

2009

TenPoint Crossbow Technologies™

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:

TenPoint Series Crossbows;

PHANTOM XTRA™

PHANTOM CLS™

SHADOW CLS™

LAZER HP™

GT CURVE™

TITAN HLX™

6 Point Series Crossbows;

DEFENDER CLS™

PRO SLIDER™

GT MAG™

GT FLEX™

Cocking Devices;

ACUdraw™

ACUdraw 50™



...the mark of perfection™

TenPoint Crossbow Technologies®

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330.628.9245 | www.tenpointcrossbows.com

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ACUdraw™ & ACUdraw 50™ Warranty	Back Cover

Customer Service Department
330.628.9245
or www.tenpointcrossbows.com

Please contact us if you have questions about the operation or operating condition of your crossbow.

WARNING: (READ FIRST) ⚠ DANGER

To make certain you do not void your warranty or injure yourself and/or others, do not assemble or operate your crossbow without first reading this manual.

SAFETY INSTRUCTIONS

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

- **Be certain** of your intended target before shooting. **Watch out** for hunters in camouflage clothing. ⚠ **DANGER**
- **Always** point your crossbow in a safe direction. **Never** point it at or toward another person or **never** at or toward anything you do not intend to shoot.
- Your crossbow was designed for hunting and target shooting only. **Do not** use it for any other purpose. **It is a dangerous and deadly weapon.**
- **Do not** alter any of your crossbow components or accessories. Doing so will **void your warranty** and 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. Hoist and lower the crossbow **—unloaded—** with a rope or heavy cord.
- **Always** wear a safety belt or harness when hunting from a treestand.

- **Do not** fire your crossbow if branches or other obstructions block its limbs' release path. Doing so can be extremely dangerous. ⚠ **WARNING**
- **Make certain** others are well behind you when shooting. People standing beside you are vulnerable to injury if, among other things, a string, cable, or limb were to break.
- When cocking your crossbow, hold the bowstring firmly with all four fingers of both hands and **do not** allow it to slip free. If the bowstring slips out of your hands or if an arrow is not solidly in contact with it when you fire the crossbow, a dry-fire can occur. A dry-fire is dangerous and can severely damage the bow and/or cause injury.

- **Do not** use your crossbow if it is not in top working condition. Follow the maintenance and operating instructions in this manual. ⚠ **CAUTION**
- **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** (photos 1, 2, 3, & 4). **If you do, you will injure yourself severely when you fire your crossbow.**
- **Do not** attempt to adjust your crossbow's draw weight or to change its cables, limbs, or string without proper tools and instruction. Have a qualified TenPoint professional perform these tasks. Improper installation may result in poor crossbow performance or injury.
- **Do not** use crossbow arrows that do not meet TenPoint Crossbow Technologies™' specifications (See Use the Correct Arrow later in this manual). In particular, do not use excessively light arrows. Arrows and broadhead/field point combinations weighing less than 420-grains may damage your crossbow limbs or cause injury.
- Make sure broadheads are safely covered by using a proper quiver.
- **Do not** cock your crossbow until you are ready to load it.
- **Do not** move the trigger's safety knob to the **FIRE (red dot)** position until you are ready to shoot.
- **Make sure** the trigger's safety is in the **FIRE (red dot)** position before cocking your crossbow (photo 5). Neither the string latch nor the safety will engage if you attempt to cock your crossbow with the safety in the **SAFE (white dot)** position. The bow will appear to be cocked while the string is held in place by the Dry-Fire-Inhibitor (photo 6). When you cock your crossbow correctly, the trigger's safety will automatically move from the **FIRE (red dot)** position to the **SAFE (white dot)** position (photo 7).
- When target shooting, set up in a safe, open area with a proper target and backstop.
- Carefully examine your crossbow and arrows for worn, loose, damaged, or missing parts every time you use them.
- If you have any questions regarding the operation or operating condition of your crossbow, immediately contact **TenPoint Crossbow Technologies™' Customer Service Department** at 330.628.9245 or email us at www.tenpointcrossbows.com.

CAUTION ⚠

SAFETY INSTRUCTIONS: (READ FIRST)



IMPROPER. With your fore-grip hand positioned as shown above, you will severely injure your thumb if you fire your crossbow.



IMPROPER. With your fore-grip hand positioned as shown above, you will severely injure your fingers when you fire your crossbow.



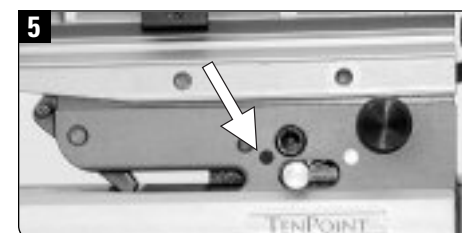
IMPROPER. With your fore-grip hand positioned near the crossbow cables as shown above, you will severely injure your fingers if you fire your crossbow.



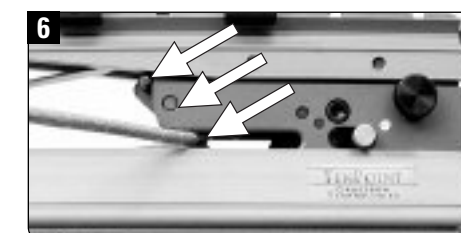
PROPER HAND POSITION

Proper way to hold the fore-grip.
Note the GripSafety™ button located on the side of the fore-grip. Refer to page (18) for details.

PowerTouch™ Trigger Operation



Make sure the trigger's safety is in the forward, **FIRE (red dot)** position before cocking your crossbow.



If you try to load the crossbow while the safety is in the rear, **SAFE (white dot)** position, the bowstring will be held by the DFI™ and only appear to be cocked.



When you cock your crossbow correctly, the safety will automatically move to the rear, **SAFE (white dot)** position, and the string latch will engage the string.

IMPORTANT:

You should not return this product to your retailer for credit if you have a warranty claim. See warranty claim information / directions on the back cover of this manual.

TENPOINT Series Features

TENPOINT CROSSBOW TECHNOLOGIES™ ...
The Industry Standard For Design, Performance And Durability.

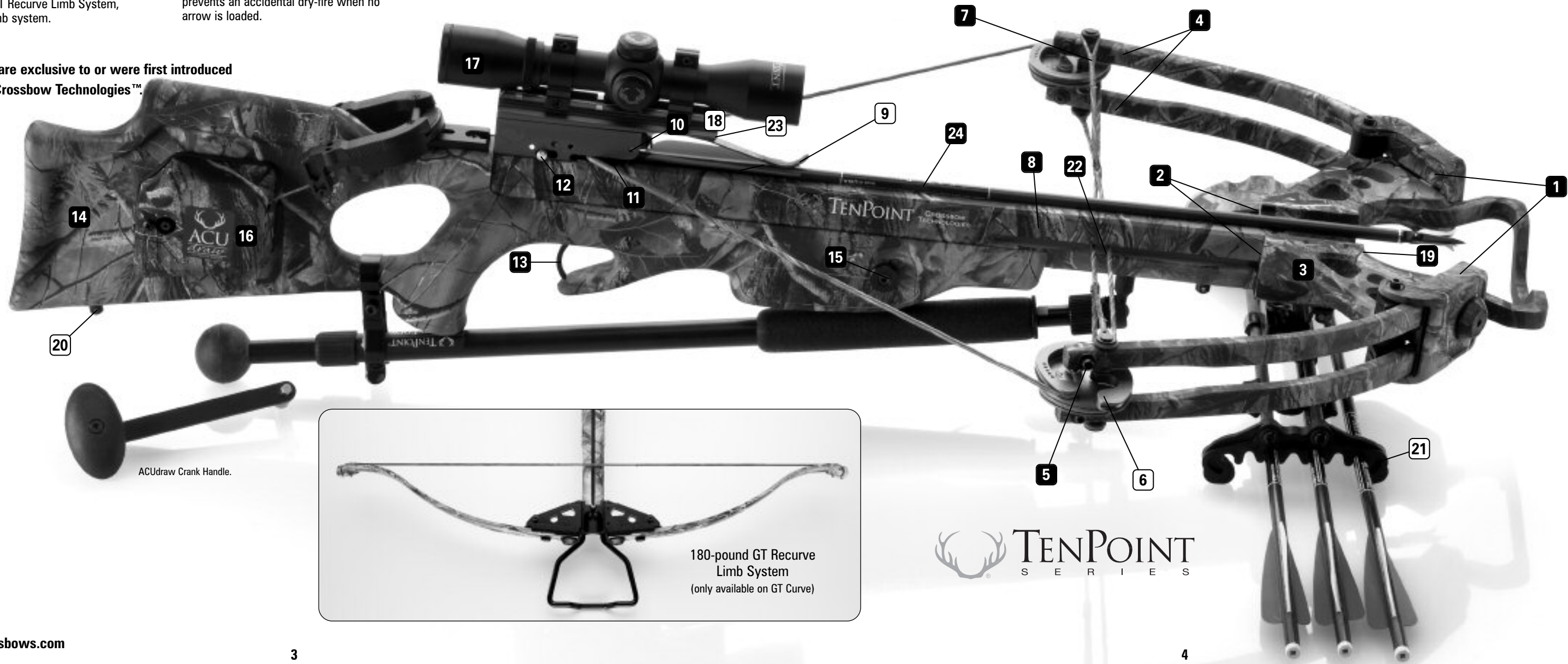
- 1 OTT (over-the-top) limb pocket and Zytel "lift and separate" limb suspension system (not on the GT Curve). Reduces noise and vibration levels by more than 50%.
- 2 VIBRA-CUSH® **Patented** bow to barrel mounting system. Dramatically reduces vibration and noise level, making TenPoint crossbows the quietest on the market.
- 3 Lighter and stronger CADD designed and finite element analysis tested riser. Includes locking setscrew system for the main assembly bolt.
- 4 Quad Limb System. Incredibly smooth and reliable, this unique four-limb design reduces recoil and noise while its powerful stroke delivers unequalled speed and kinetic energy per inch of powerstroke. The CLS models feature our 12-inch IsoTaper™ performance-matched limbs (shown); the Lazer HP is built with our time-tested, durable ST limbs, and the Titan HLX features our incredibly smooth HL limbs.

Note: The GT Curve is equipped with the super-efficient GT Recurve Limb System, not the Quad Limb system.
- 5 Power Limb-Tip Caps™. Provide additional limb-tip strength and improved performance (not applicable to the GT Curve).
- 6 Precision CNC machined aluminum cams or wheels (not applicable to the GT Curve).
- 7 Synthetic cable yokes for the ultimate in tunability and stability (not applicable to the GT Curve).
- 8 ACRA-ANGLE™ barrel. Extruded aluminum design features angled sides to prevent finger injury and ensure precision loading. TenPoint's aluminum barrels are hard coated to a 65 Rockwell finish and Teflon™ impregnated, reducing wear and string friction while increasing arrow speed.
Note: The GT Curve and the Titan HLX feature our molded combination stock and ACRA-ANGLE™ barrel made of Verton®.
- 9 ACRA-ARROW™ retention spring. Extra-long to enhance arrow flight. Tip is coated to reduce noise and vibration.
- 10 DFI™ System. **Patented** Dry-Fire-Inhibitor prevents an accidental dry-fire when no arrow is loaded.

- 11 MIM (metal injection molded) CLAWOVER™ String Catch for superior accuracy.
- 12 Quieter MIM (metal injection molded) ambidextrous, automatic safety. Moves from "FIRE" (red dot) to "SAFE" (white dot) when you cock the crossbow.
- 13 PowerTouch™ **Patented** trigger with MIM (metal injection molded) action components and safety slide. Set at optimum travel and touch for a crisp, smooth release – it is recognized as the finest crossbow trigger made today.
- 14 FST Stock. This functionally superior thumbhole design now features molded ACUdraw™/ACUdraw 50™ receiver holes (hidden by covers), making it possible to purchase either cocking device as a dealer or customer-installed accessory.
- 15 GripSafety™ **Patented** secondary safety button that requires the shooter to hold the fore-grip correctly, thus avoiding potential thumb or finger injury. The trigger will not release without depressing, and holding in, the GripSafety button.
Note: The GripSafety is only available on the Phantom Xtra, Phantom CLS, Shadow CLS, and Lazer HP models.

- 16 ACUdraw **Patented** integrated Automated Cocking Unit. When operated by a hand crank, the ACUdraw converts the crossbow's draw weight to a mere 5-lbs. and assures precision loading every time. Available as a stock-option on all models, it also can be retrofitted to any TenPoint crossbow after purchase. Also available as an optional cocking device, the **Patented** ACUdraw 50, a retractable rope-cocking device that reduces the crossbow's draw weight by 50%.
- 17 3x Pro-View Scope. Optional on all of the crossbows in our TenPoint Series line-up. When these models are ordered with a scope, they do not include a rear peep sight and front sight bracket with pin to use pin sights. TenPoint's Pro-40 Multi-Dot Scope and 3x Multi-Line Scope are also available as an accessory for any model.
- 18 Machined aluminum 7/8" Fixed Dovetail Sight Mount.
- 19 The main assembly bolt's locking setscrew and the standard foot stirrup's two attachment setscrews are out of view, located on the underside of the crossbow's riser (foot stirrup attachment setscrews not applicable on the CLS models).
- 20 Sling Swivel Studs are standard equipment on all models.
- 21 TenPoint's HX Ultra-Lite 4-Arrow Instant Detach Quiver.
- 22 PBT Performance Cable Saver (not applicable to the GT Curve).
- 23 Wedgie™ Arrow Retention Spring Dampener. The Wedgie almost totally eliminates arrow retention spring vibration. The Wedgie comes standard on the Phantom Xtra, Phantom CLS, Shadow CLS, and Lazer HP packages or is available as an accessory for any model.
- 24 TenPoint 22/64th Pro Elite™ 20-inch carbon fiber arrow shaft.

