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KOMSHINE FX39

KOMSHINE FX39 Fiber Fusion Splicer Instruction Manual

MODEL: FX39

1. Introduction

The KOMSHINE FX39 Fiber Fusion Splicer is a high-performance, 6-motor core alignment device designed for efficient and precise optical fiber splicing. Featuring a 4.3-inch capacitive touch screen, it offers fast splicing and heating capabilities, making it suitable for various FTTH projects and network installations. This manual provides detailed instructions for the proper setup, operation, and maintenance of your FX39 splicer.



Figure 1: KOMSHINE FX39 Fiber Fusion Splicer overview, highlighting its 6-motor core alignment and touch screen interface.

2. Setup

2.1 Unboxing and Initial Inspection

Carefully unpack all components from the carrying case. Verify that all items listed in the packing list are present and undamaged. The standard package includes the FX39 splicer, fiber cleaver, fiber strippers, cleaning wipes, internal battery, charger, cooling tray, alcohol pump bottle, and fiber optic sleeves.

Video 1: User guidance display for the FX39 Six Motor Fusion Splicer, showing the unboxing and initial setup of the device and its accessories.

2.2 Battery Installation

The FX39 is powered by a 7800mAh lithium-ion battery. To install, align the battery with the compartment on the side of the splicer and slide it in until it clicks securely into place. Ensure the battery is fully charged before first use. A full charge supports approximately 400 cycles of splicing and heating.



Figure 2: The 7800mAh high-capacity lithium-ion battery being inserted into the KOMSHINE FX39 splicer.

2.3 Fiber Cleaver Setup (FC-30)

The FC-30 fiber cleaver is essential for preparing fiber ends. It can be used independently or attached to the splicer's working table for easier field operations. Ensure the cleaver blade is clean and properly adjusted for optimal cleave quality.

Video 2: Introduction to the FC-30 fiber cleaver, demonstrating its features and proper usage for preparing optical fibers.

2.4 Fiber Stripper (TFS-01)

The TFS-01 drop cable stripper is designed for butterfly flat cables, ensuring precision manufacturing, adjustable blades, and accurate cutting without damaging the fiber core.

Video 3: Demonstration of the FTS-01 Butterfly flat cable stripper, showing its ease of use and precision.

3. Operating Instructions

3.1 Powering On/Off

Press and hold the power button for 3 seconds to turn the splicer on. The 4.3-inch LCD color display will illuminate, showing the user interface. To power off, press and hold the power button again.

Video 4: User guidance for the FX39 touch screen, including powering on and navigating the interface.

3.2 Fiber Preparation

- 1. Strip the Fiber:** Use the appropriate fiber stripper (e.g., TFS-01 for drop cables) to remove the outer jacket and coating, exposing the bare fiber.
- 2. Clean the Fiber:** Use the provided cleaning wipes with alcohol to thoroughly clean the bare fiber. This removes any contaminants that could affect splice quality.
- 3. Cleave the Fiber:** Place the cleaned fiber into the FC-30 fiber cleaver and perform a precise cleave. A good cleave is crucial for low splice loss.

SOFT AND TOUGH TEXTURE WET-TO-DRY COMBINATION CLEANING

Absorbs water stains for dry use
does not generate swarf and scratch the surface of the machine



Figure 3: KOMSHINE Fiber Cleaning Wipes, designed for wet-to-dry cleaning to ensure dust-free fiber surfaces.

3.3 Fiber Placement and Splicing

Open the splicer's dust cover. Place the prepared fiber ends into the 3-in-1 fiber holders. The FX39 supports SM, MM, bare fiber, pigtail, rubber-insulated, and multi-fiber cables. Close the dust cover. The splicer will automatically align the fiber cores using its 6 motors and initiate the 6-second fast splicing process. The 0.01dB average splice loss will be displayed on the screen.

