

OWNER'S INSTRUCTION MANUAL



Please read this manual along with all other operating and safety instructions included in your crossbow package before submitting your warranty registration information.

THIS MANUAL COVERS THE
RAIDER CLS™, INVADER HP™,
AND **WARRIOR HL™** CROSSBOWS



OUR MISSION

OUR OBJECTIVE AT WICKED RIDGE CROSSBOWS IS TO PROVIDE THE OUTDOORSMAN WITH HIGH QUALITY, HIGH PERFORMANCE CROSSBOWS AND ACCESSORIES THAT ARE SIMPLE, RELIABLE, AND AFFORDABLE.

WITH DESIGNS CREATED BY TENPOINT CROSSBOW TECHNOLOGIES, WICKED RIDGE WILL CONSISTENTLY MANUFACTURE FUNCTIONALLY SUPERIOR PRODUCTS WHICH OUTPERFORM THE COMPETITION AT COMPARABLE PRICE-POINTS.

FINALLY, WE ARE COMMITTED TO THE BELIEF THAT IMPECCABLE CUSTOMER SERVICE IS ESSENTIAL TO BUILDING BRAND LOYALTY AND A CUSTOMER BASE THAT WILL REMAIN PROUD TO USE THE PRODUCTS WE OFFER.

WICKED RIDGE CROSSBOWS
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SAFETY INSTRUCTIONS

Follow these safety rules when cocking, loading, pointing, and shooting your crossbow.

⚠ DANGER

- NEVER ALLOW YOUR FORE-GRIP HAND'S FINGERS OR THUMB TO MOVE ABOVE THE BARREL'S FLIGHT DECK OR INTO THE BOW STRING OR CABLES' RELEASE PATH. WITH YOUR FORE-GRIP HAND POSITIONED AS SHOWN IN PHOTOS 1 – 3, YOU WILL SEVERELY INJURE YOUR THUMB OR FINGERS IF YOU FIRE YOUR CROSSBOW.

Note: It is not possible to install TenPoint's patented GripSafety in Wicked Ridge crossbows.

⚠ DANGER

- BE CERTAIN OF YOUR INTENDED TARGET BEFORE SHOOTING.
- ALWAYS POINT YOUR CROSSBOW IN A SAFE DIRECTION. NEVER POINT IT AT OR TOWARD ANYTHING YOU DO NOT INTEND TO SHOOT.
- DO NOT USE IT FOR ANY PURPOSE OTHER THAN FOR HUNTING OR TARGET SHOOTING. IT IS A DANGEROUS AND DEADLY WEAPON.
- ALTERING ANY OF YOUR CROSSBOW COMPONENTS MAY BE DANGEROUS.
- DO NOT TRANSPORT OR STORE YOUR CROSSBOW WHILE IT IS COCKED OR LOADED.
- DO NOT CARRY YOUR CROSSBOW WHILE CLIMBING UP OR DOWN A TREE.

⚠ WARNING

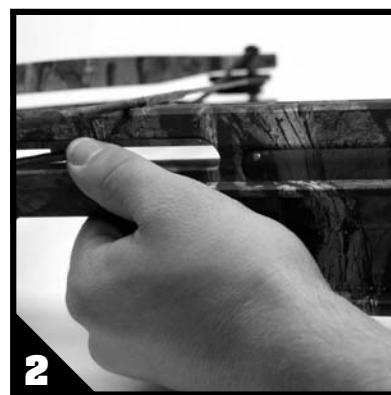
- DO NOT FIRE YOUR CROSSBOW IF BRANCHES OR OTHER OBSTRUCTIONS ARE IN THE WAY.
- MAKE CERTAIN OTHERS ARE WELL BEHIND YOU WHEN SHOOTING.
- DO NOT USE YOUR CROSSBOW IF IT IS NOT IN TOP WORKING CONDITION.
- DO NOT MOVE THE TRIGGER'S SAFETY KNOB TO THE FIRE (RED DOT) POSITION UNTIL YOU ARE READY TO SHOOT.
- WHEN TARGET SHOOTING, SET UP IN A SAFE, OPEN AREA WITH A PROPER TARGET AND BACKSTOP.

