

BISON TACTICAL

Bison Tactical Tripod Brace Assembly Instructions

There are 2 different assembly methods depending on the type of tripod you have.

Terminology:

Apex – the location where the legs meet at the top of the tripod, and typically where the head attaches. The picture below is of a Really Right Stuff Ultralight tripod with a non-Tapered compact head. This is a conventional head in that it uses a 3/8"-16 male bolt protruding above the apex (which is used to attach the head to the tripod)



Below is a Feisol CT-3372L Apex

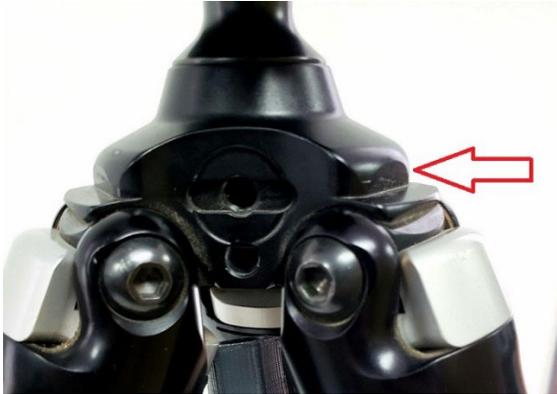


BISON TACTICAL

Install Option #1 - Tapered Apex (RRS proprietary)

If you use a Really Right Stuff TFCT-33, TFCT-34 or TFCT-34L which all have an Anvil-30 head with a compact tapered apex you will use Option #1 for the Tapered Apex.

Here is a picture of the compact tapered apex specific to the Anvil-30 when it comes pre-installed on the TFCT-33, TFCT-34 and TFCT-34L.



Install Option #2 - Conventional Apex (3/8 bolt and removable center)

If you use a more conventional Tripod with a 3/8"-16 bolt for attaching the head, you need to first verify the bolt is removable as not all manufacturers make it removable. Some have an apex which allows a plate to be removed from the apex (allowing the use of leveling bases among other things). Below is a conventional apex with the plate removed (and pointing to the set screws that retain the plate). Notice the threaded rod that penetrates the plate from below. This is required to be removable before progressing.



BISON TACTICAL

Assembly option #1: Tapered Apex



The Bison Tactical Shooting Tripod Brace for Tapered Apex includes:

1. Tripod Shooting Brace (machined black anodized aluminum)
2. 3/8-16 wing nut
3. Quick Release knurled 3/8-16 nut
4. Gray 3D printed Hex sleeve
5. Tapered apex threaded rod (black anodized aluminum)

BISON TACTICAL

Step 1 - Locate and remove the stainless threaded pin under the Tapered Apex.



Step 2 – Strengthen the Tapered apex threaded rod

Screw the Gray 3D printed Hex sleeve onto the tapered apex threaded rod, until the holes are perfectly aligned. There are 2 holes drilled in the rod to allow for breakage (this part is fairly fragile). Additionally, the holes are drilled at a different point on the rod to allow for different alignment options. The Hex sleeve also allows for different alignment options by having the hole asymmetrically positioned on the length of the sleeve. Thread the sleeve onto the rod so that the holes are aligned, and test the fit with the stainless threaded pin you just removed in step #1.



BISON TACTICAL

Step 3 – Fit the Assembled Tapered Apex threaded rod to the apex.



Insert the assembled (strengthened) Tapered apex threaded rod between the legs of the tripod and re-install the stainless threaded pin through the aligned holes in the assembled tapered apex threaded rod. The assembled tapered apex threaded rod can move along the stainless pin, but will not have a lot of movement, and should freely rotate around the pin.



The rod should extend beneath the tapered apex as pictured above.

BISON TACTICAL

Step 4 – Affix the brace to the tapered apex threaded rod. (2 options)



Using the above three parts, there are 2 configuration options. Additionally, the wing nut provides a backup.

BISON TACTICAL

Configuration 1: Quick Release knurled 3/8-16 nut



Begin by removing the plastic fastener from the adjustable latch mechanism.



Slide the Tripod Shooting Brace to the appropriate place on the threaded rod, then slide the Quick Release knurled 3/8-16 nut flush beneath it. This is the recommended configuration for those wishing to adjust quickly on the fly.

BISON TACTICAL

**Note, the spring in the Quick Release knurled 3/8-16 nut is not captured and if you drop the Q/R nut on the ground you may lose the spring or some parts. Please be careful.

Configuration 2: Wing Nut



Just as with configuration 1, slide the Tripod Shooting Brace to the appropriate place on the threaded rod. Then, screw the wing-nut plum to the underside of the brace to fasten it in place.

BISON TACTICAL

Assembly Option #2 – Conventional Apex



The Bison Tactical Shooting Tripod Brace for Conventional Apex includes:

1. Tripod Shooting Brace (machined black anodized aluminum)
2. 3/8-16 jam nut
3. 3/8-16 wing nut
4. Quick Release knurled 3/8-16 nut
5. Conventional Apex threaded rod (12" Steel zinc plated) [test fit before cutting]

**** We included this oversized to allow customer to cut to fit their tripod length. Apex sizes vary greatly so the distance the Tripod brace ends up from the apex can also vary. It might also be possible**

BISON TACTICAL

your Apex is too wide and the brace will not fit (it may be too small if your tripods apex is too large).

Step 1 – Remove the threaded 3/8-16 factory bolt from the apex

****Note – this step is going to be very dependent on the tripod manufacturer.**

Below is pictured a Really Right Stuff TFCT 33 Mark 1 Conventional apex which was removed from the legs.



Depending on your model you can remove the plate to make removing the bolt easier. Please refer to your tripod owner's manual to determine how to remove this part.

BISON TACTICAL

Step 2 – Thread the conventional apex threaded rod through the Apex



Thread the conventional apex threaded steel rod through the apex plate, until a quarter inch (approximately) of rod is visible on the other side. Thread the jam nut on the underside until it is flush with the apex plate. Tighten it against the plate to fasten the rod in place.

Step 3 – Test fit your ball head to the apex



BISON TACTICAL

Step 4 – Assemble the brace (legs are invisible in below pictures).



Slide the aluminum brace to the appropriate place on the threaded rod, and refer to configurations 1 and 2 (step 4) from Assembly Option #1 to decide whether to use the wing-nut or quick release latch fastening method.

Step 5 – Cut to fit conventional apex steel rod after confirming fit