

KOMSHINE GX36, T37

Komshine OEM Fiber Optical Electrodes User Manual

For GX36 and Orientek T37 Fusion Splicers

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1. INTRODUCTION

This user manual provides essential information for the safe and effective use of Komshine OEM Fiber Optical Electrodes. These electrodes are designed as replacement parts for KomShine GX-36 and Orientek T-37 Fiber Fusion Splicers. Please read this manual thoroughly before installation and operation to ensure optimal performance and longevity of your equipment.

2. PRODUCT OVERVIEW

Komshine OEM Fiber Optical Electrodes are precision-engineered components crucial for the fusion splicing process. They generate the arc discharge necessary to melt and fuse optical fibers, ensuring low-loss connections. Each pair of electrodes is manufactured to meet stringent industry specifications, providing reliable and consistent performance.



Figure 2.1: Komshine OEM Fiber Optical Electrodes in their retail packaging, showing two electrodes.



Figure 2.2: A close-up view of two Komshine OEM Fiber Optical Electrodes, highlighting their sharp tips and base.

3. SETUP AND INSTALLATION

Replacing electrodes in a fiber fusion splicer requires careful handling to avoid damage to the splicer or the new electrodes. Always refer to your specific fusion splicer's manual (KomShine GX-36 or Orientek T-37) for detailed, model-specific instructions. The following steps provide a general guideline:

1. **Power Off:** Ensure the fusion splicer is completely powered off and disconnected from any power source.
2. **Open Electrode Cover:** Locate and open the electrode cover on your fusion splicer. This usually involves releasing a latch or unscrewing a small fastener.
3. **Remove Old Electrodes:** Carefully remove the old electrodes. They are typically held in place by small screws or a spring-loaded mechanism. Use appropriate tools (e.g., small screwdriver) if necessary. Avoid touching the tips of the old electrodes.
4. **Clean Electrode Area:** Gently clean the electrode mounting area with a lint-free cloth and isopropyl alcohol to remove any dust or debris.
5. **Install New Electrodes:** Carefully insert the new Komshine OEM electrodes into their respective positions. Ensure they are seated correctly and securely. Avoid touching the sharp tips of the new electrodes.
6. **Secure Electrodes:** Fasten the electrodes in place using the original screws or securing mechanism. Do not overtighten.
7. **Close Cover:** Close the electrode cover securely.
8. **Perform Arc Calibration:** After installing new electrodes, it is crucial to perform an arc calibration or arc test as per your splicer's instructions. This calibrates the arc discharge for optimal splicing performance.

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Video 3.1: This video demonstrates the tool-less electrode replacement process on a similar fusion splicer model (T49). While the model may differ, the general principles of careful handling and secure installation apply to KomShine GX-36 and Orientek T-37 splicers.

4. OPERATION

Once the new electrodes are installed and calibrated, the fusion splicer is ready for operation. The electrodes are an integral part of the splicing process, generating the high-voltage arc that melts the fiber ends. Proper operation of the splicer, including fiber preparation (cleaving and stripping), alignment, and splicing, should follow the guidelines provided in your specific splicer's user manual.

Key operational considerations:

- Ensure fibers are clean and properly cleaved before placing them in the splicer.
- Monitor the arc discharge during splicing. An unstable or weak arc may indicate issues with electrodes or calibration.
- Regularly check the splice loss. High splice loss can be a symptom of worn or contaminated electrodes.

5. MAINTENANCE

To maximize the lifespan and performance of your Komshine OEM electrodes and fusion splicer, regular maintenance is essential:

- **Cleaning:** Periodically clean the electrode tips and the surrounding area with a lint-free swab moistened with isopropyl alcohol. Ensure no residue remains. This should be done when the splicer is powered off.
- **Inspection:** Visually inspect the electrode tips for signs of wear, pitting, or contamination. Worn electrodes will appear blunt or uneven.
- **Replacement:** Electrodes have a finite lifespan, typically rated for a certain number of splices (e.g., 4000 splices as indicated in some product images). Replace electrodes when they show significant wear, or when splice loss becomes consistently high despite proper fiber preparation and calibration.
- **Storage:** When not in use, store spare electrodes in their original protective packaging in a clean, dry environment to prevent contamination or damage.

6. TROUBLESHOOTING

If you encounter issues during fusion splicing, consider the following common problems related to electrodes:

Problem	Possible Cause	Solution
High Splice Loss	Worn, dirty, or misaligned electrodes; incorrect arc calibration.	Clean electrodes, perform arc calibration, replace electrodes if worn. Ensure proper fiber cleave.
Unstable Arc / No Arc	Loose or improperly installed electrodes; severely worn electrodes; internal splicer issue.	Check electrode installation, replace electrodes. If problem persists, consult splicer manual or service.
Fiber Burns / Damage	Excessive arc power; contaminated electrodes.	Perform arc calibration to adjust power, clean electrodes.

For issues not resolved by these steps, refer to the user manual of your specific fusion splicer model

(KomShine GX-36 or Orientek T-37) or contact technical support.

7. SPECIFICATIONS

- **Product Type:** Fiber Optical Electrodes
- **Compatibility:** KomShine GX-36, Orientek T-37 Fiber Fusion Splicers
- **Material:** Tungsten Steel
- **Estimated Lifespan:** Up to 4000 splices (may vary based on usage and maintenance)
- **Item Weight (Pair):** Approximately 99.8 g
- **Color:** Black (base)

8. WARRANTY AND SUPPORT

For warranty information regarding your Komshine OEM Fiber Optical Electrodes, please refer to the documentation provided at the point of purchase or contact your vendor. For technical support related to the installation or performance of these electrodes, please reach out to Komshine customer service or your authorized distributor.

Always ensure you are using genuine Komshine replacement parts to maintain the integrity and performance of your fusion splicer.