MISSIONCROSSBOWS.COM
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MISSION
CROSSBOWS

OWNER'S MANUAL

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SAFETY RULES & INSTRUCTIONS

⚠ WARNING SAFE USE OF YOUR MISSION® CROSSBOW IS YOUR PERSONAL RESPONSIBILITY AND THE FAILURE TO FOLLOW ALL OF THESE BASIC SAFETY RULES AND INSTRUCTIONS MAY RESULT IN SEVERE PERSONAL INJURY OR DEATH TO YOU OR OTHERS.

1. **⚠ CAUTION** Your Mission crossbow is a precision instrument that requires specific tools and expertise. Accordingly, Mission recommends that all maintenance and repair of your Mission crossbow be performed by an Authorized Mission Retailer. Failure to comply with this requirement may cause damage to your crossbow, inflict serious injury, and may void your warranty.

2. **NOTICE** While this crossbow has been factory tested, and is delivered pre-assembled to ensure your safety, this manual also provides general crossbow information including parts identification, extensive loading, cocking and safety instructions.

3. NEVER expose your crossbow to extreme heat or prolonged moisture while in the cocked position.

4. AVOID storing your crossbow for extended periods of time in areas subject to extreme heat, such as the trunk of a vehicle, your attic, or in a damp garage.

5. NEVER use solvents, sprays or cleaners such as acetone or mineral spirits on or around your crossbow, as they may adversely affect the finish, or damage components. Use a damp cloth or light gun oil for cleaning.

6. **⚠ CAUTION** Mission dedicates itself to quality and safety. To ensure a safe and reliable shooting experience your Mission crossbow is equipped with an automatic safety mechanism. The safety will automatically engage when you fully cock the crossbow. As with any firearm, it is your responsibility to ensure that the safety is properly engaged when your crossbow is cocked, and remains engaged until you are ready to put your finger on the trigger. (See Figs 1.1 - 1.3)

Fig 1.1: Auto Safety Mechanism

Fig 1.2: FIRE position

Fig 1.3: SAFE position

7. ⚠CAUTION Anyone operating a crossbow under the age of 18 should always be accompanied by an adult.

8. ⚠WARNING ALWAYS BE AWARE OF YOUR TARGET AND WHAT'S BEYOND. NEVER POINT YOUR CROSSBOW TOWARD OR IN THE DIRECTION OF ANOTHER PERSON.

9. ⚠CAUTION Handle every crossbow with the same respect as a firearm. A crossbow can be dangerous and potentially fatal when mishandled.

10. ⚠WARNING KEEP FINGERS AND THUMBS CLEAR OF THE CROSSBOW RAIL. NEVER PLACE ANY OBJECTS IN THE WAY OF THE STRING OR LIMBS TO AVOID EQUIPMENT DAMAGE OR SERIOUS PERSONAL INJURY. (See Figs 2.1 and 2.2)

Fig 2.1: Correct Finger Placement

Fig 2.2: Correct Thumb Placement

11. ⚠WARNING NEVER DRY FIRE YOUR MISSION CROSSBOW. Doing so will void your warranty, and could result in serious injury to you and/or others, as well as damage the crossbow.

Dry firing means firing the crossbow without a bolt/arrow loaded into the crossbow receiver. In the process of cocking the crossbow the Anti-Dry Fire device is activated automatically and the trigger mechanism is placed in the Safe "S" position. In this condition the crossbow cannot be fired until an arrow/ bolt is in place. Only when an arrow/bolt is in place and you are ready to shoot, should the safety be moved to the "Fire" position. Should a dry-fire occur, your crossbow must be completely inspected for damage to its components before further use.

12. ALWAYS use authorized crossbow bolts/arrows for shooting. Bolts/arrows must weigh a minimum of 400 grains and be designed for your Mission crossbow.

13. NEVER point your crossbow at a target unless you intend to shoot.

14. NEVER place your finger on the trigger until you are ready to discharge your crossbow.

15. NEVER alter your crossbow from factory specifications in any way. This will void your lifetime warranty and potentially cause harm to you or bystanders.

16. NEVER transport, store or do any climbing with your crossbow while it is loaded.

17. ALWAYS wear safety glasses when using your crossbow.

18. ALWAYS carefully inspect bolts/arrows and crossbow for damage or missing parts before every use.

19. ALWAYS wear a safety belt or harness when hunting from a tree stand or elevated position.

20. NEVER attempt to cock your crossbow while in your tree stand unless you are securely harnessed into your stand and you have practiced and can perform this maneuver while at ground level.

