

# ***TABLE OF CONTENTS***

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String Care	3
The Uni Bows    Pages 4-19	
Infinity Cam Set Up	5-7
Extreme VFT	8
Patriot	9
MightyMite	10
Tech 29	11
BlackHawk	12
LadyHawk	13
Stalker	14
StalkerLite	15
Pro 38/40	16
Generation 3.2	17
The Rascal	18
TomKat	19
The Duallys    Pages 20-25	
Patriot Dually	22
BlackKnight Dually	23
Pro 40 Dually	24
Pro 40 Wheely	25
80% Let-Off Infinity Cam Chart	26
65% Let-Off Infinity Cam Chart	26
2003 Speed Chart	28
2003 Mod Specification Chart	30
Trouble Shooting	32
Bow Maintenance	33
Warnings	34
About Speed	36

Every effort has been made to ensure the accuracy of information and typographical content within our owner's manual. BowTech reserves the right to modify, change and/or discontinue products shown without notice and at its discretion.

## THANK YOU FOR CHOOSING A BOWTECH BOW

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We have designed your new bow to be the best shooting and fastest bow of its kind in the world. It is designed with patented and patent pending technology that no other bow manufacturer can match. Performance that is guaranteed by the only Bow Company that shoots every bow we sell. And if it doesn't perform to our standards, it doesn't ship. We take great pride in our bows and hope you will too.

As with any weapon, the safe operation of your bow should be the highest priority. Please be careful!

### Safety And General Information

**Before using your new bow, read and understand the following material outlined in this manual. Failure to follow any of these warnings and instructions can damage your bow and cause serious injury to yourself and/or others!**

Your new BowTech bow is a highly tuned, precise shooting machine. It requires special care and handling to achieve and maintain peak performance. The string, cables and limbs are under extreme tension, which create an incredible source of energy that must not be taken for granted. Please respect this power and use it properly.

### Never Dry Fire Your Bow.

When drawing the bow for inspection or demonstration, you should never let go of the string at full draw to let down. You must hold on and not let the string slip out of your hands. Without the resistance of a properly weighted arrow to absorb the energy, you may damage the bow and cause personal injury to both the shooter and others.

## STRING CARE

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Congratulations! You now possess the finest bowstring in the industry today. Your **BowTech O<sub>2</sub>** custom bowstring is manufactured to provide long string life and absolute consistency, shot after shot. This will result in greater accuracy, and less time spent re-tuning your equipment.

**Note:** BowTech O<sub>2</sub> custom bowstrings are not standard equipment on the Rascal, Stalker, StalkerLite, BlackHawk, LadyHawk or TomKat models. However, they may be purchased after market at your BowTech dealer.

BowTech O<sub>2</sub> custom bowstrings have several unique features you should be aware of:

We first recommend shooting the bow 100-150 times to remove all looseness from the string as a result of relaxation during packaging. Next simply use the peep installation string to separate the bowstring. Install the peep, then **carefully** cut and remove the installation string, even if you do not use a peep. In most cases, to properly align the peep - simply twist or untwist the string from the bottom in 1/2 turn increments until the peep aligns. **In rare cases**, this procedure may need to be repeated one time after an additional 200 shots.

**Wax string often. We recommend BCYML 6 synthetic string wax** or equivalent product. To wax string, apply wax liberally to entire length of string. Rub briskly with fingers until string looks slick. Remove all excess wax with a clean cloth.

On one of the loop ends, you may notice an area of the served string that is slightly larger than the rest, and may have small gaps in the serving. This is normal and quite integral to the performance of your new string.

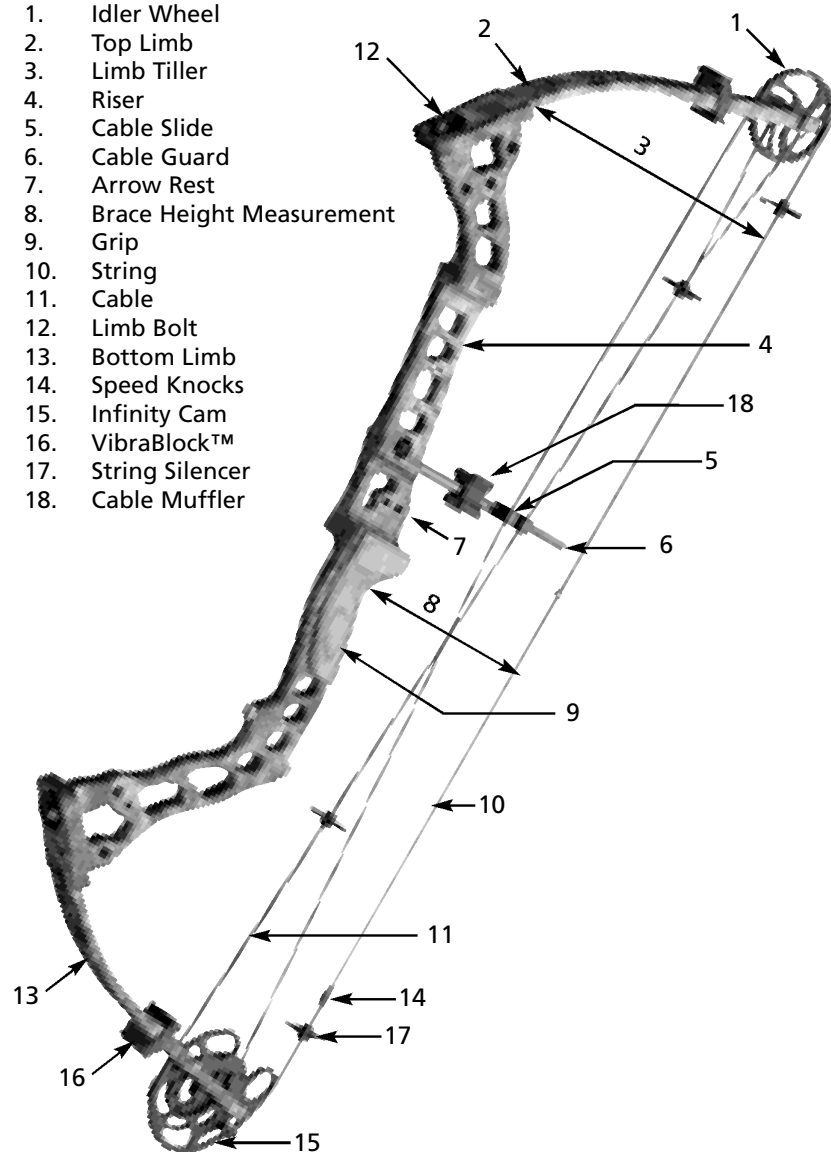
We are certain – you will find that your BowTech custom bowstring to be the finest product of its kind. If you do have a problem with one of our strings or cables, please contact us, or your dealer, immediately so we may promptly remedy the situation and return ~~you~~<sup>you</sup> to the activity you enjoy—**shooting**.

## THE UNI BOWS (SINGLE CAM)

## SET UP

### BOW PARTS

1. Idler Wheel
2. Top Limb
3. Limb Tiller
4. Riser
5. Cable Slide
6. Cable Guard
7. Arrow Rest
8. Brace Height Measurement
9. Grip
10. String
11. Cable
12. Limb Bolt
13. Bottom Limb
14. Speed Knocks
15. Infinity Cam
16. VibraBlock™
17. String Silencer
18. Cable Muffler



BowTech single cam bows are factory tuned right out of the box. You will need to set your draw to the correct length (an Authorized BowTech Dealer should perform this function). All BowTech bows have a module draw system. Each module equals 1" of draw length. To change your draw length, see your Authorized BowTech Dealer for installation of a different module.

**Setting the Peak Weight:** One full 360-degree turn on the limb bolt equals 3-4 lbs. The bow is set up for only 10 lb increments and allows for no more than 2 1/2, 360-degree turns. **Every bow will perform best at peak weight.** BowTech bows are standardized to fit most manufacturer's accessories and **are intended to be shot with a mechanical release.**

### TUNING

Every bow needs to be properly tuned to achieve maximum performance. Any alterations to the original factory setup will inhibit that performance. For optimum results the post feed cam must be properly tuned.

### THE INFINITY CAM SET UP

BowTech has introduced a cam that is very unique...it is called the Infinity Cam. It is unique from most other draw stop cams because of its continuously machined slot in the cam (you are not limited to holes drilled in preset areas for adjustment).

Adjusting the cam to your preferred shooting style is easy and simple when you understand how the cam works. **The Infinity Cam is still a modular adjusted cam** and when changing a draw module you must move the post setting as well!

