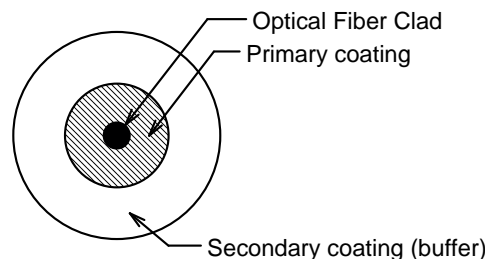


# Operation Manual

## S315 Optical Fiber Cleaver

### 1. Introduction

The cleaver cleaves end of optical fibers, whose primary and secondary coating have been removed, to specific length approx. 2.0-20.0mm. The cleaver assures mirror-like end face quality. Completely remove the primary coating from the optical fiber by using a fiber stripper and clean using a solution (alcohol) before using the cleaver.



### 2. Names of Individual Sections

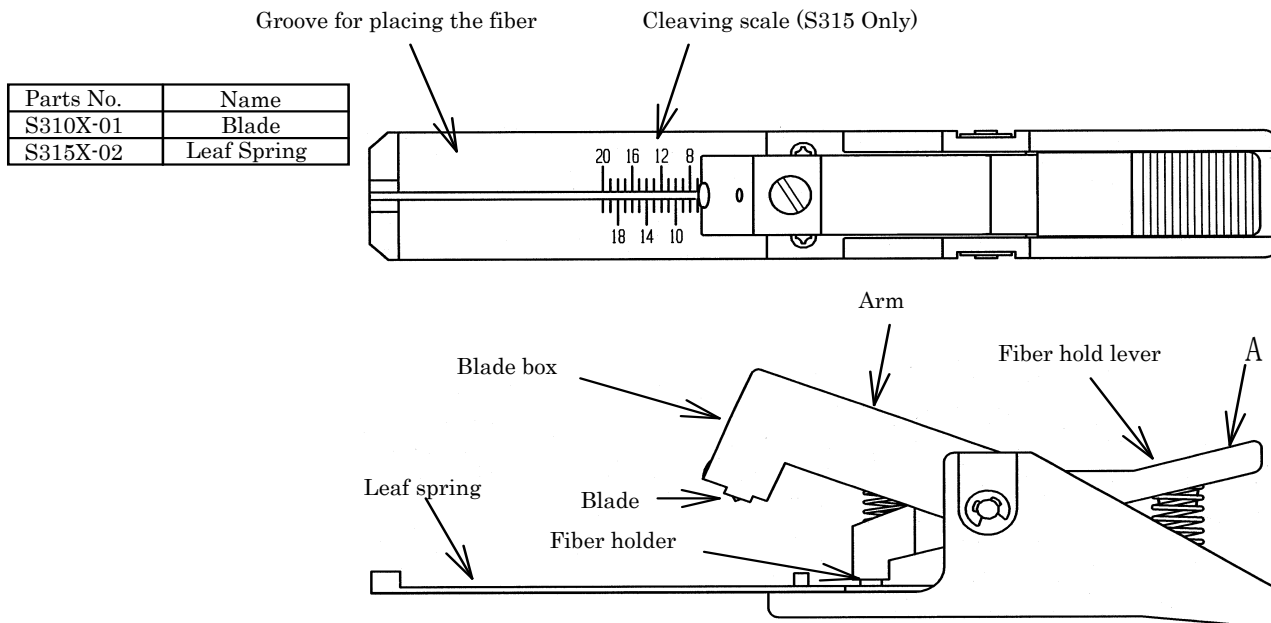


Fig. 1 Part Name

### 3. Cleaving Sequence

**CAUTION:** IF LEAF SPRING IS DAMAGED OR BENT IT SHOULD BE REPLACED BEFORE USING.

#### 3.1 Optical fiber setting

Push Section A that holds the optical fiber to lift the Fiber holding section as shown in Figure 2. Set the optical fiber whose coatings have been removed along the groove for placing the fiber section, and position the end of the buffer coating just onto the scale marked on the leaf spring, corresponding to your intended cleaving length.

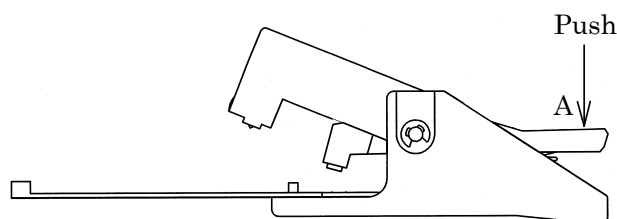


Fig. 2

**CAUTION:** DO NOT TOUCH BLADE TO THE LEAF SPRING WITHOUT FIBER IN PLACE.

#### 3.2 Optical Fiber Fixing

Release section A to fix the fiber on the leaf spring. The leaf spring shall remain horizontal at this time. After clamping the fiber, place your fingers at the end of the leaf spring and hold the buffered fiber firmly against the leaf spring. While keeping fiber tight, Press section A to release torsion that may be on the fiber. Release section A to resecure fiber.

