

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 reserves the right to request proof of purchase in lieu of a completed warranty card.
7. This warranty is void if damage is caused by dry-firing or by using underweight arrows (lighter than recommended in the Owner's Manual).
8. 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.
9. In states where permitted, we assume no liability for incidental or consequential damage or for incidental expenses.

10. This warranty is void for any crossbow rented or loaned to others by a retailer, wholesaler, or 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**. 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, 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 ACUdraw50™ 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 an ACUdraw equipped crossbow with the string claw positioned in the trigger's string slot, if our owner's manual instructions are not followed, or if either device or any of its 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, or 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**. 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, 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**.

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.

TENPOINT CROSSBOW TECHNOLOGIES[®]

OWNER'S INSTRUCTION MANUAL

This Manual Covers:

TenPoint Series Crossbows;

PRO ELITE™

ELITE™

PRO FUSION™

HYBRID LITE™

TITAN TL-4™

6 Point Series Crossbows;

PRO SLIDER™

SLIDER™

Cocking Devices;

ACUdraw™

ACUdraw 50™

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



...the mark of perfection™

TenPoint Crossbow Technologies[®]

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ACUdraw & ACUdraw 50 WarrantyBack Cover

Customer Service Department

330.628.9245

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

WARNING: (READ FIRST)

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.

- **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** 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.
- **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.
- When target shooting, set up in a safe, open area with a proper target and backstop.
- **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.
- **Make sure** the trigger's safety is in the **FIRE (red dot)** position before cocking your crossbow (photos 5 & 8). 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 (photos 6 & 9). 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 (photos 7 & 10).
- **Do not** fire your crossbow if branches or other obstructions block its limbs' release path. Doing so can be extremely dangerous.
- **Be certain** of your intended target before shooting. **Watch out** for hunters in camouflage clothing.
- 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.**
- Carefully examine your crossbow and arrows for worn, loose, damaged, or missing parts every time you use them.
- **Do not** use your crossbow if it is not in top working condition. Follow the maintenance and operating instructions in this manual.
- 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.**
- **Do not** alter any of your crossbow components or accessories. Doing so will **void your warranty** and may be **dangerous.**
- **Do not** attempt to adjust your crossbow's draw weight or to change its cables, limbs, or strings 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 415 grains may damage your crossbow limbs or cause injury.
- 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** transport or store your crossbow while it is cocked or loaded.
- Make sure broadheads are safely covered by using a proper quiver.
- **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 when hunting from a treestand.

WARNING: (READ FIRST)



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



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



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

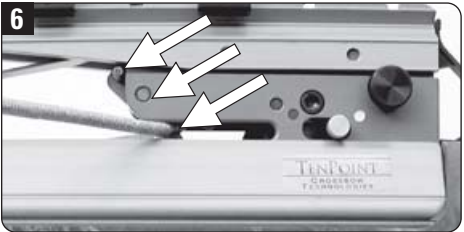


Proper way to hold the fore-grip. **Note** the GripSafety™ button located on the side of the fore-grip. Refer to page 15 for details.

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.

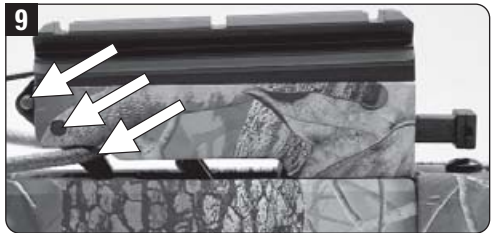


When you cock your crossbow correctly, the safety will automatically move to the rear, **SAFE (white dot)** position, and the string latch will engage the string.

RollerTouch™ and DropLatch™ 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.

