

## Personal Records

Remember, your Mission® warranty is only activated when you register your bow. Register now at: [missionarchery.com](http://missionarchery.com)

Fill out the following personal bow record for future reference:

Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Daytime Phone \_\_\_\_\_

Evening Phone \_\_\_\_\_

E-mail \_\_\_\_\_

Bow Model \_\_\_\_\_

Serial Number \_\_\_\_\_

Located above the grip on most models

Purchased at \_\_\_\_\_

Authorized Mission® Retailer

Purchase Date \_\_\_\_\_ Sales Associate \_\_\_\_\_

Draw Length \_\_\_\_\_ Draw Weight \_\_\_\_\_

Important Notes \_\_\_\_\_

## Join the Mission® Online Community

**Stay Connected 24/7 at [missionarchery.com](http://missionarchery.com)**

Share your Mission® hunts by posting photos and stories at [missionarchery.com/fieldreports](http://missionarchery.com/fieldreports), and become a fan on Facebook to get all the latest news from the Mission camp:

Mission® User Name \_\_\_\_\_ Password \_\_\_\_\_



Share your latest hunt and check out what other hunters are doing.

FIND US ON FACEBOOK



Discussions, photos, upcoming events, sneak peaks & more.



# MISSION®

BY MATHEWS®

Owners Manual

Thank you for choosing a



Please read this owners manual thoroughly for usage instructions and safety guidelines.

To activate the Lifetime Warranty\* on your new bow, **you must register online at: [missionarchery.com](http://missionarchery.com)**

### Mission® Limited Lifetime Warranty\*

#### LIMITED LIFETIME WARRANTY.

YOUR MISSION® BOW IS WARRANTED AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP TO THE ORIGINAL, REGISTERED OWNER WHEN PURCHASED AT AN AUTHORIZED RETAILER, FOR THE LIFE OF THE ORIGINAL OWNER. THIS INCLUDES ALL BOW PARTS EXCEPT THE STRING, BUSS CABLE, CABLE SLIDE, RUBBER STRING SUPPRESSORS, MONKEY TAILS, STRING GRUB AND COSMETIC APPEARANCE (CHIPS, DINGS, SCRATCHES) CAUSED BY NORMAL USE AND WEAR. **ALL WARRANTY CLAIMS ARE PROCESSED THROUGH AN AUTHORIZED MISSION® RETAILER.** YOUR AUTHORIZED MISSION® RETAILER WILL CONTACT A MISSION® WARRANTY TECHNICIAN ON YOUR BEHALF. ANY AND ALL WARRANTIES, WRITTEN OR IMPLIED, ARE VOID WITH ANY ALTERATIONS TO THE BOW INCLUDING COSMETIC REFINISHING.

#### LIMITATION OF LIABILITY

MATHEWS MANUFACTURING, INC. SHALL NOT BE LIABLE FOR ANY SPECIAL OR CONSEQUENTIAL DAMAGES THAT RESULT FROM THE PERFORMANCE AND USE OF THE PRODUCTS, EVEN IF MATHEWS MANUFACTURING, INC. HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. APPLICABLE LAW MAY NOT ALLOW THE LIMITATIONS OF EXCLUSION OF LIABILITY OR INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

#### NOTE:

Mission® reserves the right to make substitutions on warranty coverage for any reason, including but not limited to available parts and/or camo pattern. Authorized Mission® Retailers may charge for warranty work performed.

\* Limited Lifetime Warranty to the Original Owner.

### Safety First. Bulls-Eyes Second.

Before using this equipment, please abide by all of the following safety guidelines and warnings. Consult your Authorized Mission® Retailer with questions.

To insure your personal safety and the safety of those around you, it is necessary that you **READ, UNDERSTAND** and **FOLLOW** all warnings and safety precautions prior to using or working on your bow or any archery equipment used with the bow.

**WARNING:** This bow is intended strictly for recreational use only. The warnings that follow are specifically directed to the use of the bow.

**WARNING:** Mission Archery Incorporated shall not be liable for injuries suffered or caused by misuse, unsafe or improper arrow and bow combinations or for injuries sustained when using an altered or modified bow or by un-conventional use.

**WARNING:** Never work on, or attempt to shoot your Mission® bow while on medication that may impair your judgment, physical abilities, or reflexes. Never work on, or attempt to shoot your Mission® bow while under the influence or while consuming drugs or alcohol. Doing so can result in damage to the bow, inflict serious injury or even death.