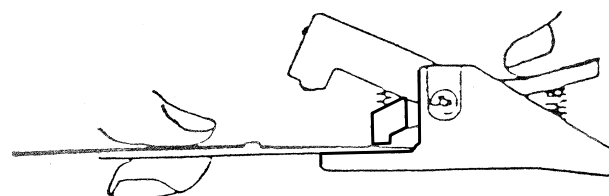
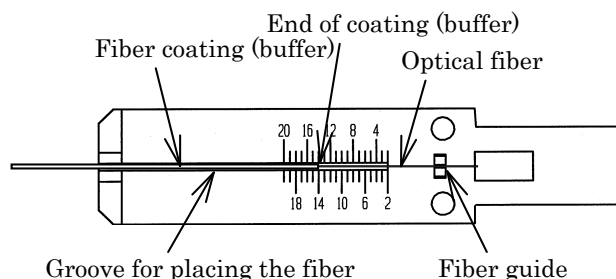


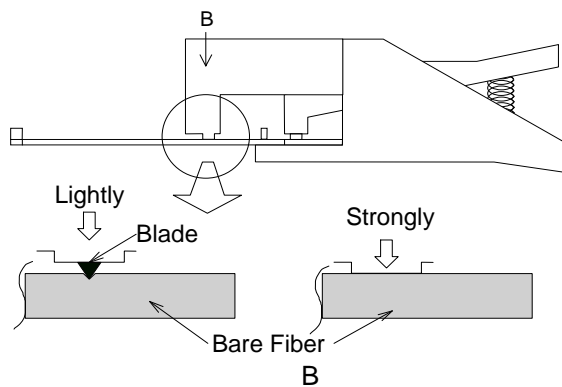
Fig. 3

**CAUTION:** FOR THE BEST POSSIBLE CLEAVE, KEEP BUFFERED FIBER IN CONTACT WITH THE LEAF SPRING AT ALL TIMES.

### 3.3 Optical fiber Scoring

With fiber in position, press section B to lightly score the fiber. Remember to lower the blade slowly. This will allow you to control the force of the blade more accurately.

**CAUTION:** DO NOT PRESS BLADE HOUSING INTO THE FIBER. THE TIP OF THE BLADE SHOULD ONLY TOUCH THE FIBER.



### 3.4 Arm release

Release section B and allow the arm to return to its normal position before proceeding to section 3.5.

### 3.5 Optical fiber cleaving

The optical fiber will be cleaved at the point where the blade scored the optical fiber. To complete the cleave, bend the leaf spring while keeping tension on the fiber.

**CAUTION:** DO NOT TWIST LEAF SPRING WHILE CLEAVING FIBER.

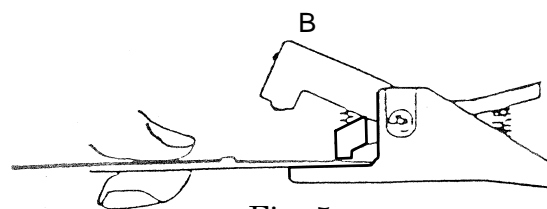


Fig. 5

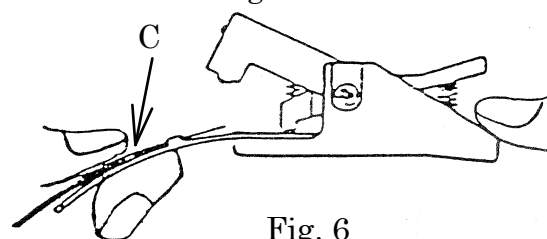
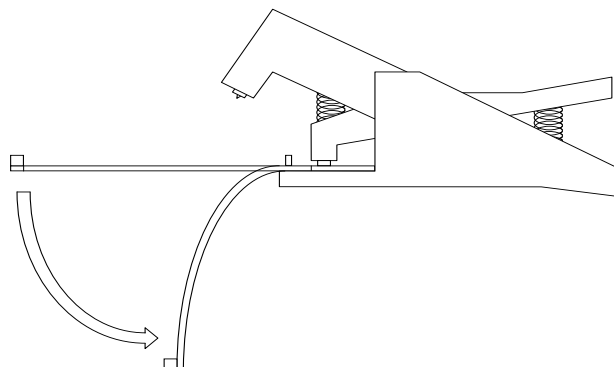


Fig. 6

**CAUTION:** DO NOT OVER BEND THE LEAF SPRING. IT MAY CAUSE DAMAGE TO THE LEAF SPRING.



### 3.6 Maintenance

Keeping the Cleaver clean is essential to good cleave performance. Make sure that the leaf spring is in good condition and is kept clean of any debris that may cause improper cleaving. Also make sure that the blade is clean and there is no indentation in the leaf spring from excessive pressure on the blade during cleaving.

## 4. Specification

Item :	Specification :
Applicable Fiber (mm)	Single fiber 0.125 O.D
Fiber Coating Material	Acrylate
Coating Diameter (mm)	0.25 to 0.90 O.D
Dimension (mm)	124 (L) × 20 (W) × 40 (H)
Weight (g)	60
Environmental	
Operating temperature	±0 to 40 C
Storage temperature	-20 to 60 C
Cutting length (mm)	2.0-20.0mm

Agent

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