⚠ CAUTION

- DO NOT COCK YOUR CROSSBOW UNTIL YOU ARE READY TO LOAD IT. DO NOT USE CROSSBOW ARROWS THAT DO NOT MEET WICKED RIDGE CROSSBOWS'™ SPECIFICATIONS. ARROWS AND BROADHEAD/FIELD POINT COMBINATIONS WEIGHING LESS THAN 420-GRAINS MAY DAMAGE YOUR CROSSBOW LIMBS OR CAUSE INJURY.



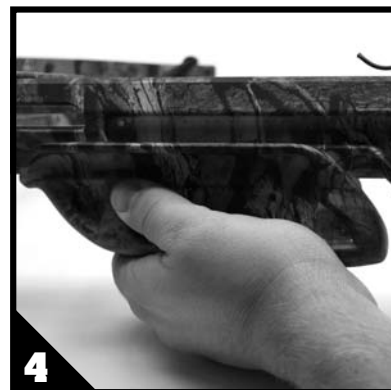
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IMPROPER HAND POSITION



2
IMPROPER HAND POSITION



3
IMPROPER HAND POSITION



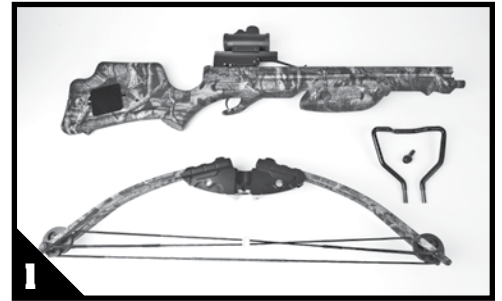
4
PROPER HAND POSITION

CROSSBOW ASSEMBLY

STEP 1

Layout the contents of your Wicked Ridge crossbow box in front of you. Be certain the box contains all of the following items before you begin assembly:

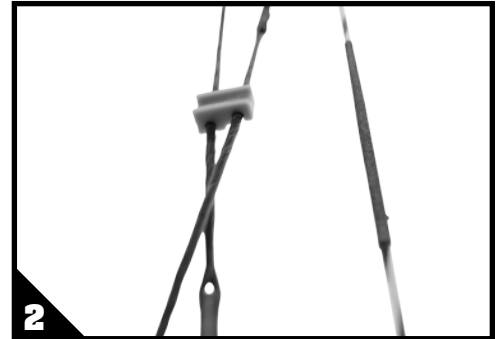
- One (1) complete stock assembly
- One (1) complete bow assembly
- One (1) cable saver
- One (1) foot stirrup
- One (1) owner's manual pack with main assembly bolt and tools.



STEP 2

Attach the cable saver to the cables: When viewing the cable saver from the sides, with its “dish” (concave surface) facing up, notice that one of the two cable notches is positioned deeper into the cable saver (closer to the “dish”) than the other.

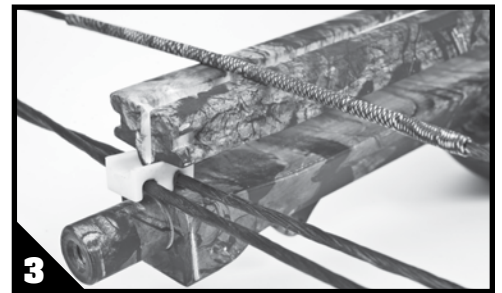
- Because the cables cross, one rests on top of the other. The top cable goes into the deeper of the two cable saver notches and the bottom cable goes into the shallower cable saver notch, allowing the cable saver to maintain a relatively level position on top of the two cables.
- Before sliding the cable saver into the barrel's cable slot, apply a drop of light-weight oil to the top of the cable saver.