21. IMMEDIATELY replace any frayed or severely worn string or cables. (See Fig. 4.1)

22. ALWAYS use proper lifting techniques when manually cocking your crossbow. (See Fig 5.1)

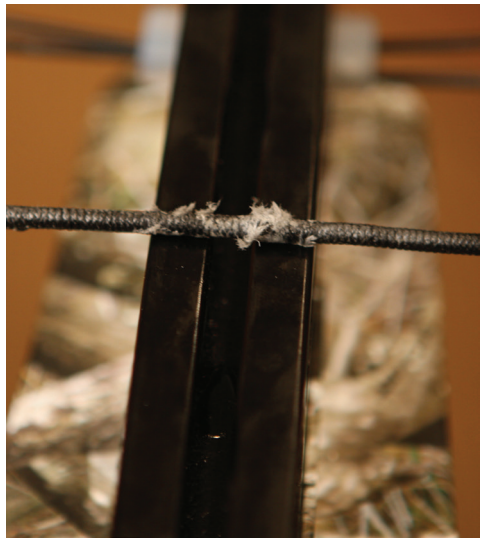
Fig 4.1: Example of a worn crossbow string

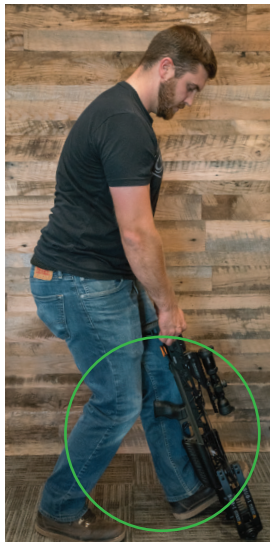
Fig 5.1: Correct lifting technique

23. NEVER work on or attempt to shoot your Mission crossbow while on medication that may impair your judgement, physical abilities, or reflexes.

24. NEVER work on or attempt to shoot your crossbow while under the influence of alcohol or while consuming drugs. Doing so can result in damage to the bow or inflict serious injury or even death.

25. ALWAYS handle crossbow bolts/arrows that are equipped with broadheads with extreme care.

26. ALWAYS utilize a quiver to protect yourself and your crossbow's components from bolts/arrows tipped with sharp broadheads.

27. ALWAYS check your crossbow before each use. Check the limbs and cam system for any nicks, deformation or signs of damage, also check that the string and cables are properly oriented in the cams with no severed strands or excessive fraying.

COCKING INSTRUCTIONS & SAFETY

⚠ CAUTION Practicing the following procedures until they become second nature will ensure that you load your crossbow safely and accurately every time. Improper crossbow cocking could result in injury.

1. **⚠ WARNING** AS THE BOWSTRING IS LOADED INTO THE RECEIVER THERE WILL BE AN AUDIBLE "CLICK" AS THE STRING CATCH IS ENGAGED WITH THE BOWSTRING. DURING THIS PROCESS THE SAFETY WILL AUTOMATICALLY ENGAGE AND BE PLACED INTO THE "SAFE" POSITION, MARKED S. ALWAYS MAKE SURE YOUR SAFETY IS ENGAGED UNTIL YOU ARE READY TO FIRE YOUR CROSSBOW. (See Fig 7.2)

2. **⚠ WARNING** When manually cocking your crossbow, use proper lifting technique to avoid shoulder, back or finger injury. A cocking rope is supplied with every Mission crossbow for your safety and crossbow cocking convenience.

3. Place foot on the RS Tread™ to secure crossbow against the ground. (See Fig 7.3)

4. ALWAYS make sure the cocking rope is secured around the PCC Anchor.™ (See Fig 7.4)

5. ALWAYS make sure the hooks are located closely to each side of the rail and located (hooks up) to capture the string. (See Fig 7.5)

6. NEVER attempt to cock your Mission crossbow without a cocking rope or RSD to prevent unbalanced string engagement which can adversely affect accuracy.

7. With your hands on the handles of the cocking rope and close to the crossbow rail, pull the string the full length of the rail stopping when the trigger assembly receiver makes a pronounced CLICK. This indicates that the string is fully engaged into the string catch and the automatic safety has been engaged. Please check to make sure the crossbow safety is engaged in the "SAFE" position.