### Equipment Warnings

**NOTICE:** While the warnings contained herein relate specifically to the bow and arrow, the majority of bows produced are used in bow hunting situations where other types of equipment and accessories are used.

If you are a bow hunter, it is highly recommended that you become knowledgeable of the recommendations and warnings that are associated with all equipment that you use while bow hunting.

**WARNING:** Your Mission® bow is a precision instrument that requires specific tools and expertise. Accordingly, Mission® recommends that all maintenance and repair of your Mission® bow be performed by an Authorized Mission® Retailer. Failure to comply with this warning may cause damage to your bow and may inflict serious injury or even death and may void your warranty. Mission® shall not be held liable if this warning is ignored.

### Storing and Maintaining Your Bow

**WARNING: NEVER EXPOSE YOUR BOW TO EXTREME HEAT OR PROLONGED MOISTURE.**

Avoid storing your bow for extended periods of time in areas subject to extreme heat, such as the trunk of a vehicle or in a garage. Damage to your limbs, strings, and other parts of the bow caused by extreme heat, may not be covered under the manufacturer's lifetime warranty.

If your bow becomes exposed to moisture, be sure it is completely dry before storing it. Do not use solvents, sprays or cleaners such as acetone or mineral spirits, on or around your bow, as they may adversely affect the finish. Rather, use a damp cloth to clean.

### Prior to Shooting Your Bow

**WARNING: CAREFULLY INSPECT YOUR BOW BEFORE EACH USE.**

Always be sure that you take the following actions before each use of your bow:

- > Carefully inspect the condition of the bowstring and cable(s).
- > Carefully inspect the condition of the string servings, nocking point or string loop.
- > Carefully inspect that the limbs, cams and riser are in proper condition and orientation.
- > Always keep your bow string and cable(s) waxed.
- > Damaged strings and cable(s) will adversely affect the performance of your bow and could result in further damage to other bow components and may inflict serious injury to yourself and those around you.

## Prior to shooting (*con't*)

Always inspect bow string and cable(s), arrows, nocks, fletching, arrow rest, bow sight, and all other accessories before use for damage. Any damaged bow parts or accessories should be reported to your Authorized Mathews® Retailer for inspection or replacement.

**WARNING:** Use extreme caution when handling sharp objects or arrows equipped with broadheads around the bow's string and cable(s). If a string or cable is cut or frayed it should be replaced immediately. A cut string or cable(s) can result in instantaneous separation and may inflict serious injury to yourself and those around you.

**WARNING: NEVER DRY-FIRE YOUR BOW.** Dry-firing is when the bow string is drawn and released without an arrow nocked to the string. If you dry-fire your bow it may severely reduce the life expectancy of the bow and may cause immediate damage to the bow and may inflict serious injury to yourself and those around you.

**WARNING:** Always shoot the recommended minimum arrow weight. Do not shoot an arrow weighing less than five grains for every pound of draw weight. For example, if your bow is set at 70 lbs. do not shoot an arrow weighing less than 350 grains. Shooting an arrow below five grains per pound of the bows draw weight can cause damage to your bow and may inflict serious injury to yourself and those around you. Damage caused by shooting an arrow that is too light will not be covered under warranty. Shooting an underweight arrow has an effect similar to that of a dry-fire and may inflict serious injury to yourself and those around you. If you are unsure about the arrow compliance to your bow, contact your Authorized Mission® Retailer or the arrow manufacturer.

**WARNING:** Always follow the inspection recommendations provided by the manufacturer of your arrows. Inspect your arrows and nocks regularly or preferably before each use. Immediately discard any dented, split, splintered or otherwise damaged arrows. Replace cracked, damaged or broken nocks.

**NEVER SHOOT A DAMAGED ARROW.** Shooting a damaged arrow may inflict serious injury to yourself and those around you.

## Shooting Your Bow

**WARNING: ALWAYS BE SAFE! NEVER** shoot straight up. **NEVER** draw or attempt to shoot your bow until you are sure that no part of the bow can come into contact with another object during the shooting process. **DO NOT** draw the bow beyond its specified draw length. **NEVER** point or aim a drawn bow at another person or at any object you do not intend to shoot.

