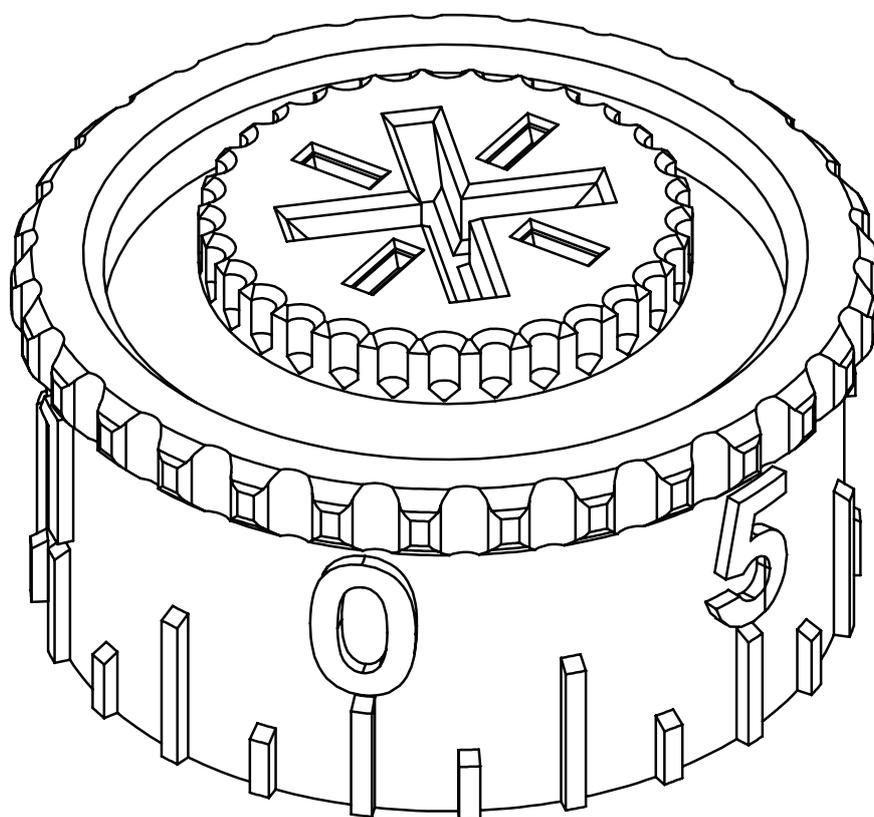


Competition shooter

'Pork Pie' elevation turret

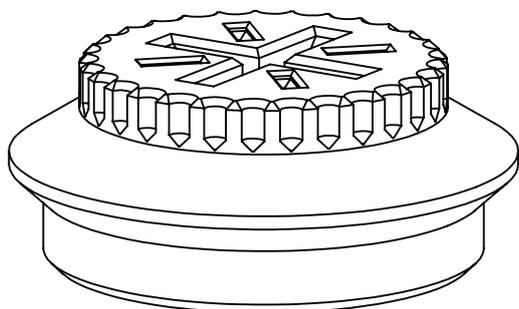
Bushnell Elite 8-32 x 40mm

Bushnell Elite 6-24 x 40mm



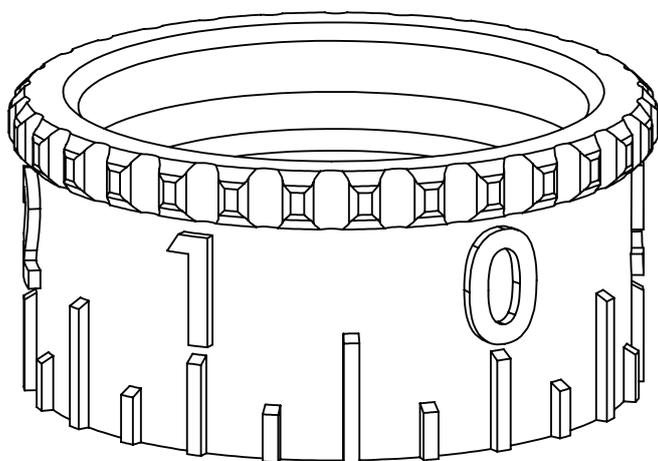
Instructions

Components



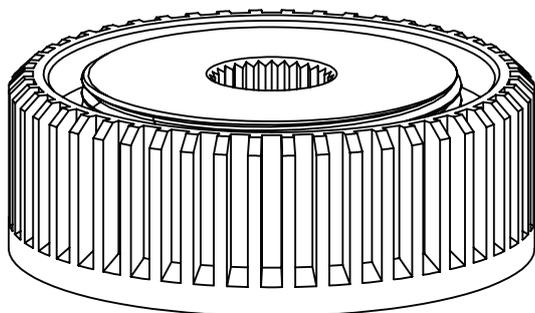
Turret cap

Also doubles as a wrench for the bottoming adjuster

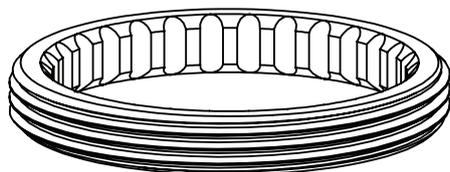


Turret dial

8 clicks between each number,
2 clicks between each line.
48 clicks in one revolution.



Turret boss



Bottoming adjuster

Features

The Bushnell Elite 8-32x40 telescopic sight has been used to great success in Field Target competitions for many years and continues to be the scope of choice for many competitors today.

The standard elevation turret for the Bushnell Elite is however sometimes difficult to read in the varied conditions experienced during an FT competition and it is often one of the first upgrades a competitor will wish to make to their scope.

The standard elevation turret is a small turret, held in place around a 30 point splined spindle with a thumb screw and shouldn't require any tools to remove.

One of the downfalls of the standard turret is that even though a complete revolution of the turret is 48 clicks, the 30 point splined spindle only allows for 30 possible positions. For this reason when resetting the standard turret you may find that the click increments on the turret don't align perfectly with your click marker.

Exact click alignment

The new Competition Shooter oversized turret features a boss which simply fits in place of the standard turret (using the existing standard thumbscrew to secure it in place) and an out turret dial with a 48 point spindle so that the turret can be accurately repositioned to line up with your click marker exactly for every click of the turret.