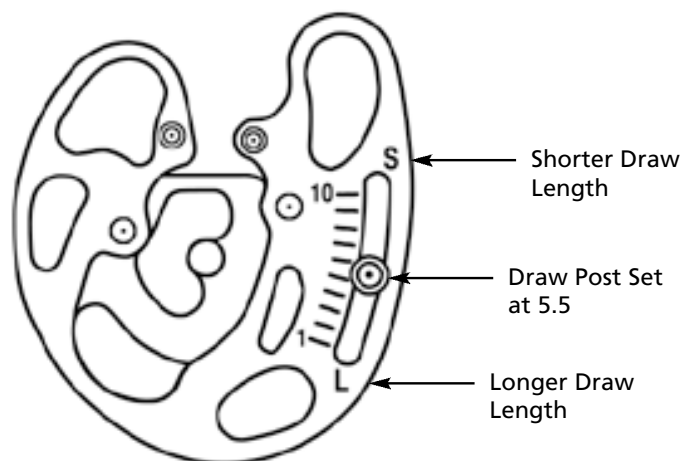
You first change the module to your closest draw length setting before attempting to "fine tune" your let-off etc...(see mod specification chart page 30). The post settings are designed to make changes minutely up to 1/2" in draw (up or down) from the draw-length originated by the module. Moving the draw post is like customizing your own module to stop in the exact desired position for you. The post acts like the last part of your module track stopping the string exactly where you want it. The post rotates around until it comes into contact with your bottom limb giving you the most solid wall on the market. What does this mean for you? The most precise anchor point available!

## INFINITY CAM SET UP (CONT)

**Moving the post** is very simple. Start by adjusting the Allen screw on the post, then loosen it enough to move it in the slot towards the S (short) or L (long) markings on the cam. (This should always be done while the bow is at rest). When adjusting the post, note that very little movement is required to change things dramatically.

The **Infinity Cam** has a machined slot to incorporate all the settings necessary for all of the **BowTech** models. Each model, at each draw length, makes up a very small area of the machined slot. Please make sure that you understand how the cam works before trying to make any changes. Your draw stop cam can be dangerous and very inefficient when adjusted improperly (see illustration below for proper post settings). When you draw the bow back, make sure that the post stops the draw cycle. If the post is not stopping the draw cycle, you are over-rotating the cam and may damage your strings and cables. You will need to adjust the post setting towards the S slot to rectify this. When adjusting the post closer to the S slot you'll notice that you will start to lower your let-off and valley. If this lower let-off is not what you want to achieve, make sure the correct draw module is installed.

## THE INFINITY CAM



## CHANGING THE LET-OFF

Changing the let-off is very easy, it may take a post setting change, a module change, or both. We will explain how changing the settings of your cam effects let-off...however for the exact draw settings for 65% and 80% on each model (see chart on page 26).

First to understand how the post setting changes your let-off let's assume you want to shoot 65%.... think of it as stopping the rotation of the cam on the module track before it fully rotates into the valley. By shortening up the post settings on the cam, you can adjust the let-off of the bow. Some models can be adjusted to almost 0% let-off. Here are some setting examples.

Example A: If you want to achieve a 28 1/2" draw at 80% you would first install a 28" module and adjust the post setting towards the L slot machined into the cam. If you wanted to achieve 65% at 28 1/2" draw you would install a 29" draw module and back the post setting slightly towards the S (short) slot, thus shortening up your valley and lowering your let-off.

Example B: Your new Tech29 came with a #1 module - (29") and you want to change it to 23.5". To get to 23.5" you first install a # 6 module - 24" and adjust the post setting towards the S slot achieving 23.5" draw at 65% let-off. The post settings can be fine tuned to all draw lengths in the spectrum of availability, however by changing your draw it will inherently change your let-off at the same time. You may find that getting the exact let-off at the exact draw length takes some modifications. Most people say that they want to shoot a specified draw length (28") at a specified let-off (80%) when really they might like the feel of 27 7/8" draw at 76% let-off better. But whatever the setting you want... you have those options with your new **Infinity Cam**... patented by **BowTech**!

## EXTREME VFT

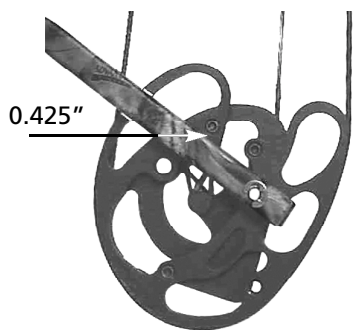
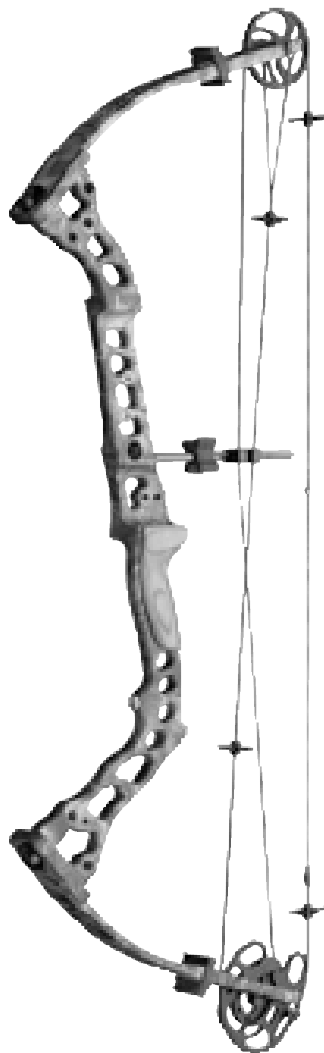
The **Extreme VFT** comes from the factory preset. There are two nocks added to the bottom part of the string. This will enhance the speed of the bow, however, adding or removing additional knocks will only reduce the performance. When replacing the string, the speed knocks should be placed 4.5" from the bottom axle. When string or cables need to be replaced, contact your Authorized BowTech Dealer to purchase only BowTech replacement parts. Any addition of non-BowTech replacement parts could void your warranty. Properly maintained and tuned, the **Extreme VFT** will perform at its maximum potential.

### SPECIFICATIONS

Draw Weights	50#-60#-70#
Let Off	65% to 80%
Axle-Axle	34 1/16"
Mass Weight	3.75 lbs
Brace Height	6 5/8"
Draw Lengths	25-30"
IBO	325-333 fps

#### Samson VFT

Draw Weights	80#-90#-100#
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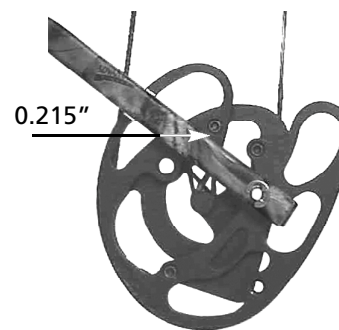
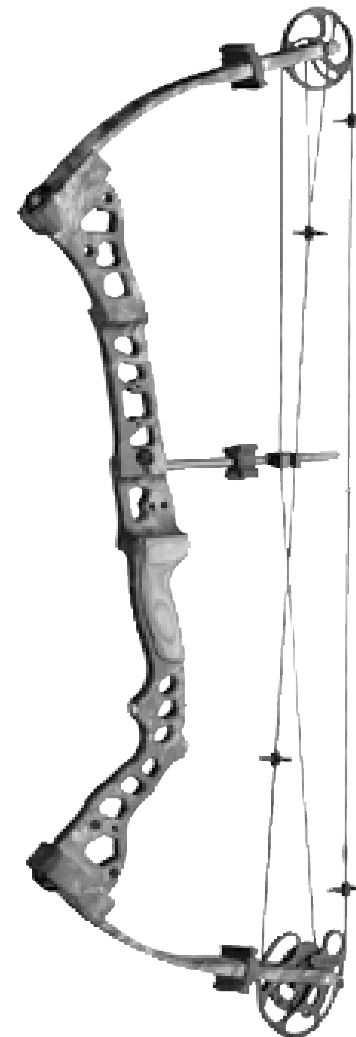
Your **Extreme VFT** is factory set with a 0.425" gap between the module screw and the limb.

## PATRIOT VFT

The **Patriot** comes from the factory preset. There are two nocks added to the bottom part of the string. This will enhance the speed of the bow, however, adding or removing additional nocks will only reduce the performance. When replacing the string, the speed nocks should be placed 4.5" from the bottom axle. When string or cables need to be replaced, contact your Authorized BowTech Dealer to purchase only BowTech replacement parts. Any addition of non-BowTech replacement parts could void your warranty. Properly maintained and tuned, the **Patriot** will perform at its maximum potential.

### SPECIFICATIONS

Draw Weights	40#-50#-60#-70#
Let Off	65% to 80%
Axle-Axle	33 3/4"
Mass Weight	3.95 lbs
Brace Height	7 3/8"
Draw Lengths	25-30"
IBO	312-320 fps



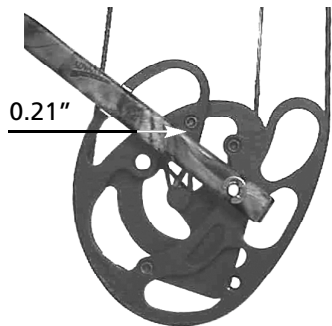
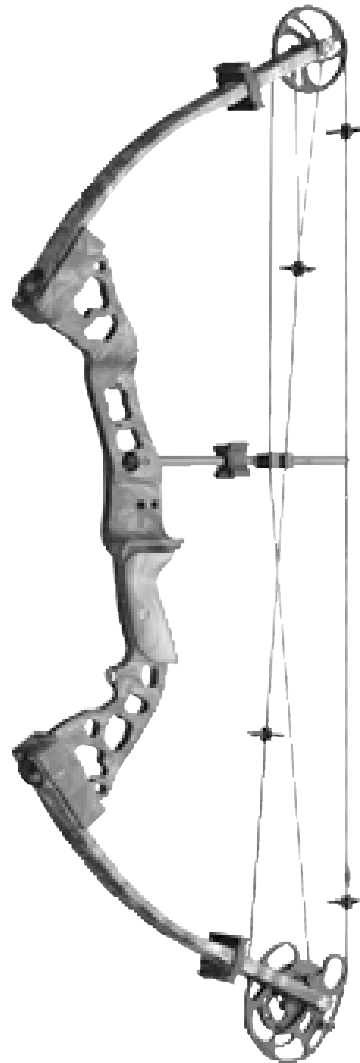
Your **Patriot VFT** is factory set with a 0.215" gap between the module screw and the limb.