**WARNING: ALWAYS BE SURE OF YOUR TARGET.** Make sure that there are no people, livestock, buildings, roads or other objects behind or near your target. Be sure that your backstop is large enough to catch a stray arrow and that it is thick enough that the arrow cannot completely penetrate through it. When shooting with others, never retrieve arrows or allow others to retrieve arrows until all arrows have been shot and the shooting lane is clear.

## Draw Weight & Draw Length Adjustability

Draw weight adjustments can be made by turning the limb bolt counter-clockwise using a 7/32" Allen wrench (except for Menace®, which requires a 3/16" Allen wrench). It is important to adjust both limb bolts in equal amounts. Do not exceed the recommended turns out from the maximum draw weight. See adjustability charts for details.

### SINGLE CAM BOWS - VENTURE® & FLARE™

Cams on the following models are unique to the individual bows. On the models listed below you will have to change the cam in order to change the draw length. Please visit your local Mission® authorized retailer if you wish to change your draw length on any of these bows.

Model	Cam	Draw Lengths	Let-Off (Approx.)
Venture®	Voyager/Venture Cam	26" - 31.5"	80%
Flare™	Elim Cam	24" - 30"	80%

Venture® (Maximum turns = 4)	Limb Peak Weights (lbs)	Peak Weight (lbs)	Minimum Weight (lbs)	Lbs Per Turn
	70 lbs	70	50	5
	60 lbs	60	42	4.5
	50 lbs	50	35	3.75

Flare™ (Maximum turns = 4)	Limb Peak Weights (lbs)	Peak Weight (lbs)	Minimum Weight (lbs)	Lbs Per Turn
	60 lbs	60	42	4.5
	50 lbs	50	30	3.75

### BLAZE™ CAM

The Blaze™ features the patented AVS Cam System™ like the Ballistic™ but we added a weight in the cams to give it the added speed with the proven performance you would expect from this cam. Using the same mods that the ballistic has (see chart below) you can change the draw length from 26" - 30" including half sizes in 26.5" - 29.5" without using a bowpress. This is a modular system so a new set of mods will need to be inserted in both cams to achieve the desired draw length. To adjust you will need a 1/8" allen wrench and remove the 2 stainless screws in the mods, remove the mod and replace with the desired draw length. Reinsert the 2 screws and repeat the same procedure on the other cam. **(DO NOT OVERTIGHTEN SCREW)** a good snug fit will work adequately. Make certain that both mods are the same letter, Do not put in a mismatching set of mods, the Blaze™ will not perform and will cause undo wear. See chart below for letter to draw length matching.



The weight adjustment range is 20 lbs., with a peak weight of 70 lbs. 6 full turns out on the limb bolt will achieve the full range of 20 lbs. **DO NOT GO MORE THAN 6 FULL TURNS**, this could cause severe damage to the bow or yourself.

Draw Length (in.)	30"	29.5"	29"	28.5"	28"	27.5"	27"	26.5"	26"
Module Set	A	B	C	D	E	F	G	H	I

## BALLISTIC™ CAM

The Ballistic™ features the patented AVS Cam System™. This proven system offers outstanding performance and a great range of adjustability. The Ballistic™ draw length is can be adjusted from 26" - 30" including ½" from 26.5" - 29.5". without using a bow press. This is a modular system so a new set of mods will need to be inserted in both cams to achieve the desired draw length.



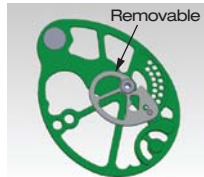
To adjust you will need a 1/8" allen wrench and remove the 2 stainless screws in the mods, remove the mod and replace with the desired draw length. Reinsert the 2 screws and repeat the same procedure on the other cam. **(DO NOT OVERTIGHTEN SCREW)** a good snug fit will work adequately. Make certain that both mods are the same letter, Do not put in a unmatching set of mods, the Ballistic™ will not perform and will cause undo wear. See chart below for letter to draw length matching.

The weight adjustment range is 20 lbs., with a peak weight of 70 lbs. 6 full turns out on the limb bolt will achieve the full range of 20 lbs. **DO NOT GO MORE THAN 6 FULL TURNS**, this could cause severe damage to the bow or yourself.

