

# 2023 DualSync Prelude E-32 TECHNICAL BULLETIN\_ 010523r5

**Darton's NEW Prelude E-32** uses an upgraded **Wide** Quad Limb design, coupled with the DualSync Cam System incorporating the unique **Equalizer System**, to provide a level of **Shoot-ability, Performance and Tune-ability** not obtainable before.

The bow incorporates **DARTON's low mount Bowstring Suppression Unit for additional smoothness. 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 aligns with the suppressor bumper for best results.

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. **Cams covered by patent 6,990,970 & 8,662,062 B2**

Included with each **Prelude** is **DARTON's NEW R.C.M. (Resonance Control Module)** used to dampen all residual resonance after the shot.

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

No bow press is required to change the draw lengths of **DualSync** bows. The only requirement is a 9/64 Allen Wrench to **adjust the modules**. Refer to the accompanying chart to determine the correct adjustment for the required draw length. There is no need to retune the bow after the draw length is changed.

If cables and/or cable roller guard 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, marked **R** on the cam for right hand bows and **L** for left hand bows, 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** adjustable **Cable Roller Guard Rod** is designed to enhance the smoothness and shoot-ability of your DS Series bow. It allows adjustment to assure adequate cable offset for better vane clearance when your vanes pass the cables. Excessive cable offset can cause cable clearance problems elsewhere. You do not have to adjust the roller guard rod in or out to compensate for any change in peak weight adjustment or draw length.

3 sets of Draw Stop Tabs are included with each bow for an adjustment to the module draw stops for less let-off. (#1) -3% LO, -1/8" DL, (#2) -5% LO, - 3/16" DL, (#3) -8%LO, -1/4" DL.

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 **1/4" adjustments** between each numbered adjustment., i.e., 1.0, 1.25, 1.5, 1.75, 2.0. Maximin draw length using 80% mod at 4 = 30" Draw, **Mass weight: 4.95 lbs., Speed Rating: 342-347 fps** (5g./lb. peak weight @ 30")

Adjustment with	#1	#2	#3	#4	w/100 pounds tension				
					Axle-Axle	Brace Height	Bowstring	Power Cable	Yoke
80% let-off mods	27"	28"	29"	30"	32"	6.00"	64 13/16"	25 1/2"	14"

Bowstrings and Power Cable measurements are with twist. Add or subtract twist in Power Cables to get correct tune.

Yoke cables for the Veracity 35 measure 13 15/16". Axle - Axle tolerance is +/- 1/16".

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.**