

# GHOST 410



SHOWN WITH OPTIONAL ACCESSORIES

**OWNERS MANUAL**  
**SAFETY GUIDELINES**  
**ASSEMBLY GUIDELINES**  
**TROUBLESHOOTING**  
**GENERAL INFORMATION**  
**WARRANTY INFORMATION**  
**CARE AND MAINTENANCE**

 **BARNETT**  
CROSSBOWS



***Congratulations, you are the proud owner of one of the finest production crossbow in the world!***

Please follow all safety, assembly and troubleshooting instructions contained in this manual. It is extremely important to read and follow the instructions before attempting to use your crossbow. Serious injuries to yourself or others, damage to your crossbow or poor performance from your crossbow could result from failure to thoroughly read and understand these instructions. If any part of this manual is unclear to you contact the Sales Department at (727) 234-4999. After assembly of your crossbow, please keep manual for future reference.

As with any high-performance equipment, meticulous care and a regular maintenance schedule must be maintained.

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## ***Specifications***

Feet per Second	410
Power Stroke	15.375"
Draw Weight	185lbs
Physical Weight	7.2lbs
Width	22"
Length	37.375"
String Length	38.875"
Number of Strands	28
String Stock Number	16193
Cables Stock Number	16194

## ***Parts List***

Before assembling your crossbow, take a moment to organize these parts and ensure you have everything you need.

If you are missing any of the below parts, contact the Barnett Sales Department at (727) 234-4999.

- 1 Hex Key
- 1 Lubewax
- 1 Nose Bolt
- 1 Lock Washer
- 1 Rope Cocking Device

## **Safety Guidelines**

The **GHOST 410** is equipped with an automatic **anti-dry fire** safety, which engages every time the crossbow is cocked. The safety must be released before each shot. This, as with any other mechanical device, does not guarantee total safety, as no safety device is a substitute for common sense and safe handling. The crossbow trigger is only to be pulled when the safety is in "fire" or "Off" position and NEVER when it is in the "safe" or "OJ" position or anywhere between "safe" and "fire" (Off or On). Do not attempt to alter or modify the safety or the trigger mechanism.

***The following rules should be followed at all times:***

***EXTREME CAUTION SHOULD BE USED AT ALL TIMES WHEN HANDLING A CROSSBOW. FAILURE TO FOLLOW THESE RULES COULD RESULT IN SERIOUS INJURY OR DEATH.***

- Always inspect the crossbow and arrows before firing. Bent or damaged arrows/nocks are not safe to fire and should be discarded or repaired.
- **Always keep your fingers below the flight track and out of the path of the string and cables when firing the crossbow.** The velocity of the string striking your fingers as the string travels forward could cause severe personal injury.
- Never dry fire the crossbow (shoot without an arrow). **Dry firing will void the warranty** and can result in damage to the string, cables, and limbs, possibly causing personal injury.
- Never fire the crossbow until you are sure of your target.
- Always use an adequate target and backstop when target shooting.
- Always use suitable crossbow arrows, such as Barnett 22" carbon arrows with half-moon nocks. Arrows of improper stiffness or mass weight may damage the string, cables, and limbs, *voiding the warranty* and possibly causing personal injury. Too light of an arrow can cause a dry fire/misfire.

## Crossbow Breakdown



1. String
2. Cams
3. Cables
4. Carbon Fiber Riser
5. Shoot-Through Foot Stirrup
6. Arrow Retainer Spring
7. Cheek Piece

(Shown with optional accessories not listed above. i.e. scope, quiver and arrows.)

# PREMIUM QUIVER ASSEMBLY INSTRUCTIONS

1. The premium quiver components are contained in two separate packages. The first package will contain the quiver itself and a mounting bracket. The second package contains an Allen wrench and two bolts.  
  