Resettable without tools

Shooting in varied atmospheric conditions can sometimes mean that Field Target competitors notice a slight change in zero from season to season and sometimes from one competition to the next!. This situation can be easily catered for by simply resetting your turret while on the zero range.

No tools are required for this, simply unscrew the Turret cap, lift off the Turret Dial and reposition it to your new zero position.

Adjustable 'Bottoming'

The Bushnell Elite has a limited range of MOA adjustment on it's elevation turret and as a result Field Target competitors often find that more than one turret revolution is required to dial in to the target distance.

This can pose a problem should the competitor forget to reset the turret to Zero before dialling for the next target. The competition shooter turret can be adjusted so that the turret will never be able to be turned lower than a set point (known as bottoming out the turret). Although this feature won't necessarily solve the problem of going a turn out on the turret, it does aid in the recovery from this mistake if it happens.

Simply turn the turret until it reaches it's bottomed out position and you can be sure that the turret is back to it's original 'zero' position.

Fitting

The replacement turret can be fitted in minutes to your scope while it's mounted and zeroed on your rifle.

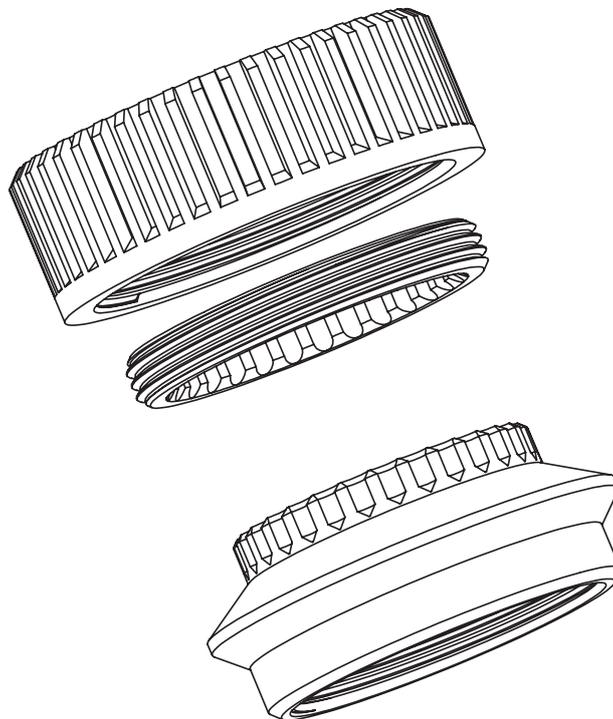
As the new replacement turret is much larger than the standard turret, you will probably need to add a click marker to the tube of your scope before replacing the turret. A common solution is to simply cut out a triangular piece of paper to act as a pointer and secure it to the scope tube with some waterproof clear sticky tape.

