

2012 DualSync 2800/4500 TECHNICAL BULLETIN, 013121R2

Each **DualSync** bow has an adjustable peak weight range of up to 10 pounds. 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 **Clock Wise (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 **Counter Clock Wise (CCW)** turns from 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. 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.

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 **BSSU** is adjusted by loosening its jam nut and then rotating 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 BSSU 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's NEW Progressive Torque Reduction cable guard rod is designed to enhance the shootability of your DS Series bow. By reducing torque to the limbs as cable tensions increase during your draw cycle and allowing more rod offset for better vane clearance, you will notice the advantages right away. To take maximum advantage of this design be certain your cable rod is adjusted to allow the cable slide to move in toward the center of the bow during your draw cycle. If your limbs are backed out to reduce peak weight you may have to adjust the cable guard rod out to compensate for the change in brace height.

Each DualSync 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 1/2" modules available, i.e. 1.5, 2.5, 3.5, 4.5 & 5.5

The DS 2800 & 4500 come with draw stop adjustment modules that changes the let-off down 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.

Modules - Model	#1	#2	#3	#4	#5	#6	#7	Axle – Axle	Brace Height	w/100 pounds tension	
										Bowstring	Power Cable
DS 2800	25"	26"	27"	28"	29"	30"		31 1/4"	7.00"	55 3/4"	30 1/4"
DS 4500	26"	27"	28"	29"	30"	31"	32"	38 1/2"	7 1/2"	63 1/4"	36 3/8"

Bowstrings measurements are with twist, Power cable measurements are without twist. Add (8-12) twist to Power Cables to get correct tune. Yoke cables for the 2800 measure 14", for the 4500 they measure 14 1/2". 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.

2012 DS-600 DualSync TECHNICAL BULLETIN, 111011R3d

Each **DualSync** bow has an adjustable peak weight range of 10 pounds. To make an adjustment to 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 ¼ 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 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 shootability 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 has been 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	
			Draw length						Bowstring	Power Cable
DS-600	25"	26"	27"	28"	29"	30"	31 3/8"	7 1/2"	55 1/4"	36 5/16"

Bowstrings and Power cable measurements are without twist. Add (8-16) CW twist to get correct tune.

2012 DualSync 3800 TECHNICAL BULLETIN, 011712R4

Each **DualSync** bow has an adjustable peak weight range of up to 10 pounds. 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 **Clock Wise (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 **Counter Clock Wise (CCW)** turns from 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.

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 cables 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.

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 jam nut and then rotating 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.

An additional Bowstring Suppression Unit that mounts on the cable guard rod is available as an accessory from Darton. This unit puts a suppression unit closer to the center of the bow and provides additional dampening of the bowstring if desired. Instructions for installation and adjustments are provided in the service pack with the unit.

DARTON's NEW Progressive Torque Reduction cable guard rod is designed to enhance the shootability of your DS Series bow. By reducing torque to the limbs as cable tensions increase during your draw cycle and allowing more rod offset for better vane clearance, you will notice the advantages right away. To take maximum advantage of this design be certain your cable rod is adjusted to allow the cable slide to move in toward the center of the bow during your draw cycle. If your limbs are backed out to reduce peak weight you may have to adjust the cable guard rod out to compensate for the change in brace height.

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

The DS 3800 & 3800SD come with 3 draw stop adjustment module sets that allow changes of the let-off down to 65% with minimum change to the draw length. 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.

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 & 6.5.

Modules - Model	#1	#2	#3	#4	#5	#6	#7	Axle – Axle	Brace Height	w/100 pounds tension	
										Bowstring	Power Cable
DS 3800SD	23"	24"	25"	26"	27"			33 13/16"	6.00"	54 13/16"	31 9/16"
DS 3800QL	25"	26"	27"	28"	29"	30"	31"	33 13/16"	6.00"	59 3/4"	32 11/16"

Bowstrings measurements are with twist, Power cable measurements are without twist. Add (8-12) twist to Power Cables to get correct tune. Yoke cables for the 3800 measure 14", for the 3800SD they measure 14 1/2". 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.

2012 DualSync 3900 TECHNICAL BULLETIN, 011712R0

Each **DualSync** bow has an adjustable peak weight range of up to 10 pounds. 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 **Clock Wise (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 **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.