2. Remove the mounting bracket from the package. Locate the quiver adapter the front of your crossbow. (Shown below)  
See Fig. A
3. Bolt the mounting bracket to the adapter on the front of the crossbow using the supplied Allen wrench and two bolts. The bracket should be oriented as shown in the picture below.  
See Fig. B



**Fig. A**



**Fig. B**

## Installing Quiver Continued

- Slide the quiver into the mounting bracket from the side until it snaps in to the first mounting hole (See picture below). Then rotate the quiver until it snaps in place. See Fig. C
- Congratulations, you have mounted your quiver. Your quiver should look like this (Depending on your preference): See Fig. D

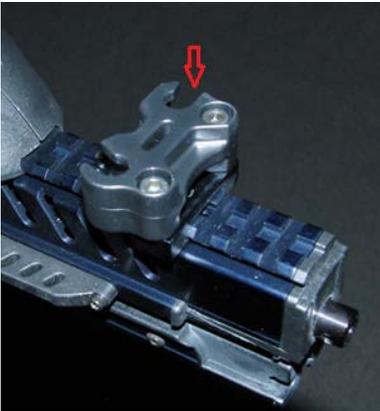


Fig. C

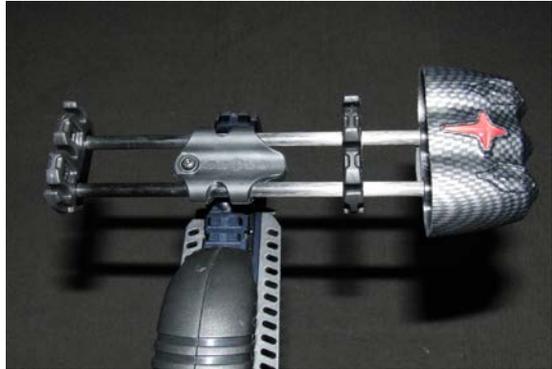


Fig. D

## ***Attaching Bow Assembly to Stock***

- Place the cables under front edge of flight track -- this should cause the string to rest on top of the flight track **See Figure 6**. Push the bow assembly until it seats securely over the nose plug. *See Figure 7*.
- Turn bow over and engage prod by seating the bow assembly onto the stock.
- Place lock washer on bolt, then insert bolt through bushing **See Figure 8**
- Insert bolt through bow assembly into stock and tighten with supplied hex key until the lock washer has compressed (DO NOT OVERTIGHTEN).



**Fig. 6**



**Fig. 7**



**Fig. 8**

## ***Installing an Optional Scope or Red Dot Sight***

- Position your scope by moving it forward or backward until the proper eye relief is found. This is typically three to four inches from your eye to the eyepiece when you are holding the crossbow in a shooting position.
- Tighten the scope mounting side plates with caution.

**Important:** Be sure to tighten windage/elevation caps and scope mount rings before shooting crossbow.

## ***Sling Installation***

- Unscrew sling Swivel pin to its loosest allowed position.
- Keeping fingers clear of the sling swivel latch push sling swivel inward and rotate swivel latch to the side. *See Figure 9*
- Insert the sling swivel into swivel stud located on the stock of your Ghost 410. *See Figure 10*
- Push the swivel pin and rotate the latch to lock the sling swivel into place. *See Figure 11*

Repeat steps to attach opposite swivel stud.

To attach the optional quick-disconnect gator clip, adjust smaller strap to desired length - lift latch and attach to preferred area. Lower latch to secure.



*Fig 9*



*Fig 10*



*Fig 11*

## Operation

### Cocking your Crossbow

There are three different methods to cock your crossbow. By hand (which is illustrated below), by optional rope cocking device (RCD) (**PREFERRED METHOD**) or crank cocking device (CCD). Please refer to the individual instructions included with the optional accessories for further instructions.



Fig 12

**IMPORTANT:** Before cocking your crossbow, mark the serving on each side of the flight track at rest with a colored marker. This will assist in consistency when cocking your bow. Unevenly cocked crossbows will have erratic arrow flight.

**Prior to cocking your crossbow, be sure to apply Barnett lubewax to your string, cables and flight track.**

**NOTE:** Proper footwear must be worn when operating your crossbow. Bare feet, flip-flops, house shoes, socks/stockings or open-toed shoes are not recommended.

- Place the shoot-through foot stirrup on the ground with one foot in the stirrup (using the ball of your foot to offset the draw weight of the crossbow) and the stock end resting against your thigh. *See Figure 12*
- Place both hands on the string no more than ½" on each side of the crossbow stock. With even pressure on each side, pull the string back until it locks into the trigger mechanism with an audible "click". Be sure to apply downward pressure against flight track. **Do not pull or lift the string away from the stock.**
- Slowly release hand pressure on the string until you are sure it is secure in the trigger mechanism. The crossbow is now cocked with the safety on.