These Items are exclusive to or were first introduced by TenPoint Crossbow Technologies™.



ACUdraw Crank Handle.

180-pound GT Recurve Limb System (only available on GT Curve)



6 POINT Series Features

TENPOINT CROSSBOW TECHNOLOGIES™ ...
The Industry Standard For Design, Performance And Durability.

- 1 Solid extruded and machined aluminum foot stirrup with added foot stability (Defender CLS has a one-piece machined foot stirrup and riser).
- 2 Complete-Capture limb pocket isolation system. Remarkably quiet and ultra secure system where the limbs never touch metal parts.
- 3 CADD designed and engineered machined aluminum riser.
- 4 Quad-Limb System. Specifically designed for optimum performance and providing consistently superior performance and durability.
Note: The GT Mag and GT Flex are equipped with our super-efficient GT Recurve Limb System, not the Quad Limb System.
- 5 Synthetic cable yokes for the ultimate in tunability and stability (not applicable to the GT MAG or GT Flex).
- 6 A Weaver-style machined aluminum 7/8" Fixed Dovetail Sight Mount is standard on all models. The GT Mag and GT Flex, bow-only, have a fixed sight bridge that will accept the 7/8" Fixed Dovetails.

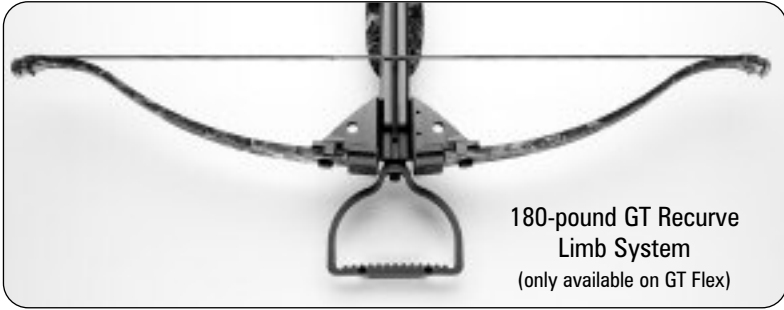
- 7 3x Multi-Line Scope. Optional on all of the crossbows in our TenPoint Series line-up. When these models are ordered with a scope, they do not include a peep and pin sighting system. TenPoint's™ Pro-40 Multi-Dot Scope and 3x Pro-View Scope are also available as an accessory for any model.
Note: If you wish to add a scope to a GT Mag or GT Flex bow-only, you must purchase the Fixed 7/8" Dovetail Scope Mount.
- 8 Quieter MIM (metal injection molded) ambidextrous, automatic safety. Moves from "FIRE" (red dot) to "SAFE" (white dot) when you cock the crossbow.
- 9 Verton® Two-Piece stock and fore-grip molded to accept either of TenPoint's patented cocking mechanisms. The ACUdraw™/ACUdraw 50™ receiver holes are hidden by covers, making it possible to purchase either cocking device as a dealer or customer-installed accessory.
- 10 Sling Swivel Studs are standard equipment on all models.

- 11 ACUdraw™/ACUdraw 50™ receiver holes hidden by covers (shown), making it possible to purchase either the optional **Patented** ACUdraw 50 integrated Cocking Unit, or the **Patented** ACUdraw that is operated by a hand crank and converts the crossbow's draw weight to a mere 5 lbs., assuring precision loading every time. Both cocking devices are available as a dealer or customer-installed accessory.
- 12 **Patented** PowerTouch™ trigger with MIM (metal injection molded) action components and safety slide. Set at optimum travel and touch for a crisp, smooth release – it is recognized as the finest crossbow trigger made today.
- 13 DFI™ System. **Patented** Dry-Fire-Inhibitor prevents an accidental dry-fire when no arrow is loaded.

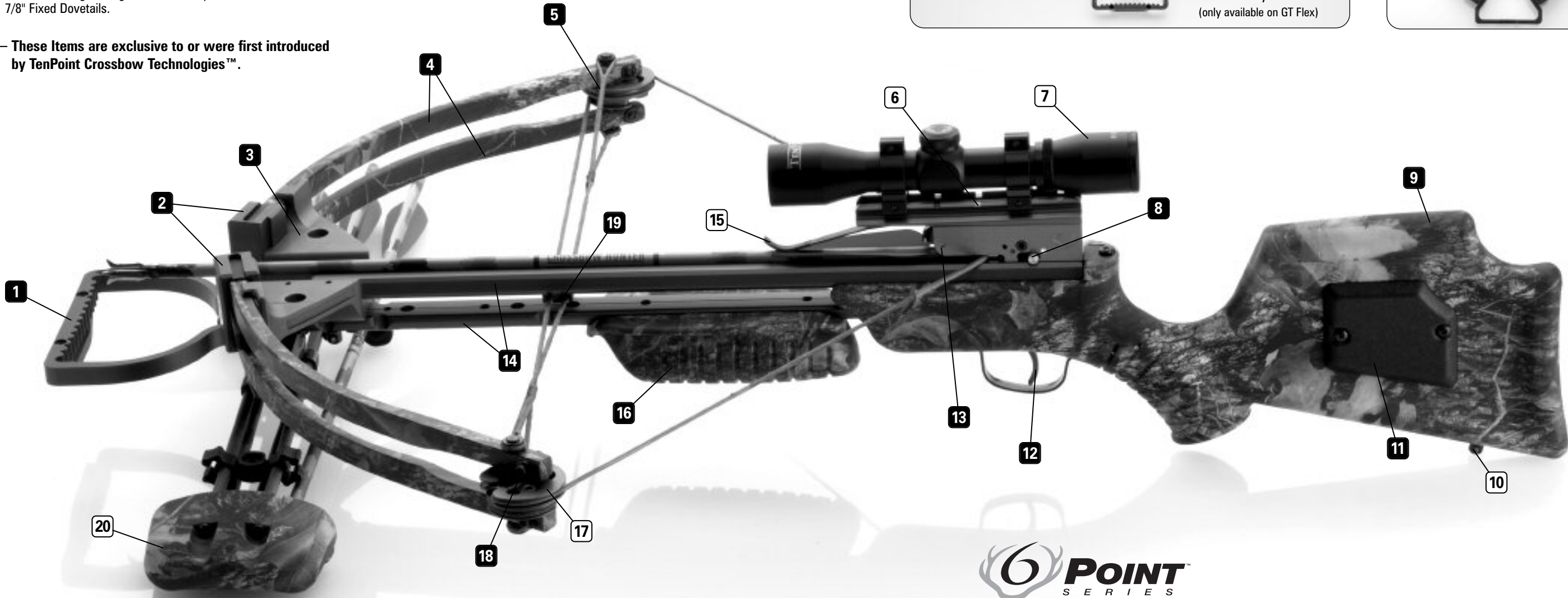
- 14 UL TriLoc extruded and machined aluminum Multi-Position Barrel Assembly (the Defender CLS and GT Mag have a fixed position barrel). Securely locks the bow assembly into a short, medium, or long position between the innovative upper and lower extruded and machined aluminum barrel assembly. Features angled sides to prevent finger injury and ensure precision loading.
- 15 ACRA-ARROW™ retention spring. Extra-long to enhance arrow flight. Tip is coated to reduce noise and vibration.

- 16 Safety-engineered fore-grip (**patent pending**). Verton® fore-grip locates in either of two positions and is safety-engineered to keep the hunter's hand properly positioned while shooting the bow.
- 17 Precision CNC machined aluminum wheels (not applicable to the GT Mag or GT Flex).
- 18 Power Limb-Tip Caps™. Provide additional limb-tip strength and improved performance (not applicable to the GT Mag or GT Flex).

- 19 PBT Performance Cable Saver (not applicable to the GT Mag or GT Flex).
- 20 TenPoint's HX Ultra-Lite 4-Arrow Instant Detach Quiver.



These Items are exclusive to or were first introduced by TenPoint Crossbow Technologies™.



COMPACT LIMB SYSTEM (CLS) CROSSBOW LAYOUT

PHANTOM XTRA™



PHANTOM CLS™



Shadow CLS™

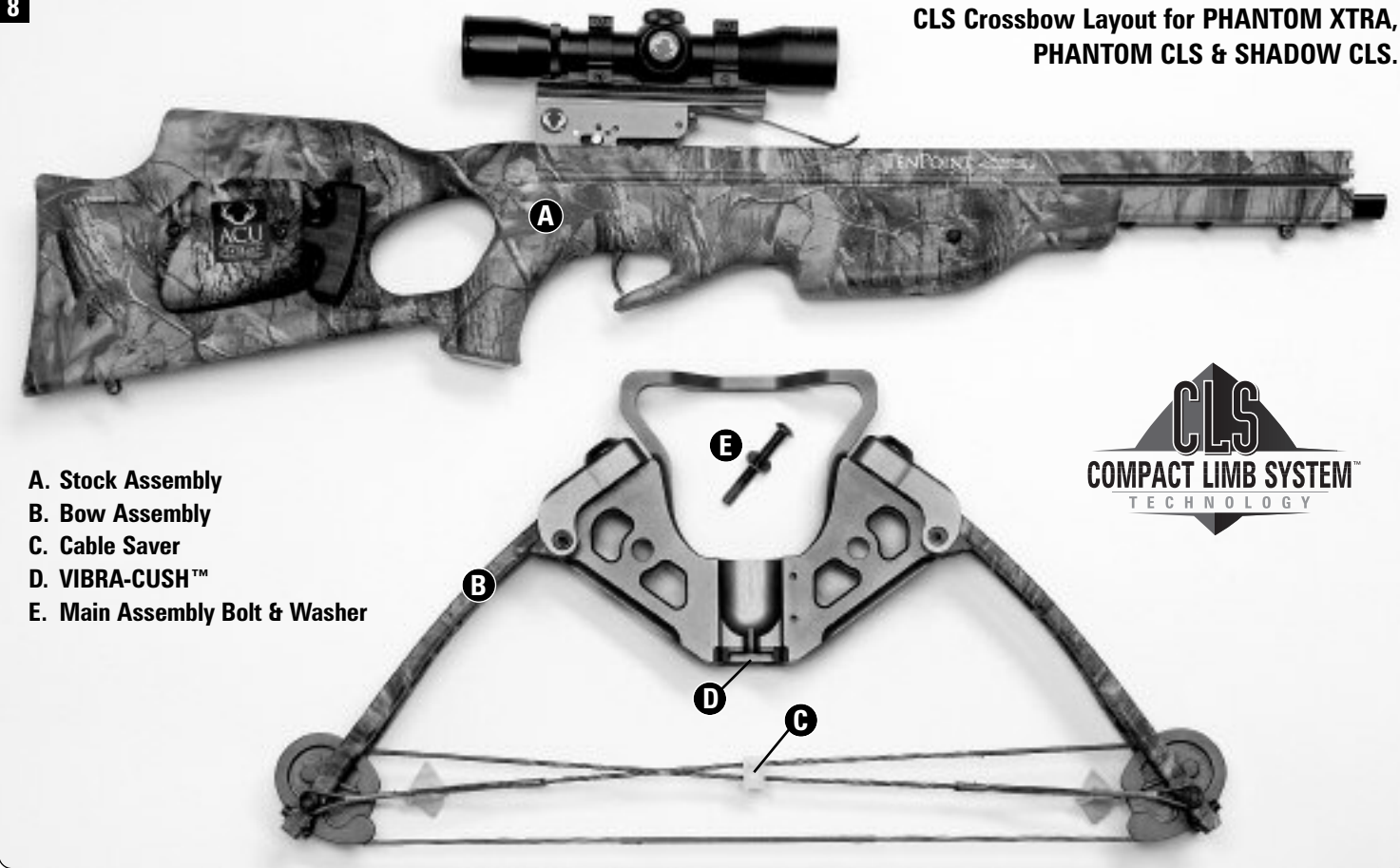


The CLS style crossbows are easy to assemble. Basically, you only have to bolt the *bow assembly* to the *stock assembly* and you are ready to shoot. Once assembled correctly, your crossbow is pre-sighted for 20-yards.

Note: The Phantom Xtra and Phantom CLS crossbows are pre-assembled at the factory and require no additional assembly steps when purchased. If reassembly of your crossbow is required at some point, please follow the detailed instructions in the Assembly Steps section.

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CLS Crossbow Layout for PHANTOM XTRA, PHANTOM CLS & SHADOW CLS.



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 8):

- 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 two (2) other small sealed plastic bags containing the main assembly bolt and washer (only if your CLS Crossbow was not pre-assembled), allen wrenches, and a rail oil wipe sample.



