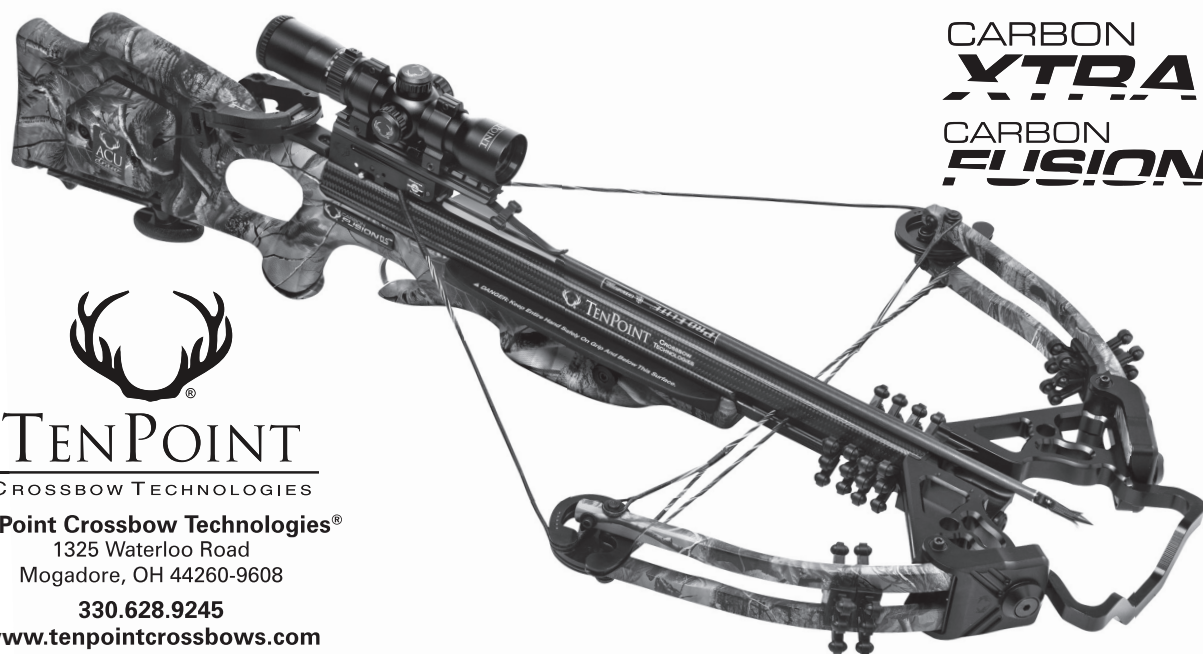


TenPoint Crossbow Technologies™

COMPACT LIMB SYSTEM (CLS)™ ASSEMBLY INSTRUCTIONS

To prevent injury to yourself or others, or damage to your crossbow, read this manual along with all other operating and safety instructions included in your crossbow package before assembling, loading or using the crossbow.



TENPOINT
CROSSBOW TECHNOLOGIES

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THIS MANUAL COVERS:

