

# Eye-Xtender

Manual

ADVANCE VERSION (changes reserve)

Dear sports shooter,  
we congratulate you on the purchase of your new visor help, the **Eye-Xtender**. We hope that this product will mean an other step to even more successful results for you.

„well shot“ and furthermore a lot of success wishes you

Grünig+Elmiger AG

## Overview parts

### 1. Application unity

The application unity contains both set wheels to the adjustment of the visor parts. They can be turned alternatively resting or freely. This function can be switched on and switched off in the both, in each case in the set wheels to sunk grub screws.

This component is equipped with the Speedlock-clamp system, around them can shift without tools arbitrarily in the length. The triangular polygon waves admit a shifting area of max. 100 mm.



### 2. Transformer service side

The transformer service side has the job to shift the rotations of the application component to a level below the assembly rail of the gun, so that the following CFK-shaft do not affect the visor line. He is fastened fixed on the assembly rail.



### 3. CFK-shaft

The CFK-shaft is especially stiff and easily trained. It can be shifted more than four small screws maximum 300 mm in the length to adapt them to the respective gun. Subsequently she has on the side turned to the locking case a fitted with springs quick change fastener, so that it can be separated after the use quickly from the system.



### 4. Transformer muzzle side (for long assembly rails)

The transformer muzzle side is a component which only is used if the assembly rail of the rifle is long enough for the admission of the sight base to allow an adjustment in the length. He takes up the CFK wave and their rotation and passes on this to the sight base. This part is mounted fixed. For the assembly on Walther rails (or sporting rifles with the same profile) balance bolts (see accessories) can be mounted to compensate for the dimension difference.



### 5. Hexagonal shaft for sight base (for short assembly rails)

The hexagonal shaft for sight base is intended in addition how to serve substitute with the transformer muzzle side. This if the assembly rail on the muzzle side admits no place for shifting the front sight base. Then the coach CFK-waves are connected directly to the front sight base.



### 6. Front sight base

The front sight base takes up the sight components. He can be acquired alternatively with the Gehmann Eye-Xtender foresight iris (Eye-XT-520CN) alone, as well as in combination with the spirit level (Eye XT 581), or, however, the Gehmann 'Double-Cross' ring-thickening iris (Eye-XT-521FQ). The triangular polygon shafts admit a shifting area of max. 160 mm on the assembly rail if the assembly with the transformer muzzle side has occurred. For the assembly on Walther-rails (or sporting rifles with the same profile) balance bolts (see accessories) can be mounted to compensate for the dimension difference. As with the service the Speedlock clamping also belongs here to the basic equipment to allow the best possible ergonomics with the setting of the position or even the exchange of the whole sight assembly without tools to the operator. (Assembly of a cilium tape, see accessories).



## 7. Balance bolts

Four balance bolts serve the balance of dimension differences of the muzzle-sided assembly rail. In particular Walther-rails and construction same makes (e. g. , Tesro) are built in this part more narrowly. The balance bolts can be used in the front sight base and in the transformer muzzle side.



## 8. Tools

With belong to the scope of supply:

1x Inbus wrench 1.5 mm  
1x Inbus wrench 2.5 mm  
1x Torx wrench X6

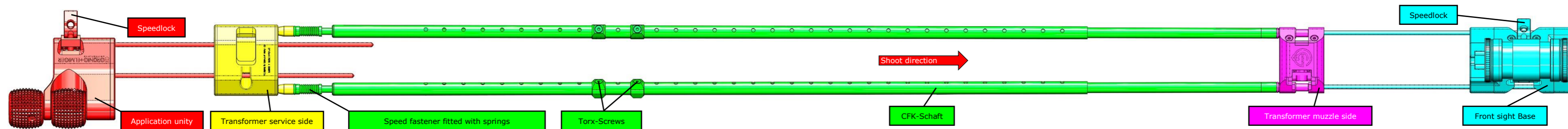
## 9. Anti-mirage strap (optionally available)

The Anti-mirage strap is separately available as an option for big caliber rifles. It is delivered with a special strap holder who is fixed directly on the front sight base. By the application of the strap holder, the Speedlock fastener on the front sight base is cancelled (must be exchanged with the parts added to the anti-mirage strap holder).