STEP 3

Attaching the bow assembly to the stock assembly:

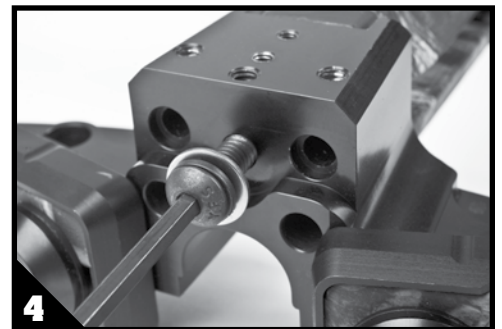
- Position the bowstring on the top of the barrel's flight deck while you insert the cable saver (concave side up) and the cables into the barrel's cable slot.
- Pull the bow assembly toward the trigger assembly until the riser location rod, protruding from the front of the barrel, mates with the hole in the riser.
- Pulling up and back on the bow string will assist you in seating the bow assembly onto the stock assembly.



STEP 4

Installing the main assembly bolt:

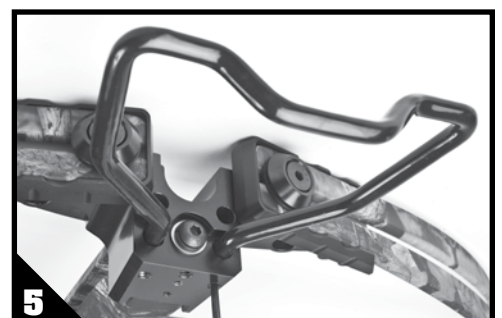
- After you make sure the main assembly bolt's locking set screw is loosened, insert the main assembly bolt and tighten it securely with the Allen wrench supplied.
- Tighten the main assembly bolt (center) setscrew.



STEP 5

Installing the foot stirrup:

- Insert the foot stirrup into the two receiving holes located at the front of the riser. Make sure the “valley” in the stirrup's foot pad points down so that it does not block the arrows flight path.
- Tighten the two outer setscrews located on the bottom of the riser to lock the foot stirrup in place.



COCKING AND LOADING

Practicing the following cocking, loading and shooting procedures until they become second nature will ensure that you shoot safely and accurately.

STEP 1

Before cocking your crossbow, the safety knob must be set in the **FIRE (red dot)** position. Otherwise, the string latch will not engage or hold the bowstring. If you try to cock your crossbow with the safety in the **SAFE (white dot)** position, the DFI™ (Dry-Fire-Inhibitor) will catch and hold the string, making the crossbow appear to be cocked. However, when the DFI™ holds the bowstring, you cannot fire the crossbow. When cocked correctly, the bowstring will automatically set the safety and engage the string latch.

***Note:** If you have accidentally attempted to cock your crossbow in the **SAFE** position, slide the safety forward into the **FIRE** position and complete the cocking procedure.*

STEP 2

With the underside of your crossbow facing your body, place your foot far enough into the stirrup so that it will not slip out when you draw the string or use the ACU-52™.

STEP 3

Using the sides of the barrel as your guide – and with a secure grip – pull the string toward the trigger assembly until the string latch and the safety engage.

***Note:** Inaccurate cocking is the most frequent cause of inaccurate shooting.*

STEP 4

Even though the safety automatically engages when you latch the string, **make certain** it is in the **SAFE (white dot)** position before putting your finger on or near the trigger.

STEP 5

Place a Wicked Ridge recommended crossbow arrow in the flight groove on the top of the barrel. Slip a vane into the flight groove, and slide the arrow back under the arrow retention spring until it rests solidly against the string. You are now ready to aim, release the safety, and shoot.

⚠ DANGER

***Note:** Never allow your fore-grip hand's fingers or thumb to move above the barrel's flight deck or into the bow string or cables' release path. If you do, you will injure yourself severely when you fire your crossbow.*

UNLOADING

The recommended – and the safest – way to unload your crossbow is to fire an arrow into a suitable target or rock-free ground. You should carry a practice arrow in your quiver when hunting and use it for unloading (only if your state permits you to carry a practice arrow – check your regulations first).

You may leave your crossbow cocked or loaded all day. Do not, however, leave it cocked or loaded overnight or while being transported.