TENPOINT SERIES FEATURES

- 1

OTT (over-the-top) limb pocket and Zytel "lift and separate" limb suspension system. Reduces noise and vibration levels by more than 50%.
- 2

Patented VIBRA-CUSH™ 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 and limb bolts.
- 4

Limb bolt locking setscrews.
- 5

ST™ Quad Limb System. The best crossbow limbs on the market. Available only on the Pro Elite, Elite and Hybrid Lite. 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.
Note: The Pro Fusion features our **NEW** HL™ high performance limbs and the Titan TL-4 is equipped with our TL-4 advanced quad-limb system.
- 6

Power Limb-Tip Caps.™ Provide additional limb-tip strength and improved performance.
- 7

Precision CNC Machined aluminum wheels.
- 8

Synthetic cable yokes for the ultimate in tunability and stability.
- 9

ACRA-ANGLE™ barrel. Extruded aluminum design features angled sides to prevent finger injury and insure precision loading. TenPoint's Elite series barrels are hardcoated to a 65 Rockwell finish and Teflon™ impregnated, reducing wear and string friction while increasing arrow speed. The Hybrid Lite and Titan TL-4 models are hardcoated and black anodized.
Note: The Pro Fusion features our **NEW** molded combination stock and ACRA-ANGLE barrel made of Verton.®
- 10

ACRA-ARROW™ retention spring. Extra long to enhance arrow flight. Tip is coated to reduce noise and vibration.
- 11

Patented DFI™ System. Dry-Fire-Inhibitor prevents an accidental dry-fire when no arrow is loaded.
- 12

MIM (metal injection molded) CLAWOVER™ String Catch for superior accuracy.
Note: The Hybrid Lite, Pro Fusion and Titan TL-4 use a conventional stamped string catch that releases from below the string.
- 13

Quieter MIM (metal injection molded) ambidextrous, automatic safety. Moves from "FIRE" (red dot) to "SAFE" (white dot) when you cock the crossbow.
Note: The Hybrid Lite, Pro Fusion and Titan TL-4 safety is also ambidextrous and is controlled by a unique single plunger located at the rear of the trigger housing.
- 14

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.
Note: The Hybrid Lite and Pro Fusion models feature our **NEW (patent pending)** RollerTouch™ trigger while the Titan TL-4 features a conventional DropLatch™ with MIM trigger finger.

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- 15

FST IV 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.
- 16

GripSafety™ (**patent pending**). A 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 the GripSafety.
Note: The GripSafety is only available on the Pro Elite and Elite.
- 17

Patented ACUdraw 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%.
- 18

Multi-Dot Illuminated Red Dot Scope. One of two options on our Pro Elite, and standard on the Elite package. When these models are ordered, they do not include a peep and pin sighting system. You must purchase a peep and pin conversion kit to use pin sights. TenPoint's 3x Pro-View Scope, 3x Multi-Line Scope, or our 40mm Multi-Dot Scope are also available as an accessory for any model.
- 19

A machined aluminum 7/8" Adjustable Dovetail Sight Mount, locked in position with TenPoint's Dovetail Fixed Position Accessory, is standard on the Pro Elite. The Elite includes a Fixed 7/8" Dovetail, while the Hybrid Lite, Pro Fusion and Titan TL-4 have a fixed sight bridge that will accept the 7/8" Fixed Dovetails.
- 20

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.
- 21

Sling Swivel Studs are standard equipment on all models.
- 22

TenPoint's 2/3 Arrow Quiver.
- 23

NAP™ ThunderBlox™ vibration and sound dampeners, part of TenPoint's Progressive Dampening Package, dramatically reduce the level and duration of noise and vibration. The ThunderBlox™ come standard on the Pro Elite and Elite packages or is available as an accessory (part of TenPoint's Progressive Dampening Package) for any model, including solid-limb models.
- 24

Wedgie™ Retention Spring Dampener. Also a part of TenPoint's Progressive Dampening Package, the Wedgie almost totally eliminates arrow retention spring vibration. The Wedgie comes standard on the Pro Elite and Elite packages or is available as an accessory (part of the Progressive Dampening Package) for any model.
- 25

TenPoint 22/64th Pro Elite™ 20-inch carbon fiber arrow shaft.

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



6 POINT SERIES FEATURES

- 1 Solid extruded and machined aluminum foot stirrup with added foot stability.
- 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 **New** HL™ Quad-Limb System. Specifically designed for optimum performance on the 175-pound draw weight crossbows. Provides consistently superior performance and durability.
Note: The Slider is equipped with our TL-4™ high performance, advanced quad-limb system.
- 5 Synthetic cable yokes for the ultimate in tunability and stability.
- 6 A Weaver-style machined aluminum 7/8" Fixed Dovetail Sight Mount is standard on the Pro Slider. The Slider has a fixed sight bridge that will accept the 7/8" Fixed Dovetails.