## Eye-Xtender configuration 1 for rifles with long assembly rail on the muzzle side

There are two different assembly possibilities of the Eye-Xtender. With the purchase you have acquired all parts for both variations.  
(the color is shown only to the better overview).

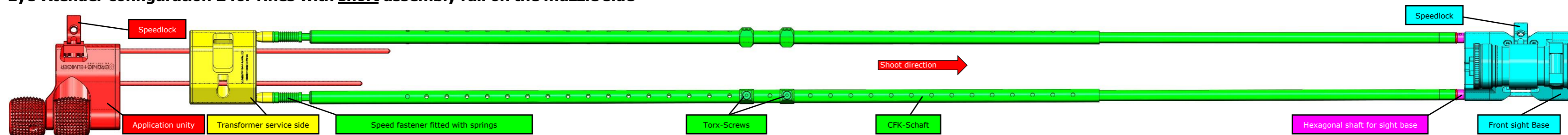


### Assembly

1. Fasten the **transformer service side** as far as possible to the front edge of the locking case. (only on straight segment mount)
2. Fasten the **transformer muzzle side** as far as possible to the rear edge of the muzzle-sided assembly rail.
3. Dismantle in each case four Torx-screws (tools is enclosed) in the **CFK-shafts**. Now the **CFK-shafts** can be shifted approx 300mm in the length.
4. Insert the first **CFK-shaft** between the both already mounted transformers (Speed fastener fitted with springs must lie at the locking case side). Pay attention to the fact that the part which is fitted with springs has driven possibly half of it if the **CFK-shaft** is properly pocketed in both hexagonals (both red rings must be got caught between the parts shortly).
5. Adapt the length of the **CFK-shaft** in such a way that the Speed fastener part is always under spring tension.
6. Mount all four screws again to the **CFK-shaft** (Screw with feeling pull).
7. Take the second **CFK-Shaft** and put the length with the help of first on the same measure.
8. Insert both **CFK-Shafts** between the transformers (first on the muzzle side and only then the springy part pocket).
9. Take the **application unity** to the hand and solve the assembly screw so far that you can push them on the assembly rail.

10. If they run both triangular poles carefully in the **transformer service side** (perhaps you must turn the wheels of the **application unity**, so that the poles can be introduced).
11. Press the Speedlock lever of the **application unity** down, and draw the assembly screw so far that you are just still able to solve the Speedlock lever of hand. Now the **application unity** can be pushed on the desired position and be fixed.
12. Take the **front sight base** (with which in each case ordered Sight) to the hand and solve the assembly screw so far that you can push this component on the front assembly rail.
13. If they run both triangular poles carefully in the **transformer muzzle side** (perhaps you must turn the wheels of the service unity, so that the poles can be introduced).
14. Press the Speedlock lever on the **front sight base** down, and draw the assembly screw so far that you are able to solve the Speedlock of hand just still (with big caliber rifles screw so firmly pull that the lever cannot be solved any more). Now the **front sight base** can be fixed on the desired position.
15. Now you can use the Eye-Xtender.