8. **⚠ WARNING** NEVER ASSUME THE SAFETY IS ON. ALWAYS CHECK THE SAFETY BEFORE INSTALLING A CROSSBOW BOLT / ARROW.

Fig 7.1: FIRE position

Fig 7.2: SAFE position

Fig 7.3: Foot Placement

Fig 7.4: PCC Anchor

Fig 7.5: Cocking rope string placement

COCKING INSTRUCTIONS & SAFETY (CONT'D)

9. **⚠ CAUTION** Before firing your crossbow, always check to make sure your bolt/arrow is installed cock vane down and the aluminum bolt nock is secured tightly against the string. (See Figs 8.1 & 8.2) Failure to do this may result in a dry fire injuring yourself or damaging the crossbow.

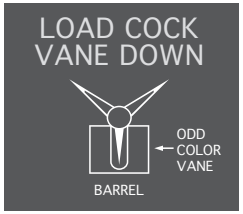

Fig 8.1: Bolt loading placement in the rail

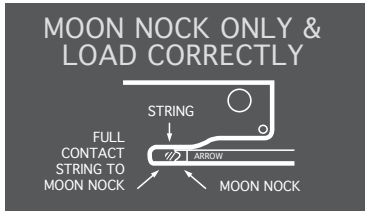

Fig 8.2: Moon nock on bolt/arrow must have full contact with the string.

DECOCKING WARNINGS
(Non-Benchmark Fire Control Systems)

⚠ WARNING NEVER ATTEMPT TO "DECOCK" YOUR GEN 1 CROSSBOW* BY HAND OR WITH A COCKING ROPE. DECOCKING A CROSSBOW BY ANY MEANS OTHER THAN SHOOTING IT COULD CAUSE PERSONAL INJURY TO YOU (I.E. BACK OR HAND INJURIES).

⚠ CAUTION The recommended method to decock your Gen 1 Crossbow is to shoot the arrow into a target or into the soft ground a few feet in front of you. If you want to switch to a different crossbow arrow/bolt prior to shooting to decock the crossbow use the following steps.

1) Reposition the safety to the "S" Safe location making the trigger inoperable and re-engage the Anti-Dry fire mechanism avoiding the possibility of a dry-fire.

2) Carefully replace your arrow/bolt with one more suitable to shoot into a target or into the ground.

3) Aim at the target or soft ground a few feet in front of you, move the safety to the Fire "F" position and discharge the arrow/bolt.

*Gen 1 Crossbow models: MXB-Charge, MXB-Dagger, MXB-Sniper Lite, MXB-320, MXB-360, MXB-400.

DECOCKING INSTRUCTIONS
(Benchmark Fire Control Systems Only)

STEP 1: Disarm your crossbow

- Make sure your loaded crossbow is in the SAFE position.
- Once in the safe position, remove your arrow and return arrow to the quiver.
- Place bow on the ground and place foot on Riser Tread.

STEP 2: Place Cocking Rope on bowstring

- With the orange handle in your right hand and your foot on the Riser Tread, place cocking rope behind the PCC Anchor and attach the hooks to the bowstring.
- With one hand reach, down and press the unload button from left to right.

STEP 3: Unload your crossbow

- With a cocking rope handle in each hand (orange on the right) and a good grip, pull rearward to the stop. This dis-engages the bowstring latch.
- Let the string down slowly and in control, with the cocking rope, until the bow is back in the brace condition.

BOLT / ARROW SPECIFICATIONS & REQUIREMENTS

NOTICE Mission® recommends using our customized Mission branded bolts / arrows that are equipped with aluminum half moon nocks and meet all minimum weight and length specifications.

1. Mission recommends using bolts / arrows with aluminum nocks that are half moon shaped. This will greatly reduce the possibility of nock failure creating a dry fire situation, which may result in damage or injury. (See Fig 9.1)

2. The bolt / arrow must have a minimum fletching clearance of 1.35" from inside of nock to beginning of the vane. (See Fig 9.2)

3. Total bolt / arrow weight WITH broadhead or field point installed must be a minimum of 400 grains.

4. NEVER shoot a crossbow bolt / arrow without a field point or broadhead.

5. ALWAYS load bolts/arrows cock vane down into the slot in the rail with the moon nock in full contact with the string. (See Figs 8.1 & 8.2 on previous page)

