

Cruiser TC28-1

Cruiser Replacement Fusion Splicer Electrodes User Manual

Model: TC28-1

[Introduction](#) [Installation](#) [Operation](#) [Maintenance](#) [Specifications](#) [Warranty & Support](#)

1. INTRODUCTION

This manual provides instructions for the proper installation, operation, and maintenance of Cruiser Replacement Fusion Splicer Electrodes, Model TC28-1. These electrodes are designed for use with Fujikura FSM-17S, FSM-18S, FSM-50R, FSM-50S, FSM-60S, and FSM-60R fusion splicers.

The electrodes are constructed from high-quality tungsten steel, ensuring durability and stable discharge performance for reliable fiber optic splicing.

Tungsten steel

TUNGSTEN STEEL MATERIAL SAFETY ANTI BREAKDOWN

High hardness, long service life
Available about 4000 cores, suitable for trunk welding

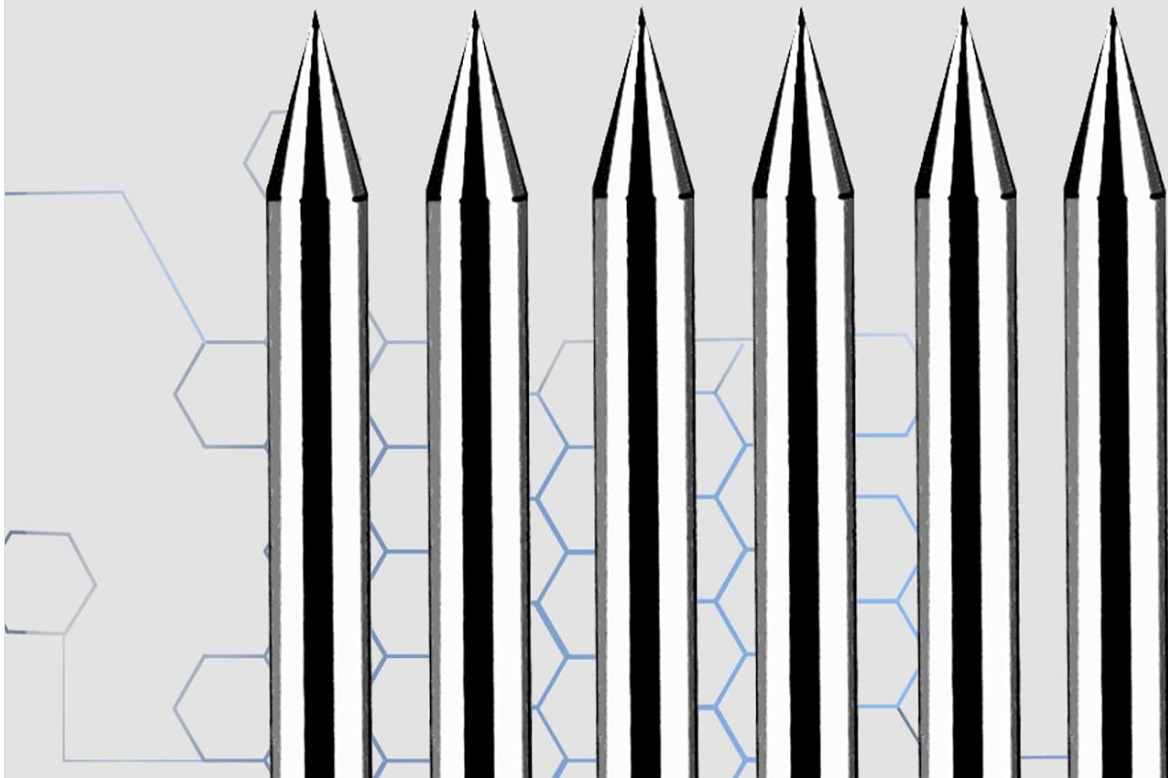


Figure 1: Tungsten steel electrodes, highlighting their material and durability for approximately 4000 core splices.