TENPOINT SERIES CROSSBOW LAYOUT

LAZER HP™



GT CURVE™



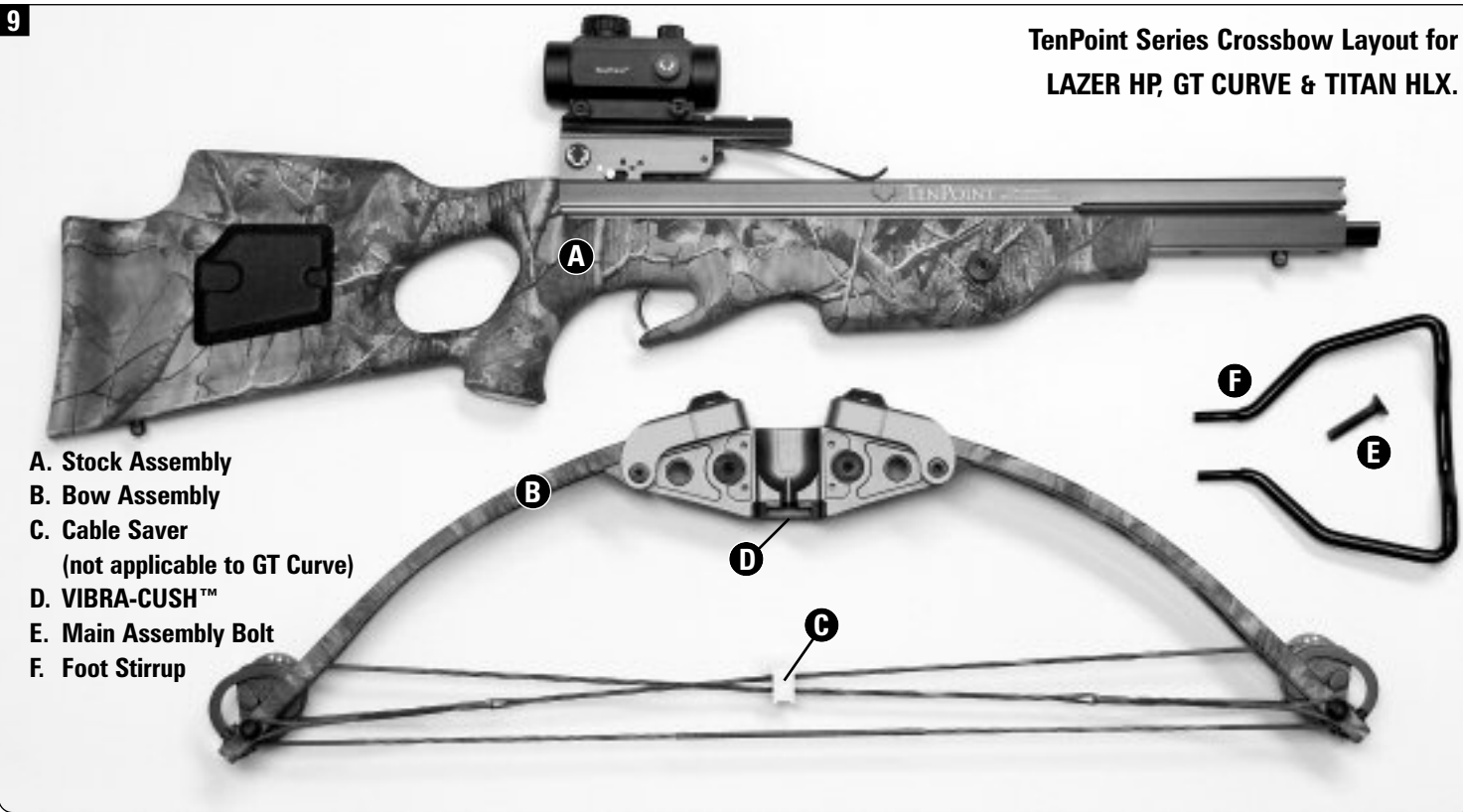
TITAN HLX™



Regardless of the model you selected, your TenPoint Series crossbow is easy to assemble. Basically, you only have to bolt the *bow assembly* to the *stock assembly*, install the *foot stirrup*, and you are ready to shoot. Once assembled correctly, your crossbow is pre-sighted for 20-yards.

9

TenPoint Series Crossbow Layout for LAZER HP, GT CURVE & TITAN HLX.



Lay out the contents of your TenPoint Series crossbow box in front of you (not applicable to the CLS models). Be certain the box contains all of the following items before beginning assembly (photo 9):

- One (1) complete stock assembly
- One (1) complete bow assembly
- One (1) cable saver (not applicable to GT Curve)
- One (1) VIBRA-CUSH™ (pre-installed at factory)
- One (1) foot stirrup
- One (1) large clear plastic bag containing paperwork (including a warranty card) and two (2) other small sealed plastic bags containing the main assembly bolt, allen wrenches, and a rail oil wipe sample.

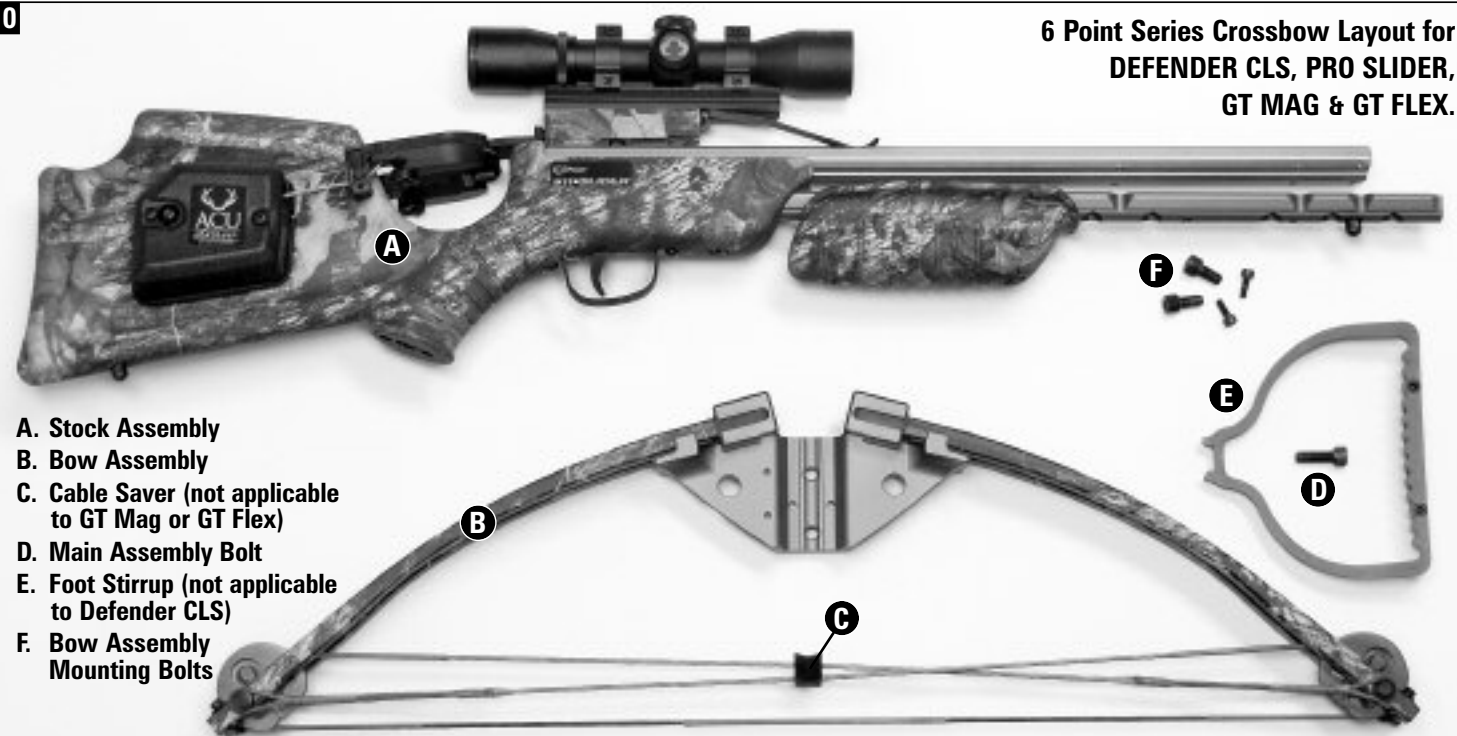
NOTE: TenPoint Series Crossbows do not come standard with a peep and pin sight system. They come with a 7/8-inch Weaver style scope mount designed for use with a scope. To convert to a peep and pin sight system, the Rear Peep Sight – bolt-on style (HCA-062) – and Front Sight with one Pin (HCA-041) are required.

6 POINT SERIES CROSSBOW LAYOUT

Regardless of the model you selected, your 6 Point Series crossbow is easy to assemble. Basically, you only have to bolt the *bow assembly* to the *barrel assembly* in any of three positions (long, medium, or short), for the Pro Slider or GT Flex (the Defender CLS and GT Mag can only be assembled in the long position), install the *foot stirrup* (not applicable to the Defender CLS), *quiver bracket* (if provided), and *front sight* (if provided), and you are ready to shoot. Once assembled correctly, your crossbow is pre-sighted for 20-yards when the bow assembly is mounted in the long position.



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6 Point Series Crossbow Layout for DEFENDER CLS, PRO SLIDER, GT MAG & GT FLEX.

- A. Stock Assembly
- B. Bow Assembly
- C. Cable Saver (not applicable to GT Mag or GT Flex)
- D. Main Assembly Bolt
- E. Foot Stirrup (not applicable to Defender CLS)
- F. Bow Assembly Mounting Bolts

NOTE: Front Sight Assembly and Peep not standard on model shown.

Lay out the contents of your 6 Point Series crossbow box in front of you. Be certain the box contains all of the following items before beginning assembly (photo 10):

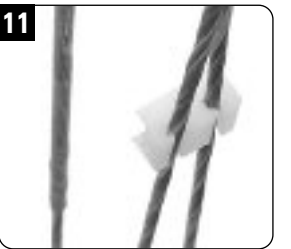
- One (1) complete stock assembly, including main assembly bolt, with fore-grip (fore-grip located in short position)
- One (1) complete bow assembly
- One (1) cable saver (not applicable to GT Mag or GT Flex)
- One (1) foot stirrup (not applicable to Defender CLS)
- One (1) large clear plastic bag containing paperwork (including a warranty card) and two (2) other small sealed plastic bags containing 4 bow assembly mounting bolts (2 large and 2 small), allen wrenches, a rail oil wipe sample, and a peep and pin sight assembly if your bow is a GT Mag or GT Flex purchased without a scope.

Note: Most of the 6 Point Series Crossbows do not come standard with a peep and pin sight system. They come with a 7/8-inch Weaver style scope mount designed for use with a scope. To convert to a peep and pin sight system, the Rear Peep Sight—bolt-on style (HCA-062)—and Front Sight with one Pin (HCA-041) are required.

ASSEMBLY STEPS

FOR ALL TENPOINT AND 6 POINT SERIES MODELS:

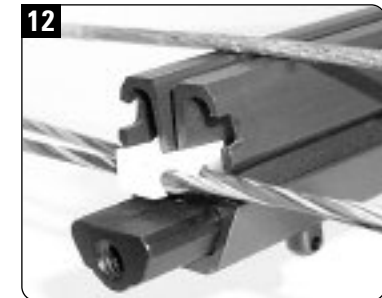
1. Do not attach the bow assembly to the stock assembly without the cable saver (not applicable to the GT Curve, GT Mag or GT Flex models—skip to step 2).
- When viewing the cable saver from the side, with its “dish” (concave surface) facing up, notice that one of the two cable notches is positioned 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 11), 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-11107) 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).



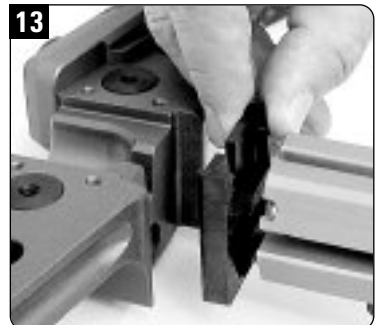
Make certain your cables go in the correct slots in your cable saver (not applicable to the GT Curve, GT Mag and GT Flex models).