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.

Darton's Quad Limb design coupled with its DualSync Cam System provides a new level of smoothness not obtainable before. Additional bowstring dampening is achieved with the **DARTON's Bowstring Suppression System** that is included with the 3900. **The bumpers should be adjusted with a small gap or just touching the bowstring.** There is a collar installed on the upper rod that supports its 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 collar if any adjustments are made. The upper **BNSS** is adjusted by loosening the set screws that hold the cable guard rod in place and moving the assembly as a unit. Once the bumper gap is adjusted re-tighten the set screws. The upper **BNSS** is covered by patent 5,720,269. A low mount Bowstring Suppression Unit is also included with the 3900. The low mount **BNSS** is adjusted by loosening its jam nut and then rotating the rod in or out accordingly to position the bumper relative to the bowstring. 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.** Apply bowstring wax to the bowstring in the area that aligns with the suppressor bumpers for best results.

DARTON's NEW Progressive Torque Reduction cable guard rod is designed to enhance the shootability of your DS Series bow. By reducing torque to the limbs as cable tensions increase during your draw cycle and allowing more rod offset for better vane clearance, you will notice the advantages right away. To take maximum advantage of this design be certain your cable rod is adjusted to allow the cable slide to move in toward the center of the bow during your draw cycle. If your limbs are backed out to reduce peak weight you need to adjust the cable guard rod out to compensate for the change in brace height to retain correct bowstring gap. When adjusting for bowstring gap you are also adjusting the cable guard rod location accordingly.

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

The DS 3900 come with 3 draw stop adjustment module sets that allow changes of the let-off down to 65% with minimum change to the draw length. 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.

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 & 6.5.

Modules - Model	#1	#2	Draw lengths		#5	#6	#7	Axle – Axle	Brace Height	w/100 pounds tension	
			#3	#4						Bowstring	Power Cable
DS 3900	24"	25"	26"	27"	28"	29"	30"	327/8"	5.00"	58 1/8"	31 5/8"

Bowstrings measurements are with twist, Power cable measurements are without twist. Add (8-12) twist to Power Cables to get correct tune. Yoke cables for the 3800 measure 14".

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.

2012 AQUAFORCE TECHNICAL BULLETIN, 010612R4

The Aquaforce is a unique bow. The first time you draw it you notice this isn't your average compound.

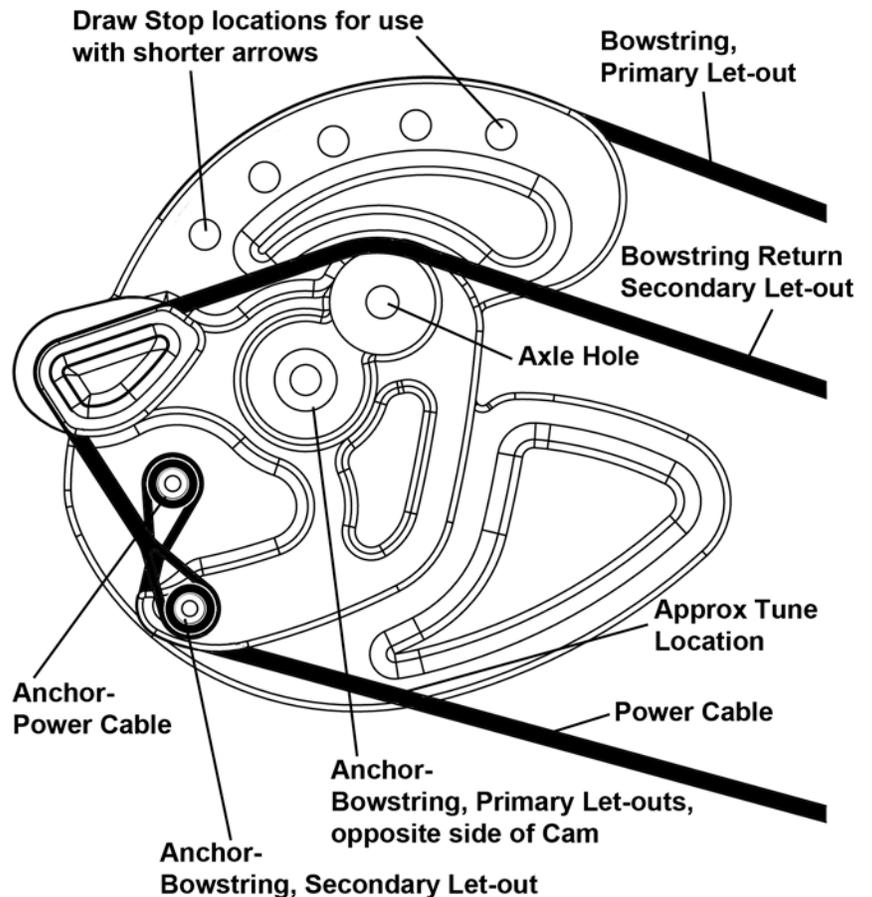
No adjustment is required to change the draw length of an Aquaforce bow. All you need to do is draw it to where you are comfortable and then release for the shot you want. There is no need to concern yourself with draw length. This bow reaches its peak weight early without strain and then lets down to a comfortable weight (20# - 27#) so you can complete the draw cycle (23" – 29 ½") with minimum effort. The string can be comfortably released anytime during the draw cycle with deadly results. This enables you to enjoy hours of shooting with plenty of penetrating power, just what you want when bow fishing.