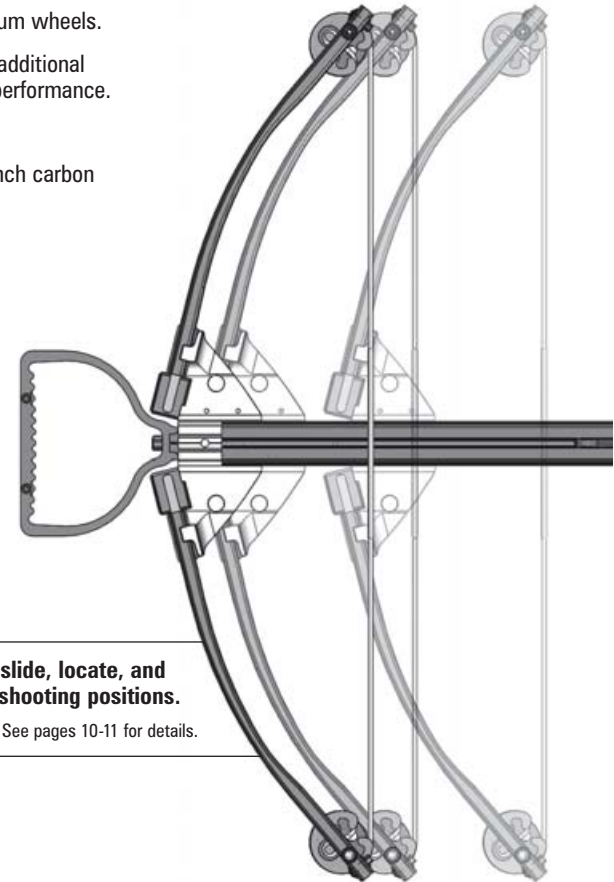
- 7 A 3x Multi-Line Scope is standard on the Pro Slider. When the Slider is ordered it will include a peep and pin sighting system.
Note: If you wish to add a scope to a Slider, you must purchase the Fixed 7/8" Dovetail Scope Mount.
- 8 Ambidextrous Automatic Safety, controlled by a unique single plunger located at the rear of the trigger housing. The 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 **Patented** ACUdraw 50 integrated Cocking Unit, a retractable rope-cocking device that reduces the draw weight by 50%. Also available as an optional cocking device, the **patented** ACUdraw is operated by a hand crank – converting the crossbow's draw weight to a mere 5 lbs. and assures precision loading every time.
- 12 **Patent Pending** RollerTouch™ trigger featuring a double-roller system to reduce friction between it and the string latch. Significantly lowers the trigger pull into the 5-pound range.
- 13 **Patented** DFI™ System. Dry-Fire-Inhibitor prevents an accidental dry-fire when no arrow is loaded.