(CLS AND TENPOINT SERIES CROSSBOWS):

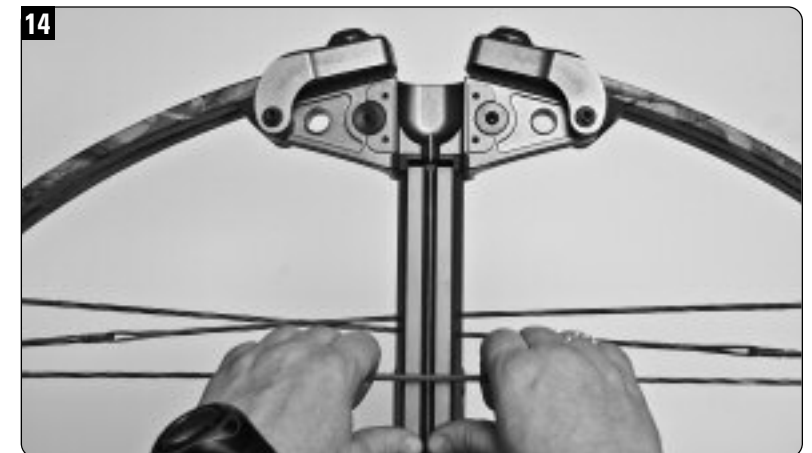
2. Attach the bow assembly and foot stirrup to the stock assembly as follows:
- Position the bowstring on the top of the barrel’s flight deck (GT Curve owners skip to the next step now)* while you insert the cable saver (concave side up) and the cables into the barrel’s cable slot. The cable saver’s concave groove (“dish”) should mate with the underside of the barrel’s arrow flight groove (photo 12).
- *Since the GT Curve contains no cables, ignore the cable saver portion of this step when assembling this model.
- Ensure that the pre-installed VIBRA-CUSH™ is in place with its cutout side facing the barrel (photo 13).
- 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 bow string may assist you in seating the bow assembly onto the stock assembly (photo 14).
- After you make sure the main assembly bolt’s locking setscrew is loosened, insert the main assembly bolt and tighten it securely with the allen wrench supplied (photo 15). **Do not use a cheater-bar when tightening the main assembly bolt.**
- Note:** Keep tightening the main assembly bolt on the GT Curve, and Titan HLX until the crossbow string is just barely touching, or just above the barrel (rail). **If the main assembly bolt is not tight enough, there will be excess serving wear on the string. You cannot tighten the main assembly bolt enough by hand to break it!**
- Insert the foot stirrup into the two receiving holes located at the front of the riser (not applicable to the CLS models). Make sure the “valley” in the stirrup’s foot pad points down so that it does not block the arrow’s flight path. Tighten the setscrews located on the bottom of the riser to lock the main assembly bolt and the foot stirrup in place (photo 16).



The bow string sits on the barrel’s flight deck while the cable saver and cables slide into the cable slot (cable saver and cables not applicable to the GT Curve).



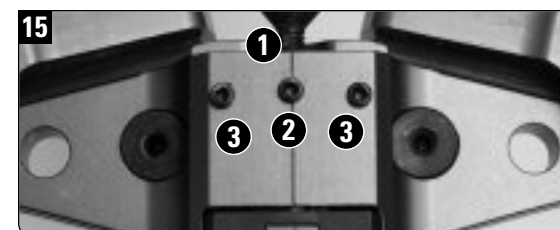
The VIBRA-CUSH™ goes between the riser and the barrel, cutout side facing the barrel (TenPoint Series crossbows only).



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



Once the foot stirrup is in place, tighten all three locking setscrews (foot stirrup setscrews not applicable to the CLS models). See page 13 if mounting the HX Instant Detach Quiver.



1. Main Assembly Bolt
2. Main Assembly Bolt’s Locking Setscrew
3. Foot Stirrup Locking Setscrews (Not applicable to the CLS models)

ASSEMBLY STEPS (cont.)

(6 POINT SERIES CROSSBOWS):

2. Attach the bow assembly and foot stirrup to the barrel assembly as follows:

- Position the bowstring on the top of the barrel's flight deck (GT Mag and GT Flex owners skip to next step now) *while you insert the cable saver (concave side up) and the cables in between the top and bottom of the UL TriLoc barrel. The cable saver's concave groove ("dish") should mate with the underside of the barrel's arrow flight groove (photo 17).
* Since the GT Mag and GT Flex contains no cables, ignore the cable saver portion of this step when assembling this model.
- Slide the bow assembly (riser) between the top and bottom of the barrel until it reaches the desired position (short, medium, or long) on the Pro Slider or GT Flex (the Defender CLS and GT Mag can only be assembled in the long position). Align the two bolt alignment notches (left and right side) and the two large holes on the bottom of the barrel with the four holes in the bottom of the riser for proper positioning (photos 18, 19 & 20).
Note: You will notice the bottom barrel contains three sets of bolt alignment notches (left and right side) that indicate the locations of the short, medium, and long positions on the Pro Slider and GT Flex only. The Defender CLS and GT Mag only have one set of bolt alignment notches (long position only).
- Insert the two **large bow assembly bolts** through the holes in the bottom of the UL TriLoc barrel that align with the riser before inserting the smaller side alignment bolts (photo 21).
Note: Squeezing the top and bottom of the barrel with your free hand when tightening the two large bow assembly bolts will help with alignment (photo 22).
- After making sure the two large bow assembly bolts are tightened, insert the two smaller bolts into the bolt alignment notches on the right and left of the barrel (these bolts attach through the bottom of the riser and the top of the barrel).
Note: Continue to squeeze the top and bottom of the barrel with your free hand when tightening the two smaller bow assembly bolts (photo 23).
- After tightening the two large and two small assembly bolts, try tightening all four of them again.

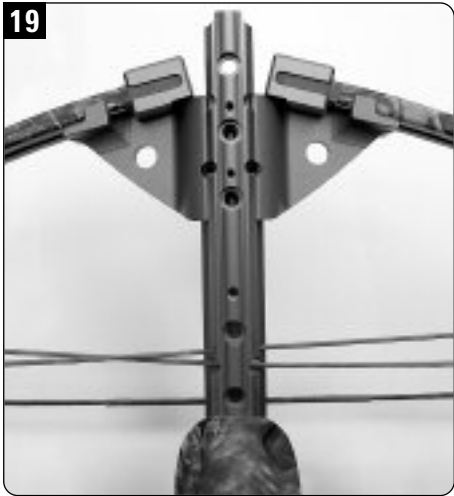


The cable saver's concave groove ("dish") should mate with the underside of the barrel's arrow flight groove (cable saver and cables not applicable to the GT Mag or GT Flex).

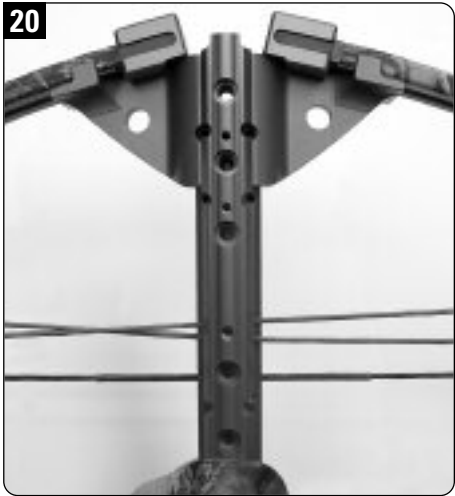
Three Bow Mounting Positions:



Bow assembly in "short" position (not applicable to the Defender CLS or GT Mag).

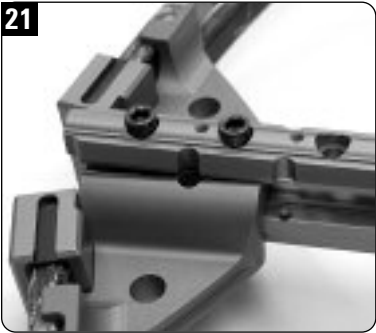


Bow assembly in "medium" position (not applicable to the Defender CLS or GT Mag).



Bow assembly in "long" position (all 6 Point models).

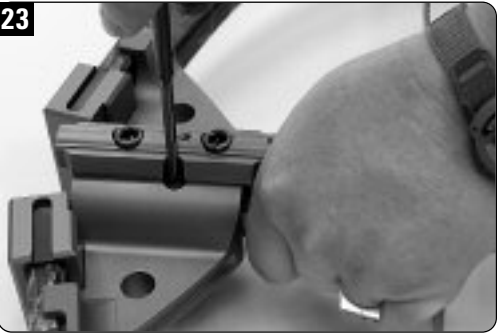
- If you choose to move the fore-grip to the long position (a matter of personal preference), remove the two fore-grip screws, align to desired position, re-insert them and tighten securely (photos 24 & 25).
- Attach the foot stirrup directly to the bottom section of the UL TriLoc barrel (not applicable to the Defender CLS) using the main assembly bolt (the main assembly bolt is located in the quiver accessory package when the crossbow is shipped). Make sure the "valley" in the stirrups foot-pad points down so that it does not block the arrow's flight path (photo 26).
Note: If you will be mounting the HX Instant Detach Quiver, follow the directions in the 6 Point Series Quiver Mounting section on page 14.
- If your GT Mag or GT Flex crossbow is equipped with a peep and pin sighting system, mount the front sight bracket using the screws provided. The front sight bracket screw holes are located on the left-hand side of the riser (photo 27). The peep sight is mounted directly to the trigger box top.
- You are now ready to test-fire your crossbow and fine-tune your sights (See Cocking, Loading, and Sighting Your Crossbow).



Insert the two larger bow assembly bolts in the bottom of the UL TriLoc barrel before inserting the smaller side alignment bolts.



Squeeze the top and bottom of the barrel with your free hand when tightening the two large bow assembly bolts.



Continue to squeeze the top and bottom of the barrel with your free hand when tightening the two smaller bow assembly bolts.



Fore-grip in "short" position.



Fore-grip in "long" position.



Attach the foot stirrup directly to the bottom section of the UL TriLoc barrel (not applicable to the Defender CLS). See page 14 if mounting the HX Instant Detach Quiver.



Mount your front sight on the left-hand side of the riser (GT Mag or GT Flex bow only).

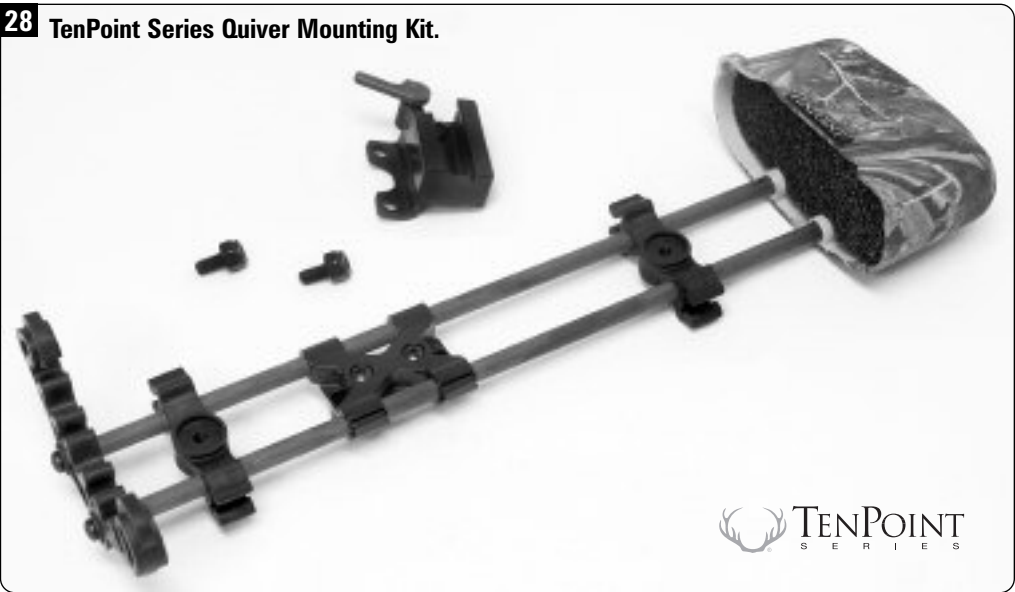
TENPOINT SERIES QUIVER MOUNTING

Regardless of the crossbow model selected, your TenPoint Series quiver mounting kit is easy to install.

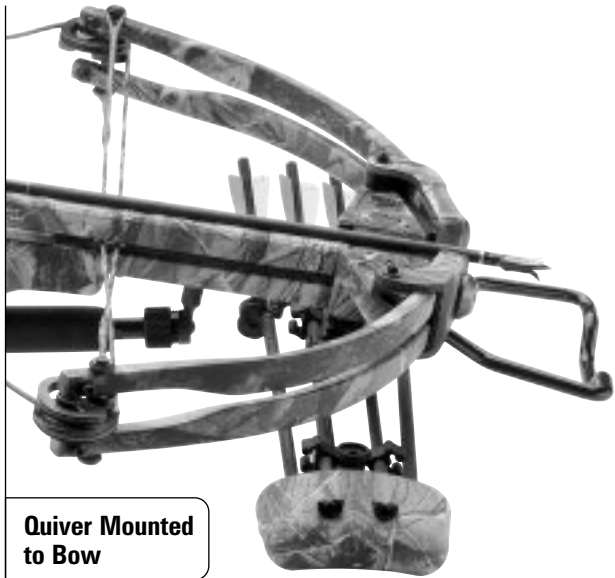
The TenPoint crossbow quiver mounting kit contains the following parts (photo 28):

- Lever-lock (female) attachment (1)
- Phillips pan-head machine screws (2)
- Quiver Mounting Bracket (1)
- 7/16-inch Nylock Nuts (2)*
- 3/4-inch setscrews (2)*
- HX Instant Detach Quiver with Lever-Lock (male) attachment (1)

* Denotes parts pre-assembled at the factory



1. Attach the Lever-lock (female) attachment to the Quiver Mounting Bracket using the two Phillips pan-head machine screws provided.
2. Completely remove the two 1/4-inch setscrews from the bottom of the riser (photo 29) (not applicable to CLS models).
Note: The pre-installed 1/4-inch setscrews are only used if you will not be mounting the quiver to the riser.
3. With the foot stirrup in the proper position (refer to step 2 on page 10), place the quiver bracket assembly over the two holes from which you just removed the 1/4-inch setscrews. The mounting bracket holes should face forward toward the foot stirrup. Insert the two 3/4-inch setscrews (with Nylock nuts) into the same holes you removed the original setscrews from and tighten (photo 30).
Note: Foot stirrup installation not applicable to the CLS models.
4. Tighten the two Nylock nuts on the setscrews until the quiver mounting bracket is secure. Use a 7/16-inch open-ended wrench to tighten (photo 31).
Note: Do not over-tighten.
5. Insert the HX Instant Detach Quiver, with male attachment, into the lever-lock attachment and lock in place with the lever (photo 32).



