

## 2016 DualSync VEGAS 3D TECHNICAL BULLETIN, 022216R3c

Each **DualSync Pro Series** 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 **Clock Wise (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 4 **Counter Clock Wise (CCW)** turns from tightened position is recommended; more than 4 **Counter Clock Wise (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 U.S. patent 6,990,970

No bow press is required to change the draw lengths of **DualSync** bows. The only requirement is to replace the modules. Refer to the accompanying chart to determine the correct module for required draw length. There is no need to retune the bow after the draw length is changed.

**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 assure excellent performance.

Darton's Quad Limb design coupled with its DualSync Cam System provides a new level of smoothness not obtainable before. This has been enhanced with the use of **DARTON's Dual mounted Bowstring Suppression Units. The bumpers should be adjusted to just touch the bowstring.** If there is too much of a gap between the rod end and the inside of the bumper, your bowstring may be deflected and slide off the bumper. The **BSSU** is adjusted by loosening its jam nut and then rotating the rod in or out accordingly to position the bumper relative to the bowstring. **Anytime the limbs are adjusted, an adjustment should be made to the BSSU for correct bumper position relative to the bowstring.** Apply bowstring wax to the bowstring in the area that aligns with the suppressor bumper for best results.

**DARTON's NEW SHOOT THROUGH RISER** offers the shooter features never before available. Because of the way the Dual Sync Cams and attached cables are utilized there is no torque introduced into the limbs or riser during the draw cycle. To take maximum advantage of this design the riser has been designed to minimize the effect the shooter can have on the shot. The grip has been designed for the precision shooter. One of the many attributes of the grip is the way it's as close, vertically, as practical to the center line of the arrow to minimize its effect on the shoot. Arrow/vane clearance has been maximized to allow the greatest choice of arrow set ups. The launch of the arrow was considered in its design to maximize the use of a blade type arrow rest, the choice of most precision shooters.

For those shooters that want a little more arm to cable clearance there is a **choice of 3 different cable slides.** The #1 slides, installed on the bow when shipped, gives maximum vane clearance, the #2 slides decrease vane clearance to get more arm clearance, and the #3 slides give maximum arm clearance at the expense of some vane clearance. See what works best for you.

The Vegas draw modules comes with draw stop adjustment modules that reduce the amount of let-off by 3-8%, while the draw length is shortened approx. 1/8". 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.

There is a **secondary way to adjust the feel of the draw-stop/valley.** Perimeter slots on the cams allow you to **adjust the stops that make contact with the let-out cables.** This allows you to create the feel you want as you approach you stationary draw stops on the modules. The use of 1 stop creates a softer approach than the use of 2 stops.

In addition to the draw lengths listed below there are also 1" modules available, i.e. 1.5, 2.5, 3.5, 4.5, 5.5 & 6.5

Modules - Model	#0.5	#1	#2	#3	#4	#5	#6	#6.5	#7	Axle-Axle	Brace Height	w/100 pounds tension		Mass Weight
												Bowstring	Power Cable	
Vegas 3D (78%)		25.5"	26.5"	27.5"	28.5"	29.5"	30.5"	#31.0	31.5"	37 3/16"	7 1/8"	61 13/16"	41 1/8"	4.6 lbs.
Vegas 3D (65%)	25"	25.5"	26.5"	27.5"	28.5"	29.5"	30.5"	#31.0						

Add or subtract twist in Power Cables to get correct tune. Axle – Axle tolerance is +/- 1/16".