## Eye-Xtender configuration 2 for rifles with short assembly rail on the muzzle side

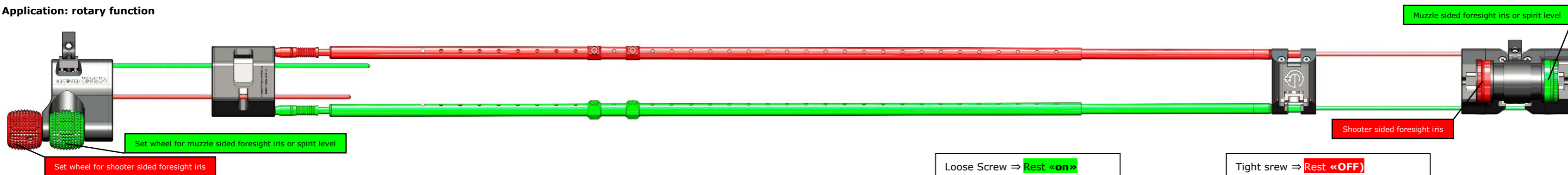


### Assembly

1. Fasten the **transformer service side** as far as possible to the front edge of the locking case. (only on straight segment mount)
2. Take the **front sight base** (with which in each case ordered Sight) to the hand and solve the assembly screw so far that you can push this component on the front assembly rail.
3. Press the Speedlock lever on the **front sight base** down, and draw the assembly screw so far that you are able to solve the Speedlock lever of hand just still (with big caliber guns screw so firmly pull that the lever cannot be solved any more). Now the **front sight base** can be fixed on the desired position.
4. Push the added **hexagonal shaft for sight base** on the triangular polygon shafts of the **front sight base**, so that the hexagonal looks to the locking case.
5. Dismantle in each case four Torx-Screws (tools is enclosed) in the **CFK-shafts**. Now the coach **CFK-shaft** can be shifted approx 300 mm in the length.
6. Insert the first **CFK-shafts** between the already mounted **transformer service side** and the **front sight base** (Speed fastener fitted with springs must lie at the locking case side).
7. Pay attention to the fact that the part which is fitted with springs has driven possibly half of it if the **CFK-shaft** is properly pocketed in both hexagonals (both red rings must be got caught between the parts shortly).
8. Adapt the length of the **CFK-shaft** in such a way that the Speed fastener part is always under spring tension.
9. Mount all four screws again to the **CFK-shaft** (Screw with feeling pull).
10. Take the second **CFK-shaft** and put the length with the help of first on the same measure.
11. Insert both **CFK-shaft** between **transformer service side** and **hexagonal shaft for sight base** (first on the muzzle side and only then the springy part pocket).
12. Take the **application unity** to the hand and solve the assembly screw so far that you can push this component on the assembly rail.
13. If they run both triangular poles carefully in **the transformer service** side (perhaps you must turn the wheels of the **application unity**, so that the poles can be introduced).
14. Press the Speedlock lever of the **application unity** down, and draw the assembly screw so far that you are just still able to solve the Speedlock lever of hand. Now the **application unity** can be pushed on the desired position.
15. Now you can use the Eye-Xtender.

## Functions and rest of the wheel

Application: rotary function



The application unity contains two set wheels. They are so arranged hierarchically that removed to the adjustment of **the front iris** (the shooter further), or of the spirit level must be turned **the front wheel** (green shown). For the setting of **the rear iris** (closer with the shooter) **the rear wheel** is used (red shown).

### Application: rest of the wheel on/off

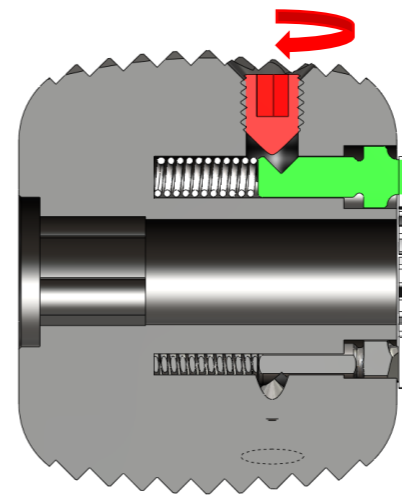
Both set wheels own in each case two rest elements (see pictures) on the right which are under the socket screws. The application unity can be used alternatively with or without rest function. Also it is possible to book only one single wheel with engage. Because per set wheel are obstructed two rest elements, even the intensity of the rest effect can be put, while one leaves alternatively only one rest element (half a strength), two rest elements (full strength) or no rest element switched on (without rest) per wheel.

