

2015 RECRUIT DualSync TECHNICAL BULLETIN, 101414R4

The **RECRUIT** DualSync bow has an adjustable peak weight range. The **30 lb. model** is adjustable 20 – 30 lbs., the **50 lb. model** is adjustable 35 – 50 lbs. To adjust peak weight, **first** tighten your limb bolts down to be sure the limbs are evenly adjusted. Count the turns when you tighten the limbs down so you know where you started. A maximum of 7 **Counter Clock Wise** turns from the tightened position is recommended, more than 7 turns and the bow will not perform as advertised. Too many turns and the bow could become un-safe. An inspection hole shows the amount of threads remaining at the end of each limb bolt. Do not shoot the bow unless at least one thread is visible.

No bow press is required to change the draw lengths of a **DualSync** bow. With the **RECRUIT**, all you need to do is **change 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 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.

RECRUIT cams include 2 anchor post for the bowstring on each cam, A & B. Using the A post on each cam will give you the draw lengths listed below. Using the A post on one cam and the B post on the other cam will result in approx. ½” shorter draw. Using the B post on both cams will result in approx. 1” shorter draw. Shortening the draw length this way will also lower the peak weight adjustment range. You do not have to re-tune your bow after changing anchor posts.

Darton’s Parallel Limb Design coupled with its DualSync Cam System provides satisfying smoothness with each shoot. 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 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. Apply bowstring wax to the bowstring in the area that aligns with the suppressor bumper for best results.

DARTON includes 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 module when using **bowstring anchor post “A”**, you will get the advertised draw lengths and performance. When using **bowstring anchor post “B”**, use the tuning marks labeled “B” on the cam. A bow press is required to change bowstring anchor post. 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 module, 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. **Anytime the Bowstring Anchor Post are changed, an adjustment should be made to the BNSS for correct bumper position relative to the bowstring.**

Remove the screws from each module to change draw length. Re-position the correct module for your draw length, replace screws and tighten. The chart below list the draw length obtained with each set of modules when using the “A” bowstring anchor posts.

Module choice	#1	#2	#3	#4	#5	#6	Axle – Axle “A” post	Brace Height “A” post	w/100 pound tension	
									Bowstring	Power Cable
Draw length	22”	23”	24”	25”	26”	27”	28 ½”	6 ¾”	48 ¾”	32 ¾”

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.