

## 2024 DualSync DEPARTURE TECHNICAL BULLETIN, 081423R1

The **Darton DEPARTURE**, with its **NEW Wide Limbs and Riser design** uses its 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**

**Darton's NEW Quad Limb design** coupled with its **NEW DualSync Cams and E-System** provides a level of Smoothness and Shoot-ability not before obtainable. This is enhanced with the use of DARTON's Bowstring Suppression Unit.

Additional 5/16-24 threaded accessories holes are provided for mounting accessories such as a counterbalance system or additional counterweights.

Available draw weights of 40, 50, 60 and 70 lbs. with an adjustment 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**

Improved by the use of the **Darton Roller Guard**, there is no need to retune the bow after the draw length is changed. If cables and/or roller guard are removed for any reason, be sure to replace the cables in their original positions as this affects 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 in achieving 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.

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

\*Draw lengths as shown are with the #3 tab. With the #3 tab let off is 65%.

\*With no tabs the let-off is approximate 75%, and the draw length is approximately 3/8" longer. The #1 & #2 tabs have less effect on let off and draw length.

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.

**Each bow is shipped with the #3 modules installed. Additional mods may be purchased separately.**

\*In addition to the draw lengths adjustment listed below there are also 1/4" adjustments between each number shown.

Adj. mark	#0.5	#1.0	#2.0	#3.0	#4.0	#5.0	#6.0	#7.0
			<<<<<< Draw lengths >>>>>>					
#5.0 modules, 31.0" – 32.0"							31.0" --- 32.0"	
#4.0 modules, 30.0" – 31.0"						30.0" --- 31.0"		
#3.0 modules, 28.0" – 30.0"				28.0" --- 29.0" --- 30.0"				
#2.0 modules, 26.75" – 28.0"			27.0" --- 28.0"					
#1.0 modules, 26.0" – 26.75"		26.0"						
#0.5 modules, 25.25" – 25.75"	25.5"							

**Mass Weight: 4.9 lbs., Speed Rating 325 fps** (5g./lb. peak weight @ 30")

Bowstrings and Power Cable measurements are with twist. Add or subtract twist in Bowstring or Power Cables to get correct tune and axle to axle measurement. Axle – Axle tolerance is +/- 1/16". Measurements are with 100 lbs. tension.

Axle to Axle	Brace height	Bowstring	Power Cables	Yoke OAL
37"	7"	63 1/16"	30 1/8"	20 3/8"

For additional warranty or tuning information visit our web site [www.dartonarchery.com](http://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.**