Removing the standard turret

1. Unscrew and remove the turret cap if this hasn't already been removed.
2. Unscrew the small 10mm thumb screw on top of the standard turret.
3. Lift the standard turret clear of the 30 point brass spindle, taking care not to click the dial as you do this.

Fitting the replacement Turret

Screw the 'Bottoming' adjustment spacer into the bottom of the turret boss using the top of the turret cap. If your turret is in it's approximate centre of travel position the bottoming adjuster should be flush with the bottom of the turret boss.



Fitting the replacement Turret (continued)

Gently press the Turret Boss (with bottoming adjustment spacer fitted) into the Turret Dial.

The splines will be a snug fit, it's easier to align the splines if you place the Turret boss on a flat surface and position the Turret dial over the boss and then press down until the Turret dial snaps into position.

The central hole in the Turret Boss has a 30 point spline that matches up with the 30 point brass spline on the Bushnell Elite. While taking care not to 'click' the turret settings, align the '0' position on the new Turret dial with your click marker and press the Turret dial and Turret boss into the brass turret spindle.

This will be a tight fit so you will need to apply firm pressure to fit this over the brass spindle.

Remove the Turret dial from the boss, leaving the boss attached to the brass spindle and secure the Turret Boss onto the brass spindle using the original 10mm turret thumb screw.

Now refit the Turret Dial to the Turret Boss to ensure that the '0' on the dial matches up with your click pointer. If it doesn't match perfectly, you may need to remove the dial and boss and refit. There are 30 possible positions for the Turret boss, but there are 48 clicks, so sometimes a little trial and error is required to match the two up.

Check your Bottom :)

With the Turret boss secured, the Turret Dial fitted to the boss and the Turret '0' aligned with your click marker, turn your turret clockwise. If you are able to turn the turret clockwise from 0 to 5 to 4 before the turret stops at the bottom adjuster then this is just about perfect. It's a good idea to allow some turret movement below '0' before the bottom adjuster is reached, just in case the bottom adjuster moves during a competition. Remember, the point of the bottoming adjuster is to give you a reference point on the turret so that you know that you are at the correct starting revolution, so it doesn't necessarily need to bottom out exactly at '0'.

If during a competition you believe you may have gone a complete turn out on the elevation turret, all you need to do is turn the turret clockwise until it bottoms out, then turn the turret anti-clockwise until you're back to your '0' again.

If you find that the bottom adjuster doesn't bottom out within about a quarter turn of the turret beyond your zero position. Return the turret to its '0' position (so that you don't lose the zero on your scope).

Remove the turret dial and turret boss and adjust the bottoming spacer (using the top of the Turret cap as a wrench) and repeat the steps to refit the Turret boss.

Fitting the replacement Turret (continued)

Once you have set the bottoming adjuster and your turret dial's '0' is aligned with your click marker you can secure the Turret dial in place by screwing the turret cap into the top of the Turret dial.

The thread is quite fine, and the turret is made of light weight plastic so you will need to be careful to make sure that the threads are aligned before gently tightening the turret cap to avoid cross threading the cap.

The Turret Cap doesn't need to be especially tight, finger tight is good enough.

Resetting the Turret

If you need to reset your '0', for example adding 4 clicks on.

Click the Turret dial the desired number of clicks so that the elevation turret clicks are set at what you would like to be your new '0' position.

Unscrew the Turret cap while being careful not to click the turret when you do this.

Remove the Turret dial and replace with the '0' aligned with your click marker and replace the Turret cap.

Problems?

A video demonstration of the procedure for fitting the replacement turret is available at <http://www.competitionshooter.co.uk>

If you have any questions or suggestions, the Competition Shooter website also includes a contact us form.