SIGHTING YOUR CROSSBOW

STEP 1

Shoot one to three shots at **20-yards** to confirm you are at least close to the bull's-eye. Make any windage/elevation adjustments needed to get close to the bull's-eye.

STEP 2

Make final sight adjustments on the scope using the middle dot/line at **30-yards**. Continue to fire and adjust the scope until your impact and aiming points coincide.

STEP 3

When sighted in at **30-yards**, the top dot/line will be accurate at **20-yards** and the bottom dot/line will be accurate at approximately **40-yards**.

STEP 4

RidgeDot Scope only: Adjust dot brightness by turning the intensity dial on the top of the scope. The intensity dial is also the “on” and “off” switch. The battery is located underneath the brightness knob. Remove the battery cover by rotating the thin knurled outer edge counter-clockwise, while holding the thicker section of the brightness knob firmly between your fingers. The scope requires a lithium **2032** size battery.

***Note:** The dial should be in the “O” or off position on the scope when not in use.*

ACU-52™ OPERATING INSTRUCTIONS

STEP 1

Ensure your safety is in the **FIRE (red dot)** position before attempting to cock the crossbow.

STEP 2

Place the crossbow in front of you with the foot stirrup on the ground. Insert one foot securely inside the foot stirrup and pull out both cord handles and hooks far enough to place on the bow string.

STEP 3

Attach both hooks (the hook opening facing upward) to the underside of the bow string.

STEP 4

Making sure the hooks are against the barrel, simultaneously pull up on both handles until the crossbow is cocked.

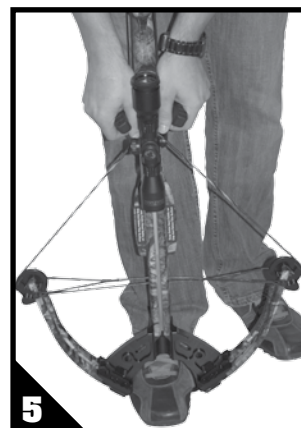
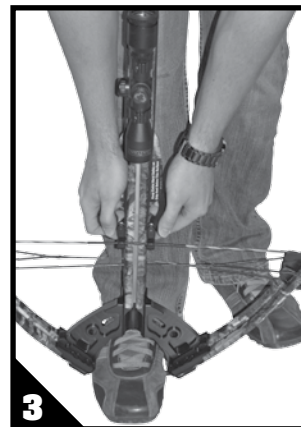
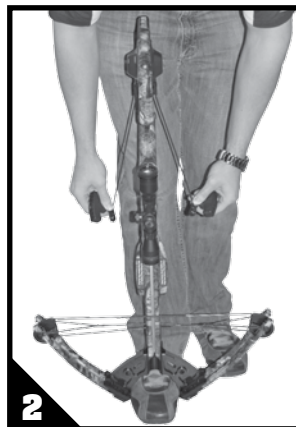
STEP 5

Remove both hooks from the bow string. Retract both sides at the same time, turning the open ends of the hooks to face out, and then insert the hooks and the handles into the housing.

⚠ CAUTION

Note: You must remove the hooks from the bow string before firing the crossbow.

The ACU-52 is covered by a five (5) year limited warranty.



STRING & CABLE ADJUSTMENT CHART

MODEL	STRING	STRING TWISTS	CABLES	CABLE TWISTS
Raider CLS	WRA183	16-19	WRA163	11-14
Invader HP	WRA182	13	WRA162	13
Invader	WRA182	13	WRA162	13
Warrior HL	WRA182	13	WRA162	13
Warrior	WRA182	13	WRA162	13

Note: When installing most cables, twist the bottom yoke (located at the end of each cable) four times.

STRING & CABLE SPECIFICATIONS

	Part Number	Length	Materials
Strings	WRA182	37.5"	D-75 - 28 strands
	WRA183	34.5"	D-75 - 30 strands
Cables	WRA162	21.5", yoke 12"	D-75 - 28 strands
	WRA163	16.625", yoke 12"	D-75 - 28 strands

MAINTENANCE & CARE

The best maintenance program begins by thoroughly checking for worn, loose, damaged, or missing parts every time you use your crossbow.

