

2013 DS-600 DualSync TECHNICAL BULLETIN, 032913R6

Each **DualSync** bow has an adjustable peak weight range of 10 pounds. To adjust peak weight, **first** tighten your limb bolts down to be sure the limbs are adjusted evenly. Count the turns when you tighten the limbs down so you know where you started. A maximum of 5 **Counter Clock Wise** turns from the tightened position is recommended, more than 5 turns and the bow will not perform as advertised. Too many turns and the bow could become un-safe. DualSync Cams covered by patent 6,990,970

No bow press is required to change the draw lengths of a **DualSync** bow. All you need to do is swap modules. Refer to the accompanying chart to determine the correct module for your draw length. There is no need to retune the bow after the draw length is changed. If you have a need to remove your cables or cable guard slide be sure to replace them in their original positions or it will affect the way the power cables track in their respective grooves.

DS-600 DualSync bows include an adjustable draw stop on the upper cam. This draw stop allows you to vary the draw length and/or let-off in small increments. As you decrease the draw length, the amount of let-off will also decrease. With an adjustment of approximate $\frac{1}{4}$ inch, you can vary the let-off from 65% to 75%. It is recommended that the draw stop be positioned in its slot, loose enough that it can slide, short of the desired draw length. Once you draw the bow and the draw stop has slid to its desired position let the bow down and tighten the draw stop. Having only one draw stop is not a problem with the **DualSync** cam design. When one cam stops the other cam stops, no option. If there is any noise caused from the draw stop o-ring contacting the limb, 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 upper limb at the point of contact.

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 low mount Bowstring Suppression Unit**. **The bumper 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 **BNSS** is adjusted by loosening its set screw and then moving 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 BNSS 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 has included their patented **Tuning Mark System** on all **DualSync** bows to assist the individual shooter/tuner in getting optimum performance. By lining up the power cables between the tuning lines on each cam, you will get the advertised draw lengths and performance. The cable lengths are adjusted by first putting the bow in a press to remove tension from the cables. The cables are then adjusted by twisting to make them shorter and 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. The shoot-ability will remain the same. Be sure the axle-to-axle measurement is checked after the bow is tuned. The correct measurement will assure good performance.

A complete set of draw length modules is shipped with each bow. The chart below list the draw length for each module set when used.

MODEL	module #1	#2	#3	#4	#5	#6	Axle – Axle	Brace Height	w/100 pound tension	
									Bowstring	Power Cable
DS-600	25"	26"	27"	28"	29"	30"	31 3/8"	7 1/2"	54 7/8"	36"

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

Refer to information provided with each bow on the correct use of a bow press.

Darton's warranty does not cover damage to any bow caused by improper use of a bow press.