stable durable

DISCHARGE STABILITY DURABLE

Guaranteed quality

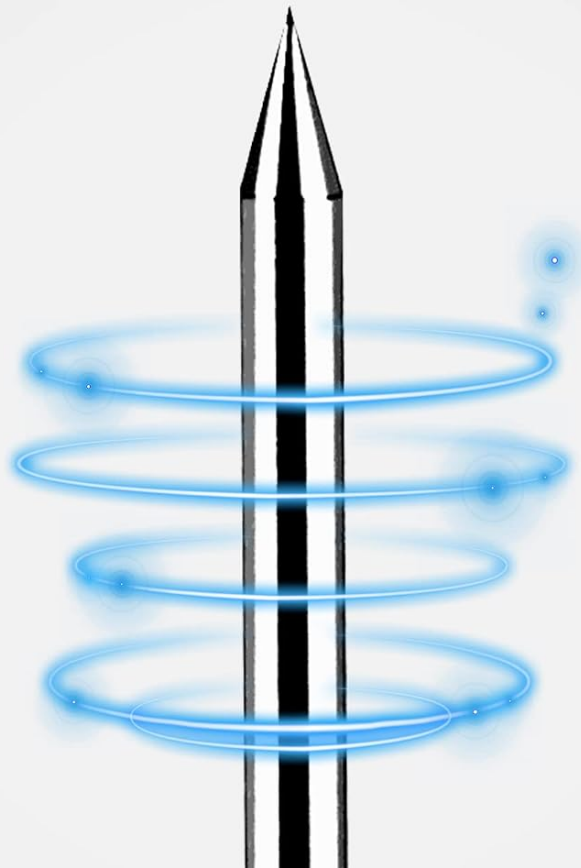


Figure 2: Illustration of stable discharge, indicating consistent performance during splicing operations.

2. INSTALLATION

Follow these steps carefully to replace the electrodes in your fusion splicer. Ensure the splicer is powered off before beginning the installation process.

1. **Power Off:** Make sure the fusion splicer is shut down and disconnected from its power source.
2. **Remove Old Electrodes:**
 - Remove the protective cover of the electrode chamber.
 - Loosen the screw fixing the upper electrode and carefully remove the upper electrode.
 - Then loosen the top wire of the lower electrode and remove the lower electrode.

3. **Install New Electrodes:**

- Install the new electrodes in the reverse order of removal.
- Ensure the electrodes are securely fastened but do not overtighten.
- The gap between the two electrode tips is required to be **2.6 mm plus or minus 0.2 mm**

4. **Handling Precaution:** During the assembly process, avoid touching the electrode tips directly to prevent damage or contamination.

HOW TO REPLACE THE ELECTRODE ROD

1. Make sure that the welding machine is shut down.
Remove the protective cover of the electrode chamber,
Loosen the screw fixing the upper electrode and remove the upper electrode;
Then loosen the top wire of the lower electrode and remove the lower electrode.

Step 2 Install the new electrode,
The procedure is the opposite of removing the electrode,
Perform operations in sequence.
The gap between the two electrode tips is required to be:
2.6 plus or minus 0.2 mm.

3. During the assembly process, the electrode tip should not be touched.
To avoid damaging the electrodes,
And avoid electrodes falling into the machine and causing damage.
After replacing the electrode, the arc position should be calibrated.

- 1. After the electrodes are installed, turn on the fusion power switch.
- 2. After the welding machine enters the initial screen,
Press the menu key to enter the first-level menu
- 3. Find the machine maintenance by moving the cursor.
Select clean (aged) electrode item, after confirming,
The machine will automatically discharge clean and aging electrodes.

Figure 3: Visual guide for the electrode replacement procedure, detailing steps for removal and installation.

3. INITIAL OPERATION AND CALIBRATION

After installing new electrodes, it is crucial to perform an arc position calibration to ensure optimal splicing performance.

1. **Power On:** After the electrodes are installed, turn on the fusion splicer power switch.
2. **Access Menu:** Once the welding machine enters the initial screen, press the menu key to enter the first-level menu.
3. **Calibrate Arc Position:** Find the machine maintenance option by moving the cursor. Select the "Clean (aged) electrode" item. After confirming this selection, the machine will automatically discharge to clean and age the electrodes, effectively calibrating the arc position.

4. MAINTENANCE AND STORAGE

Proper maintenance and storage will extend the lifespan and ensure the consistent performance of your electrodes.

- **Keep Dry:** Always try to keep the electrode rod in a dry and well-ventilated environment. Humidity can affect electrode performance and longevity.
- **Protective Storage:** Store electrodes in their provided plastic protective box when not in use. This protects them from physical damage and environmental factors.
- **Avoid Contamination:** Prevent dust, dirt, and oils from coming into contact with the electrode tips.