## MIGHTYMITE

The **MightyMite** comes from the factory preset. There are two nocks added to the bottom part of the string. This will enhance the speed of the bow, however, adding or removing additional nocks will only reduce the performance. When replacing the string, the speed nocks should be placed 4" from the bottom axle. When string or cables need to be replaced, contact your Authorized BowTech Dealer to purchase only BowTech replacement parts. Any addition of non-BowTech replacement parts could void your warranty. Properly maintained and tuned, the **MightyMite** will perform at its maximum potential.

### SPECIFICATIONS

Draw Weights	60#-70#
Let Off	65% to 80%
Axle-Axle	31 1/2"
Mass Weight	3.65 lbs
Brace Height	7 1/4"
Draw Lengths	25-30"
IBO	316-324 fps



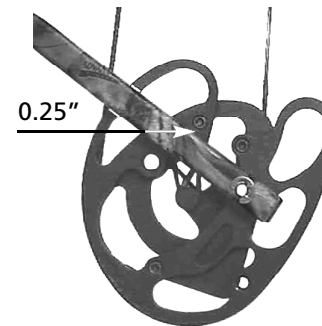
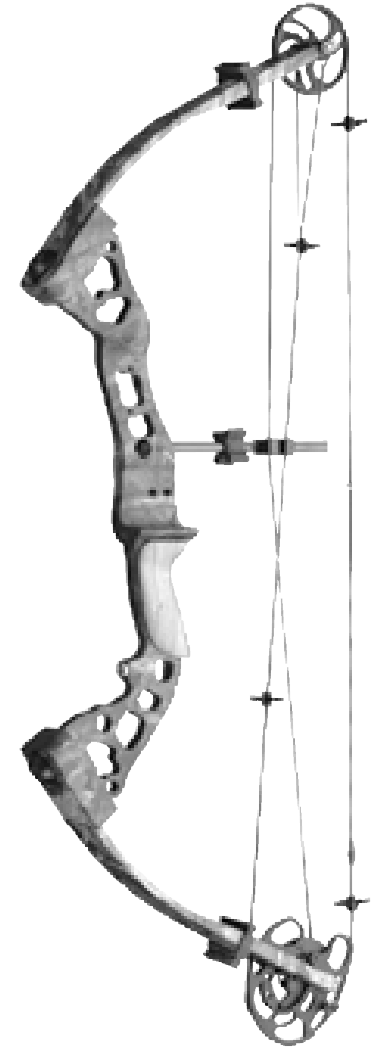
Your **MightyMite** is factory set with a 0.21" gap between the inside module screw and the limb.

## TECH 29

The **Tech29** comes from the factory preset. There are two nocks added to the bottom part of the string. This will enhance the speed of the bow, however, adding or removing additional nocks will only reduce the performance. When replacing the string, the speed nocks should be placed 4" from the bottom axle. When string or cables need to be replaced, contact your Authorized BowTech Dealer to purchase only BowTech replacement parts. Any addition of non-BowTech replacement parts could void your warranty. Properly maintained and tuned, the **Tech29** will perform at its maximum potential.

### SPECIFICATIONS

Draw Weights	50#-60#-70#
Let Off	65% to 80%
Axle-Axle	29 1/2"
Mass Weight	3.6 lbs
Brace Height	7 1/4"
Draw Lengths	24-29"
IBO	314-320 fps @ 29" draw



Your **Tech29** is factory set with a 0.25" gap between the inside module screw and the limb.

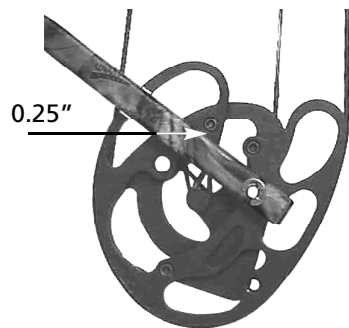
## BLACKHAWK

The **BlackHawk** comes from the factory preset. There are two nocks added to the bottom part of the string. This will enhance the speed of the bow, however, adding or removing additional nocks will only reduce the performance. When replacing the string, the speed nocks should be placed 4.5" from the bottom axle. When string or cables need to be replaced, contact your Authorized BowTech Dealer to purchase only BowTech replacement parts. Any addition of non-BowTech replacement parts could void your warranty. Properly maintained and tuned, the **BlackHawk** will perform at its maximum potential.

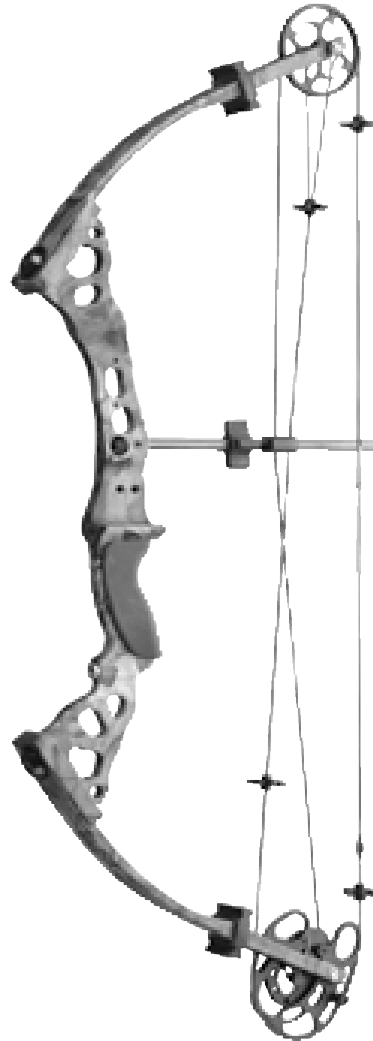
**Note:** BowTech Q custom bowstrings are not standard equipment on the BlackHawk.

### SPECIFICATIONS

Draw Weights	40#-50#-60#-70#
Let Off	65% to 80%
Axle-Axle	28 7/8"
Mass Weight	2.85 lbs
Brace Height	8 1/8"
Draw Lengths	25-30"
IBO	309-317 fps



Your **BlackHawk** is factory set with a 0.25" gap between the inside module screw and the limb.



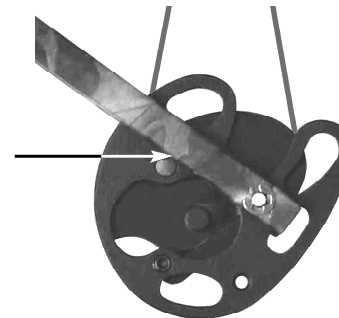
## LADYHAWK

The **LadyHawk** comes from the factory preset. There are two nocks added to the bottom part of the string. This will enhance the speed of the bow, however, adding or removing additional nocks will only reduce the performance. When replacing the string, the speed nocks should be placed 3.75" from the bottom axle. When string or cables need to be replaced, contact your Authorized BowTech Dealer to purchase only BowTech replacement parts. Any addition of non-BowTech replacement parts could void your warranty. Properly maintained and tuned, the **LadyHawk** will perform at its maximum potential.

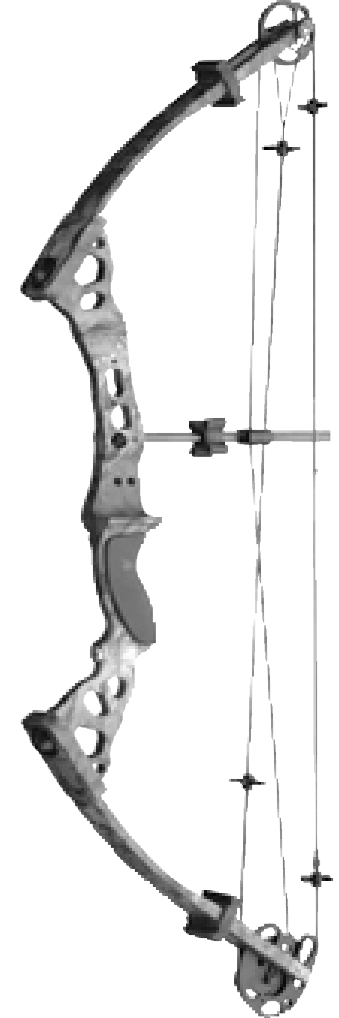
**Note:** BowTech Q custom bowstrings are not standard equipment on the LadyHawk.