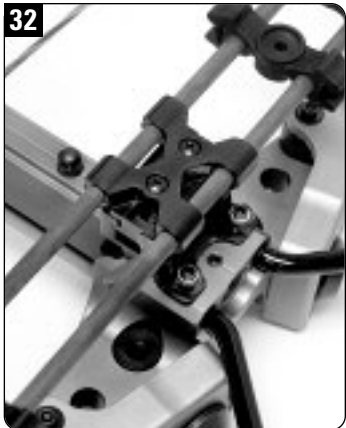
Remove 1/4-inch setscrews from the bottom of the riser (not applicable to CLS models).



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



Tighten the Nylock nuts with a 7/16-inch open-ended wrench.



Slide HX Instant Detach Quiver into place and lock with lever.

6 POINT SERIES QUIVER MOUNTING

33 6 Point Series Quiver Mounting Kit.

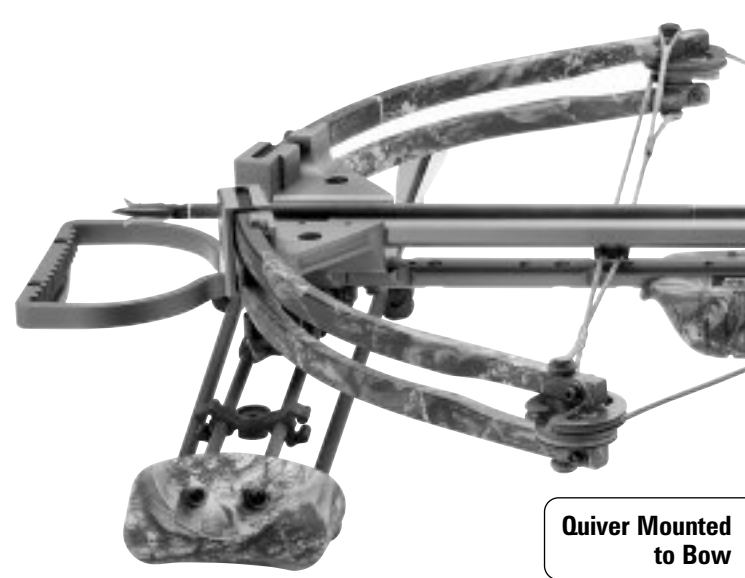


Regardless of the crossbow model selected, your 6 Point Series quiver mounting kit is easy to install.

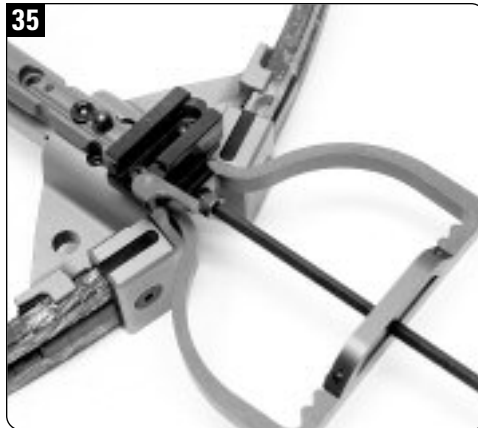
The 6 Point crossbow quiver mounting kit contains the following parts (photo 33):

- Lever-lock (female) attachment (1)
- Phillips pan-head machine screws (2)
- Quiver Mounting Bracket (1)
- HX Instant Detach Quiver with Lever-Lock (male) attachment (1)
- Main assembly bolt (1)

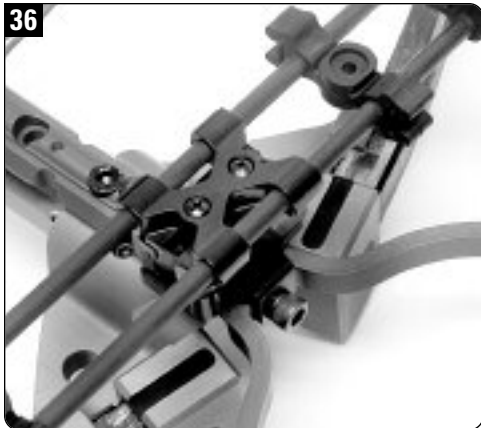
1. Attach the Lever-lock (female) attachment to the Quiver Mounting Bracket using the two Phillips pan-head machine screws provided.
2. Remove the main assembly bolt if it is still installed (photo 34); if it is not installed skip to step 3.
3. With the crossbow positioned bottom side up, mount the quiver bracket assembly between the main assembly bolt and the foot stirrup (photo 35) (mount the quiver bracket on the Defender CLS between the main assembly bolt and the riser).
4. Insert the HX Instant Detach Quiver, with male attachment, into the lever-lock attachment and lock in place with the lever (photo 36).



Remove Main Assembly Bolt.



Mount the quiver bracket assembly between the main assembly bolt and the foot stirrup (mount the quiver bracket on the Defender CLS between the main assembly bolt and the riser).



Slide the HX Instant Detach Quiver into place and lock with lever.

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. Keep your strings and cables moist and extend their life with a high quality string wax such as TenPoint's String and Cable Wax (HCA-110) or TenPoint's String Wax and Conditioner (HCA-11007). **Do not** apply string wax to the center serving, barrel, or trigger. You do not want wax to collect inside the trigger mechanism.

Note: TenPoint Crossbow Technologies™ recommends changing both string and cables every other year under normal hunting/shooting conditions.

- 2. Use a high quality barrel or rail lubricant such as TenPoint Crossbow Technologies™ Flight Rail / Trigger Lube™ (HCA-111) or Microlon's® Precision Oiler (HCA-11106) to increase arrow speed, reduce friction, and extend the life of your center serving. Its unique metal penetrating characteristics provide optimum lubrication without an oily or greasy film.

To lubricate your flight rail, apply a drop of lube on each side of the rail. Then spread the lube the length of the barrel with your finger. Applying the flight rail lubricant approximately every 75 to 100 shots, or Microlon's Precision Oiler every 150-200 shots, should be adequate (photo 37).

Note: Applying too much rail lube can break down your string serving (and the felt pad on the claw if the crossbow has an ACUdraw unit).

Also regularly apply a drop of lube or Microlon's Precision Oiler to your wheels and axles. **Do not use heavy oil, grease, or substances similar to petroleum jelly** to lubricate your crossbow parts because they will attract dust and grit and will work their way into your trigger housing making it sluggish and perhaps inoperable in cold weather.

- 3. Keep your trigger dry and occasionally lubricate it:
 - After using your crossbow in damp or wet conditions, dry its trigger parts by aiming a blow dryer through the various holes that lead to its interior parts. To avoid rusting, spray the interior of the trigger with WD-40 (or comparable material to displace water/moisture only) before you apply trigger lube or Microlon's Precision Oiler. ***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.**

- Apply a drop of TenPoint Flight Groove / Trigger Lube (HCA-111) or Microlon's Precision Oiler (HCA-11106) through the PowerTouch™ Trigger's safety knob window while it is in both the **SAFE (white dot)** and **FIRE (red dot)** positions (photo 38).

Apply a drop inside the closed end of the trigger's string slot to lubricate the safety slide and string latch (photo 39).

- 4. Do not expose your crossbow to excessive heat such as leaving it in an automobile trunk on a hot day, a hot attic or storing it next to a furnace. Store it in a cool dry place. Storing your crossbow in an unheated garage or damp basement may cause some of its parts to rust. Again, if you get your crossbow wet, make certain you dry and lubricate it before storing it.

- 5. To avoid stripping your main assembly bolt and limb bolts (on certain TenPoint Series crossbow models), be certain to loosen their respective locking setscrews before tightening or loosening them (photo 40).

Note: TenPoint does not recommend loosening limb bolts to relieve string pressure in the off-season.

- 6. Only TenPoint Crossbow Technologies™ or an authorized repair facility may repair trigger mechanisms and/or the ACUdraw™ or ACUdraw 50™ automated cocking units.

Note: Unauthorized repairs may void your warranty. If repairs are necessary, contact the **Customer Service Department at 330.628.9245 or email your request at www.tenpointcrossbows.com for a Return Authorization Number** and shipping and payment instructions.



Lubricate your flight rail approximately every 75 to 100 shots with flight rail lubricant or 150 to 200 shots with Microlon's Precision Oiler.



Lubricate the Power Touch Trigger through the safety slide window.

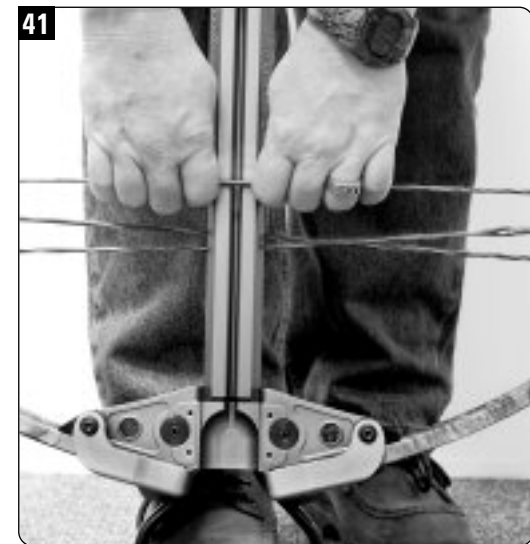


Apply a drop just inside the closed end of the trigger's string slot.



Loosen locking setscrews before turning the main assembly bolt or limb bolts (on certain TenPoint Series crossbow models).

CAUTION



If you do not cock your crossbow exactly according to these instructions, chances are you will not group your arrows consistently.



TenPoint's patented DFI™ (Dry-Fire Inhibitor).

DANGER

CAUTION

COCKING & LOADING

Practicing the following cocking, loading, and shooting procedures until they become second nature will ensure that you shoot safely and accurately every time: **CAUTION**

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™ - instead of the string latch - holds the bowstring, you cannot fire the crossbow. When cocked correctly, the bowstring will automatically set the safety and the string latch will grasp and hold the string (See earlier photos 5-7).
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 manually or when using the ACUdraw 50™.
3. Inaccurate cocking is the most frequent cause of inaccurate shooting. With any crossbow, if the bowstring is not perfectly centered on the string latch when cocked, the bow will not shoot straight. To ensure a perfect draw, grab the string along the sides of the barrel with all four fingers of each hand. Slide the hands together so that the index fingers of both are clearly against the sides of the barrel (our ACRA-ANGLE barrel allows you to slide your index fingers along the barrel without getting pinched) (photo 41).
4. Using the sides of the barrel as your guide - and with a secure grip - pull the string toward the trigger assembly until you see the string latch and the safety engage. Make certain the latch is holding the string securely before you relax your grip. The more aggressively you draw the string back, the easier it is to cock. Over time, you will develop a drawing technique that will make cocking the bow quite easy.
5. All TenPoint crossbow models are equipped with a patented DFI™ (Dry-Fire-Inhibitor) (photo 42), which prevents the bow from dry-firing if an arrow is not loaded. Remember, if you try to cock the crossbow with the safety knob in the **SAFE** position, you will pull the string past the DFI, which will hold the string in a position that appears as if it were cocked (see earlier photo 6); however, the bow will not be cocked, and it will not fire an arrow. To finish cocking the bow, move the safety to the **FIRE (red dot)** position and firmly finish the cocking motion. You will see the string latch and the safety engage as the safety knob moves into the **SAFE (white dot)** position.
6. Even though the safety automatically engages when you latch the string, **make certain** it is in the **SAFE** position before putting your finger on the trigger. You cannot be too careful. And, again, remember: **never** point a cocked crossbow at anything you do not intend to shoot, and **never** release the safety until you are ready to shoot.
7. Place a TenPoint recommended crossbow arrow in the flight groove on the top of the barrel. Slip a vane or feather 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.

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 (see earlier photos 1, 2, 3, & 4). If you do, you will injure yourself severely when you fire your crossbow.

UNLOADING

You may leave your crossbow cocked or loaded all day while you are in your tree stand or ground blind. **Do not**, however, leave it cocked or loaded overnight or while being transported.

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).

DANGER

Do not perform maintenance or repairs you are not qualified to make.

If you have any questions regarding maintenance or repair, call the Customer Service Department at:

330.628.9245 or www.tenpointcrossbows.com

Unauthorized repairs may void your warranty.

SIGHTING YOUR CROSSBOW

Most TenPoint and 6 Point Series Crossbows are designed to be used with a scope and come with a fixed 7/8-inch Weaver style dovetail scope mount. Regardless of the sighting system, all models are pre-sighted for 20-yards at the factory, meaning they are set accurately enough to hit a 7-inch pie tin at that distance. Most likely, you will want to fine-tune your sights at some point.

1. PIN SIGHTS:

For precision sighting, work from a bench rest starting at a distance of 10-yards from your target. **Make certain to keep your hands and fingers away from the cables and/or the flight path of the string.**

Note: Bench shooting invites misplacement of the fore-grip hand (see photos on page 2).