Core alignment

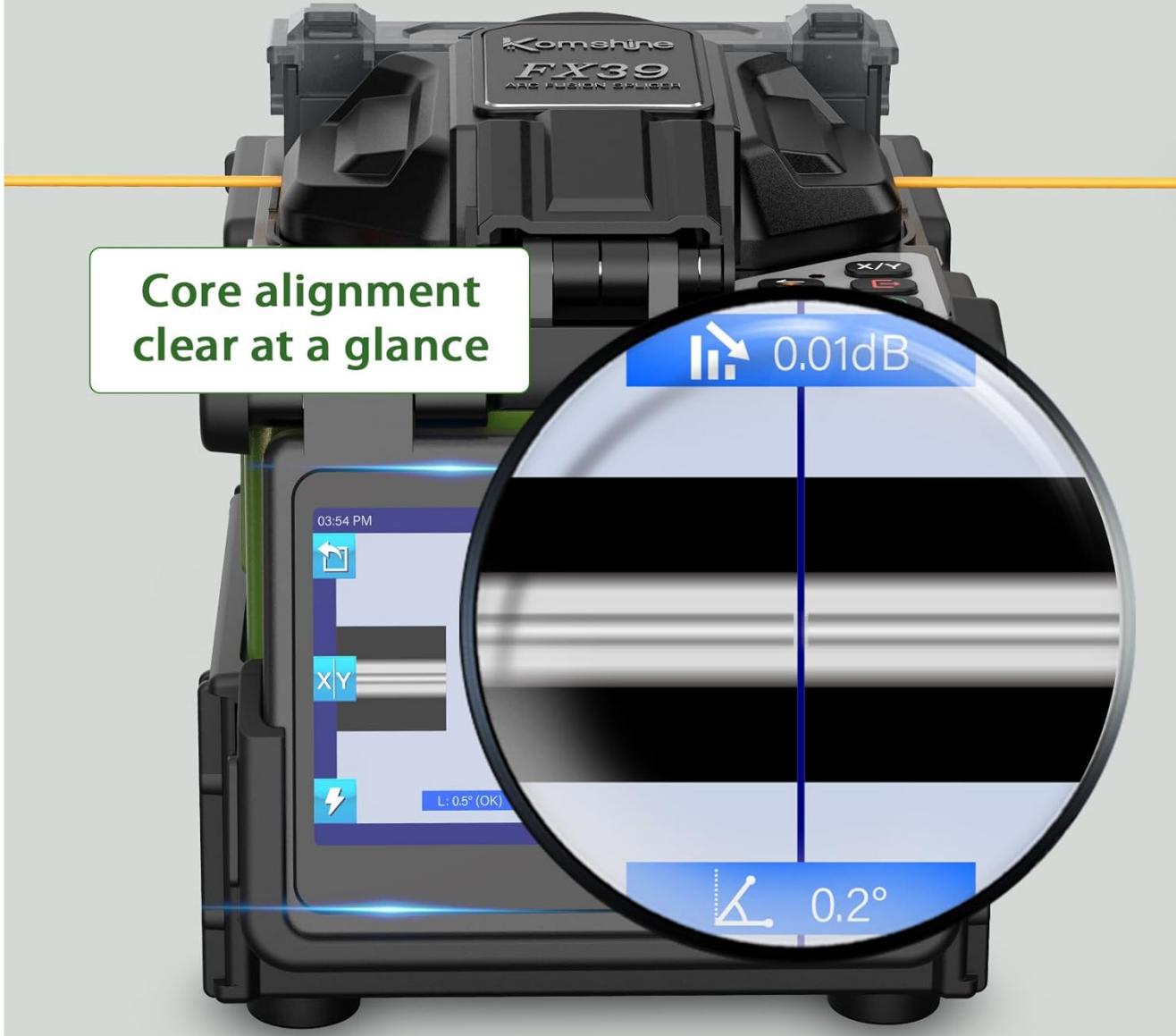


Figure 4: Close-up view of the KOMSHINE FX39 display showing precise core alignment and a 0.01dB splice loss.

3.4 Heat Shrinking and Cooling

After successful splicing, move the heat shrink tube over the splice joint. Place the fiber into the built-in heater. The splicer will perform 16-second fast heating to secure the splice. Once heated, carefully remove the fiber and place it in the cooling tray to allow it to cool down and solidify.



Figure 5: The KOMSHINE FX39 features 2-layer cooling tanks for efficient cooling of spliced fibers.

4. Maintenance

4.1 Electrode Replacement

The FX39 features tool-less electrode replacement, with an electrode service life of 5000 times. To replace, gently twist and remove the old electrodes, then insert new ones. Ensure they are securely seated.

