

Fujikura CT-30 High Precision Fiber Cleaver

Blade Adjustment-- Supplementary Maintenance Information provided by Neothings, Inc.

Overview

Blade rotation and height adjustment must be done periodically to ensure proper operation. The necessary steps in the manufacturer's instructions are somewhat difficult to follow, so this information is provided to make the maintenance easier to perform. When properly maintained, the blade should last for several thousand cuts.

Blade Rotation

When the cutter seems to be getting dull (that is, it does not cut the fiber cleanly on the first attempt), rotating the blade 1/16 of a revolution will expose a "fresh" cutting surface. The blade is marked 1-16 to indicate the exact position. It is shipped from the factory in position 1. When the blade is rotated back to position 1 (one full revolution), the blade height is adjusted to improve cutting action.

Blade Height Adjustment

After the blade has been rotated through all 16 positions, the blade height is raised to ensure proper cutting. Then, after another full rotation of the blade (16 positions), the height can be raised again. The blade height can be raised a maximum of 2 times (beyond the original height, as shipped from the factory). Markings are provided to indicate

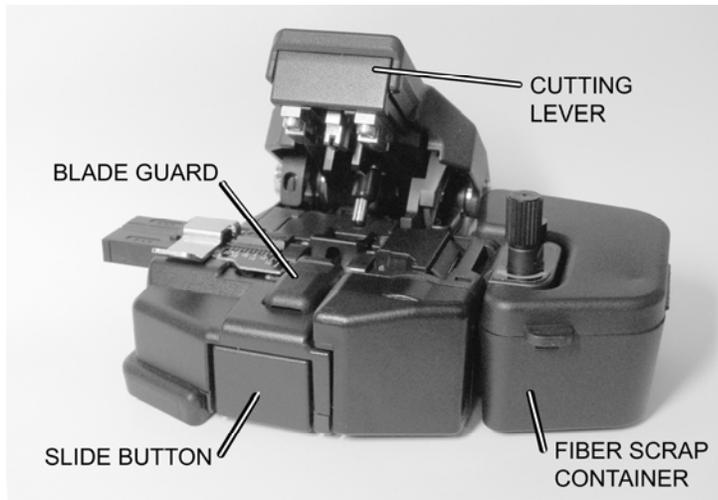
Tools Required

1.5 mm Allen/hex wrench (provided)

Dental/tooth pick or similar pointed object (e.g. large safety pin) for rotating the blade

Tweezers or fine point pliers (ref. Preparation step 2)

Preparation for Adjustments (*some disassembly required*)



1. The large fiber scrap container is held by a friction/locking tab.

Remove the container by carefully pulling it away (to the right) from the main cutter (Fig. 1). The knob is part of the container assembly

Fig. 1: Front view of cleaver. Slide button is in the UNLOCKED position.

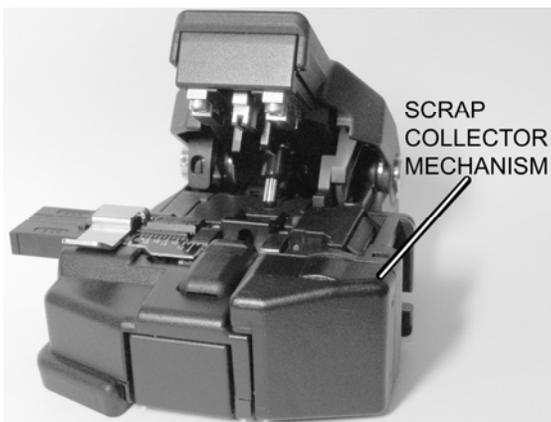


Fig 2: Scrap collector mechanism.

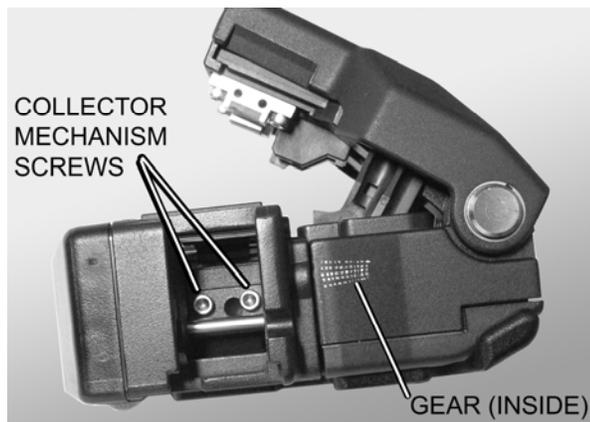


Fig. 3: (Right side) Collector mechanism screws.

Preparation for Adjustments (*some disassembly required*)

2. Use the 1.5 mm hex wrench to remove the collector mechanism screws* (Fig. 3). When removing the mechanism, note the gear that extends into the main body of the cutter.

The blade locking screws are now exposed (Fig. 4).

*Hint: Stand the unit on its side so the collector is removed by lifting up—the screws will remain in the holes and make re-assembly easier. Otherwise, needle-nose pliers or tweezers may be used to drop the screws in for re-assembly.

