

FOC-125 Fiber Optic Cleaver Instruction Sheet

Warning! This tool should not be used on live electrical circuits. It is not protected against electrical shock! Always use OSHA/ANSI/CE or other industry approved eye protection when using tools. This tool is not to be used for purposes other than intended. Read carefully and understand instructions before using this tool.

The FOC-125 Fiber Cleaver produces precise fiber cleaves for fiber splicing and connectorization.

Features

- Applicable fiber: 125 micron clad fiber
250 and 900 micron fiber coating
- Cleave angle: < 0.5 degrees
- Cleave length: 6mm-20mm for 250 micron coated fiber
10mm-20mm for 900 micron coated fiber
- Cleave cycles: 48,000 (3 height x 16 blade positions)
- Compact size
- Replaceable blade



1. Storage. Store the tool with switch in OFF position and with upper body closed as shown. Switch to On position to operate.



2. Fiber Preparation. Strip 250 micron acrylate from fiber cladding. Clean fiber appropriately with Isopropyl alcohol. If using 900 micron buffered fiber, strip buffer coating as need.

3. Cleaver Operation



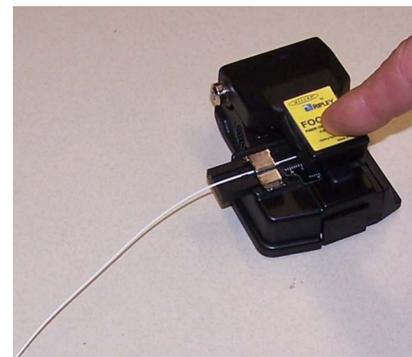
3.1 Blade setting

Push blade slide forward to lock in place



3.2 Fiber placement

Place fiber in appropriate channel and lock with fiber clamp



3.3 Cleaving

Push down housing to perform cleave

WARRANTY: RIPLEY warrants its products against defective materials and workmanship for a period of one year from date of shipment from the RIPLEY factory provided the product is utilized in accordance with instructions and specified ratings.

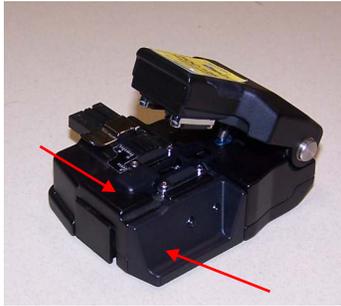


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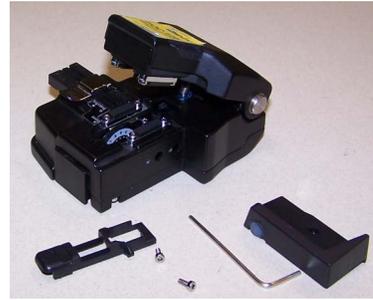


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4. Cleaving Blade Index Instruction for new cleave position



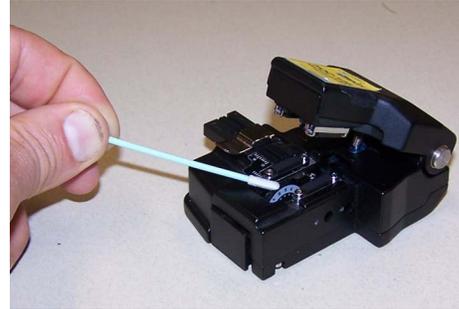
4.1 Remove the blade guard and side plate. Use 1.5mm hex wrench enclosed.



4.2 Guard and side plate removed.



4.3 The cleave blade is fixed by two set screws on the blade face. Loosen set screws ½ turn with 1.5mm hex wrench.

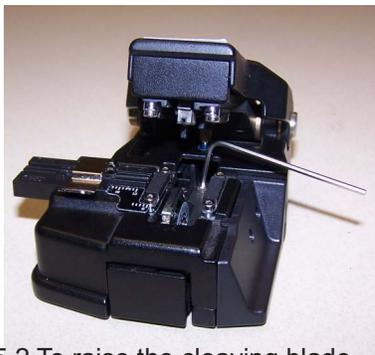


4.4 With a soft tipped object, index the cleave blade to next numerical position.

4.5 Tighten the set screws to secure the blade, and reassemble the guard and plate.

5. Blade Height Adjustment instruction. After the blade has been indexed through all 16 rotational positions, it will be necessary to raise the blade to adjust for blade wear.

5.1 Remove the blade guard, side plate and loosen the cleave blade as noted in Cleaving Blade Index Instructions steps 1-3 above.



5.2 To raise the cleaving blade, loosen (do not remove) the blade arm locking screw to loosen the arm as shown.



5.3 Access the blade arm position screw underneath the tool. Turn the screw clockwise 1 index position (1/12th of a turn) with 1.5mm allen wrench to raise the arm and blade. More than two index moves will raise the blade too much.

5.4 Re-secure the blade arm with the arm locking screw above.

5.5 Re-secure the cleave blade, re-assemble the side plate and blade guard. Make test cleaves, observe cleave quality and re-adjust height if necessary

6. Blade replacement

6.1 Remove the blade guard, side plate and loosen the cleave blade as noted in Cleave Blade Index Instructions steps 1-3.



6.2 Remove the stop plate on the back of the tool with 1.5mm hex wrench



6.3 Unscrew the blade arm locking screw. Move the slide forward to remove the blade and replace it.

6.4 If the slide locks into the forward position, observe care and manually unlock it by depressing the catch as shown. If a part falls into body cavity inaccessibly, follow cleaning instructions below to remove the base and retrieve the part.

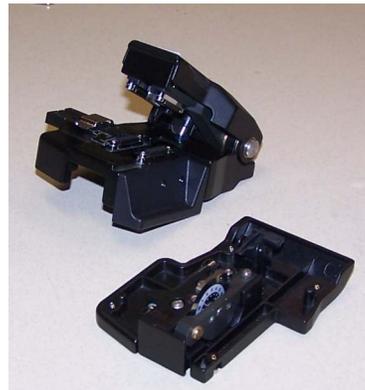


6.5 Reverse the above steps and re-secure the cleave blade arm, re-secure the cleave blade, re-assemble the stop plate, side plate and blade guard.

7. Cleaning



7.1 Disassemble the (4) base holding screws located under the bumper pads



7.2 Remove the base and clean as desired

8. Troubleshooting If less than desirable cleave results occur, note some of the possible causes on this chart.

Failure Mode	Cause and Solution
Fiber does not cleave.	<ol style="list-style-type: none"> 1. Acrylic coating not removed from fiber. 2. Fiber surface not clean. 3. Clean rubber presser feet. 4. Increase height of cleaving wheel.
End face has lip.	<ol style="list-style-type: none"> 1. Increase height of cleaving wheel. 2. Clean rubber feet. 3. Check rubber feet for wear or abrasion.
End face has shadow or incline angle.	Increase height of cleaving wheel.
Core missing.	Lower height of cleaving wheel.

Lip



Incline

