2010 PRO SERIES DualSync TECHNICAL BULLETIN, 121713R7a

Each **DualSync** bow has an adjustable peak weight range of up to 10 pounds. To adjust peak weight, be sure set screws in limb washers are not tight. Next, 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 **C**lock **W**ise (**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 **C**ounter **C**lock **W**ise (**CCW**) turns from tightened position is recommended; more than 4 **C**ounter **C**lock **W**ise (**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. CPS - DualSync Cams covered by 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. If cables and/or cable guard slide 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 cable 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, 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**.**

A new level of smoothness and bowstring dampening is achieved with **DARTON's Bowstring Suppression System** that is included on most **PRO SERIES BOWS**. The mounting bracket is attached to the cable guard rod and is easily adjusted by loosening the (4) set screws that secure the bracket. This adjustment should be made to enhance clearance of peep sight and kisser button. **The bumper should be adjusted to just touch the bowstring.** There is a collar installed on the rod that supports the bowstring bumper. This collar is adjusted to absorb the impact to the rubber bumper instead of the rod end to extend the life of the bumper and 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. Be sure to re-tighten the set screws in the bracket and collar if any adjustments are made. Apply bowstring wax to the bowstring in the area that aligns with the suppressor bumper for best results. The BNSS is covered by patent 5,720,269. A low mount Bowstring Suppression Unit is also available as an accessory for those who may prefer to use it alone or in combination with the standard unit. The low mount BNSS bumper does not require the use of a collar. **Anytime the limbs are adjusted an adjustment should be made to the BNSS for correct bumper position relative to the bowstring.**

Each Pro Series bow includes a 2nd set of grips for those who prefer a smoother, smaller feel.

In addition to the draw lengths listed below there are also ½" modules available, i.e. 1.5". 2.5", 3.5", 4.5", & 5.5". The Pro 2500, 3500, 3800 & 5000a come with a draw stop adjustment attachment that changes the let-off to 65%, 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.

									w/100 pounds tension		
Modules - Model	#1	#2	#3	#4	#5	#6	#7	Axle – Axle	Brace Height	Bowstring	Power Cable
			Draw lengths								
PRO 1100	25"	26"	27	28"	29"	30"		31 3/8"	7.00"	55 7/16"	30 1/4"
PRO 2500S	26"	27"	28"	29"	30"	31"		33 13/16"	7.00"	59"	32 11/16"
PRO 3500SD	23"	24"	25"	26"	27"			33 13/16	6.00"	54 5/16"	31 3/4"
PRO 3500S	25"	26"	27"	28"	29"	30"		33 13/16"	6.00"	59"	32 11/16"
PRO 3800QL	25"	26"	27"	28"	29"	30"	31"	33 13/16"	6.00"	59 3/4"	32 11/16"
PRO 4000GT	27"	28"	29"	30"	31"	32"		37"	7 .75"	60 1/4"	35 3/4"
PRO 5000T-a	27"	28"	29"	30"	31"			39 1/4"	8.625"	58 5/16"	37 1/8"
PRO 5000T-b	28-1/2"	29-1/2"	30-1/2"	31-1/2"	32-1/2"	33-1/2"		39 1/4"	8.75"	62 5/16"	37 11/16"

Bowstrings measurements are with twist, Power cable measurements are without twist. Add (8-12) twist to Power Cables to get correct tune.
All yoke cables measure 14" except the 3500SD, which measures 14 1/2".