

2017 RANGER QUAD, DualSync TECHNICAL BULLETIN 090816R2

The **RANGER QUAD** DualSync bow has an adjustable peak weight range. The **60 lb. PEAK WEIGHT** is adjustable 25 – 60 lbs. To adjust peak weight first tighten your limb bolts down to be sure the limbs are even. Count the turns when you tighten the limbs down so you know where you started from. A maximum of 8 **Counter Clock Wise** turns from the tightened position is recommended, more than 8 turns and the bow will not perform as advertised. Too many turns and the bow could become un-safe. An inspection slot 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 **RANGER QUAD**, 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.

QUAD 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. Whenever using the “B” post you need to adjust the length of the Bow String Suppressor rod accordingly. A complete set of draw length modules are included with each bow, 1 – 6.

Darton’s Parallel Limb Design coupled with its DualSync Cam System provides satisfying smoothness with each shot.

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, or the cam, 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.

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. The draw length and let-off can be tweaked by using the cams perimeter limb stop adjustment. Draw stop marks indicate approx. 78% let-off. Total draw length adjustment range is 21 ½” to 27”.

Module choice	#1	#2	#3	#4	#5	#6	Axle – Axle “A” post	Brace Height “A” post	Bowstring Power Cable			
Draw length	Draw length – “A” post 22 ½”, 23 ½”, 24 ½”, 25 ½”						26 ¾”	28”	28”	7”	47 5/8” ”	32 1/8”

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.

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.