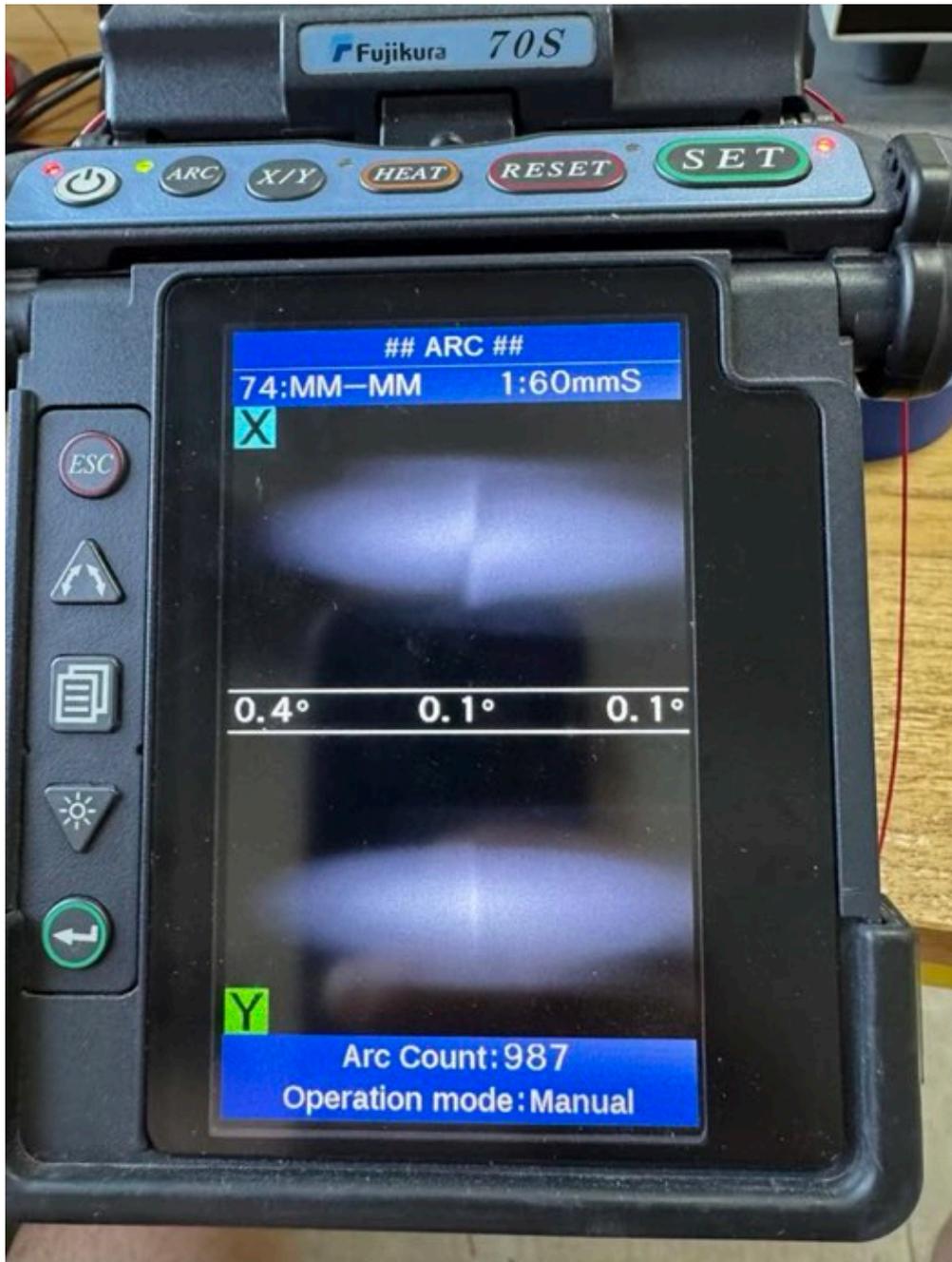


Figure 12 – Final splice result.