

## 2009 PRO SERIES 2-1/2 CAM TECHNICAL BULLETIN, 12128R2d

Each **2-1/2 CAM** bow has an adjustable peak weight range of 10 pounds. To make an adjustment to peak weight **first** make sure the set screws in the limb washers are not tight. Next you need to 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 you want to tighten your limbs **Clock Wise (CW)** to be sure they are adjusted evenly. Count the bolt turns when you tighten the limbs down so you know where you started. A maximum of 4 **Counter Clock Wise (CCW)** turns from the 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.

CPS- G2 Cams covered by patent 6,990,970

No bow press is required to change the draw lengths of a **2-1/2 CAM** 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 occasion to remove your cables or cable guard slide be sure to replace them in their original positions as it will affect the way the power cables and yoke track their respective grooves.

**DARTON** has included their patented **Tuning Mark System** on all **2-1/2 CAM** 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 new level of smoothness and sound dampening is achieved with **DARTON's new Bowstring Suppression System** that is included with most **PRO SERIES BOW**. The mounting bracket is attached to the cable guard rod and is easily adjusted for bowstring clearance and alignment by loosening the 4 set screws that secure the bracket. There should be a **1/16"-1/8" gap** between the bowstring and bowstring bumper for best results. This allows for maximum bowstring life and use of bowstring accessories. Be sure to re-tighten the set screws in the bracket when adjustment is completed. Apply the bowstring wax that is included with your bow to the bowstring in the area that aligns with the suppressor bumper for best results. BNSS covered by patent 5,720,269

Each Pro Series bow (except the PRO 3000) includes a 2<sup>nd</sup> set of grips for those that prefer a smoother, smaller feel.

**Prior to setting up your bow be certain the MOLDED draw modules that were shipped on your bow have been replaced with machined modules of your correct draw length.** In addition to the draw lengths listed below there are also 1/2" modules available, i.e. 1.5, 2.5, 3.5, 4.5 & 5.5. The Pro 2500, 3500 & 5000a come with a draw stop adjustment attachment that changes the let-off to 65%, 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.

Modules - Model	#1	#2	#3	#4	#5	#6	Axle – Axle	Brace Height	w/100 pounds tension	
									Bowstring	Power Cable
PRO 1000	25"	26"	27"	28"	29"	30"	31 3/8"	7.00"	55 5/8"	30 3/16"
PRO 2500S	26"	27"	28"	29"	30"	31"	33 13/16"	7.00"	59 3/16"	32 1/2"
PRO 3000	25"	26"	27"	28"	29"	30"	34 3/8"	6.25"	58 1/2"	33 3/16"
PRO 3500S	25"	26"	27"	28"	29"	30"	33 13/16"	6.00"	59 3/16"	32 1/2"
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"