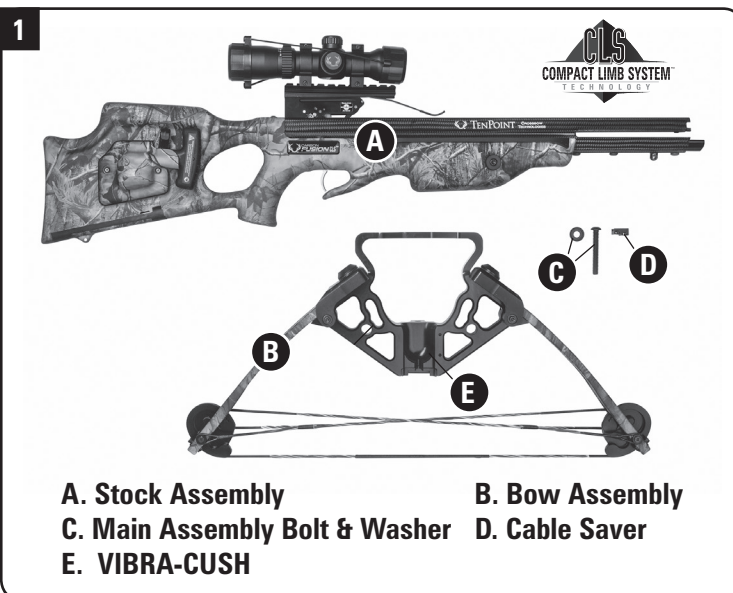
CARBON
XTRA CLS™
CARBON
FUSION CLS™

CLS™ ASSEMBLY

The CLS style crossbows are easy to assemble. Basically, you only have to bolt the bow assembly to the stock assembly and you are ready to shoot. Once assembled correctly, your crossbow is pre-sighted for 20-yards.

Lay out the contents of your CLS crossbow box in front of you. Be certain the box contains all of the following items before beginning assembly (photo 1):

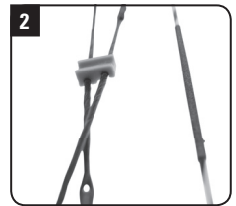
- One (1) complete stock assembly
- One (1) complete bow assembly
- One (1) cable saver
- One (1) VIBRA-CUSH™ (pre-installed at factory)
- One (1) large clear plastic bag containing paperwork (including a warranty card) and one (1) other sealed plastic bag containing the main assembly bolt and washer, Allen wrenches and a sample tube of oil.



ASSEMBLY STEPS

1. Attach the cable saver to the cables. **Note: Do not attach the bow assembly to the stock assembly without the cable saver – cable damage will occur and the crossbow will be unsafe to shoot.**

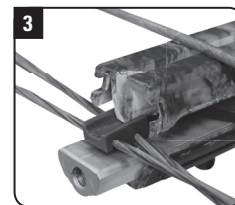
- When viewing the cable saver from the side, with its “dish” (concave surface) facing up, notice that one of the two cable notches is positioned deeper into the cable saver (closer to the “dish”) than the other.
- Because the cables cross, one rests on top of the other. The top cable goes into the deeper of the two cable saver notches and the bottom cable goes into the shallower cable saver notch (photo 2), 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 Flight Groove / Trigger Lube (HCA-111) or Microlon’s® Precision Oiler (HCA-11106) to the “dish” (concave surface) or top of the cable saver (the part that comes in contact with the underside of the barrel’s arrow flight groove).



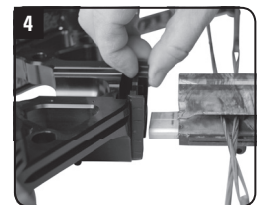
Make certain your cables go into the correct slots in your cable saver.

2. Attach the bow assembly to the stock assembly as follows:

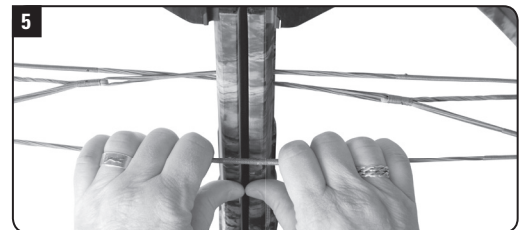
- Position the bowstring on top of the barrel’s flight deck while you insert the cable saver (concave side up) and the cables into the barrel’s cable slot. The cable saver’s concave groove (“dish”) should mate with the underside of the barrel’s arrow flight groove (photo 3).
- Ensure that the pre-installed VIBRA-CUSH is in place with its cutout side facing the barrel (photo 4).
- Pull the bow assembly toward the trigger assembly until the riser location rod, protruding from the front of the barrel and through the VIBRA-CUSH, mates with the hole in the riser. Do not twist or rock the bow assembly to the extent that you rub the cables along the slightly sharp edges of the barrel’s cable slot. You do not want to cut any of your cable strands. Pulling up and back slightly on the bowstring may assist you in seating the bow assembly onto the stock assembly (photo 5).
- After you make sure the main assembly bolt’s locking setscrew is loosened, insert the main assembly bolt and tighten it by hand securely with the Allen wrench supplied (photo 6). **Do not use a cheater-bar when tightening the main assembly bolt.**
- Tighten the main assembly bolt’s locking setscrew (photo 7).