### SPECIFICATIONS

Draw Weights	30#-40#-50#-60#
Let Off	80%
Axle-Axle	29"
Mass Weight	2.75 lbs
Brace Height	7 1/2"
Draw Lengths	20-26"
IBO	262-270 fps
@ 26" draw length-60# draw weight	



Your **LadyHawk** is factory set with the edge of the drill hole at the edge of the limb.



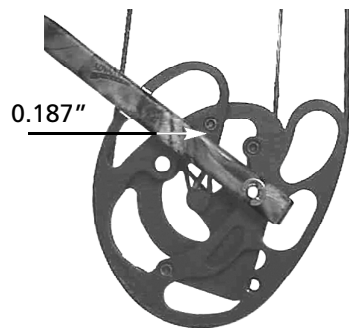
# STALKER

The **Stalker** comes from the factory preset. There are two nocks added to the bottom part of the string. This will enhance the speed of the bow, however, adding or removing additional nocks will only reduce the performance. When replacing the string, the speed nocks should be placed 4.25" from the bottom axle. When string or cables need to be replaced, contact your Authorized BowTech Dealer to purchase only BowTech replacement parts. Any addition of non-BowTech replacement parts could void your warranty. Properly maintained and tuned, the **Stalker** will perform at its maximum potential.

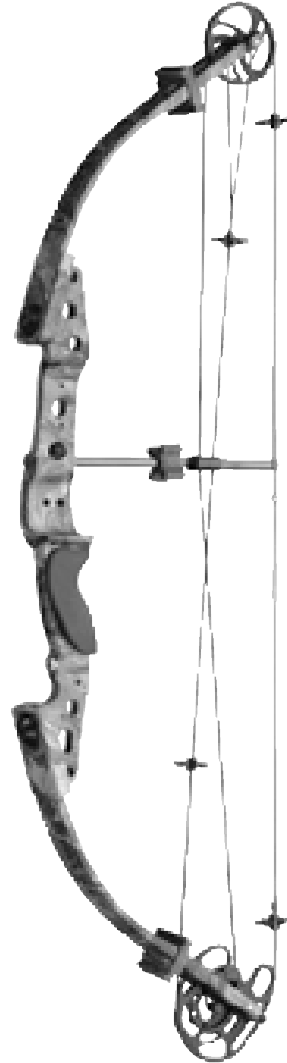
**Note:** BowTech Q custom bowstrings are not standard equipment on the Stalker.

## SPECIFICATIONS

Draw Weights	40#-50#-60#-70#
Let Off	65% to 80%
Axle-Axle	33 1/8"
Mass Weight	2.90 lbs
Brace Height	8 1/8"
Draw Lengths	27-32"
IBO	298-306 fps



Your **Stalker**, is factory set with a 0.187" gap between the inside module screw and the limb.



# STALKERLITE

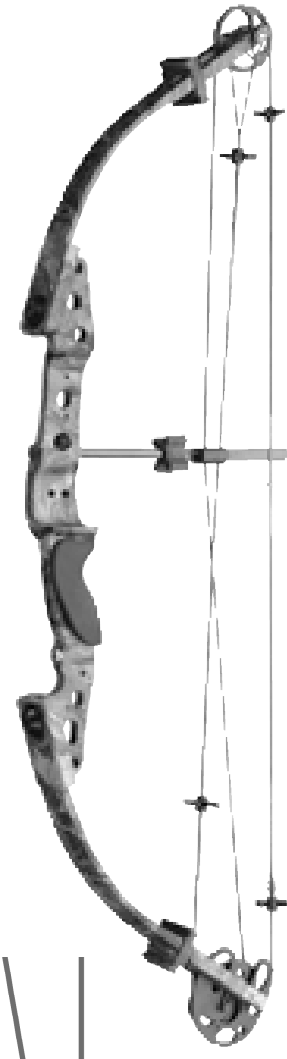
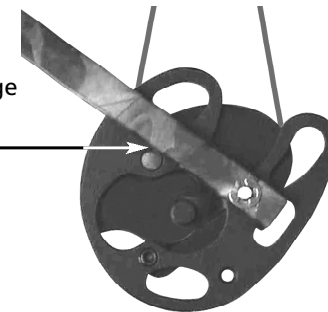
The **StalkerLite** comes from the factory preset. There are two nocks added to the bottom part of the string. This will enhance the speed of the bow, however, adding or removing additional nocks will only reduce the performance. When replacing the string, the speed nocks should be placed 3.75" from the bottom axle. When string or cables need to be replaced, contact your Authorized BowTech Dealer to purchase only BowTech replacement parts. Any addition of non-BowTech replacement parts could void your warranty. Properly maintained and tuned, the **StalkerLite** will perform at its maximum potential.

**Note:** BowTech Q custom bowstrings are not standard equipment on the StalkerLite.

## SPECIFICATIONS

Draw Weights	30#-40#-50#-60#
Let Off	80%
Axle-Axle	33 3/4"
Mass Weight	2.85 lbs
Brace Height	7 1/2"
Draw Lengths	23-29"
IBO	288-295 fps @ 29" draw

Your **StalkerLite** is factory set with the edge of the drill hole at the edge of the limb.



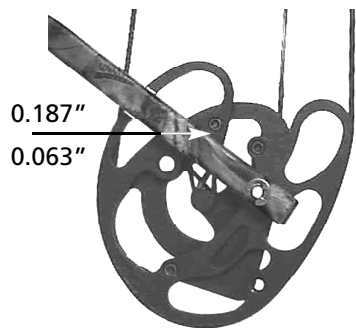
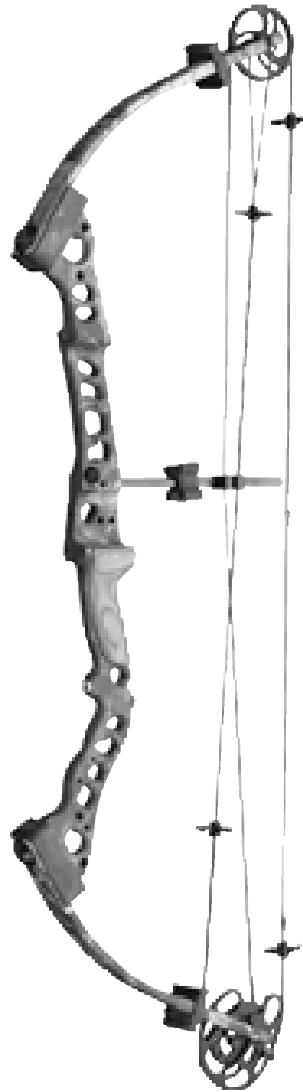


## PRO 38/PRO 40

The **Pro38/Pro40** comes from the factory preset. There are two nocks added to the bottom part of the string. This will enhance the speed of the bow, however, adding or removing additional nocks will only reduce the performance. When replacing the string, the speed nocks should be placed 4.5" from the bottom axle. When string or cables need to be replaced, contact your Authorized BowTech Dealer to purchase only BowTech replacement parts. Any addition of non-BowTech replacement parts could void your warranty. Properly maintained and tuned, the **Pro38/Pro40** will perform at its maximum potential.

### SPECIFICATIONS

Draw Weights	50#-60#-70#	
Let Off	65% to 80%	
	<b>Pro38</b>	<b>Pro40</b>
Axle-Axle	36 11/16	38 5/8
Mass Weight	4.05 lbs	4.10 lbs
Brace Height	7 3/8"	7 3/4"
Draw Lengths	26-31"	27-32"
IBO	310-318 fps	300-308 fps



**Pro38** is factory set with a 0.187" gap between the inside module screw and the limb.

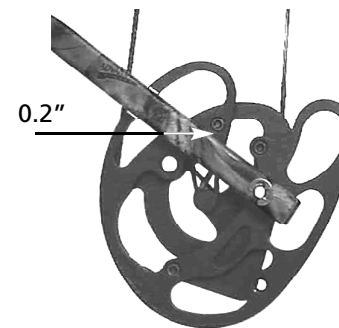
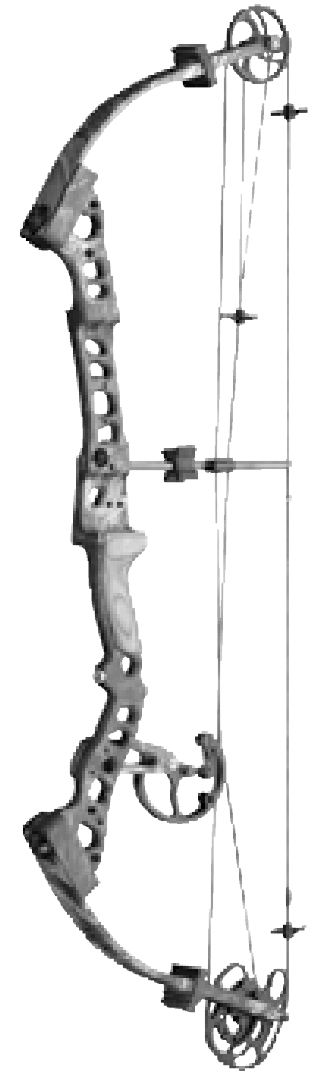
**Pro40** is factory set with a 0.063" gap between the inside module screw and the limb.