## Loading your Crossbow

**IMPORTANT:** Barnett recommends only using arrows with half-moon nocks. See *Figure 13*

- When loading arrows onto the flight rail, be sure that the odd-colored fletch is placed in the flight groove and that the concaved portion of the nock is parallel to the string.
- Slide the arrow under the arrow retainer spring and **fully** into the trigger mechanism. **Note:** The arrow retainer spring should only exert enough pressure to hold the arrow in place without lifting the arrow from its position on the flight surface.

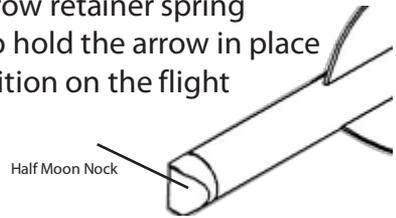


Fig 13

## Firing your Crossbow

To fire the arrow from your crossbow:

- Point the crossbow in a safe direction.
- Make sure the arrow retainer spring has maintained the arrow's fully loaded position into the trigger mechanism
- Push the safety forward to the off position. **NOTE: The Anti Dry Fire trigger mechanism will not fire without an arrow fully loaded in the trigger mechanism.**
- The crossbow will now fire when the trigger is pulled. The safety **MUST** be disengaged in this manner prior to every shot.

**BE SURE TO KEEP YOUR FINGERS BELOW THE STOCK FORE-END (FLIGHT TRACK) WHILE SHOOTING. Note photos below.**



**This will prevent your hands from being struck by the string as it travels forward. The velocity of the string hitting your fingers will cause severe injury.**

### ***Unloading your Crossbow***

The safest way to uncock your crossbow is to fire an arrow into a target or into the ground away from debris, loose rocks or other people. **Note:** Take caution not to target any solid object as the arrow may ricochet, potentially causing harm to you or others.

### ***Sighting In the Crossbow***

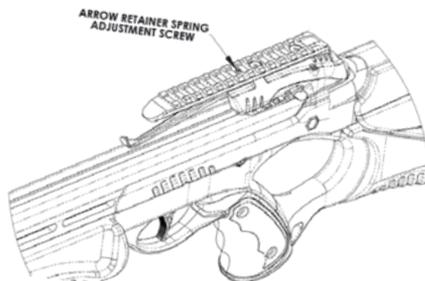
Please refer to the instructions included with your scope package.

### ***Arrow Retainer Spring***

When loaded, the arrow should lie flat in the flight groove. The arrow retainer spring should not be twisted to the side and should exert only enough pressure to hold the arrow in place. When the crossbow is pointed at the ground, the arrow should remain in place and not slide forward. It should not lift the front of the arrow off the flight groove, and the arrow should be parallel with the flight groove.

- To adjust the *composite*-style retainer spring turn the set screw clockwise to tighten pressure on the arrow and counterclockwise to loosen pressure on the arrow. **See Figure 14**
- **Note:** The arrow retainer spring's tension is set for Barnett arrow height. Therefore, after-market arrows may require adjustments.

***If you have any questions, please give our Customer Service Department a call, prior to adjusting.***



**12** Fig. 14

## **Arrow Selection and Proper Flight**

Due to the unique design of your Barnett crossbow, it is *imperative* that only specified arrows are used. These arrows are correctly spined and weighted to absorb the high energy generated by the compound design. Lighter arrows simulate a “dry fire” condition and will result in damage to the crossbow **VOIDING** the warranty.

## **Understanding Arrow Weights and Speeds**

The crossbow industry does not have set standards for calculating advertised speeds. Manufacturers use various arrow weights to depict their marketed speeds, anywhere from a 380-grain arrow to a 425-grain arrow. There are a lot of different factors to consider when choosing an arrow: speed, kinetic energy, down-range penetration, accuracy and potential wear that the arrow weight puts on the bow.

With over 50 years of experience, Barnett has found that the best performing arrows in all of those categories combined vary from bow to bow. Included with your bow purchase is the arrow that we feel is weighted for the best performance for your hunting experience. The arrow speeds in the chart below are provided to give you the power of your new Barnett bow in comparison to the other bows on the market.