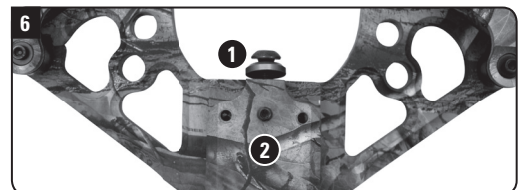
The bow string sits on the barrel’s flight deck while the cable saver and cables slide into the cable slot.



The VIBRA-CUSH goes between the riser and the barrel, cutout side facing the barrel.



Pull up and back slightly on the bow string to seat the bow assembly.



1. Main Assembly Bolt and Washer
2. Main Assembly Bolt’s Locking Setscrew



Once the main assembly bolt has been tightened, tighten its locking setscrew. See below if you are mounting the 3-Arrow Instant Detach Quiver.

Note: If you will be mounting the 3-Arrow Instant Detach Quiver, follow the directions in the Quiver Mounting section.

- You are now ready to test-fire your crossbow and fine-tune your sights (**See appropriate Cocking, Loading & Sighting sections in the general manual**).

CLS QUIVER MOUNTING

Your CLS quiver mounting kit is easy to install.

The quiver mounting kit contains the following parts, pictured on the next page (photo 1):

- * If you will be installing the Ambidextrous Side-Mount Quiver Bracket, please refer to the corresponding insert in your Owner’s Manual packet.

CLS QUIVER MOUNTING (CONT.)

1. The 3-Arrow 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
- Two (2) 3/4-inch setscrews
- Two (2) 1-inch setscrews (only for Wicked Ridge quiver mounting)

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 (photo 2).

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

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 (photo 3).

- * 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.

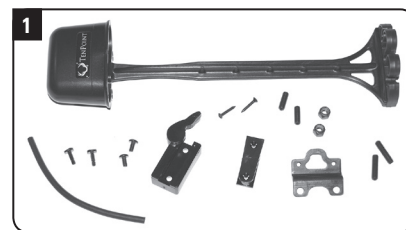
4. Place the quiver bracket assembly over the two setscrew holes on the bottom of the bow assembly. The mounting bracket holes should face forward toward the foot stirrup (see photo for orientation) (photo 4).

First, insert and tighten the two 3/4-inch setscrews (and Nylock nuts) into the setscrew holes. Then, tighten the two Nylock nuts until the quiver mounting bracket is secure. Use a 7/16-inch open-ended wrench to tighten.

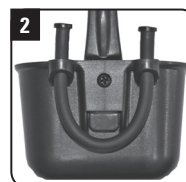
Note: Do not over-tighten.

5. 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 (photo 5).

6. Insert the quiver with male attachment into the quick disconnect (female) attachment with lever and lock into place (photo 6).



3-Arrow Instant Detach Quiver Mounting Kit



Attach rubber hose to quiver cup.



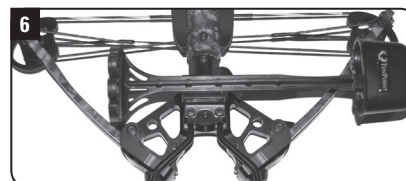
Attach quick detach (male) attachment.



Place the quiver bracket assembly over the two setscrew holes and insert 3/4-inch setscrews and Nylock nuts.



Install the quick disconnect (female) attachment.

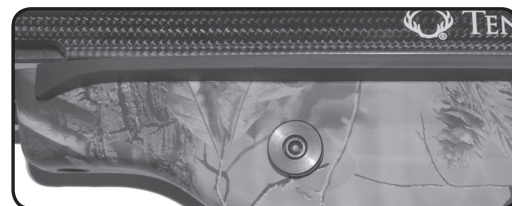


Insert the 3-Arrow Instant Detach Quiver into the female bracket and lock into place with the lever.

SAFETY WINGS

⚠ DANGER Keep your fingers and thumb on your fore-grip hand below the string and arrow flight deck when you fire your crossbow. Otherwise, the bow string will severely injure or amputate them when you pull the trigger.