Draw Length (in.)	30"	29.5"	29"	28.5"	28"	27.5"	27"	26.5"	26"
Module Set	A	B	C	D	E	F	G	H	I

## RALLY® CAM w/Opti-Mod™ System

The Rally® features the patent-pending Opti-Mod™ cam system. This system offers exceptional performance and adjustability. The Rally's® draw length can be easily adjusted from 22 to 30 inches (in ½" increments) without a bow press. You can safely adjust the bow to meet your personal specs. To adjust draw length, simply remove the 3/32" Allen screw from the module and rotate the draw module so the desired draw length hole aligns with the set screw hole (holes closest to the axel are for ½" lengths). Reinsert mod set screw and snug the self-locking screw into position by a quarter turn **(DO NOT OVER TIGHTEN)**. Repeat this process on the second cam making sure the both modules are set in the same draw length position.



The Rally® is available in 4 different peak draw weights; 70, 60, 50, and 40 lbs, in conjunction with standard limb bolt adjustment. Draw weight can be adjusted between the minimum and maximum by turning the limb bolt in or out as needed (1 turn = approximately 3 lbs of draw). The peak weights are changed by replacing the Opti-Mod™ with the desired weight mod. To change the Opti-Mod™, simply remove the Opti-Mod™ (remove the 3/32" Allen set screw and rotate mod off the axle) and replace with the desired draw weight mod. *To see the draw weight to draw length comparison, please reference the chart below listing weight range for each mod.*

Rally® (Max. turns = 3)	Limb Module Weight (LBS)	Draw Lengths									
		30"	29"	28"	27"	26"	25"	24"	23"	22"	
70	Peak / Min. Wt.	70/60	70/60	70/60	70/60	68/58	65/55	62/52	57/47	52/42	
60	Peak / Min. Wt.	60/50	60/50	60/50	60/50	58/48	55/45	52/42	52/42	48/38	
50	Peak / Min. Wt.	50/40	50/40	50/40	50/40	48/38	45/35	42/32	42/32	41/31	
40	Peak / Min. Wt.	40/30	40/30	40/30	40/30	40/30	39/29	39/29	38/28	36/26	

## RIOT® & CRAZE® CAM

The Craze® and the Riot® feature the CZ cam system. The CZ cam system offers exceptional performance and adjustability. The Craze® can be easily adjusted from 19 to 30 inches of draw length and 15 – 70 lbs of draw weight without a bow press. You can safely and easily adjust them with an Allen wrench. To adjust draw length, simply remove the 1/8" Allen screw from the module and rotate the draw module so the desired draw length hole aligns with the set screw hole. Reinsert mod set screw and snug the self locking screw into position by a quarter turn **(DO NOT OVER TIGHTEN)**. Repeat this process on the second cam making sure the both modules are set in the same draw length position. As you adjust the draw length, the weight range changes. Adjust the weight by turning the limb bolts to the desired weight with each turn representing approximately 3 lbs of pull (*reference the chart below to see the specific weight range for each draw length*).



### Riot® & Craze® (Maximum turns = 9)

Draw Length (in.)	30"	29"	28"	27"	26"	25"	24"	23"	22"	21"	20"	19"
Max. weight	70	70	70	70	70	70	67	64	60	56	51	46
Min. weight	33	31	30	29	27	26	25	23	21	19	17	15

## MENACE® CAM

The Menace® features the 2CPW cam (two cam perimeter weighted) system. This system offers great performance and an adjustability range that is perfect for beginners. The Menace's® draw length can be easily adjusted from 17 to 30 inches without the need of a bow press. You can safely and easily adjust the bow to meet your needs. To adjust draw length, simply remove the 1/8" Allen screw from the module and rotate the draw module so the desired draw length hole aligns with the set screw hole. Reinsert mod set screw and snug the self-locking screw into position by a quarter turn **(DO NOT OVER TIGHTEN)**. Repeat this process on the second cam making sure the both modules are set in the same draw length position. The Menace® has a draw weight range of 16 – 52 lbs, depending on the draw length. Adjust the weight by turning the limb bolts to the desired weight with each turn representing approximately 3 lbs of pull (*reference the chart below to see the specific weight range for each draw length*).



### Menace® (Maximum turns = 5)

Draw Length (in.)	30"	29"	28"	27"	26"	25"	24"	23"	22"	21"	20"	19"	18"	17"
Peak weight	52	51	50	49	48	47	46	45	43	40	37	33	29	24
Min. weight	36	35	34	33	32	31	30	29	27	25	22	20	18	16

Thank you for choosing a Mission®  
Visit [missionarchery.com](http://missionarchery.com) for further information