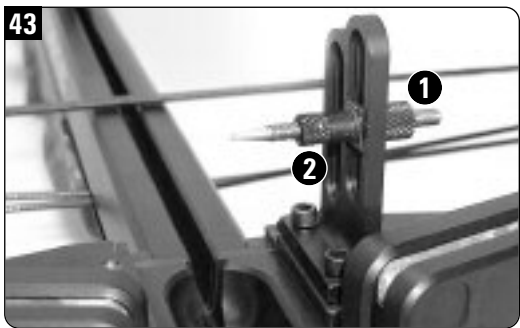
- Skip the 10-yard step if you are fine-tuning your factory setting.
- Looking through your rear peep sight, center the sight pin in the peep and then align the pin with your target. Shoot several arrows at the same spot to establish a grouping pattern. If your arrows are not grouped tightly, review your shooting technique as one option. It is possible there could be a flaw in your shooting technique.
- Loosen the elevation (up & down) lock-nut on your sight pin. Correct for elevation first since it is the easier of the two to correct (photo 43).
- To “zero” or correct your sight pin, one simple principle applies: always move the pin in the same direction as the error or impact point of your arrow grouping (i.e. follow the arrow). For example, if the impact point of your group is too low, lower the sight pin to correct the error. If you are shooting too high, raise the pin to correct the error. Once you make your correction, tighten the sight pin lock-nut securely.
- Repeat the same procedure to correct a windage (right or left) error. Again, correct the error by moving the pin in the direction of the error. That is, move the pin to the right if you are shooting too far right, and vice-versa.
- Move back to **20-yards** – or the yardage you want your pin set at - and repeat the procedure.

2. REAR PEEP SIGHT:

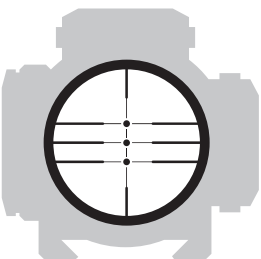
On all models, the rear (bolt-on style) peep sight (HCA-062) mounts in a fixed position directly to the top of the trigger box (scope mount must be removed first).

3. SCOPES:

- All scopes contain windage and elevation adjustment dials. Remove their protective caps to adjust them. Their dials will indicate the direction in which to turn them to make a particular correction.
- 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.
 - Make final sight adjustments on the multi-dot and multi-line scopes using the middle dot or line at **30-yards**. Continue to fire and adjust the scope until your impact and aiming points coincide. When sighted in at **30-yards**, the top dot or line will be accurate at **20-yards** and the bottom dot or line will be accurate at **40-yards**.
 - **Focusing** (3x Multi-Line and 3x Pro-View Scopes only): If the reticle is not in focus when you look through the scope adjust focus by rotating the non-locking knurled ring on the edge of the rear bell.
 - **Light Intensity Adjustment** (Illuminated Scopes only): Adjust dot brightness by turning the intensity dial on the left side or top of scope. The higher the intensity, the brighter the dots will appear (lines are not illuminated on the 3x Pro-View Scope). Use the lowest intensity possible for your light conditions to achieve maximum performance. The intensity dial is also the “on” and “off” switch. To operate the scope, line up the intensity number/color desired with the index dot on the scope tube. **THE DIAL SHOULD BE IN THE “0” OR OFF POSITION ON THE PRO-40 SCOPE OR IN THE “R” OR “G” POSITION ON THE 3x PRO-VIEW SCOPE WHEN NOT IN USE.**



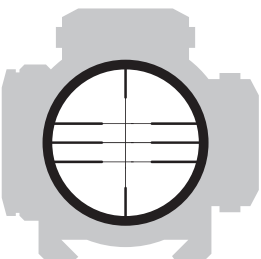
1. Elevation lock nut 2. Windage lock nut



3X PRO-VIEW



Pro-40
MULTI-DOT



MULTI-LINE

SCOPES (continued)

- **Multi-Dot/Multi-Line Operation** (3x Pro-View Scope only): This scope is equipped with three dots and three lines calibrated for **20, 30 and 40-yards**. The dots can be viewed in black (when the dial is in the “R” or “G” off positions), red or green. The top dot/line is calibrated for **20-yards**, the center for **30-yards** and the bottom for **40-yards**.
- **Scope Battery** (Illuminated Scopes Only): The illuminated scopes require a lithium **2032** size battery. Lithium batteries have a shelf life (not in use) of up to ten years. They are designed to operate in temperatures far below that of other power cells. The practical life of the battery is determined by the number of hours used and the brightness intensity being used. Therefore, **YOU SHOULD ALWAYS CARRY A SPARE BATTERY IN THE FIELD TO BE SAFE.**

Changing Scope Battery: The scope 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. Replace the battery (**lithium 2032**) and screw battery cover back on, clockwise, to re-install.

- **Maintenance:** Keep the scope away from acid, alkaline and other corrosives. Remove dust and dirt on the surface of the scope with TenPoint’s LensPen (HCA-09107) or a soft cloth or tissue with a small amount of alcohol.

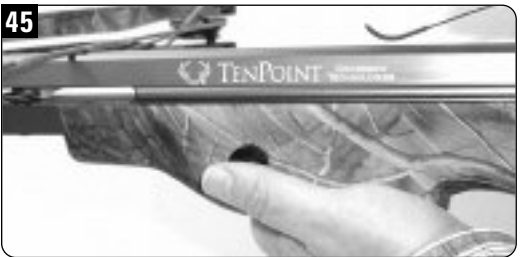
CAUTION

GRIPSAFETY™ (PHANTOM XTRA, PHANTOM CLS, SHADOW CLS & LAZER HP)

U.S. Patent No. 7,281,534



GripSafety button on side of fore-grip.



Depress the GripSafety with your thumb before squeezing the trigger.

TenPoint’s four top-of-the-line crossbows; PHANTOM CLS, PHANTOM XTRA, SHADOW CLS, and LAZER HP are equipped with the innovative **Patented** GripSafety. The GripSafety is a secondary safety button positioned on the side of the crossbow’s fore-grip (photo 44). The GripSafety requires the shooter to hold the fore-grip properly – and safely – below the surface of the flight rail while shooting the crossbow.

Operating Instructions:

To shoot a GripSafety-equipped TenPoint crossbow, shoulder the bow, slide the trigger’s brass safety knob forward to the “**FIRE**” position, depress and hold the GripSafety button, and squeeze the trigger. If the trigger safety is engaged (“**SAFE**” 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 left thumb (photo 45). Left-handed shooters will depress it with either the index or middle finger.

Note: Left-handed shooters can have the GripSafety converted. 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.

Customer Service Department **330.628.9245**
or **www.tenpointcrossbows.com**

Please contact us if you have questions about the operation or operating condition of your crossbow.

You should not return this product to your retailer for credit if you have a warranty claim.
See warranty claim information/directions on the back cover of this manual.

FIXED 7/8-INCH DOVETAIL SCOPE MOUNT

Most TenPoint crossbows, with or without scope, come pre-mounted with our Fixed 7/8-Inch Dovetail Scope Mount, HCA-078 (photo 46).

If you choose to use a peep and pin sighting system with these models, you must purchase the Rear Peep Sight (HCA-062) and Front Sight with Pin (HCA-041).

Note: You will need to remove the 7/8-inch dovetail from the crossbow and mount the peep directly to the bow's fixed sight bridge.

When a GT Mag or GT Flex is purchased without a scope it will come with a peep and pin sighting system. The peep is mounted on the bow's fixed sight bridge (photo 47). If you wish to add a scope later you must purchase one of the Fixed 7/8-Inch Dovetail Scope Mounts.



Fixed 7/8-inch Dovetail Scope Mount and scope.



GT Mag or GT Flex with Peep Sight.

ADJUSTING THE SAFETY

If your trigger's safety is either too stiff or too sloppy you can adjust its tension. If the tension is too light, your safety may slip into the **SAFE** position after a shot, which is not desirable since you cannot successfully cock your crossbow from the **SAFE** position.

To adjust the tension in crossbows with a PowerTouch trigger, insert an Allen wrench in the hole located on top of your dovetail, locate the adjustment screw and turn it clockwise to increase the tension or counter-clockwise to ease the tension (photo 48).

Note: Adjusting the safety will **NOT** lower the poundage on the trigger pull.



Access the safety tension screw through the top of the dovetail on PowerTouch trigger boxes.

CAUTION

USE THE CORRECT ARROW

Do not void your warranty.

TenPoint Crossbow Technologies recommends using finished arrows weighing at least 420-grains on most of our crossbows. Using less than the recommended weight combinations can produce a dry-fire effect with your crossbow.

Note: The minimum grain weight for the GT Curve, GT Mag and GT Flex crossbows is 350-grains.

Aluminum Arrows

When shooting your crossbow, we recommend our 2219 / XX75 aluminum 20-inch, TenPoint Crossbow arrows equipped with a blunt nock (flat cap) and vanes or feathers.

Carbon Arrows

TenPoint also makes and recommends the 22/64th carbon crossbow arrow fletched with plastic vanes, brass inserts and SuperBrite caps. They weigh approximately 420-grains with a 100-grain field point or broadhead (445-grains with a 125-grain point). At those weights, they perform comparably to TenPoint's 2219 aluminum arrows.

Arrow Fletching

TenPoint has found that arrows fletched with a right, straight offset or right helical fletching with a 1 1/2 - 2-degree offset works the best with fixed broadheads.

Tuning

TenPoint 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. Your arrow and broadhead need to spin without wobbling. The blades of the broadhead do not need to line up with the arrow fletching – spinning without wobble is more important.

CAUTION

Unauthorized repairs may void your warranty.

If repairs are necessary, contact the Customer Service Department at 330.628.9245 or email your request at www.tenpointcrossbows.com for a Return Authorization Number and shipping and payment instructions.

See warranty claim information/directions on the back cover of this manual.

STRING AND CABLE ADJUSTMENT CHARTS FOR DEALERS (APPROXIMATE SETTINGS)

Only qualified professionals with proper tools and equipment should attempt to make repairs or adjustments to TenPoint Crossbow Technologies crossbows or should attempt to change cables and/or strings. The following cable/string-twist chart represents a good starting point for achieving optimum poundage and performance when changing cables and strings.

Note: Less than the minimum amount of twists in the string will add to increased serving wear and separation.

Crossbow Model	Strings	String Twists	Cables	Cable Twists
*HuntsMan 1994-1997	HCA-117	13	Upgrade Required	13 (after upgrade)
HuntsMan 1998	HCA-117	13	HCA-126	Steel (no twists)
*HuntMaster (w/o yokes) 1994-1995	HCA-115 or HCA-115C	13	Upgrade Required	13 (after upgrade)
HuntMaster (w/yokes) 1995-1997	HCA-115	13	HCA-122	13
HuntMaster TL-4 1998	HCA-115 or HCA-115C	13	HCA-124 or HCA-124C	13
458 Magnum 1996-1997	HCA-119	13	HCA-124	13
458 Magnum TL-4 1998-1999	HCA-115	13	HCA-124	13
WoodsMan, WoodsMan Plus & WoodsMan SE	HCA-117	13	HCA-126	Steel (no twists)
Slider, Titan TL-7, Titan TL-4, Titan & Titan SE	HCA-117	13	HCA-126	Steel (no twists)
Turbo Extreme & Magnum Extreme	HCA-115 or HCA-115C	13	HCA-124 or HCA-124C	13
Elite, Magnum, Stealth & Turbo X-2	HCA-115 or HCA-115C	13	HCA-124 or HCA-124C	13
Elite Lite & Hybrid Lite	HCA-115 or HCA-115C	13	HCA-124 or HCA-124C	13
Pro Fusion, Pro Slider & Titan HLX	HCA-115 or HCA-115C	13	HCA-124 or HCA-124C	13
Pro Elite, Elite QX-4 & QX-4	HCA-115 or HCA-115C	13	HCA-124 or HCA-124C	13
Pro Elite HP, Blazer HP, & Lazer HP	HCA-11807	13	HCA-12507	13
Phantom Xtra, Phantom CLS,Shadow CLS & Defender CLS	HCA-11607	18-20	HCA-12307	7*
GT Curve,GT Flex & GT Mag	HCA-12008	16-20	N/A	N/A

* Huntsman crossbows from 1994-1997, and HuntMaster models without yokes from 1994-1995 require upgrades before cables can be replaced.

Note: The section of the cable yokes that attach next to the lower limbs on quad-limb bows or next to the bottom side of solid-limb bows should be twisted approximately four (4) times prior to attachment. This adjustment should prevent limb-twist while cocking the crossbow. *Twist the Phantom Xtra, Phantom CLS, Shadow CLS and Defender CLS bottom yokes five (5) times.