6. Inspect bolts / arrows for damage after every shot. (See Fig 9.4)

7. It is recommended that fixed blade broadheads be tuned to match bolt / arrow fletching.

Fig 9.1: Aluminum "Half-Moon" Style nocks only

Fig 9.2: Minimum fletching clearance

Fig 9.3: Recommended Mission Bolts/Arrows

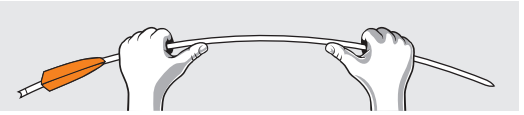

Fig 9.4: Arrow Inspection - Flex the shaft while rotating it to look for defects and listen to detect cracking or popping sounds that tend to indicate fractures.

CROSSBOW MAINTENANCE

⚠CAUTION Your Mission crossbow is a precision instrument that requires specific tools and expertise. Accordingly, Mission recommends that all maintenance and repair of your Mission crossbow be performed by an Authorized Mission retailer.

⚠WARNING FAILURE TO COMPLY WITH THIS REQUIREMENT MAY CAUSE DAMAGE TO YOUR CROSSBOW, INFLICT SERIOUS INJURY OR EVEN DEATH, AND MAY VOID YOUR WARRANTY.

1. Keep the trigger and anti-dry fire mechanism clear of debris. The trigger/receiver assembly is designed to operate without additional lubrication. Lubing the trigger can result in attracting dirt and grime resulting in less than optimum trigger performance.

2. To ensure the safety is operating properly, cock and load your crossbow and test the safety. Aim your crossbow with an arrow at a specific target in a safe direction before pulling the trigger to test the safety device.

3. Protect all external metal parts of your crossbow with a light film of gun oil.

4. Make sure your crossbow receives a thorough drying if used in wet conditions.

5. Inspect limbs and bolt/arrows periodically to ensure there are no signs of damage, such as cracks, nicks, or slivers in the materials.

6. In the event of contacting your crossbow limb with an object during a shot, always check limbs and cams for damage. (See Fig 10.1)

7. All bearings and axles are pre-lubed and do not require additional lubrication or grease.

8. Lubricate the rail using Mission Rail Lube every 5-10 shots to prolong the life of your string. (See FIg 10.2)

Fig 10.1: Avoiding obstructions

RSD SYSTEM

We lead the industry with the first-ever silent mechanical cocking device for crossbows. The patented RSD (Removable Silent Draw) fits all Mission Crossbows and can be installed or removed in a matter of a few seconds. In addition to being completely silent, the RSD improves accuracy through the use of a floating rope-pull that ensures equal tension is applied to each side of the bowstring during the draw. The RSD System is outfitted with a removable, ambidextrous handle that when engaged will reduce the operator's effort by twenty five times. The RSD System makes it possible for virtually anyone to draw a crossbow in complete silence.

FEATURES AND BENEFITS OF RSD

- Safe and silent
- Attach or remove in seconds
- Self centering string for superior accuracy
- Easily draw every Mission crossbow
- Ambidextrous operation
- Operate crossbow with RSD attached or removed

Visit the video gallery on missioncrossbows.com to see videos on the features and how to operate the RSD.

MISSION LIMITED LIFETIME WARRANTY*

To activate the Lifetime Warranty* on your new bow, you must register online at: missioncrossbows.com

LIMITED LIFETIME WARRANTY.

YOUR MISSION CROSSBOW 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, TRIGGER, 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 CROSSBOW 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.

NOTICE The warranty will be void if any of the following occur:

1. Failure to follow the safety and operating instructions in the owners manual;

2. Crossbow is not registered by original purchaser;

3. Crossbow is purchased from unauthorized retailer (not authorized by Mathews and Mission);

4. The crossbow or any of its parts or accessories are altered from their original state;

5. Damage is caused by abuse or neglect;

6. Dry fire damage caused by using plastic or non “half-moon” nocks;

7. Damage is caused by dry firing or by using underweight bolts/arrows (lighter than recommended in the Owners Manual); or

8. The crossbow is rented or loaned for use by others.

PERSONAL RECORDS

Remember, your Mission warranty is only activated when you register your bow. Register now at: mission-crossbows.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 _____

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THANK YOU

FOR PURCHASING YOUR MISSION CROSSBOW!

For more information, how-to and technical videos visit missioncrossbows.com.