## GENERATION 3.2

The **Generation 3.2** comes from the factory pre-set. There are two nocks added to the bottom part of the string. This will enhance the speed of the bow, however, adding or removing additional nocks will only reduce the performance. When replacing the string, the speed nocks should be placed 4.25" from the bottom axle. When string or cables need to be replaced, contact your Authorized BowTech Dealer to purchase only BowTech replacement parts. Any addition of non-BowTech replacement parts could void your warranty. Properly maintained and tuned, the **Generation 3.2** will perform at its maximum potential.

### SPECIFICATIONS

Draw Weights	50#-60#-70#
Let Off	65% to 80%
Axle-Axle	37 1/5"
Mass Weight	4.25 lbs
Brace Height	7"
Draw Lengths	26-31"
IBO	312-320 fps



Your **Generation 3.2**, is factory set with a 0.2" gap between the module screw and the limb.

## RASCAL

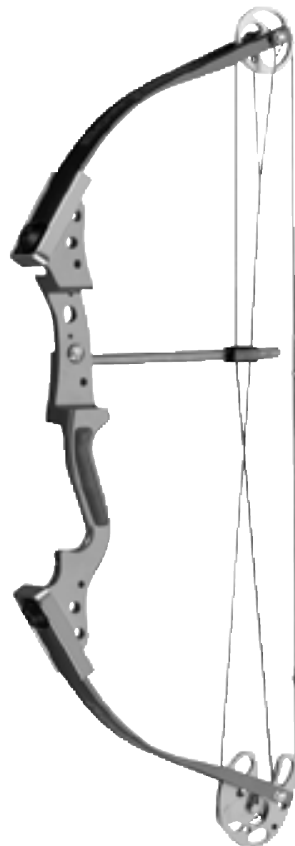
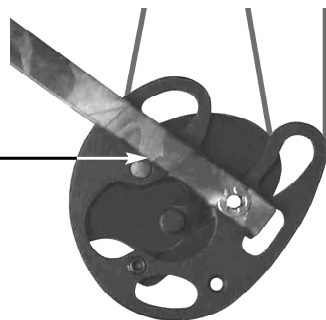
The **Rascal** comes from the factory preset. There are two nocks added to the bottom part of the string. This will enhance the speed of the bow, however, adding or removing additional nocks will only reduce the performance. When replacing the string, the speed nocks should be placed 3.5" from the bottom axle. When string or cables need to be replaced, contact your Authorized BowTech Dealer to purchase only BowTech replacement parts. Any addition of non-BowTech replacement parts could void your warranty. Properly maintained and tuned, the **Rascal** will perform at its maximum potential.

**Note:** BowTech Q custom bowstrings are not standard equipment on the Rascal.

### SPECIFICATIONS

Draw Weights	20#-30#-40#
Let Off	80%
Axle-Axle	24 1/2"
Mass Weight	2.0 lbs
Brace Height	7 1/4"
Draw Lengths	19-25"
IBO	256-262 fps
@ 25" draw length-40# draw weight	

Your **Rascal** is factory set with the edge of the drill hole at the edge of the limb.



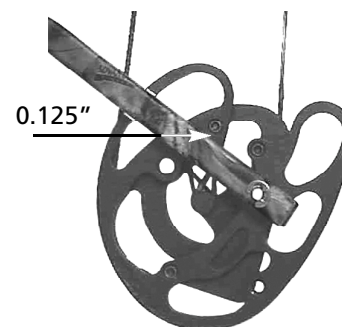
## TOMKAT

The **TomKat** comes from the factory preset. There are two nocks added to the bottom part of the string. This will enhance the speed of the bow, however, adding or removing additional nocks will only reduce the performance. When replacing the string, the speed nocks should be placed 4.5" from the bottom axle. When string or cables need to be replaced, contact your Authorized BowTech Dealer to purchase only BowTech replacement parts. Any addition of non-BowTech replacement parts could void your warranty. Properly maintained and tuned, the **TomKat** will perform at its maximum potential.

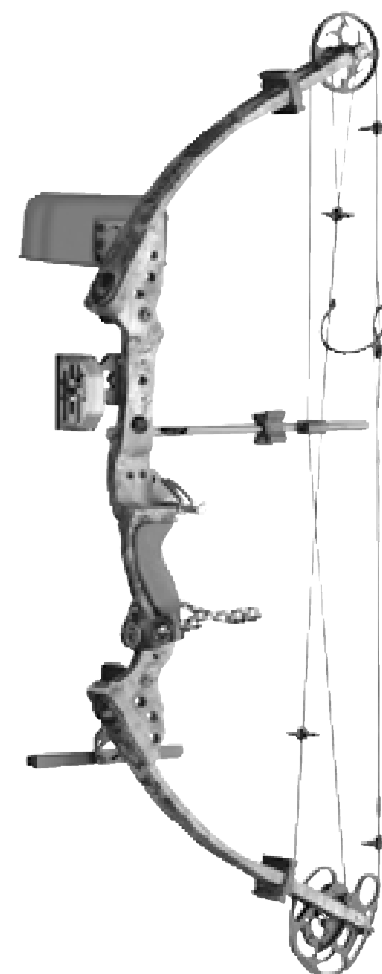
**Note:** BowTech Q custom bowstrings are not standard equipment on the TomKat.

### SPECIFICATIONS

Draw Weights	60#-70#
Let Off	65% to 80%
Axle-Axle	31"
Mass Weight	3.00 lbs
Brace Height	9 1/8"
Draw Lengths	27-32"
IBO	284-292 fps



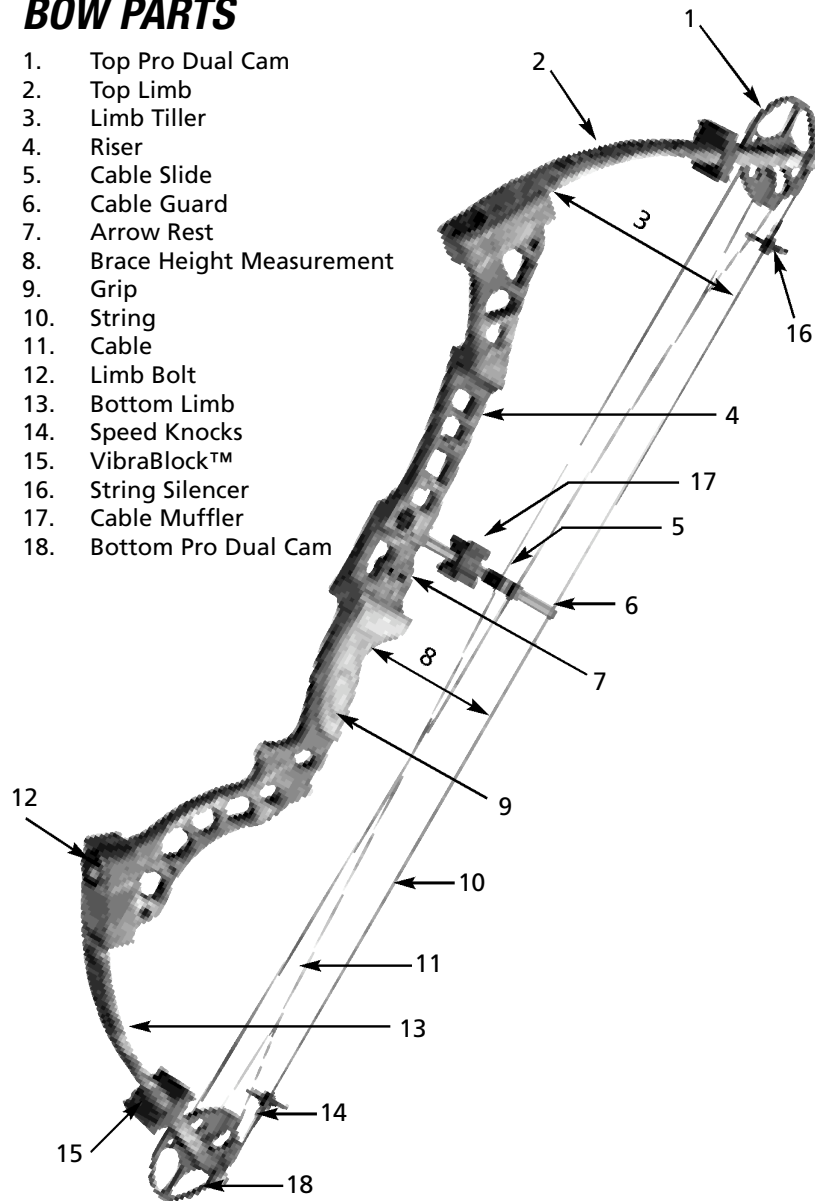
Your **TomKat** is factory set 0.125" gap between the inside module screw and the limb.



