

2023 DualSync TEMPEST E-3D TECHNICAL BULLETIN, 010923R13

The **NEW Tempest E-3D** uses a unique cable and yoke system that equalizes the torsional stress in the limbs. This results in a more forgiving bow to shoot. With yoke cables anchoring at the axle, outside of the limbs, it maximizes the balancing effect of the yoke system while reducing the load on the cam bearings. Adjusting the yokes can also assist in tuning the bow to your style of shooting. These features also make it an easier bow to service and tune.

Equalizing yoke system covered by patent 8,826,894 B1

The **Tempest E-3D NEW Quad Limbs and Riser design**, coupled with its **DualSync Cams** and **E-System** provides a new level of Shoot-ability not before obtainable. This has been enhanced with the use of **DARTON's low mount Bowstring Suppression Unit**. The bumper should be adjusted so there is some clearance between it and the bowstring. If there is no gap between the bowstring and the bumper, your bowstring may be deflected and slide off the bumper affecting the shot. The clearance is adjusted by loosening the set screws and then moving the rod in or out accordingly. **Anytime the limbs are adjusted, an inspection should be made to the bumper to assure its correct position relative to the bowstring.** Apply bowstring wax to the bowstring in the area that it aligns with the suppressor bumper for best results.

An additional 5/16-24 threaded hole is provided below the Bowstring Suppression Unit for mounting additional accessories such as a counter-balance system or field camera.

Each **DualSync** bow has an adjustable peak weight range of up to 10 pounds. Be sure the (2) screws used to lock each of the pivoting limb pockets in place are loosened (1/2 turn). After you are certain all adjustment locking screws have been loosened, tighten limb bolts **ClockWise (CW)** so the limbs are evenly adjusted. Count the bolt turns while tightening the limbs for later reference if you want to readjust the limbs. A maximum of 7 **Counter ClockWise (CCW)** turns from tightened position is recommended; more than 7 **Counter ClockWise (CCW)** turns will cause the screws to bind in the adjustment slot at the side of each limb pocket and may cause damage to the bow. Be sure to re-tighten all adjustment-locking screws when limb adjustment is completed. **DualSync Cams covered by patent 6,990,970 & 8,662,062 B2**

No bow press is required to change the draw lengths of **DualSync** bows. The only requirement is to have a 1/8" hex wrench to loosen and tighten the adjustable module screws. Refer to the accompanying chart to determine the correct module adjustment for the required draw length. Improved by the use of the **ACURA CABLE SLIDE**, there is no need to retune the bow after the draw length is changed. If cables and/or cable guard slide are removed for any reason, be sure to replace the cables in their original positions as this will affect the way the power cables and yoke cables track in their respective grooves.

DARTON has included their patented **Tuning Mark System** on all **DualSync** bows to assist the individual shooter to achieve optimum performance. By lining up the power cables between the tuning lines on each cam, you can achieve the advertised draw lengths and performance. The cable lengths are adjusted by placing the bow in a press to remove tension from the cables. The cables are then adjusted by twisting to make them shorter, untwisting to make them longer. If they are not lined up or in the same relative position on each cam, you will lose some draw length and stored energy. Be sure the axle-to-axle measurement is checked after the bow is tuned. The correct axle-to-axle measurement will ensure excellent performance.

DARTON's Progressive Torque Reduction Fiber Glass Cable Guard Rod is designed to enhance the shootability of your **DS** Series bow. By flexing inward as cable tensions increase during your draw cycle it can allow more rod offset for better vane clearance when your vanes pass the cables. You do not have to adjust the cable guard rod in or out to compensate for any change in peak weight adjustment or draw length.

3 different sets of Draw Stop Tabs are included with each bow for an adjustment to the module draw stops for less let-off.

If there is any noise caused from the draw stop contacting the power cable, or if you choose to soften the feel of contact, position one of the felt adhesive-backed pads included with each accessory package on the end of the draw stop.

In addition to the draw lengths listed below there are also 1/4" adjustments between each numbered adjustment. There is also an adjustable limb stop located on the perimeter of the cam that allows fine-tuning of the draw length and let-off. It is recommended you use only one limb stop. **Mass Weight: 5.1 lbs., Speed Rating: 320-325 fps** (5g./lb. peak weight @ 30")

w/100 pounds tension											
Adj. mark w/G1 module	#1	#2	#3	#4	#5	#6	Axle – Axle	Brace Height	Bowstring	Power Cable	Yoke OAL
			Draw lengths								
Tempest E-3D	25"	26"	27"	28"	29"	30"	36"	6 ½"	57 15/16"	30 5/16"	20 3/8"

For additional warranty or tuning information visit our web site www.dartonarchery.com or call Darton Service at 989-728-9511. To order parts, draw length modules or Darton Apparel call Darton Service at 989-728-4231.

Before pressing bow, back limbs out 4 turns from MAX setting. Darton's warranty does not cover damage to any bow caused by improper use of a bow press.