How to be more durable

SAVE THE WAY

Try to keep the electrode rod in a dry and ventilated environment
Use and Preservation

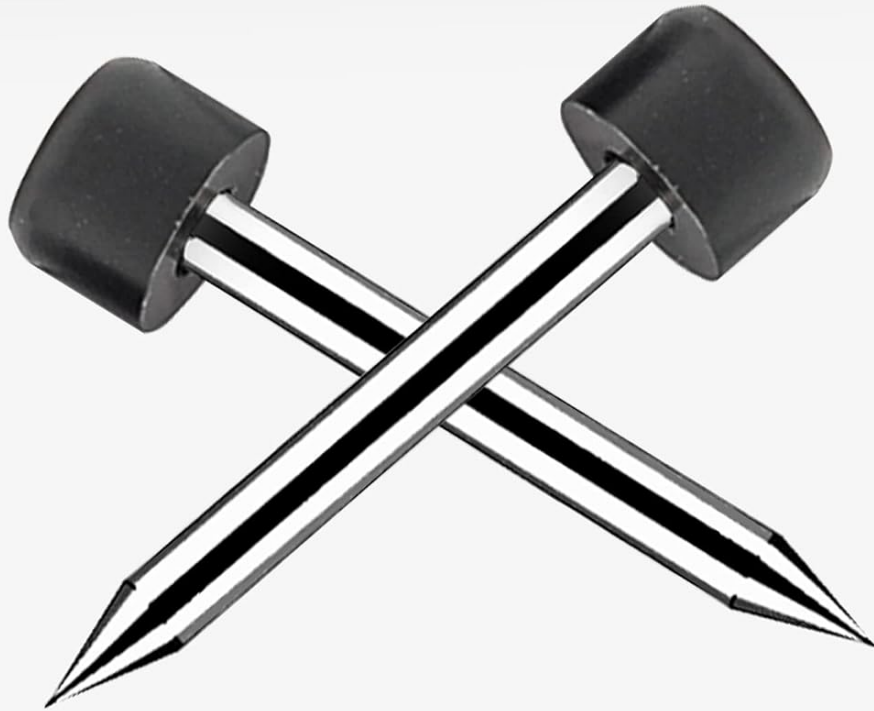


Figure 4: Illustration emphasizing the importance of storing electrodes in a dry, ventilated environment for durability.

To protect the

PLASTIC PROTECTIVE BOX

Provide necessary protection during transportation
or storage



Figure 5: The plastic protective box designed to provide necessary protection during transportation or storage of the electrodes.

5. TROUBLESHOOTING

This section addresses common issues related to electrode performance. For complex problems, refer to your fusion splicer's main instruction manual or contact technical support.

Problem	Possible Cause	Solution
---------	----------------	----------

Problem	Possible Cause	Solution
Poor splice quality / High splice loss	• Incorrect electrode gap • Contaminated electrode tips • Electrodes not properly aged/calibrated • Worn-out electrodes	• Verify electrode gap (2.6 ± 0.2 mm). • Clean electrode tips carefully with a lint-free wipe and alcohol. • Perform electrode aging/calibration procedure (Section 3). • Replace electrodes if they have exceeded their lifespan (approx. 4000 splices) or show visible wear.
Electrode breakdown / Short lifespan	• Improper handling during installation • Storage in humid or dusty environment • Excessive use beyond recommended lifespan	• Handle electrodes by the body, not the tips. • Store in the protective box in a dry, ventilated area. • Replace electrodes as needed based on usage and performance.

6. SPECIFICATIONS

Product Name	Replacement Fusion Splicer Electrodes
Brand	Cruiser
Model Number	TC28-1
Compatible Splicers	Fujikura FSM-17S, FSM-18S, FSM-50R, FSM-50S, FSM-60S, FSM-60R, FSM-80S
Material (Electrodes)	Tungsten Steel
Material (Protective Box)	Plastic
Quantity	1 Pair (2 electrodes)
Estimated Lifespan	Approximately 4000 core splices
Package Dimensions	6.3 x 3.9 x 1.6 cm
Package Weight	15 g
ASIN	B01DGKUPRS

7. WARRANTY AND SUPPORT

Warranty Information: No specific warranty information is provided with this product. Please refer to the retailer's return policy or contact the seller for details regarding product guarantees.

Technical Support: For technical assistance, questions regarding installation, operation, or maintenance, please contact your product supplier or the manufacturer directly. Keep your purchase receipt and product model number (TC28-1) available when seeking support.

Cruiser Replacement Fusion Splicer Electrodes User Manual

Model: TC28-1

© 2024 All rights reserved.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question