1. Immediately replace frayed or worn strings and cables.

Note: The string and cables should be replaced every 2-3 years at a minimum, regardless of how many shots have been taken.

2. Lubricate your flight rail with a light-weight oil every 50-75 shots and wax your string and cables every 50-75 shots.

Note: Applying too much rail lube can breakdown your string serving.

3. Keep your trigger dry and occasionally lubricate it.

Note: A crossbow with rusty trigger box parts will be extremely difficult to cock and will need to be sent back to the factory for cleaning and/or repair.

4. Do not expose your crossbow to excessive heat – store in a cool dry place.

5. Wicked Ridge is the only repair facility for repairs/replacements on trigger boxes and limbs (with the exception of locations outside of the continental U.S.).

USE THE CORRECT ARROW

Do not void your warranty – choose the correct arrow and field point/broadhead combination. Wicked Ridge recommends using finished arrows weighing at least 420-grains on our crossbows. Using less than the recommended weight combinations can produce a dry-fire effect with your crossbow.

⚠ WARNING

Using arrows that are too light may cause the limbs to shatter, resulting in possible injury.

Aluminum Arrows

When shooting your crossbow, we recommend our 20-inch 5086 aluminum arrows or 20-inch 2219/XX75 arrows equipped with a bluntnock (flat cap).

Carbon Arrows

Wicked Ridge also recommends the 20-inch, 22/64ths carbon crossbow arrow fletched with plastic vanes, brass inserts, and bluntnocks.

Field Point/Broadhead Weight

For the Wicked Ridge line-up, we recommend using field points and/or broadheads weighing a minimum of 100-grains. Increasing the field point/broadhead weight will not damage your crossbow. It will, in fact, increase kinetic energy without sacrificing much speed.

Broadhead Tuning

Wicked Ridge recommends tuning each shaft/broadhead combination before hunting. Always start with a straight shaft on the arrow, screw on your broadhead and spin your arrow on its tip. Your arrow and broadhead need to spin without wobbling. The blades of the broadhead do not need to line up with the fletching – spinning without wobble is more important.

QUIVER MOUNTING

STEP 1

The Instant Detach Quiver Kit contains the following parts:

- ONE (1) Quiver
- ONE (1) Rubber hose (quiver hanger)
- TWO (2) Hose plugs
- ONE (1) Quick disconnect (male) attachment
- TWO (2) 3/4-inch oval counter-sink Phillips screws
- ONE (1) Quick disconnect (female) attachment with lever
- TWO (2) Phillips pan-head machine screws
- ONE (1) Quiver mounting bracket
- TWO (2) 7/16-inch Nylock Nuts & 3/4-inch setscrews (pre-assembled at the factory)



QUIVER MOUNTING Cont.

STEP 2

Attach the rubber hose to the quiver cup. First, from the bottom of the quiver's cup, insert both ends of the rubber hose approximately two-inches into each hole and insert a hose plug into each end. Then, pull the hose back toward the bottom of the quiver cup and seat the hose plugged ends into the counter-sunk holes.

Note: Once inserted, the hose plugs cannot be removed.



STEP 3

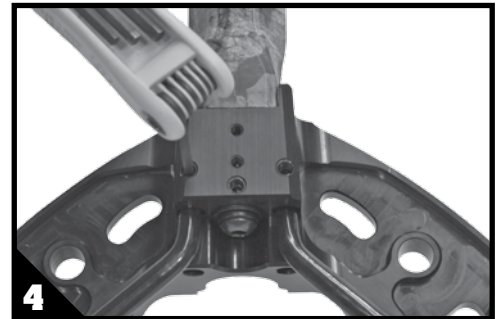
Position the quick disconnect (male) attachment to the backside of the quiver post, over the 3rd and 4th holes from the quiver cup*. Insert the 3/4-inch oval counter-sink Phillips screws and tighten.