Besides, merely the socket screw in the set wheel 1.5 rotations must be solved to the turning «on» of the rest (counterclockwise).

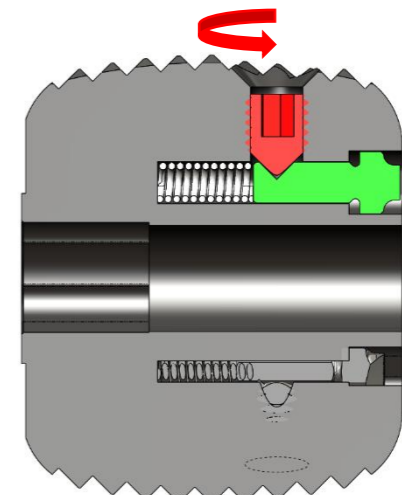
In order to switch «off» the rest the screw is screwed quite carefully, until a lighter restate is to be felt.

In switched «on» state corresponds a rest distance half a division line (0.05 mm) on the scale of the iris screen.

Loose Screw ⇒ Rest «on»



Tight screw ⇒ Rest «OFF»



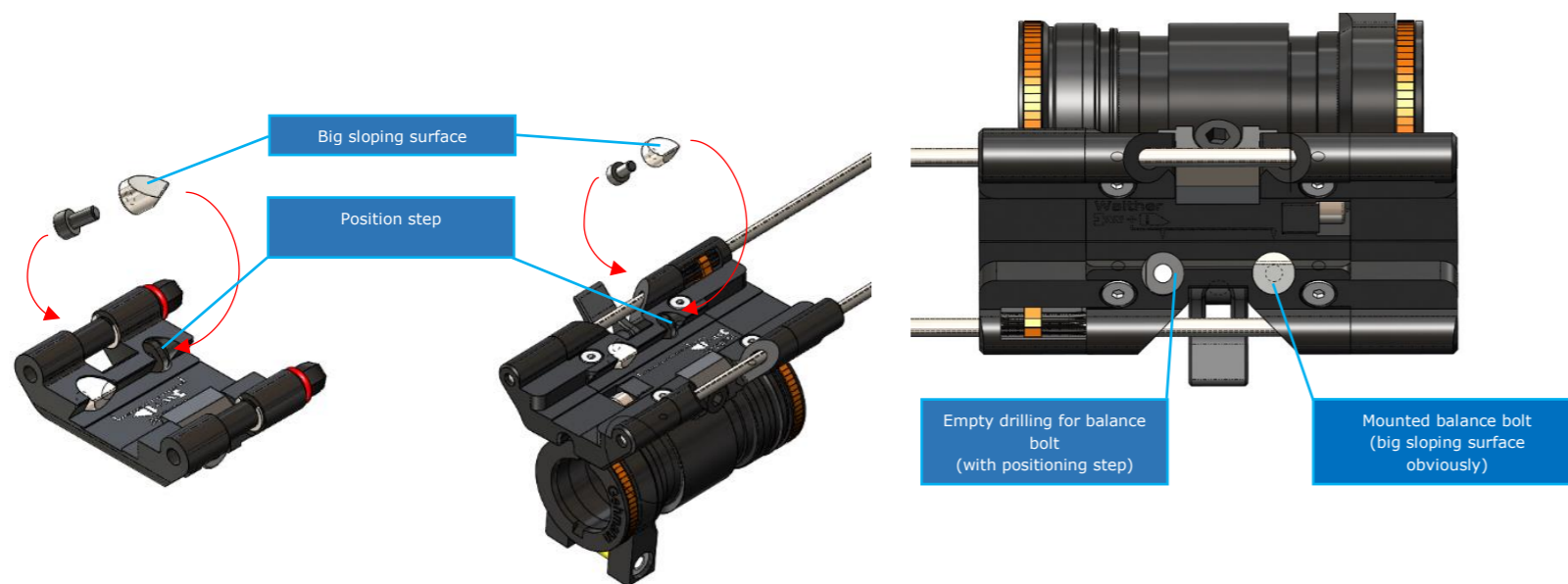
## Accessories: Assembly of the balance bolts