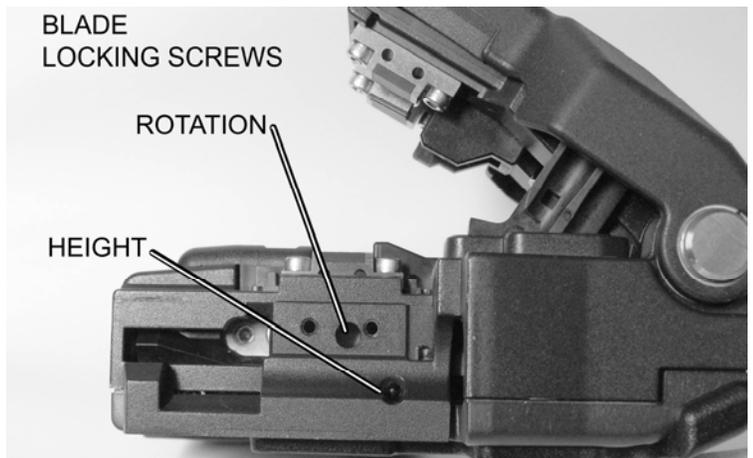


Fig. 4: Blade locking screws.

3. Lift the blade guard and pull it away to expose the blade (Fig. 5). Note the blade position reference marks (Fig. 6).

!CAUTION!
The blade is very sharp.
DO NOT TOUCH THE BLADE

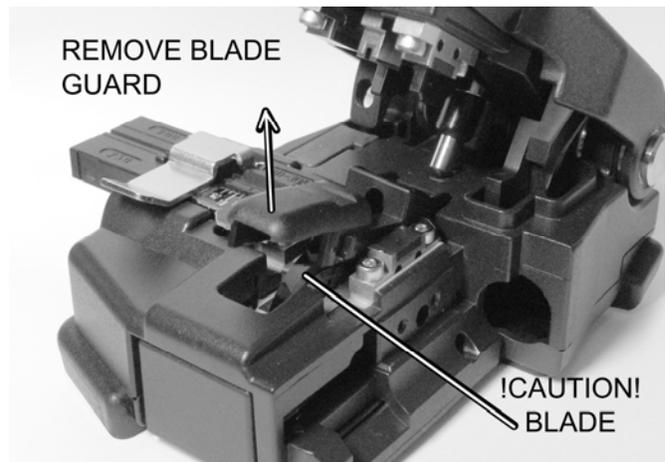


Fig. 5: Blade guard removal

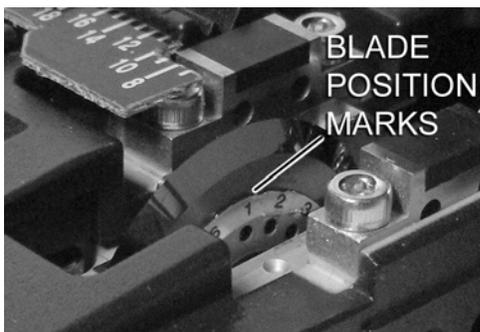


Fig. 6: Blade exposed with rotation marks.

→ Proceed to Blade Rotation
or Blade Height Adjustment Section

Blade Rotation Adjustment

1. Press the locking button (Fig. 1) inward to the locked position.
2. Loosen the rotation locking screw 1 1/2 revolutions (Fig. 4).
3. Use a pin or dental pick to rotate the blade to the next reference mark (Fig. 6). The small dots below the numbers are slightly indented to make it easier rotate the blade precisely. After position 16 has been used, the blade height should also be raised after rotating the blade to position 1.
4. Tighten the rotation locking screw. Do not over-tighten, as this may damage the blade. Also, make sure the blade is still in the correct location after tightening the locking screw. If the blade has shifted, repeat steps 2 & 3.
5. Press the cutting lever down (as done when cutting fiber) to release the slide button to the unlocked position.
6. Reinstall the blade guard (Fig. 5), scrap collector mechanism (Figs. 2 & 3), and the large fiber scrap container (Fig. 1)

Blade Height Adjustment

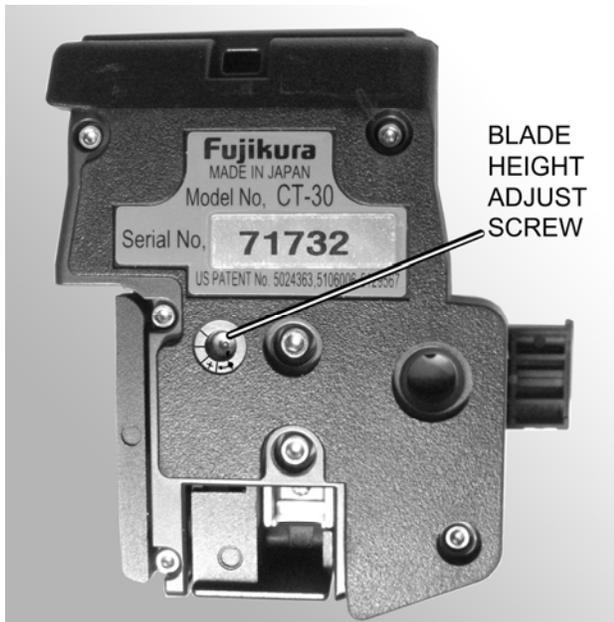


Fig. 7: (Bottom view) Blade height adjuster and indicator.

1. If the slide button is pushed in, press the cutting lever down to release the slide button to the unlocked position (Fig. 1).
2. Loosen the locking screw for blade height (Fig. 4). If you cannot see the screw, make sure that slide button is in the out (unlocked) position per step 1.
3. Note the small dot marking on the adjustment screw and the position markings on the case. Carefully rotate the blade height adjustment screw (Fig. 7) clockwise one mark. This can only be done 2 times before blade must be replaced.
4. Reinstall the blade guard (Fig. 5), scrap collector mechanism (Figs. 2 & 3), and the large fiber scrap container (Fig. 1)

Revised 4/14/10