The only time you would want to adjust the draw length is if you are going to use an arrow shorter than 30". You would then want to adjust its draw stop so you couldn't overdraw the arrow. There is a draw stop assembly included in your service pack for this purpose that fits into any of the 5 holes located on the perimeter of the cam.

The Aquaforce bow has an adjustable peak weight range of 15 pounds. To make an adjustment to peak weight you tighten the limbs down so you know where you started. A maximum of 8 Counter Clock Wise (CCW) turns from the tightened position is recommended; more than 8 Counter Clock Wise (CCW) turns may cause damage to the bow and possible injury.

With molded cams, self bearing and stainless steel axles there isn't much you can do to this bow while fishing that can cause a bow problem, water sure won't.

The Aquaforce has all the standard mounting holes so all bow fishing accessory bolt right up.

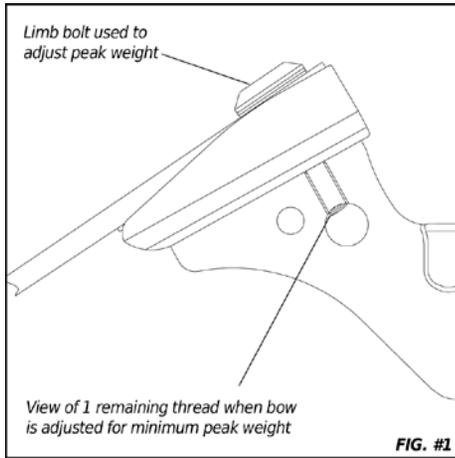


Be sure the axle to axle measurement is checked. The correct measurement will assure the bow performs as advertised.

SPECIFICATIONS

Draw Length Range: 23 – 29 1/2" | Axle – Axle: 31 1/2" | Brace Height: 7 7/8" | Bowstring: 83 1/8"

Power Cable: 33 7/8" | Mass Weight: 3.1 lbs.



Peak weight with Power Cable anchored on post 'A' = 20 - 35# Axle to Axle = 31 3/4"

- Draw lengths w/75% effective let-off,
- #2 module = 20 1/2"
 - #3 module = 21 1/2"
 - #4 module = 22 1/2"
 - #5 module = 23 1/2"
 - #6 module = 24 1/2"
 - #7 module = 25 1/2"
 - #8 module = 26 1/2"

1A Module installed, use post 'A' to anchor the power cable; Peak weight **15# - 30#**
 Draw length **17" - 25"** w/40% let-off

Peak weight with Power Cable anchored on post 'B' = 35 - 50# Axle to Axle = 31 7/16"

- Draw lengths w/75% let-off
- #2 module = 22"
 - #3 module = 23"
 - #4 module = 24"
 - #5 module = 25"
 - #6 module = 26"
 - #7 module = 27"
 - #8 module = 28"

1B Module installed, use post 'B' to anchor the power cable; Peak weight **30# - 45#**
 Draw length **19" - 27"** w/40% let-off

Note: A bow press is required to change the Power Cable anchor.