If you liked to use the Eye-Xtender on rifles of the brands Walther, Tesro or other makes with the same measuring of the muzzle-sided assembly rail, you'll need *the balance bolts*. These bolts compensate for the dimension difference of the Walther's rails and bring the *front sight base* in the middle of the rail. The *balance bolts* are mounted only in the *transformer muzzle side* and in the *front sight base*.

Please, use the *balance bolts* only if the *front sight base* cannot be clamped without these parts. Mount always all four *balance bolts*, or none.

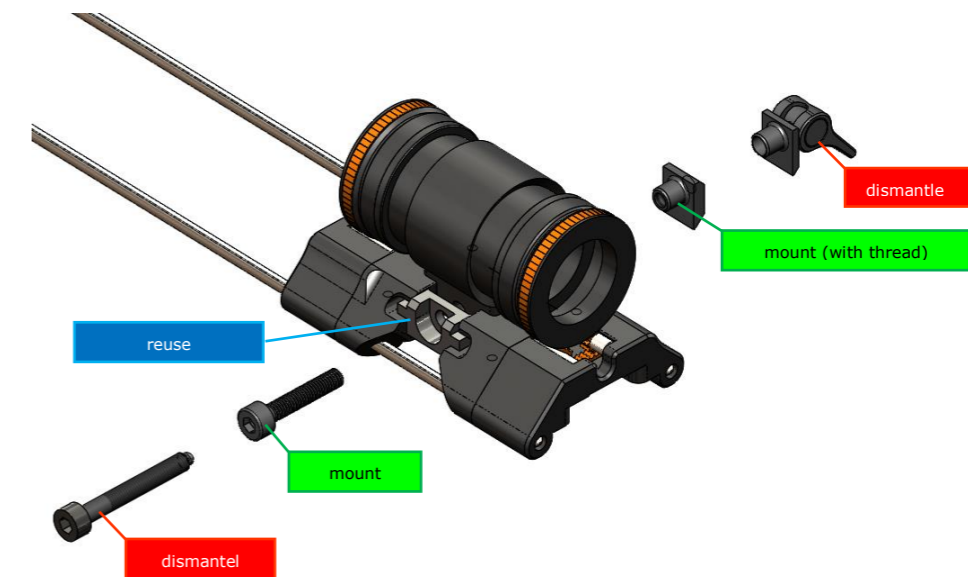
Put the *balance bolts* carefully from below so in the sloping drillings that the positioning step of the bolt with the step agrees in the drilling (resp. in such a way that the big sloping surface is visible from the outside). Push in the bolts of hand so far in the drilling that the big sloping surface is easily sunk.

Mount the provided screws with feeling from the other side.



## Accessories: Assembly of the Anti-mirage strap (optionally available)

The dismantling of the Speedlock fastener is necessary for the assembly of the *Anti-mirage strap*, because the lever with the *Anti-mirage strap holder* comes to conflict. Unscrew the clamp mechanism and mount, instead, the shorter, provided screw and the thread stone. The clamp stone and both feathers must be reused. The clamping on the assembly rail occurs exactly immediately like before.



Put both plugs of the Anti-mirage strap holder in the drillings on the outside of the front sight base. Screw the both with the Anti-mirage strap holder to delivered screws on the inside. Balance bolts cannot be used together with the Anti-mirage strap holder.  
Pay attention to the fact that the Anti-mirage strap does not touch the triangular polygon waves and the CFK-shafts in the area of the Anti-mirage strap brace, because, otherwise, a braking action can appear with the function of the Eye-Xtender.