## THE DUALLYS

### BOW PARTS

1. Top Pro Dual Cam
2. Top Limb
3. Limb Tiller
4. Riser
5. Cable Slide
6. Cable Guard
7. Arrow Rest
8. Brace Height Measurement
9. Grip
10. String
11. Cable
12. Limb Bolt
13. Bottom Limb
14. Speed Knocks
15. VibraBlock™
16. String Silencer
17. Cable Muffler
18. Bottom Pro Dual Cam



## SET UP

### TIMING

BowTech dual cam bows are factory synchronized with the cables hitting the mod walls at the same time, at full draw. However, because of the natural settling of the string and cables, they may need to be refined at your authorized dealer. Before doing so, it is recommended that you cycle (shoot) the bow 65 to 70 times **before** your first initial timing session. Following this procedure will eliminate the bulk of the of the settling out of the strings and cables, and back to their pre-stretched lengths.

The top cam requires some lean (towards the cable rod) which can be achieved by twisting the harness. This will make the cable feed into the mod track squarely. Once desired cam lean is achieved, you are ready to synchronize the timing of the cams, making sure they hit at the same time at full draw.

You will need to set your draw to the correct length (an Authorized BowTech Dealer should preform this function). All BowTech bows have a module draw system. Each module equals 1" of draw length. To change your draw length, see your Authorized BowTech Dealer for installation of a different module.

**Setting the Peak Weight:** One full 360-degree turn on the limb bolt equals 3-4 lbs. The bow is set up for only 10 lb increments and allows for no more than 2.5, 360-degree turns. **Every bow will perform best at peak weight.** BowTech bows are standardized to fit most manufacturers accessories and are intended to be shot with a mechanical release.

### CABLE ADJUSTERS

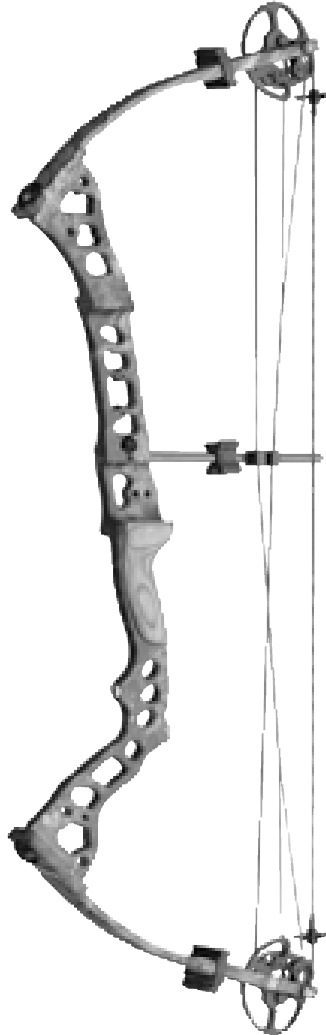
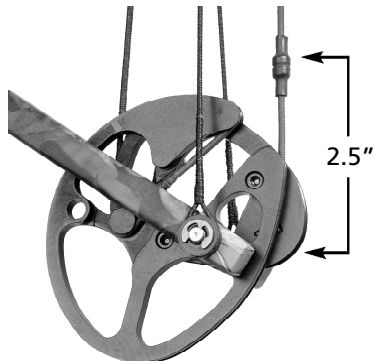
Cable adjusters solve the age-old problem of cam timing and cam lean. When selecting this optional feature, you'll find that these concerns are no longer an issue. While it is not recommended for first-time users to make the initial set up, or adjustments themselves, a quick turn of a bolt and tightening of nut is all it takes to achieve precise timing. See your Authorized BowTech Dealer for initial set up and visual instruction to learn how to correctly adjust your cable adjusters in the field.

## PATRIOT DUALLY VFT

The **Patriot Dually VFT** comes from the factory preset. There are two nocks added to the top and bottom part of the string. This will enhance the speed of the bow, however, adding or removing additional nocks will only reduce the performance. When replacing the string, the speed nocks should be placed 2.5" from the bottom axle. When string or cables need to be replaced, contact your Authorized BowTech Dealer to purchase only BowTech replacement parts. Any addition of non-BowTech replacement parts could void your warranty. Properly maintained and tuned, the **Patriot Dually VFT** will perform at its maximum potential.

### SPECIFICATIONS

Draw Weights	40#-50#-60#-70#
Let Off	65%
Axle-Axle	34 7/8"
Mass Weight	3.80 lbs
Brace Height	7 7/8"
Draw Lengths	25-30"
IBO	332-340 fps

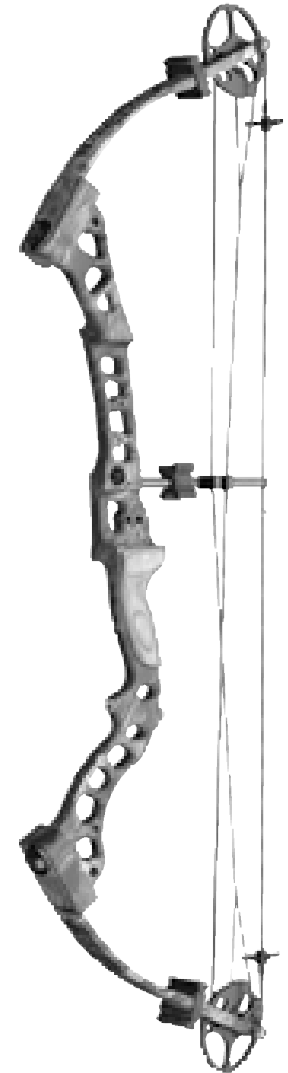
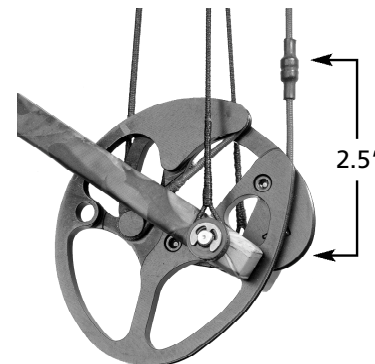


## BLACKKNIGHT DUALLY

The **BlackKnight Dually** comes from the factory pre-set. There are two nocks added to the top and bottom part of the string. This will enhance the speed of the bow, however, adding or removing additional nocks will only reduce the performance. When replacing the string, the speed nocks should be placed 2.5" from the axles. When string or cables need to be replaced, contact your Authorized BowTech Dealer to purchase only BowTech replacement parts. Any addition of non-BowTech replacement parts could void your warranty. Properly maintained and tuned, the **BlackKnight Dually** will perform at its maximum potential.

### SPECIFICATIONS

Draw Weights	50#-60#-70#
Let Off	65%
Axle-Axle	36"
Mass Weight	3.95 lbs
Brace Height	Short 5 3/4" Tall 6 3/4"
Draw Lengths	24-29" 25-30"
IBO	337-345 fps @ 29" draw 337-345 fps

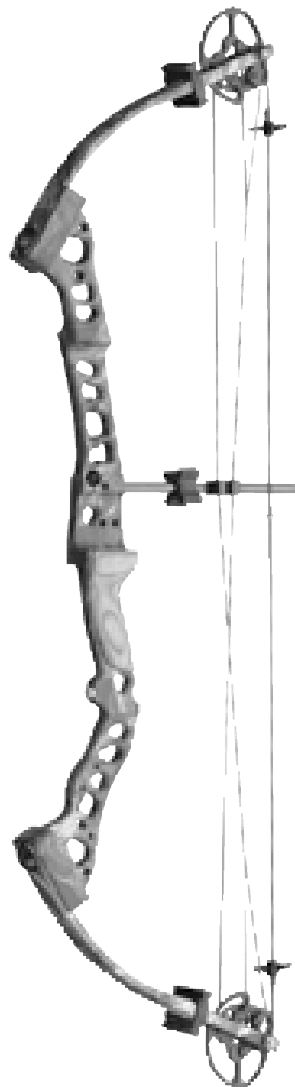
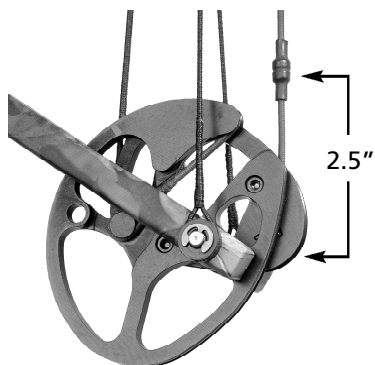


## PRO 40 DUALLY

The **Pro40 Dually** comes from the factory preset. There are two nocks added to the top and bottom part of the string. This will enhance the speed of the bow, however, adding or removing additional nocks will only reduce the performance. When replacing the string, the speed nocks should be placed 2.5" from the bottom axle. When string or cables need to be replaced, contact your Authorized BowTech Dealer to purchase only BowTech replacement parts. Any addition of non-BowTech replacement parts could void your warranty. Properly maintained and tuned, the **Pro40 Dually** will perform at its maximum potential.