STRING AND CABLE SPECIFICATIONS

Part Number	Length	Materials	STRINGS
HCA-115	37.5"	Fast Flight - 32 strands	
HCA-115C	37.5"	D-75, 28 strands – Camo	
HCA-117	37.5"	B-66 - 22 strands	
HCA-119	36.625"	Fast Flight - 32 strands	
HCA-11807	37.5"	Ultra Cam - 28 strands	
HCA-11607	34.5"	Ultra Cam - 28 strands	
HCA-122	26.875"	Fast Flight - 32 strands	
HCA-12008	35.625" incl. 2" Loops	452X - 40 strands	CABLES
HCA-124	21.5", 12" Yoke	Fast Flight - 32 strands	
HCA-124C	21.5", 12" Yoke	D-75, 28 strands – Camo	
HCA-126	21.5", 12" Yoke	3/32 steel cable with barrel end, B-66 yoke	
HCA-12507	21.5", 12" Yoke	Ultra Cam - 28 strands	
HCA-12307	16.625", 12" Yoke	Ultra Cam - 28 strands	

Note: When changing string & cables, do not mix materials or strand amounts (Fast Flight string must be used with Fast Flight cables, D-75 string with D-75 cables, and Ultra Cam String with Ultra Cam cables).

RE-STRINGING THE RECURVE CROSSBOW



Position the loop of the crossbow re-stringer on the secondary shelf of the limb tip.

1. Position each loop of the crossbow re-stringer on the secondary shelf of the limb tips – not in the string groove (photo 49). Apply consistent tension on both sides of the re-stringer to keep loops from slipping off.
2. Begin pulling re-stringer back toward the trigger box until the re-stringer is sitting on the Dry-Fire Inhibitor™ (DFI) (photos 50 & 51). **Note:** Do not fully cock the crossbow with the re-stringer.
3. If replacing the string, remove the existing string from the limbs. If string is already removed, skip to step 4.



Pull the re-stringer back toward the trigger box until the re-stringer is sitting on the dry-fire inhibitor.



Stop pulling back on the re-stringer as soon as the re-stringer is sitting on the dry-fire inhibitor – **do not** fully cock the crossbow



Place one loop of the string in the string groove.

4. Place one loop of the string into the string groove (photo 52) and twist the string in the same direction as the serving – (so the string serving does not separate) - approximately 16 to 20 full twists. **Note:** Twisting the string in the opposite direction of the serving may cause premature serving separation which can reduce string and/or serving life.
5. After twisting the string, position the second loop over the string groove on the opposite limb.

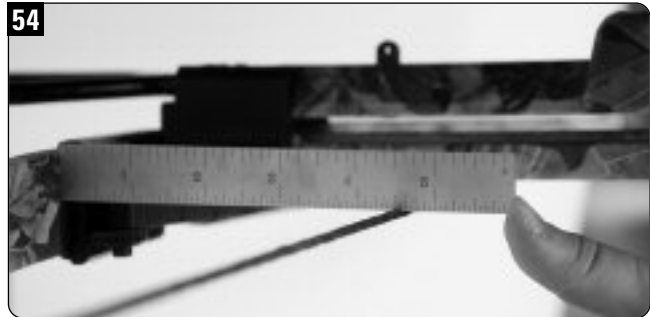
RE-STRINGING THE RECURVE CROSSBOW

53



Push the DFI pin down with the index finger.

54



Measure the tiller from the base of the limb (at the edge of the limb pocket) to the underside of the string.

6. Without cocking the crossbow, pull slightly back on the re-stringer. Push the DFI pin down with the index finger (photo 53) and slowly let down the re-stringer until all of the tension is on the crossbow string.
7. Remove the re-stringer from the crossbow.
8. Measure the tiller from the base of the limb (at the edge of the limb pocket) to the underside of the string (photo 54). The tiller measurement should be 4 1/2-inches.
9. Shoot the crossbow three to four times and re-measure the tiller. The tiller measurement should now be between 4 3/8-inches to 4 1/2-inches. If not, repeat the steps and add or subtract the number of twists to get the correct measurement.

You should not return this product to your retailer for credit if you have a warranty claim. See warranty claim information/directions on the back cover of this manual.

CAUTION

Unauthorized repairs may void your warranty.

If repairs are necessary, contact the Customer Service Department at 330.628.9245 or email your request at www.tenpointcrossbows.com for a Return Authorization Number and shipping and payment instructions.

See warranty claim information/directions on the back cover of this manual.

ACUdraw™



U.S. Patent No's. 6,095,128; 6,286,496 B1 & 6,913,007

TENPOINT CROSSBOW TECHNOLOGIES'™ INTEGRATED AUTOMATED COCKING DEVICE

All TenPoint crossbows can be ordered with our patented ACUdraw automated cocking unit already installed or they can be retrofitted with one any time after purchase.

The premier cocking unit available anywhere today, the ACUdraw makes crossbow hunting and shooting safer and more accessible. Weighing just over one pound, it features a gear reduction mechanism so effective that anyone with normal hand strength can crank it with one finger. Even if you have the strength to draw today's modern crossbows, the ACUdraw offers you the advantages of cocking your bow consistently straight every time and cocking it effortlessly and safely from a seated position in your treestand.

Compactly built into the crossbow's butt stock, it does not interfere with shooting. In fact, most ACUdraw owners say it enhances shooting accuracy by affording a comfortable and stable platform to position the side of the shooter's chin against.

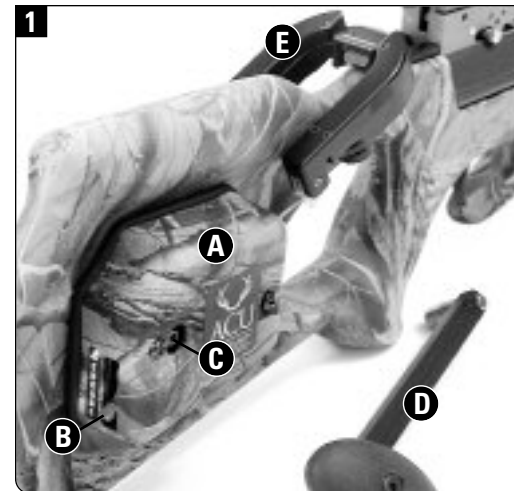
It is also perfect for almost anyone – male or female, young or old who, for whatever reason, cannot cock a crossbow.

WARNINGS AT A GLANCE

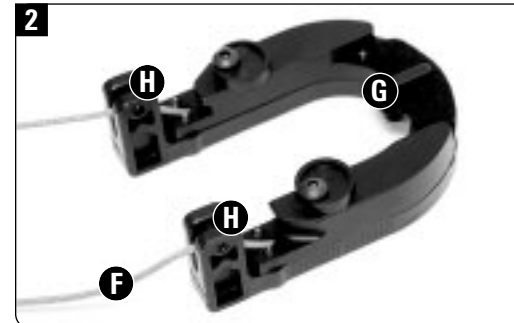


The ACUdraw is a powerfully built yet sensitive mechanism. To avoid damaging the unit or injuring yourself or others, heed these warnings. Carefully read the entire set of instructions before operating your ACUdraw.

- **Don't** use your ACUdraw to uncock your crossbow. Carry a practice arrow that you can shoot into a target or into rock-free ground.
- **Don't** operate your ACUdraw if your draw cord is frayed or worn.
- **Don't** crank your ACUdraw without first engaging its safety lever.
- **Don't** crank your ACUdraw in reverse when the claw is fully extended or when it is in its storage position.
- **Don't** start cranking your ACUdraw until you are certain the crank and the claw are seated securely in their respective ready-to-cock positions.
- **Don't** over-crank your ACUdraw.
- **Don't** allow the crank to slip out of your hand.
- **Don't** forget to return the claw to its storage position after cocking the crossbow.
- **Don't** place your foot in the stirrup when operating your ACUdraw.
- **Don't** allow the ACUdraw cord to get hung-up on any portion of the crossbow, scope or other accessories while cranking the ACUdraw unit.
- **Don't** over-crank the ACUdraw unit when returning the claw to its storage position.
- **Once the crossbow is cocked, it is dangerous to release the safety pawl (lever) without first placing just enough forward (clockwise) pressure on the crank handle to relieve the tension on the winch (approximately 1/4-inch to 1/2-inch). Without letting go of the crank, disengage the safety and unwind the crank no more than 2 1/2 to 3 turns to relieve the bow string tension before removing the crank. With the tension relieved and the crank removed, do not forget to return the claw to its storage position. (See photos 7, 8 & 9).**



A-Cover. B-Safety Pawl (Lever). C-Drive Hex. D-Crank. E-Claw in Storage Position.



F-Draw Cord. G-Guide Post. H-String Slots.



Properly relieve the tension on the ACUdraw unit before lifting the claw out of its storage position (approximately 1/4-inch to 1/2-inch).



Connect the string slots to the bowstring and lower the guidepost into the barrel's flight groove.

ACUDRAW OPERATING INSTRUCTIONS



WARNING !

Study these directions carefully. You can severely injure yourself and/or damage your ACUdraw, if you do not operate it according to these instructions.

1. If your **draw cord** (photo 2 – item F) and **safety pawl** (lever) (B) (photo 1) are under tension while the **claw** (photo 1) is in its **storage position** (E), first relieve that tension by inserting the **crank** (D) in the **drive hex** (C) and applying a slight amount of clockwise (forward) pressure (approximately 1/4-inch to 1/2-inch) (photo 3). Then push the safety pawl lever down to disengage it. Once disengaged, remove the crank, lift the claw from its storage position behind the trigger box, pull it over the trigger box assembly, and securely connect its **string slots** (H) to the bowstring (photo 4).

The claw's **guide ridge** (G) located at the front of the claw will fit into the barrel's flight deck groove and keep the claw centered as you crank the mechanism. Make certain your draw cord does not get hung-up on your scope, the PowerTouch™ trigger's brass safety knobs or any other part of the crossbow (photo 5).

2. Notice that the draw cord passes completely through the claw, ensuring that the claw remains centered as you crank the mechanism. This self-centering feature promotes shooting accuracy because it makes the mechanism cock your bowstring consistently straight time-after-time.

3. Lift the safety pawl to engage it. Insert the crank, or a battery operated drill or screwdriver (equipped with a 1/4-inch socket and a clutch or low torque setting) in the drive hex (photo 1).

4. Stand the bow erect on its foot stirrup or place it on a table or platform in front of you and firmly hold the butt of the stock in your left hand.

Note: for left-handed cranking, simply turn the bow around so that the crank engages the hex on your left-hand side.

5. With your safety knob in the **FIRE** (red dot) position, begin cranking the ACUdraw™ clockwise (or powering it forward with a battery operated drill or screwdriver on a **low** torque setting). It takes approximately 20 to 26 turns to cock the crossbow. You will know the crossbow is cocked when you see the trigger safety move to the **SAFE** (white dot) position. **You must stop cranking as soon as the trigger safety moves into the "SAFE" position. Severe damage to the trigger box and/or the ACUdraw unit may be caused by over-cranking the mechanism.**

6. Once cocked, you can see that the claw holds the bowstring under tension rather than the trigger's string latch holding the bowstring (photo 7). You **must** relieve that tension before attempting to disengage the safety or removing the claw.

7. To relieve the tension, place a small amount of additional clockwise pressure on the crank (approximately 1/4-inch to 1/2-inch), and disengage the safety pawl (photo 8). Trying to disengage the safety pawl without first relieving the pressure can damage the mechanism. Hold the crank securely as you disengage the safety pawl. Unwind the crank no more than 2 1/2 to 3 turns to relieve the string pressure. **Continuing to unwind the ACUdraw after the string pressure is relieved will damage the mechanism. Remove the crank only after the mechanism is no longer under pressure** (photo 9).

8. Slide the claw out of the trigger box until it clears the arrow retention spring (photo 10), and return it to its storage position (photos 11 and 12). An internal retraction spring will automatically spool the draw cord back inside the mechanism. The claw holder mounted behind the trigger box is designed so that the claw will not dislodge even when you turn the crossbow upside down. ***Over-cranking the ACUdraw unit when returning the claw to its storage position can result in breaking the hardened metal claw resting place (claw holder).** One to two **CLICKS** are normally sufficient to secure the claw to the claw holder.

9. You are now ready to load your crossbow with an arrow.

To avoid damaging your ACUdraw once your bow is cocked, apply a small amount of additional clockwise force to the crank (approximately 1/4-inch to 1/2-inch), disengage the safety pawl, and unwind the mechanism 2 1/2 to 3 turns to relieve the string tension.

5



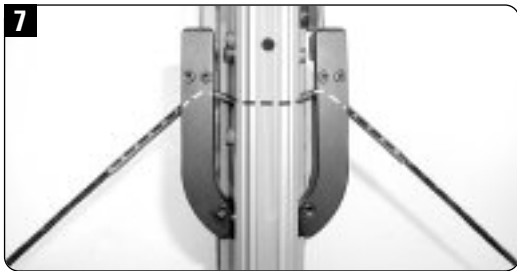
Don't allow the draw cord to get hung-up on any part of the crossbow, scope or accessories.

6



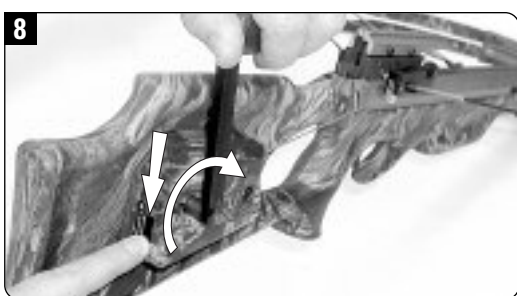
Engage the safety pawl, insert the crank, and begin cranking.

7



Notice that the string is under heavy tension once the bow is cocked.