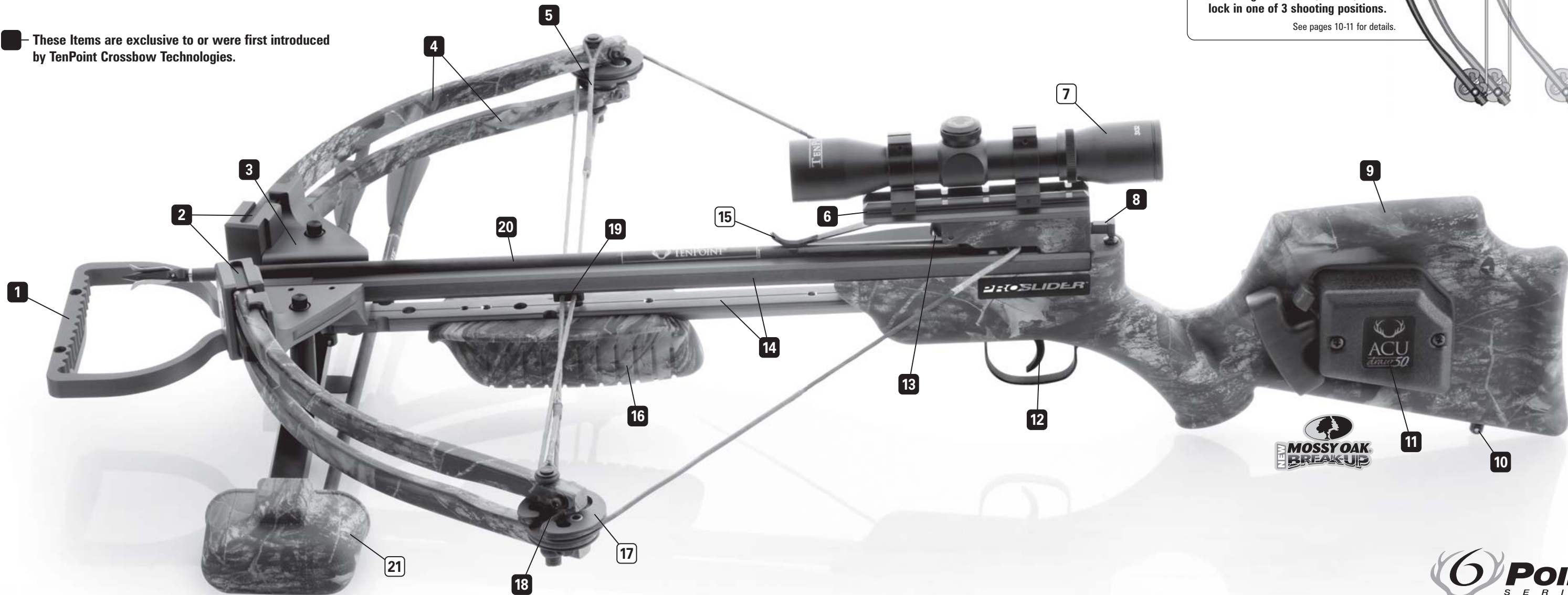
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- 14 UL TriLoc extruded and machined aluminum Multi-Position Barrel Assembly. Securely locks the bow assembly into a short, medium or long position between the innovative upper and lower extruded and machined aluminum barrel assembly. Features angled sides to prevent finger injury and insure 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.
- 18 Power Limb-Tip Caps™ Provide additional limb-tip strength and improved performance.
- 19 PBT Performance Cable Saver.
- 20 TenPoint 22/64th Pro Elite™ 20-inch carbon fiber arrow shaft.
- 21 TenPoint's 2/3 Arrow Quiver.



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



TENPOINT SERIES CROSSBOW LAYOUT

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 **front sight** (if provided), and you are ready to shoot. Once assembled correctly, your crossbow is pre-sighted for 20-yards.

Note: The PRO ELITE and ELITE (package only) 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.



11

TenPoint Series Crossbow Layout.



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

Lay out the contents of your TenPoint Series crossbow box in front of you. Be certain the box contains all of the following items before beginning assembly (photo 11):

- One (1) complete stock assembly
- One (1) complete bow assembly
- One (1) cable saver
- 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, a rail lube sample; and a front sight assembly if your bow is a TITAN TL-4 without a scope.

Note: Most TenPoint 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. Conversions to a peep and pin sight system are available for those who prefer that type of configuration. See page 14.



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 **stock assembly**, install the **foot stirrup**, **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 (in the long position).



12

6 Point Series Crossbow Layout.



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 12):

- One (1) complete stock assembly with fore-grip (fore-grip located in short position)
- One (1) complete bow assembly
- One (1) cable saver
- 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, 4 bow assembly mounting bolts (2 large and 2 small), allen wrenches, a rail lube sample; and a front sight assembly if your bow is a Slider.

Note: The Pro Slider does not come standard with a peep and pin sight system. It comes with a 7/8-inch Weaver style scope mount designed for use with a scope.



ASSEMBLY STEPS

1. FOR ALL TENPOINT AND 6 POINT SERIES MODELS:

Do not attach the bow assembly to the stock assembly without the cable saver.

- 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 13), 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) 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).