### SPECIFICATIONS

Draw Weights	40#-50#-60#-70#
Let Off	65%
Axle-Axle	38"
Mass Weight	4.05 lbs
Brace Height	7 3/8"
Draw Lengths	26-31"
IBO	329-337 fps

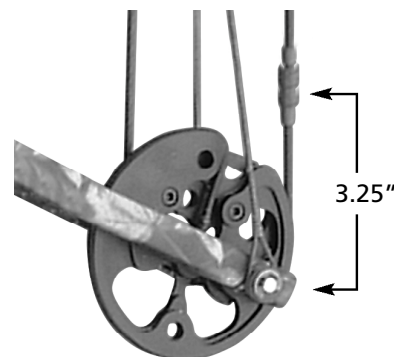


## PRO 40 WHEELY

The **Pro40 WHEELY** comes from the factory pre-set. There are two nocks added to the top and bottom part of the string. This will enhance the speed of the bow, however, adding or removing additional nocks will only reduce the performance. When replacing the string, the speed nocks should be placed 3.25" from the bottom axle. When string or cables need to be replaced, contact your Authorized BowTech Dealer to purchase only BowTech replacement parts. Any addition of non-BowTech replacement parts could void your warranty. Properly maintained and tuned, the **Pro40 WHEELY** will perform at its maximum potential.

### SPECIFICATIONS

Draw Weights	40#-50#-60#-70#-80#
Let Off	65% or 80%
Axle-Axle	38"
Mass Weight	4.1 lbs
Brace Height	7 1/4"
Draw Lengths	25-30"
IBO	304-312 fps



### 80% Infinity Cam Chart

MODEL	TIMING MARK	MOD #1 SET/DRAW	MOD #2 SET/DRAW
<i>Extreme VFT</i>	0.425"	4.3 30"	6.1 29"
<i>Patriot VFT</i>	0.215"	4.3 30"	6.0 29"
<i>MightyMite</i>	0.21"	3.8 30"	5.5 29"
<i>Tech 29</i>	0.25"	3.9 29"	5.5 28"
<i>BlackHawk</i>	0.25"	4.0 30"	5.0 29"
<i>Stalker</i>	0.187"	4.0 32"	5.5 31"
<i>Pro 38</i>	0.187"	4.0 31"	5.9 30"
<i>Pro 40</i>	0.063"	4.0 32"	5.2 31"
<i>TomKat</i>	0.125"	3.3 32"	5.2 31"
<i>Generation 3.2</i>	0.2"	4.0 31"	5.9 30"

MOD #3 SET/DRAW	MOD #4 SET/DRAW	MOD #5 SET/DRAW	MOD #6 SET/DRAW
7.3 28"	8.7 27"	9.6 26"	10.8 25"
7.5 28"	8.5 27"	9.7 26"	11.0 25"
6.6 28"	8.0 27"	9.1 26"	9.8 25"
6.9 27"	7.9 26"	8.9 25"	10.0 24"
6.5 28"	7.8 27"	9.0 26"	10.0 25"
6.7 30"	7.7 29"	8.7 28"	9.7 27"
7.1 29"	8.1 28"	9.1 27"	10.0 26"
6.5 30"	8.0 29"	9.0 28"	10.2 27"
6.3 30"	7.6 29"	8.8 28"	9.9 27"
7.1 29"	8.1 28"	9.1 27"	10.0 26"

**POST SETTINGS ARE COUNTED**

**FROM THE "L" MARKED ON THE CAM**

### 65% Infinity Cam Chart

MODEL	TIMING MARK	MOD #1 SET/DRAW	MOD #2 SET/DRAW
<i>Extreme VFT</i>	0.425"	5.3 29"	7.2 28"
<i>Patriot VFT</i>	0.215"	5.3 29"	7.2 28"
<i>MightyMite</i>	0.21"	4.8 29"	6.5 28"
<i>Tech 29</i>	0.25"	4.9 28"	6.6 27"
<i>BlackHawk</i>	0.25"	5.0 29"	6.1 28"
<i>Stalker</i>	0.187"	5.0 31"	6.5 30"
<i>Pro 38</i>	0.187"	5.0 30"	7.0 29"
<i>Pro 40</i>	0.063"	5.0 31"	6.2 30"
<i>TomKat</i>	0.125"	4.3 31"	6.2 30"
<i>Generation 3.2</i>	0.2"	5.0 30"	7.0 29"

MOD #3 SET/DRAW	MOD #4 SET/DRAW	MOD #5 SET/DRAW	MOD #6 SET/DRAW
8.3 27"	9.7 26"	10.6 25"	end 24"
8.5 27"	9.5 26"	10.7 25"	end 24.5"
7.6 27"	9.0 26"	10.1 25"	10.8 24"
7.9 26"	9.0 25"	9.9 24"	11.1 23"
7.6 27"	8.8 26"	10.0 25"	11.1 24"
7.8 29"	8.8 28"	9.8 27"	10.8 26"
8.1 28"	9.1 27"	10.2 26"	11.0 25"
7.6 29"	9.0 28"	10.1 27"	11.2 26"
7.3 29"	8.7 28"	9.8 27"	11.0 26"
8.1 28"	9.1 27"	10.2 26"	11.0 27"

## 2003 SPEED CHART

MODEL	BRACE	STRING	CABLE 1	CABLE 2	23
<b>EXTREME VFT</b>	6 5/8"	89 1/2"	36 1/4"		-
<b>PATRIOT VFT</b>	7 3/8"	88 9/16"	36 1/2"		-
<b>MIGHTYMITE</b>	7 1/4"	84 3/8"	33 3/4"		-
<b>TECH 29</b>	6 1/2"	80 5/8"	31 3/4"		-
<b>BLACKHAWK</b>	8"	79"	31 3/8"		-
<b>LADYHAWK</b>	7 1/2"	73 15/16"	30 3/4"		235-243
<b>STALKER</b>	8 1/8"	87 5/16"	35 1/8"		-
<b>STALKERLITE</b>	7 1/2"	84 7/8"	35 1/2"		229-235
<b>PRO 38</b>	7 3/8"	94 1/4"	39 1/4"		-
<b>PRO 40</b>	7 3/4"	98 1/4"	41 1/4"		-
<b>GENERATION 3.2</b>	7"	90 1/16"	39 5/8"	18"	-
<b>RASCAL</b>	7 1/4"	65 9/16"	26 11/16"		-
<b>TOMKAT</b>	9 1/8"	83"	33 1/2"		-
<b>PATRIOT DUALY</b>	7 7/8"	54 1/4"	35 3/4"		-
<b>BLACKKNIGHT (S)</b>	5 3/4"	55 9/16"	36 7/8"		-
<b>BLACKKNIGHT (T)</b>	6 3/4"	55 9/16"	36 7/8"		-
<b>PRO 40 DUALY</b>	7 3/8"	56 7/8"	38 1/2"		-
<b>PRO 40 WHEELY</b>	7 1/4"	54 3/4"	39 1/4"		232-240

24	25	26	27	28	29	30	31	32
-	271-279	281-289	291-299	301-309	311-319	325-333	-	-
-	265-273	274-282	285-293	295-303	304-311	312-320	-	-
-	264-272	275-283	286-294	297-305	307-315	316-324	-	-
253-260	264-270	276-281	288-295	301-308	314-320	-	-	-
-	252-265	267-275	277-285	287-295	297-305	309-317	-	-
244-252	253-261	262-270	-	-	-	-	-	-
-	-	-	264-272	275-283	286-294	298-306	309-317	319-328
233-240	244-251	256-263	267-274	276-284	288-295	-	-	-
-	-	272-280	280-288	290-298	300-308	310-318	322-330	-
-	-	-	265-273	277-286	288-297	300-308	311-320	322-337
-	-	270-277	279-287	290-298	300-308	312-320	322-330	-
-	256-262*	-	-	-	-	-	-	-
-	-	-	257-265	266-274	275-283	284-292	293-301	302-310
-	277-285	287-295	297-305	307-315	318-326	332-340	-	-
286-294	295-301	302-310	312-320	323-331	337-345	-	-	-
-	286-294	295-301	302-310	312-320	323-331	337-345	-	-
-	-	287-295	296-304	305-313	315-323	329-327	338-346	-
242-250	252-260	262-270	272-280	282-290	292-300	304-312	-	-

\*Rascal speed rating based on 25" draw, 40# with a 200 grain arrow



## 2003 MOD SPECIFICATION CHART

MODEL	ATA	BRACE	* MOD COMPATIBILITY
<b>EXTREME VFT</b>	34 1/16"	6 5/8"	I Mod (1-6)
<b>PATRIOT VFT</b>	33 3/4"	7 1/4"	PAT Mod (1-6)
<b>MIGHTYMITTE</b>	31 1/2"	7 1/4"	I Mod (1-6)
<b>TECH 29</b>	29 1/2"	6 1/2"	I Mod (1-6)
<b>BLACKHAWK</b>	28 7/8"	8"	I Mod (1-6)
<b>LADYHAWK</b>	29"	7 1/2"	R Mod (1-7)
<b>STALKER</b>	33 1/8"	8 1/8"	I Mod (1-6)
<b>STALKETLITE</b>	33 3/4"	7 1/2"	R Mod (1-7)
<b>PRO 38</b>	36 11/16"	7 3/8"	I Mod (1-6)
<b>PRO 40</b>	38 5/8"	7 3/4"	I Mod (1-6)
<b>GENERATION 3.2</b>	37 1/2"	7"	I Mod (1-6)
<b>RASCAL</b>	24 31/2"	7 1/4"	R Mod (1-7)
<b>TOMKAT</b>	31"	9 1/8"	I Mod (1-6)
<b>PATRIOT DUALY</b>	34 7/8"	7 7/8"	PD Mod (1-6)
<b>BLACKKNIGHT (S)</b>	36"	5 3/4"	PD Mod (1-6)
<b>BLACKKNIGHT (T)</b>	36"	6 3/4"	PD Mod (1-6)
<b>PRO 40 DUALY</b>	38"	7 3/8"	PD Mod(1-6)
<b>PRO 40 WHEELY</b>	38"	7 1/4"	WC Mod (1-8)