Tools-less electrodes replacement

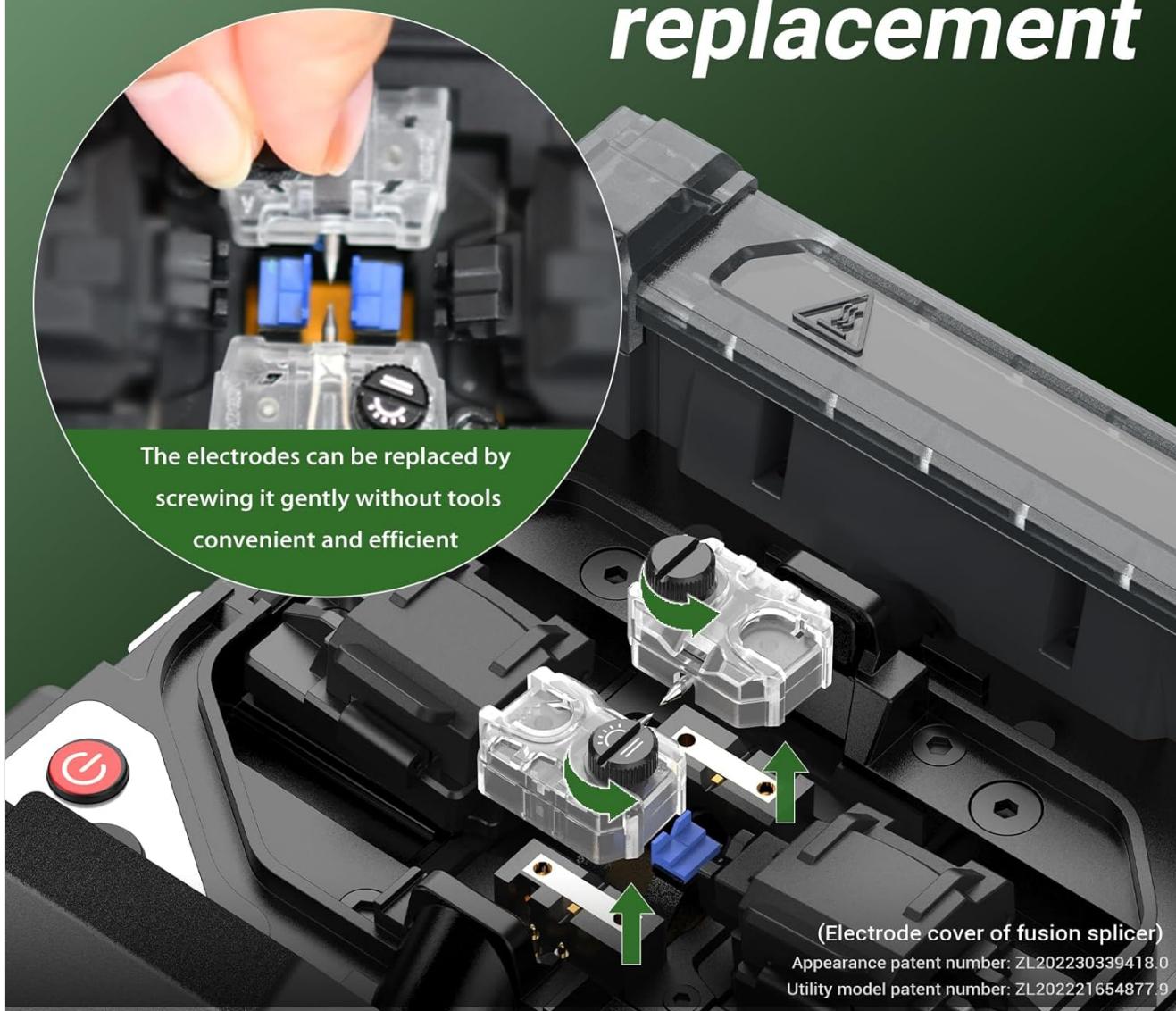


Figure 6: Tool-less electrode replacement on the KOMSHINE FX39, showing the simple twist-and-remove mechanism.

4.2 Cleaning

Regularly clean the V-grooves, objective lenses, and other optical components with alcohol-dipped cleaning wipes to maintain optimal performance and prevent dust accumulation.

5. Troubleshooting

If you encounter issues such as high splice loss, inconsistent heating, or display errors, first ensure all fibers are properly cleaned and cleaved. Check electrode condition and replace if necessary. If problems persist, refer to the detailed troubleshooting section in the full user manual or contact KOMSHINE technical support for assistance.

6. Specifications

- **Model:** FX39
- **Splicing Time:** 6 seconds
- **Heating Time:** 16 seconds
- **Display:** 4.3-inch Capacitive Touch Screen
- **Electrode Life:** 5000 cycles
- **Battery Capacity:** 7800mAh (approx. 400 splice/heat cycles)
- **Splicing Loss (Average):** SM: 0.02dB / MM: 0.01dB / DS: 0.04dB / NZDS: 0.04dB / G.657: 0.02dB
- **Applicable Fibers:** SM (G.652&G.657); MM (G.651); DS (G.657); NZDS (G.655)
- **Dimensions:** 61.81 x 51.97 x 62.2 inches
- **Item Weight:** 4.4 pounds (without battery)
- **Included Power Meter:** KPM-35-G-A (-70~+6dBm, 7 Wavelengths)

7. Warranty and Support

KOMSHINE provides whole-life technical support for the FX39 Fiber Fusion Splicer. For any technical assistance, user guidance, or support inquiries, please contact KOMSHINE customer service. Details can be found on the official KOMSHINE website or through your purchase platform.