*If using the optional TenPoint Ambidextrous Side-Mount Quiver Bracket (HCA-017), position the male attachment over the two holes closest to the quiver cup.



STEP 4

Remove the two 1/4-inch setscrews holding the foot stirrup in place.



STEP 5

Place the quiver's mounting bracket over the two holes you just removed the setscrews from. The mounting bracket holes should face forward toward the foot stirrup (see photo for orientation).

First, insert and tighten the two 3/4-inch setscrews (with Nylock nuts) into the same holes you removed the original setscrews from.

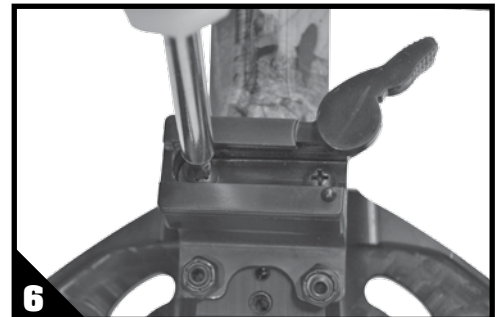
Then, tighten the two Nylock nuts until the quiver mounting bracket is secure. Use a 7/16-inch open-ended wrench to tighten.

Note: Do not over-tighten.



STEP 6

Install the quick disconnect (female) attachment with lever on the quiver mounting bracket using the two Phillips pan-head machine screws. Align the open end with the lever either facing the left or right side of the crossbow, based on personal preference.



STEP 7

Insert the quiver with male attachment into the quick disconnect (female) attachment with lever, and lock into place.



WICKED RIDGE™ LIMITED OPERATIONAL WARRANTY

Subject to the terms, conditions and limitations outlined below, Wicked Ridge Crossbows', guarantees its crossbows against defects in materials and workmanship that adversely affect the operation of the crossbow for five (5) years from the date of purchase. Crossbow strings and cables, and ACU-52 cords and power springs, are not covered by this warranty.

This warranty only becomes effective if activated by the purchaser within 30 days of the purchase date by completing the warranty card included with the crossbow and mailing it to Wicked Ridge Crossbows.

Wicked Ridge Crossbows reserves the right, at its sole discretion, to accept proof of purchase in lieu of a completed warranty card.

All warranty/repair returns are to be coordinated between the consumer and Wicked Ridge Crossbows. To make a claim under this warranty, call our Customer Service Department at 330.628.9245 for a Return Authorization Number. Wicked Ridge Crossbows will not accept returned merchandise without a Return Authorization Number displayed on the outside of the shipping container. Include your name, address, daytime phone number, and a brief description of the claim inside the package. Insure your shipment and send it prepaid via the U.S. Postal Service or UPS.

LIMITATIONS OF WARRANTY

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

- (1) The instructions in the owner's manual are not followed;
- (2) The crossbow or any other parts or accessories are altered from their original state;

- (3) Damage is caused by abuse or neglect;
- (4) Damage is caused by dry-firing or by using under-weight arrows (lighter than recommended in the owner's manual);
- (5) The crossbow is rented or loaned for use by others by a retailer, wholesaler, or shooting range operator, or other commercial business organization, whether or not a fee is charged for its use.

- There are no warranties which extend beyond the description on the face hereof.
- The sole and exclusive remedy pursuant to this warranty is the repair or replacement of the defective part(s) at the sole discretion of Wicked Ridge Crossbows. Parts determined to be unsafe will not be returned with the repaired crossbow.
- The implied warranties of merchantability and fitness for a particular purpose are expressly disclaimed.
- All disclaimers and limitations of liability shall still apply even if the limited remedy of repair and replacement fails of its essential purpose.
- In states where permitted, we assume no liability for incidental or consequential damage or for incidental expenses.
- Any action against Wicked Ridge Crossbows based on an alleged breach of this warranty must be brought within one (1) year of the claimed breach.
- Wicked Ridge Crossbows' liability for breach of warranty shall be limited to repair or replacement of the product at the option of Wicked Ridge Crossbows.



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