A bow press is not required to change modules.

Whenever the limb bolts are backed out (CCW) to reduce peak weight be sure to inspect the number of threads remaining on the bolts when viewed through the hole in the riser (**fig #1**). There should be a minimum of one (1) exposed thread to be safe. With the limbs adjusted tight to the riser you can turn the limb bolt out (CCW) a maximum of 9 turns to get the minimum possible draw weight. To adjust the limb bolts out more than 9 turns is not safe.

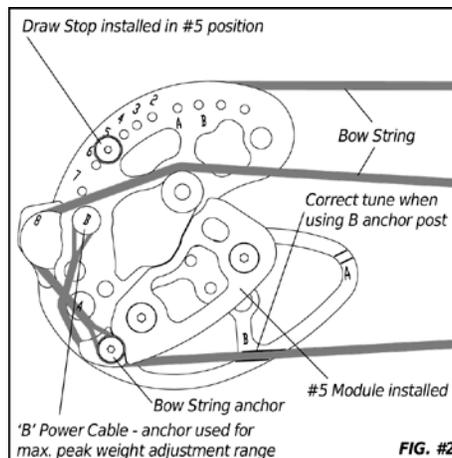
The bow is shipped with the #5 module installed and power cable anchored on the B post (**fig #2**). With the power cable anchored on the B post you get the longest draw length for each module and highest possible peak weight.

When the bow is set up with the power cable on the **A** post the power cable should line up with the A tune marks (**fig #2**) to get the listed draw lengths.

When the bow is set up with the power cable on the **B** post the power cable should line up with the B tune marks (**fig #3**) to get the listed draw lengths.

There is no need to make any adjustments to the bowstring or cable when changes are made at the power cable anchor post or when changing modules.

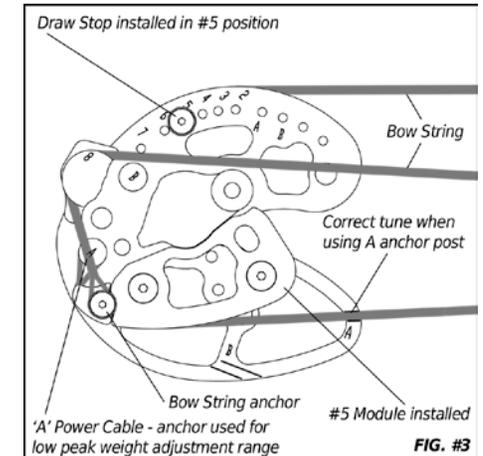
The draw length is changed by changing modules and locating the draw stop in its corresponding hole as noted on the cam. The number that identifies the draw length is visible on the module (**fig. #2 & #3**).



When the draw length module and draw stop match by number you are getting the listed draw length.

Do not draw the bow back without the draw module installed. Damage to the bow, bowstring or ones self could result.

Any changes to the bowstring or power cable to increase the peak weight of the bow beyond it's advertised limits voids the warranty and make the bow unsafe.



The **Universal Draw Modules 1A & 1B** are also included with the bow. Darton's Innovative Universal Module technology eliminates the need for specific draw length adjustments by offering a smooth useable draw length valley of 17" - 27".

An adjustable positive draw stop (fig #2) is featured to insure the safe use of short arrows. The draw stop also provides a definite stop for those archers that may want to adjust the bow to their individual draw length.

Bowstring Length 82 13/16", Power Cable Length 35 1/8"- measured with no twist.

A complete set of modules are shipped with each bow.

For additional warranty or tuning information visit our web site at www.dartonarchery.com or call Darton Service at 989-728-9511. To order parts, draw length modules or Darton Apparel call Darton Service at 989-728-9511.

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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.

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 **BSSU** is adjusted by loosening its jam nut and then rotating 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 BSSU 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.

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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 DS 2800 & 4500 come with draw stop adjustment modules that changes the let-off down 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.

Modules - Model	#1	#2	#3	#4	#5	#6	#7	Axle – Axle	Brace Height	w/100 pounds tension	
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DS 2800	25"	26"	27"	28"	29"	30"		31 1/4"	7.00"	55 3/4"	30 1/4"
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