19	20	21	22	23	24	25	26	27	28	29	30	31	32
						6	5	4	3	2	1		
						6	5	4	3	2	1		
						6	5	4	3	2	1		
					6	5	4	3	2	1			
					6	5	4	3	2	1			
	7	6	5	4	3	2	1						
								6	5	4	3	2	1
				7	6	5	4	3	2	1			
							6	5	4	3	2	1	
							6	5	4	3	2	1	
7	6	5	4	3	2	1							
								6	5	4	3	2	1
						6	5	4	3	2	1		
					6	5	4	3	2	1			
						6	5	4	3	2	1		
				8	7	6	5	4	3	2	1		



## ***TROUBLE SHOOTING***

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1. All BowTech bows use AMO standards for measuring draw lengths, (measured from the pivot point, or throat, of the grip to the bottom of the valley) plus 1 3/4".
2. Always use a properly spined arrow for this bow with a minimum weight of five (5) grains per pound (IBO standard). Just because the total arrow weight is IBO legal does not necessarily mean that the arrow is properly spined. The arrow spine must be able to absorb the energy of the bow. The bow must be able to transfer the energy to the arrow without having any of the energy lost in the process. If the arrow is not properly spined, the arrow will kick out, lose speed, and have poor arrow flight. If the arrow is properly spined you will achieve true, straight arrow flight with maximum speed. The arrow must be at least five (5) grains per pound and have a stiff enough shaft to withstand the energy the bow will give it. Use an arrow chart to determine what shaft will be needed to fit the specifications of your bow.
3. Make sure the weight of the arrow tip is matched to the arrow's shaft strength. If the weight of the tip is either too light or too heavy, poor arrow flight will occur. Use your arrow chart to find out what tip weight is needed to match the arrow shaft.
4. The arrow nock should be 3/16" to 3/8" above the center of the T-square, depending on the shaft diameter. This is a good starting point to achieve proper arrow flight.
5. Make sure the bow is at even tiller. Tiller is an archer's term for the distances between the string and the point where the back of the limb joins the riser.
6. Make sure the cams are properly tuned as seen in the tuning section of each bow in this Owners manual.
7. **Any accessories added to the bowstring will cause the bow to lose speed. All speed tests are done only with factory specs.**
8. If you are in need of assistance with setting up, tuning or solving an arrow flight problem, contact your local authorized BowTech Dealer for assistance.

## ***RECOMMENDED BOW MAINTENANCE***

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1. Use properly spined arrows for all BowTech bows. The minimum arrow weight for this bow should be five grains per pound (IBO).
2. Replace the string and cables once a year or every 2500 shots, whichever ever comes first, to maintain optimum performance.
3. Examine your bow for wear and tear before you shoot (axles, bushings, cables, cable slide, e-clips and string). If any one of these items is showing excessive wear, contact your Authorized BowTech Dealer to have them install new BowTech replacement parts. This will keep your bow shooting consistently without voiding your warranty.
4. When adjusting the bows draw weight, always keep the bow at even tiller on the top and bottom. If the top (Example: 8" tiller at the top and 8" tiller at the bottom). If the top or bottom tiller is off by as little as 1/8-1/4", the bows performance may be affected.
5. When adjusting the bows draw weight, do not turn the limb bolts out more than 2 1/2 full turns. Each full revolution of the limb bolt equals about 3-5 lbs. Adjusting the weight of the bow will adversely affect the performance of the bow.
6. **WARNING:** Do not, for any reason turn the limb bolts out more than the recommended amount. **Doing so could cause the limbs to come out of the pockets forcefully, resulting in bodily injury.**
7. Proper lubrication of the axles, bushings and limb pockets will limit wear and tear. Adding enough lubricant to these areas acts as a barrier between each working part and will optimize the performance of the bow. Note: Only industry standard lubricants should be used. **DO NOT USE WD-40.**
8. Inspect your cam position on a regular basis to make sure the factory setting is maintained. (See tuning section for your specific bow.) This will ensure the draw length and draw weight remain consistent.

## **WARNING!**

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**ADULT SUPERVISION REQUIRED  
NOT RECOMMENDED FOR CHILDREN UNDER SEVEN (7) YEARS OF AGE**

### **SAFETY RULES**

The BowTech Bow is designed as a safe and fun product. However, as with any shooting style product, certain safety rules must be observed. It is **HIGHLY** recommended that these rules be read before using any bow.

**ADULT SUPERVISION OF ALL CHILDREN UNDER THE AGE OF 18 IS REQUIRED. THE BOWTECH BOW IS NOT RECOMMENDED FOR CHILDREN UNDER SEVEN (7) YEARS OF AGE.**

Bows and arrows are **NOT** toys. For maximum safety and enjoyment, always exercise caution, common sense and safety rules when shooting any bow.

Always use appropriate backstop for maximum safety. An appropriate backstop must be constructed of a durable material and must extend beyond the perimeter of the target.

Recommended backstop size is determined by the accuracy and ability of the shooter, i.e., the lower the level of accuracy, the larger perimeter required.

**NEVER** aim or draw any bow in the direction of a person. Aim and draw **ONLY** in the direction of an appropriate target.

**ALWAYS** have a full view of the path to the target and beyond when shooting. **NOTE:** Lead-off shots should be taken at closer ranges until the shooter is more accurate and comfortable at longer distances.

**ALWAYS** inspect arrow and fletching prior to shooting for imperfections such as cracks, splits or splinters. Damaged arrows must not be used and should be destroyed.

**NEVER** Dry-Fire (shoot without an arrow) any bow. Doing so could damage the bow and/or cause injury.

**NEVER** retrieve arrows or allow anyone else to do so until all arrows have been shot.

If you have any questions about the safety and use of any BowTech Bow, contact BowTech at (541) 284-4711.

## **WARNING!**

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### **DO NOT DRY-FIRE THE BOW**

#### **SAFETY RULES**

1. Never draw the bow back with a release without having an arrow nocked. The release could fail and without having an arrow nocked it could cause you to dry-fire the bow.
2. Never draw the bow back without having the limb bolts properly adjusted (no more than 2 1/2 turns off peak weight) and the cables and string properly attached to the correct post and in the correct tracks to avoid possible injury.
3. Do not attach anything to the cables or string that could cause them to wear or become cut. This will void the warranty.
4. Do not, under any circumstances, change a cam bushing yourself. Any resulting damage would void the warranty. Always send the part back to BowTech for proper replacement.
5. Any alteration from the factory specifications or the adjustments outlined herein will void the factory warranty.
6. Have ALL maintenance done at an Authorized BowTech Dealer or through the BowTech Factory Service Department.
7. Do not cross cables above cable rod. This will have an adverse effect on performance and shootability.

#### **Disclaimer of Liability**

**By accepting a BowTech archery product, Buyer agrees to hold harmless BowTech and all associated parties from liability for any damage to persons or property which may result, for any reason, by use of this product.**

# ***SPEED***

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If you are truly feeling the need for speed, only one bow company is prepared to meet the challenge, and we aren't afraid to back it up. BowTech produces the fastest bows in the world and every bow is individually lab-tested, and carries a lifetime warranty.

BowTech, with its patented, revolutionary technology, is determined to fulfill the number one demand among archers today: maximum speed to target with exceptional smoothness. IE: Taking The Arch Out Of Archery.

## **How Do Manufacturers Rate Speed?**

IBO Speed Ratings are an industry standard of measurement used by all manufacturers. Speed ratings are based on a bow with a draw weight of 70# and a draw length of 30" using a five (5) grain per pound arrow (350 grain). Any deviation from these settings will cause a drop in arrow velocity. Note: The chart below is a general guide for the amount of speed lost when accessories are added to your string.

<b><i>STRING ACCESSORY</i></b>	<b><i>SPEED LOSS</i></b>
<u>ITEM</u>	<u>SPEED LOSS</u>
Brass Nock	2-4 fps
Peep Sight	3-6 fps
String Silencers	0-6 fps
E-Buttons	2 fps each
Rubber Peep Tube	6-10 fps
String Loop*	1-3 fps * Without brass nocks
VibraBlocks	0-2 fps

Speeds will vary depending on placement and manufacturer of string added accessories.

Speed loss of arrows over IBO standard of five (5) grains per pound (350 grains @ 70# draw weight):

### **Single Cam**

Every 3 grains of added arrow weight results in 1 fps speed loss. Example: 30 grains over IBO would result in 10 fps speed loss.

### **Dual Cam**

Every 2 grains of added arrow weight results in 1 fps speed loss.