380 grain arrow	400 grain arrow	425 grain arrow
418 feet per second	410 feet per second	357 feet per second

### **DRY FIRING WILL VOID THE WARRANTY.**

- Use Barnett a 22” carbon arrow with straight fletches and a half-moon nock.
- Mechanical broadheads that simulate the flight of a field point may be used where legal.
- The recommended fixed-blade broadheads can be any three-blade low-profile broadhead with a cutting diameter no larger than 1-3/16”.

## **IMPORTANT DISCLAIMER**

Due to the power of the **GHOST 410** and the inconsistent properties of wooden shafts (which have a tendency to warp, vary in spine stiffness, density, and moisture absorption - all of which could result in inaccuracy), Barnett Outdoors does not recommend their use under any circumstance. Possible injury could result from shaft breakage, etc. **We accept no responsibility or liability arising from the use of wooden-shaft arrows.**

## **Care and Maintenance**

### ***Care of String***

The owner's kit contains a tube of Barnett lubewax that should be applied to the center serving and flight track every 5-10 shots.

To extend the life of your cables, it is important to apply Barnett lubewax to all of the non-served area of the cables. Apply Barnett lubewax every 30-50 shots to the non-served area of the string, or when white fuzz begins to appear. If the crossbow has been exposed to excessive moisture, you may need to apply the lubewax more often.

**PRIOR TO EVERY SHOOTING SESSION, IT IS RECOMMENDED THAT A COMPLETE CHECK OF STRING, CABLES, CAMS, SCREWS AND ARROWS BE MADE.**

- Always store your crossbow in a safe, dry place.
- Do not expose your crossbow to extreme moisture or heat, such as closed, hot vehicles or near heat sources.
- Keep the flight track and the string serving waxed to reduce friction.
- Inspect string and cables for signs of wear. An authorized service center or the factory should replace cables showing wear immediately.
- We do not recommend that the bow be left in the cocked position for periods longer than four hours.  
With reasonable care of your equipment and diligent practice, your crossbow will remain an accurate, highly efficient hunting weapon.

# Troubleshooting

## ***Arrow Flight***

The greatest variable in accuracy is arrows, as they differ greatly and have totally different flight characteristics. Generally speaking, when practicing with field points, target arrows are more accurate than hunting arrows. Fixed-blade broadheads used in hunting tend to cause the arrow to “plane” due to their large surface area. To help overcome this, we suggest practicing well in advance of hunting season with the type of arrows that will be used to achieve consistent groupings. Consider the following when selecting arrows: Heavier arrows hold more energy for humane harvesting at reasonable ranges (15-35 yards). Lighter arrows are much faster but hold less energy.

- If the string has been changed, is it a Barnett string?
- Are the arrows straight and fletches (vanes) in good condition?
- Does the arrow lie flat on the flight groove? Is the arrow retainer spring too tight or twisted? (*Refer to adjustment instructions on page 12.*)
- Does the arrow slide smoothly and evenly into the trigger mechanism?
- When cocking your crossbow, are you pulling equally on each side of the string? After cocking the crossbow, make sure the marks are shown evenly on each side of the trigger mechanism. Remember to mark new strings on each side of the flight track (as stated earlier).
- When cocking your crossbow, make a conscious effort to hold the string on the flight track so to prevent it from lifting over the arrow retainer spring.
- Is the odd-colored fletch placed down in the flight groove?
- Are the nocks damaged?

## ***String Fraying***

- Are you using Barnett lubewax on the center string serving and flight track every 5-10 shots and on the cables when needed?
- Keep the trigger mechanism and flight surface free of obstruction.
- Check for metal burrs on the flight track.

## ***Limbs Weak or Losing Power***

- Has the crossbow been dry fired (could cause limb to crack)?
- Are you using Barnett string (the proper length)?

## **Warranty Information**

The stock, trigger mechanism and limbs are covered under a five-year limited warranty. Our liability extends to parts and labor.

**Not covered are:** strings, cables, arrows, transportation of product to our Service Center; damage caused by abuse, modification or failure to perform normal maintenance; or any other expense, consequential damages, coincidental damages, or incidental expenses including damage to property or person. There are no other warranties expressed or implied. This warranty gives you specific legal rights and you may also have other rights that vary from state to state.