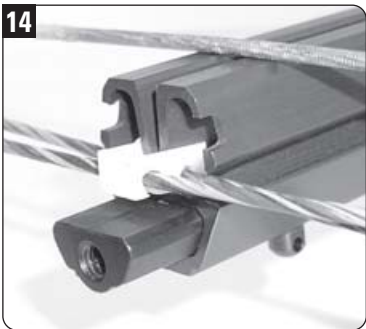


Make certain your cables go in the correct slots in your cable saver.

2. (TENPOINT SERIES CROSSBOWS):

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 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 14).
- Insure that the pre-installed VIBRA-CUSH is in place with its cutout side facing the barrel (photo 15).
- 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 16).
- After you make sure the main assembly bolt’s locking setscrew is loosened, insert the main assembly bolt and tighten it securely. Do not over-tighten. (photo 17).
- Insert the foot stirrup into the two receiving holes located at the front of the riser. Make sure the “valley” in the stirrup’s foot pad points down so that it does not block the 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 18).



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 (TenPoint Series only).



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



1. Main Assembly Bolt
2. Main Assembly Bolt's Locking Setscrew
3. Foot Stirrup Locking Setscrews



Once the foot stirrup is in place, tighten all three locking setscrews.

2. (6 POINT SERIES CROSSBOWS):

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 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 19).
- Slide the bow assembly (riser) between the top and bottom of the barrel until it reaches the desired position (short, medium or long). 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 20, 21 & 22).
- 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.
- Insert the two larger bow assembly bolts through the holes in the bottom of the UL TriLoc barrel that align with the riser (photo 23).
- 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 24).
- 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 25).

- 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 26 & 27 on next page).

- Attach the foot stirrup directly to the bottom section of the UL TriLoc barrel using the main assembly bolt (photo 28 on next page). Make sure the “valley” in the stirrups foot-pad points down so that it does not block the arrow’s flight path.

Note: If provided, mount the quiver bracket between the main assembly bolt and the foot stirrup.

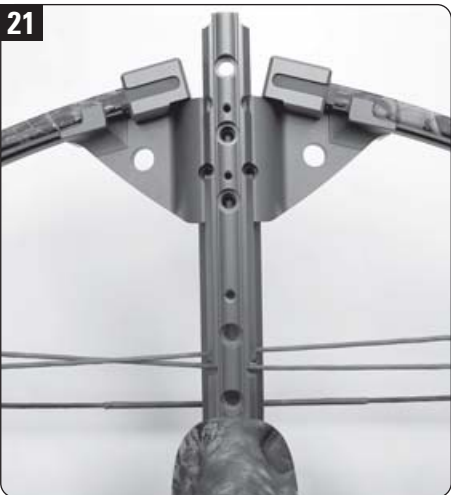


The cable saver's concave groove (“dish”) should mate with the underside of the barrel's arrow flight groove.

Three Bow Mounting Positions:



Bow assembly in “short” position.



Bow assembly in “medium” position.



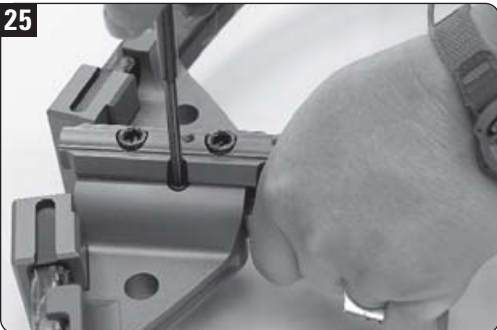
Bow assembly in “long” position.



Insert the two larger bow assembly bolts in the bottom of the UL TriLoc barrel.