8



9



After 2 1/2 to 3 reverse turns you can see and feel that the pressure is off the claw. You can then remove the crank.

11



TenPoint Series Crossbow: Return the claw to its storage position. **DO NOT** over-tighten! The claw resting position (claw-holder) is hardened metal, but it will break if over-tightened.

10



Once you relieve the string tension on your cocked crossbow, remove the crank so you can slide the claw forward.

12



6 Point Series Crossbow: Return the claw to its storage position. **DO NOT** over-tighten! The claw resting position (claw-holder) is hardened metal, but it will break if over-tightened.

ACUDRAW OPERATING PRECAUTIONS



WARNING !

The Operating Precautions are equally as important as the Operating Instructions. Read these to ensure that you do not injure yourself or damage your ACUdraw™.

- **Always** check your draw cord prior to using your ACUdraw™ to ensure that it is not worn or frayed. If it shows **any** wear, **DOT NOT** use the mechanism. Contact your dealer or our Customer Service Department at 330.628.9245 or email your request at www.tenpointcrossbows.com to have it replaced.
- **Never** crank the ACUdraw™ in reverse (counter-clockwise) when the claw is fully extended or in its storage position. Doing so will damage the retraction spring.
- **Never** crank the ACUdraw™ with the safety pawl disengaged. If the crank were to slip out of your hand, it would spin out wildly and could cause property damage or bodily injury.
- **Never** use your ACUdraw™ to un-cock your crossbow. It is dangerous to do so because you must disengage the safety pawl to crank counter-clockwise. The safest way to un-cock your crossbow is to fire a spare arrow equipped with a practice point into a suitable target or into rock-free ground.
- **Never** place your foot in the stirrup when cranking the ACUdraw™. While the draw cord can hold over 700 pounds of weight, it is subject to fraying and cutting. If it were to break while cocking the mechanism, the claw would shoot forward with extreme force.
- **Never** over-crank the mechanism. Stop cranking the mechanism immediately after the trigger's safety knob moves to **SAFE** (white

dot) to avoid damaging the crossbow and/or over-stressing the draw cord. **The ACUdraw™'s gear-reduction mechanism is so strong that it can lift the trigger box from its mount in the barrel and/or break the draw cord if you over-crank it.**

- If you choose to crank your ACUdraw™ with a battery-powered screwdriver or drill, select a variable speed model that operates between 4.2 and 12 volts and has a clutch or **low** torque setting. **Do not** use an excessively powerful battery-powered model or a direct current model. While the draw cord is more than adequate to handle normal use, a high-power drill can overpower the cord and the entire unit.
- Once your crossbow is cocked, **never** attempt to release the safety pawl without first applying a small amount of clockwise pressure to the crank (approximately 1/4-inch to 1/2-inch). Once you disengage the safety pawl, carefully **unwind the mechanism no more than 2 1/2 to 3 turns (the only time you may crank the mechanism in reverse)** to relieve the string tension before removing the crank and returning the claw to its storage position. **Continuing to unwind the mechanism more than 2 1/2 to 3 turns after the string tension is relieved will damage your ACUdraw™.**
- **Never** leave the claw in the trigger box's string slot after cocking the crossbow. Always return it to its storage position. If you forget to remove it and inadvertently load an arrow and fire the crossbow, the bowstring will wildly launch the claw (shoot the claw), causing potentially severe property damage and bodily injury.

ACUDRAW MAINTENANCE & CARE

- Operate your TenPoint ACUdraw™ with care. Like any quality precision instrument, it must be maintained and operated properly to remain in good and safe working condition.
- Prior to each use, examine your ACUdraw™ carefully to make certain it is in good working condition. If it requires repair and/or maintenance, contact TenPoint’s Customer Service Department at 330.628.9245 or email your request at www.tenpointcrossbows.com for a Return Authorization Number (RA) and return instructions.
- Keep your ACUdraw™ lightly oiled and dry when not in use. Avoid getting the mechanism wet. If it does get wet, remove the covers (photo 1) dry it (you may want to use a hair dryer), and use a high grade lubricant such as TenPoint’s Flight Rail/Trigger Lube™ (HCA-111) or Microlon’s Precision Oiler (HCA-11106) to keep it operating smoothly and free from rust.
- Use TenPoint’s String/Cable Wax (HCA-110) or String Wax and Conditioner (HCA-11007) to wax the draw cord. At first sign of cord wear, do not use the ACUdraw™. Contact your dealer or TenPoint’s Customer Service Department at 330.628.9245 or email your request at www.tenpointcrossbows.com to arrange to replace the cord.

CAUTION

Make sure the front of your crossbow’s arrow retention spring is not sitting so low that the ACUdraw’s string claw catches it instead of passing under it. If the spring is sitting too low, bend it up just enough for the claw to pass under it.

The ACUdraw™ is protected under U.S. Patent No’s. 6,095,128; 6,286,496 B1 & 6,913,007.

ACUdraw 50™

U.S. Patent No. 6,874,491

The ACUdraw 50™ takes the conventional crossbow rope-cocker - which reduces a crossbow’s draw weight by half - to a new, user-friendly, and hassle-free level.

The ACUdraw 50™ is mounted in the butt stock and uses an innovative retraction spring system that automatically reels the draw cords and string hooks back inside its housing after each use. To avoid any noisy or dangling parts when not in use, the handles quietly hold in place against the sides of the butt stock with powerful magnets (see photo 1).

ACUDRAW 50™ OPERATING INSTRUCTIONS

In a standing position, place the crossbow in front of you with its foot stirrup on the ground. Place one of your feet securely inside the foot stirrup and pull out both cord handles far enough so that you can grasp and hold the string hooks between your thumbs and index fingers with the open end of the hooks facing your thumbs (see photo 2). Both of the handles need to be pulled out at the same time and length to keep the unit from jamming up.

Reach down and position the hooks in place on each side of the barrel. Attach the hooks from the underside of the bow string. As you grab the handles, hold the hooks flush against the sides of the barrel with your index fingers to ensure that you will draw the bowstring straight (see photo 3).

Simultaneously stand and pull up on the draw handles until the crossbow is fully cocked (see photo 4).

With the handles in your hands, reach down and remove the hooks from the bow string with your index fingers and thumbs. Retracting both sides at the same time, turn the open end of the hooks to face out as you allow the retraction spring to reel the cord and hooks back inside the housing (see photo 5).

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

With the handle magnets facing one another, place the handles in their storage position on the sides of the butt stock (the magnets will attract to the T-Handle Stability Pads that are attached to the stock).



ACUdraw-50™ Position 1.

CAUTION



ACUdraw-50™ Position 3.



ACUdraw-50™ Position 4.

ACUDRAW 50™ MAINTENANCE & CARE

The ACUdraw 50™ should be relatively maintenance free. However, you should regularly check to make certain your draw cords are not frayed. If the system does not operate trouble free, call Customer Service at (330) 628-9245 or email your request at www.tenpointcrossbows.com to explain the difficulty.

The ACUdraw 50™ is protected under U.S. Patent Number 6,874,491.

NOTES

Model Purchased: _____

Serial Number: _____

Date Purchased: _____

Purchased From: _____

You should not return this product to your retailer for credit if you have a warranty claim. See warranty claim information/directions on the back cover of this manual.

TenPoint Crossbow Technologies™

1325 Waterloo Road, Suffield, OH 44260 | 330.628.9245 | www.tenpointcrossbows.com

CONGRATULATIONS ON YOUR RECENT TENPOINT CROSSBOW PURCHASE!

As part of our TenPoint community, please enjoy the many benefits available to our customers through our website www.tenpointcrossbows.com. These incredible advantages include:



ACCESSORIES

Find everything you'll need and more to upgrade or perfectly maintain the condition of your TenPoint crossbow. From flight rail oil wipes and crossbow maintenance kits to traveling cases and even hats, we make ordering the accessories you need easy with the option to purchase online or through a local dealer.

WHAT'S NEW

Check out our What's New section for all the latest models, technology and accessories available from TenPoint. Or, take advantage of the B.Y.O.B. (Build Your Own Bow) Shop. It's part of our philosophy at TenPoint to continually provide our customers with the best products and technology available in the industry.

FAQs

Browse through our list of frequently asked questions for answers to your quandaries or visit the crossbow regulation section which provides a list of both U.S. regulations by state or Canadian regulations by Province.

WARRANTY

To register your new bow, fill out a Return Authorization form or download an additional Owner's Manual, visit the warranty section of our website.

ONLINE COMMUNITY

At TenPoint Crossbows we have a large online community, which consists of bow hunting enthusiasts from around the world. Visit our Hunter's Den section of the website to post and share your photos and stories in our Trophy Room. Do you have questions about crossbow hunting, TenPoint products or other related issues? Check out the Talkin' TenPoint section and find the answers you're looking for from TenPoint staff and other hunters. For other hunting related interests, we supply a list of industry links for all your hunting and outdoor needs. And just for fun, TenPoint offers a variety of cool computer screen savers.

CONTACT US

For any other questions regarding your TenPoint Crossbow purchase, you'll find the contact information you'll need in our Contact Us section. We also provide online forms for general questions or return authorization for your convenience. To stay on top of the latest products and accessories available from TenPoint, you can request a catalog at any time.



LIMITED LIFETIME OPERATIONAL WARRANTY

Subject to the terms and conditions outlined below, TenPoint Crossbow Technologies® guarantees its crossbows against defects in materials and workmanship for the lifetime of the **ORIGINAL OWNER**.

1. The purchaser must activate the warranty by completing and mailing the warranty card included with the crossbow within 30 days of the purchase date. **TenPoint Crossbow Technologies reserves the right to charge for warranty repairs if the warranty has not been activated.**
2. Our obligation is limited to the repair or replacement of the defective part or parts once the warranty is activated. Parts determined to be unsafe will not be returned with the repaired crossbow.
3. Any defect must adversely affect the operation of the crossbow.
4. The warranty **excludes** strings and cables and damage resulting from abuse, neglect, and rust.
5. The bow limbs are guaranteed against defects in workmanship and material for five years from the date of purchase.
6. TenPoint Crossbow Technologies scopes are guaranteed against defects in workmanship and material for five years from the date of purchase.
7. TenPoint Crossbow Technologies reserves the right to request proof of purchase in lieu of a completed warranty card.
8. This warranty is void if damage is caused by dry-firing or by using underweight arrows (lighter than recommended in the Owner's Manual).
9. This warranty is void if our Owner's Manual instructions are not followed, or if the crossbow or any of its parts or accessories have been altered from their original state.
10. In states where permitted, we assume no liability for incidental or consequential damage or for incidental expenses.
11. **This warranty is void for any crossbow rented or loaned to others by a retailer, wholesaler, shooting range operator, or other commercial business organization, whether or not a fee is charged for its use.**

To make a claim under this warranty, call our **Customer Service Department at 330.628.9245** for a **Return Authorization Number** or **email your request at: www.tenpointcrossbows.com**. TenPoint Crossbow Technologies will not accept returned merchandise without a **Return Authorization Number** displayed on the outside of the shipping container.

Insure your shipment and send it via U.S. Postal Service or UPS, prepaid.

Include your name, address, daytime phone number, Return Authorization Number, and a brief description of the claim inside the package.

ACUdraw™ & ACUdraw 50™ Limited Five-Year Operational Warranty

Subject to the terms and conditions outlined below, TenPoint Crossbow Technologies® guarantees its ACUdraw™ and ACUdraw 50™ Units against defects in materials and workmanship for a period of five years (5-years) from the date of their original purchase.

1. The purchaser must provide proof of purchase, including purchase date.
2. Our obligation is limited to the repair or replacement of the defective part or parts.
3. Any defect must adversely affect the operation of the unit.
4. The warranty excludes draw cords, power springs and damage due to abuse or neglect.
5. This warranty is void if damage is caused by firing the crossbow with the ACUdraw string claw positioned in the trigger's string slot or if the ACUdraw 50 hooks were still positioned on the string when fired. The warranty is also void if our Owner's Manual Instructions are not followed, or if the ACUdraw, ACUdraw 50 or any of their parts have been altered from their original manufactured state.
6. In states where permitted, we assume no liability for incidental or consequential damage or for incidental expenses.
7. **This warranty is void for any ACUdraw™ or ACUdraw 50™ installed on a crossbow that is rented or loaned to others by a retailer, wholesaler, shooting range operator, or other commercial organization, whether or not a fee is charged for its use.**

To make a claim under this warranty, call our **Customer Service Department at 330.628.9245** for a **Return Authorization Number** or **email your request at: www.tenpointcrossbows.com**. TenPoint Crossbow Technologies will not accept returned merchandise without a **Return Authorization Number** displayed on the outside of the shipping container.

Insure your shipment and send it via U.S. Postal Service or UPS, prepaid.

Include your name, address, daytime phone number, Return Authorization Number, and a brief description of the claim inside the package.

Important Note: If your warranty card is missing, or if you have any questions about the contents of this manual, contact our **Customer Service Department immediately at 330.628.9245. or email your request at www.tenpointcrossbows.com**.

Note: The products discussed in this manual are covered under the following TenPoint Crossbow Technologies® patents and any patents pending:
U.S. Patent No's. 5,553,596; 5,598,829; 5,649,520; 5,987,724; 6,095,128; 6,286,496 B1; 6,874,491; 6,913,007; 7,281,534.