**Warranty Registration Card must be mailed within 10 days of purchase to validate the warranty.**

**TO OBTAIN SERVICE:** You **must** call our Sales Department at (727) 234-4999 for a Return Authorization number (RA#) prior to sending the unit. Write the RA# on the outside of the package along with the words "Service Return". Attach a note to the product containing your name, address, telephone number and a description of the problem. Carefully package and return the product, transportation charges prepaid, to the factory.

Collect shipments **will not** be accepted.

## **AMERICAN CROSSBOW FEDERATION MEMBERSHIP APPLICATION**

*Annual Benefits Include, but are not limited to:*

### **Quarterly Issues of the Horizontal Bowhunter Magazine**

*As a member of the American Crossbow Federation, you will receive quarterly issues of the **Horizontal Bowhunter Magazine**. This unique and timely magazine keeps our membership up to date on the latest innovations and developments in the crossbow industry. More importantly, it gives our members an opportunity to share their personal experiences, hunting stories, photos and letters to the editor. It is important to realize and remember that the ACF and the HBM are dedicated to the promotion and preservation of ALL forms of hunting with ALL weapons, especially the crossbow.*

### **Free Classified Ads in the HBM and Support for Your State Crossbow Organization**

*Your membership includes free classified ads in the HBM. If you have crossbow-related merchandise you would like to buy, sell, trade or hunts to swap, the Classified Ads are free for ACF members. Plus \$5 of your ACF membership will be donated back to your affiliated State organization in your name. If there is no affiliated state organization, the \$5 will be used to help bring the crossbow to states that do not have a crossbow season and are struggling to get one.*

### **Membership Card and Member's ACF Bumper Sticker**

*Each member of the American Crossbow Federation will receive a membership package containing your first HBM, a membership card and an ACF Bumper Sticker to proudly display on their vehicle.*

### **Trophy Entries into the American Crossbow Federation Big Game Register**

*As a member of the ACF, you are entitled to enter your trophy animals taken with horizontal and vertical bows in the official big game record book created for ALL archery hunters. **The ACF Big Game Crossbow Register** is a history of animals taken by ACF members with ANY archery equipment, including the crossbow from around the world. Qualified animals that have been taken all the way back to 1975 may be entered into the register. This compilation of crossbow hunting statistics covers ALL big game species from ALL continents with ALL archery equipment.*

**Rates:**  
**U.S. Membership**  
**\$30.00-1 yr./\$58.00-2 yr.**  
**Lifetime Membership U.S.**  
**\$700.00**  
**Lifetime Over 65 Membership U.S.**  
**\$450.00**  
**Corporate Membership**  
**\$250.00**  
**Canadian Membership (U.S Funds)**  
**\$35.00-1 yr./\$68.00-2 yr.**  
**Lifetime Canadian (U.S Funds)**  
**\$850.00**  
**Overseas Membership (U.S Funds)**  
**\$40.00-1 yr./78.00-2yr.**  
**Overseas Lifetime (U.S. Funds)**  
**\$1000.00**

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**\*\*AMERICAN CROSSBOW FEDERATION  
MEMBERSHIP APPLICATION\*\***

NAME: \_\_\_\_\_  
TELEPHONE: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_  
E-MAIL ADDRESS: \_\_\_\_\_  
CITY: \_\_\_\_\_  
STATE: \_\_\_\_\_ ZIP: \_\_\_\_\_

Barnett Outdoors, LLC  
Mail your membership application to:  
**American Crossbow Federation**  
**POB 251, 20 NE 9th Ave Glenwood,**  
**MN 56334**

Or call our main desk at 320-634-3660 to use a credit card

# Notes

**How to reach us:**

Barnett Outdoors, L.L.C.

955 Live Oak St.

Tarpon Springs, FL 34689

Phone: (727) 234-4999 Fax: (727) 942-6100

E-mail [service@barnettcrossbows.com](mailto:service@barnettcrossbows.com)

**Cut out and mail immediately to:**

**Barnett Outdoors, L.L.C.**

**PO Box 1209**

**Tarpon Springs, FL 34688**

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**WARRANTY CARD**

Name \_\_\_\_\_ Age \_\_\_\_\_

Address \_\_\_\_\_

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

Email Address \_\_\_\_\_

Date of Purchase \_\_\_\_\_ Phone # \_\_\_\_\_

Place of Purchase \_\_\_\_\_ Price Paid \_\_\_\_\_

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