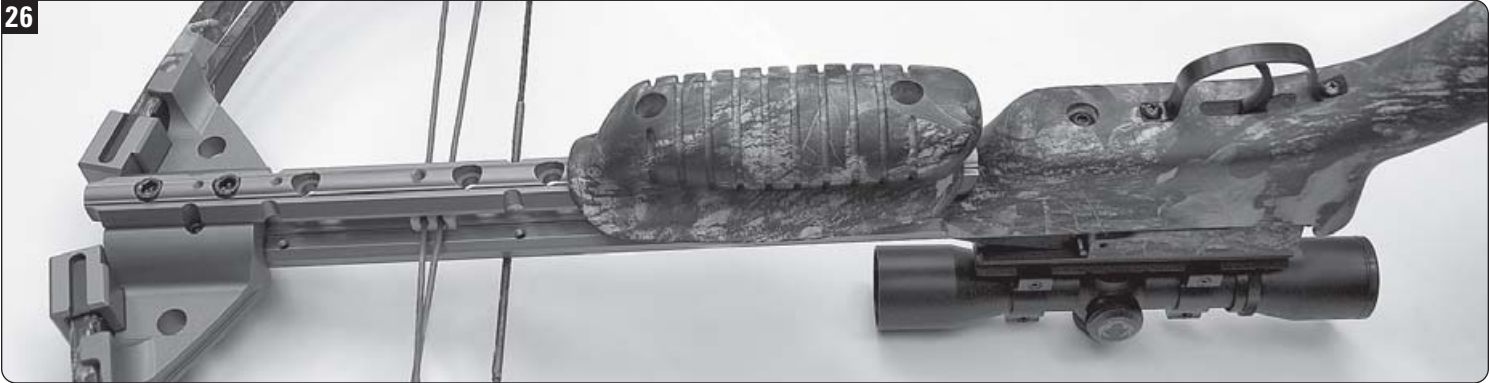
Squeeze the top and bottom of the barrel with your free hand when tightening the two large bow assembly bolts.



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

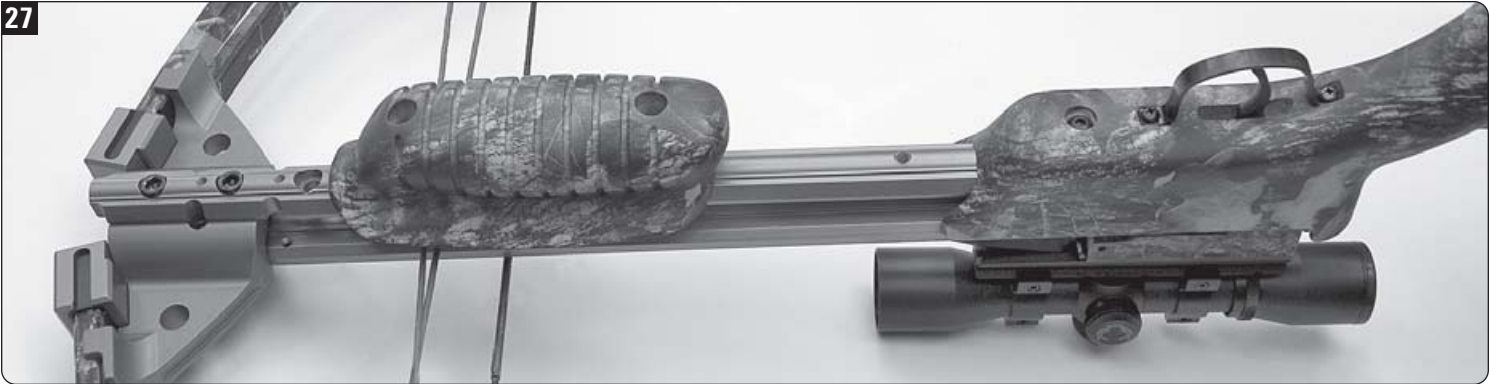
ASSEMBLY STEPS (cont.)

26



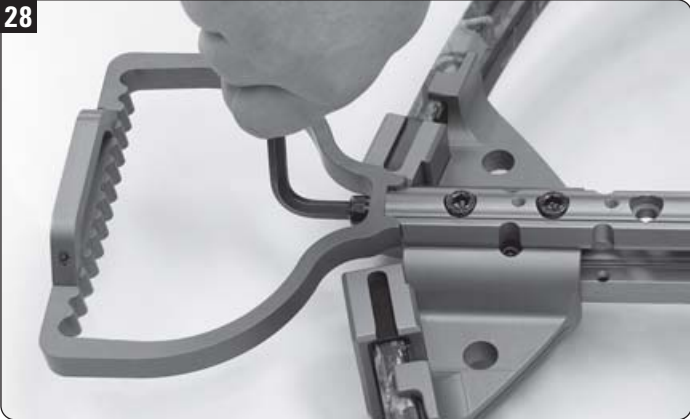
Fore-grip in "short" position.

