



XL-FC21

Optical Fiber Cleaver

Instruction Manual



Usage and safety regulation:

- Before using XL-FC21 fiber cleaver, please read this manual carefully;
- Be cautious to use XL-FC21 in case harm;
- Do not touch the blade with hand when use or repair XL-FC21;
- Do not take down or oil XL-FC21;
- Keep XL-FC21 away from humid and dusty environment.

I. Technical specifications:

Applicable range	Single Core silex-fiber
Coating Diameter	$\phi 0.25\text{mm}$ & $\phi 0.9\text{mm}$
Fiber Diameter	125 μm
Cleave Length	9~16mm($\phi 0.25$) 10~16($\phi 0.9$)
Dimension	59mm(W)*55mm(D)*49mm(H)
Weight	255g
Cleaving Angle	$\leq 0.5^\circ$
Blade Life	12000 times

II. Operation procedure:

1. Facing the blade shelf and open the big pressboard and small pressboard. (See figure 1).
2. Align the stripped fiber with calibration and put it into V-groove and make sure that the bare fiber is sticking out of the rubber pad exactly in a straight line. Close the pressboard and push the blade shelf to another side to cut the fiber.
3. Open the big and small pressboard to clean the fiber chip then remove the fiber.

III. Maintenance:

1. Clean the pressboard and blade:
Usually use cotton with anhydrous alcohol to clean the rubber surface of big pressboard, edge of blade and the rubber pad.
2. Blade height adjustment:
Usually don't need to adjust the blade height, please operating as following steps when XL-FC21 does not work well:
 - a. Push the blade shelf to another side to make the screw II align the aperture on the bottom of cleaver, then release screw II with wrench.
 - b. Revolve the adjust axle in the middle of blade shelf deasil slightly (See figure 2).
 - c. Lock screw II and I tightly. (Screw II fix adjust axle and screw I fix blade).
 - d. Repeat above steps till blade is in proper position.
3. Blade position adjustment:
 - a. Release screw I on the blade shelf. (See figure 2)
 - b. XL-FC21 cleaver revolves 45 degree, insert sharp thing into operation aperture and revolve the blade to make blade on the point of 1-12 or 1-16.
 - c. Press the blade with finger and lock screw I tightly.
4. Blade adjustment:

- a. If XL-FC21 could not cut the fiber very well:
The blade is on low position and please adjusts the blade height as above steps.
 - b. If the fiber has breakage and there is adumbration on the end-surface of fiber or too large fiber angle:
The blade is on high position and please adjusts the blade height as above steps.
 - c. If there is large oblique angle when blade is on low or high position.
There is adumbration on the end-surface and please observe from another direction.
Please contact us if above methods could not ameliorate the cleaving quality.
5. Blade repeat use:
- a. Release screw II and I, pull out the adjust axle (see figure 2).
 - b. Release the screw of blade shelf, lean down the cleaver 45 degree and put the new blade into blade shelf.
 - c. Push the adjust axle into the central aperture or revolve adjust axle with screwdriver and then align position 1 up to lock the screw.
 - d. Put the coating fiber in the $\phi 0.9$ groove to adjust blade height, revolve adjust axle to make blade touch the fiber, then adjust half calibration to proper position and lock screw I and II tightly.

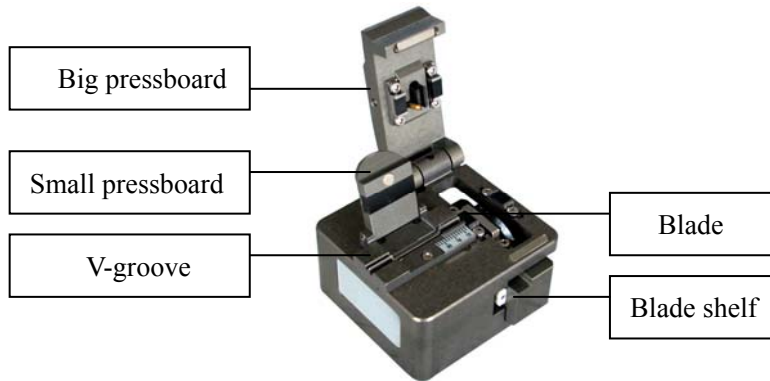


Figure 1

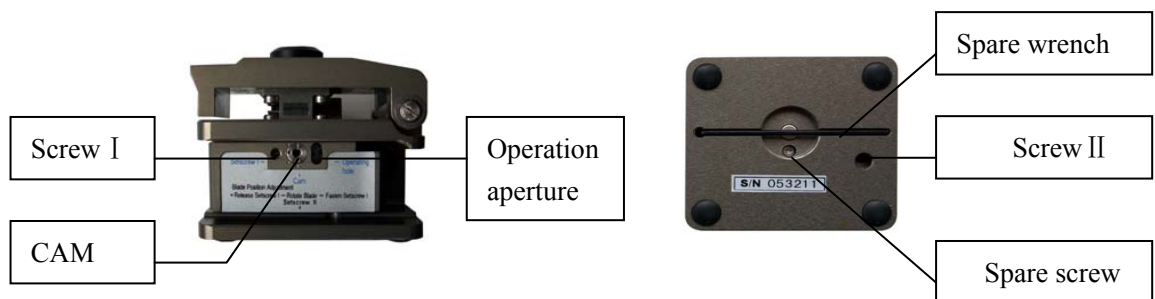


Figure 2

Figure 3