The Carbon Fusion CLS comes standard with rubber safety wings which are designed to help keep the shooter's fore-grip fingers and thumb safely below the flight deck while shooting. The wings, which are bedded between the stock and barrel, also serve as noise dampeners. If for any reason they are lost or damaged, contact TenPoint for replacement immediately at www.tenpointcrossbows.com or 330-628-9245.



Safety wings are bedded between the stock and barrel. They help prevent thumb and finger injury and they dampen noise.

GRIPGUARD INSTALLATION (CARBON XTRA ONLY)

TenPoint Crossbow Technologies strongly recommends installing the GripGuard prior to sighting-in or shooting your crossbow.

⚠ DANGER

Note: If you cannot locate the GripGuard, contact TenPoint at www.tenpointcrossbows.com or by calling 330-628-9245 immediately for a replacement.

1. Attach both strips of double-sided tape inside the GripGuard, approximately 1/2-inch from the front and back of the bottom hole.
2. Snap the GripGuard into place over the fore-grip.

Note: Install the GripGuard side holes **over** the GripSafety buttons. There is no need to remove the GripSafety buttons.



Tape location and orientation.



GripGuard properly installed.

GRIPSAFETY™ U.S. PATENT NO. 7,281,534

The GripSafety is a secondary trigger safety button positioned on the side of the crossbow's fore-grip (photo 1). The GripSafety is designed to help prevent thumb or finger injury by promoting proper hand placement on the fore-grip while shooting the crossbow.

Notice: The GripSafety can only be installed in model specific TenPoint thumbhole stocks equipped with the PowerTouch trigger and the machined aluminum or carbon ACRA-ANGLE barrel. It is not possible to retrofit TenPoint crossbows equipped with the one-piece composite stock/barrel or any crossbows formerly known as 6 Point Series with the GripSafety.

OPERATING INSTRUCTIONS

⚠ DANGER

Avoid serious personal injury, including amputation, by only using the tip of your thumb (distal phalanx) to depress the GripSafety button. Do not use the pad at the base of your thumb to press or de-activate the GripSafety because all or part of the distal phalanx will likely protrude above the flight deck and into the path of the string when firing the bow.

⚠ DANGER

If you do not operate the GripSafety as it is designed and allow your thumb and/or fingers to migrate above the flight deck, you will amputate or injure your thumb or fingers.

Do not depress (deactivate) the GripSafety until you are ready to squeeze the trigger. To shoot a GripSafety equipped TenPoint crossbow, shoulder the bow, slide the trigger's brass safety knob forward to the "FIRE" (red dot) position, depress and hold the GripSafety button and squeeze the trigger. If the trigger safety is engaged ("SAFE" (white dot) position) and/or if the GripSafety is not depressed, you cannot pull the trigger or fire the crossbow.

Right-handed shooters will depress the GripSafety button with the tip of your left thumb (photo 2). If you choose to depress the GripSafety button with the base of your thumb or palm, you will amputate or injure your thumb.

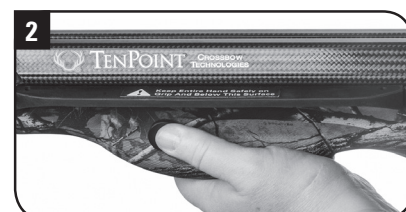
Left-handed shooters will depress the GripSafety button with either the index or middle finger (photo 3). However, we strongly urge left-handed shooters to exercise the conversion option noted below. In either case (right or left-handed shooting), the shooter must still be careful not to allow any part of the fore-grip hand to work its way above the barrel's flight deck.

Note: Left-handed shooters have the option of having the GripSafety converted so they can depress the GripSafety button with their right thumb. Please contact the Customer Service Department at 330-628-9245 or email your request at www.tenpointcrossbows.com for a Return Authorization Number to return the crossbow for conversion.

Disabling or tampering with the GripSafety will void your Warranty.



GripSafety button on side of fore-grip.



Right-handed shooters: Depress the GripSafety with the tip of your thumb before squeezing the trigger.



Left-handed shooters: Depress the GripSafety with your middle or index finger before squeezing the trigger.

STRING CHART

String	Twists
HCA-11607	16-18

CABLE CHART

Cables	Twists
HCA-12307	6-8