27



Fore-grip in "long" position.

28



Attach the foot stirrup directly to the bottom section of the UL TriLoc barrel.

FOR ALL TENPOINT AND 6 POINT SERIES MODELS:

3. If your crossbow is equipped with a peep and pin sighting system, mount the front sight bracket using the screws provided. Notice that screw holes are provided so that you can mount it on the right or left-hand side of the riser on Titan TL-4 models (the Slider's front sight bracket mounts only on the left side) (photo 29).
4. You are now ready to test-fire your crossbow and fine-tune your sights (See Cocking, Loading, and Sighting Your Crossbow) Pages 13-14.

29



You can mount your front sight on either side of the riser for Titan TL-4's, or on the left side on Slider models.

MAINTENANCE & CARE

30



Lubricate your flight rail approximately every 75 to 100 shots.

31



Lubricate the PowerTouch trigger through the safety slide window.

32



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

33



Lubricate the RollerTouch or DropLatch safety plunger shaft.

34



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

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 string and cables moist and extend their life with a high quality string wax such as TenPoint's String and Cable Wax (HCA-110). **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 three to four years 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) 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 should be adequate (photo 30).

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

Also regularly apply a drop of lube 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) before you apply trigger lube. *** 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.**

- **PowerTouch™ trigger lubrication:**

Apply a drop of TenPoint Flight Groove / Trigger Lube (HCA-111) through the PowerTouch Trigger's safety knob window while it is in both the **SAFE (white dot)** and **FIRE (red dot)** positions (photo 31).

Apply a drop just inside the closed end of the trigger's string slot to lubricate the safety slide and string latch (photo 32).

- **RollerTouch™ and DropLatch™ trigger lubrication:**

Apply a drop of lube to the safety plunger shaft and allow it to work its way into the safety mechanism (photo 33).

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 TenPoint Series crossbows), be certain to loosen their respective locking set screws before tightening or loosening them (photo 34).

6. Only TenPoint Crossbow Technologies or an authorized repair facility may repair the PowerTouch, RollerTouch or DropLatch 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 for a Return Authorization Number** and shipping and payment instructions.

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:

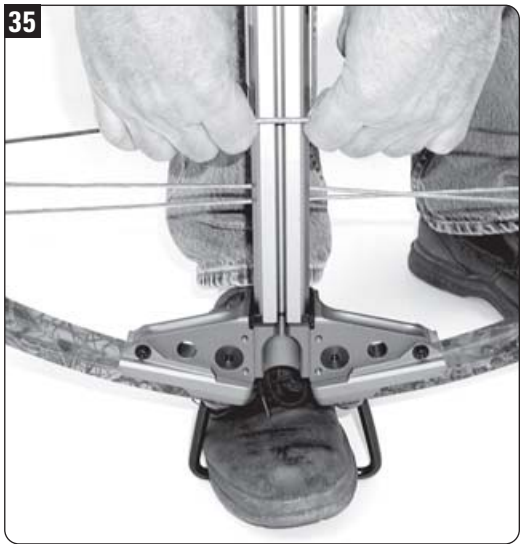
330.628.9245
Unauthorized repairs may void your warranty.

COCKING & LOADING

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

1. Before cocking your crossbow, the safety knob or safety plunger 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 5-10).
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.
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 insure 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 35).
4. Using the sides of the barrel as your guide - and with a secure grip - pull the string toward the trigger assembly until you hear and feel 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 (photo 36) DFI (Dry-Fire-Inhibitor), 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 photos 6 & 9). 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 feel and hear the string latch and the safety engage as the safety knob or plunger 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.**



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).

UNLOADING

You may leave your crossbow cocked or loaded 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.

SIGHTING YOUR CROSSBOW

Most TenPoint Crossbows are designed to be used with a scope and come with either an adjustable or fixed 7/8-inch Weaver style dovetail scope mount. Regardless of their sighting systems, 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 the flight path of the string. Bench shooting invites misplacement of the fore-grip hand** (See photos on page 1). 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 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 37).
- 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 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. Scopes:

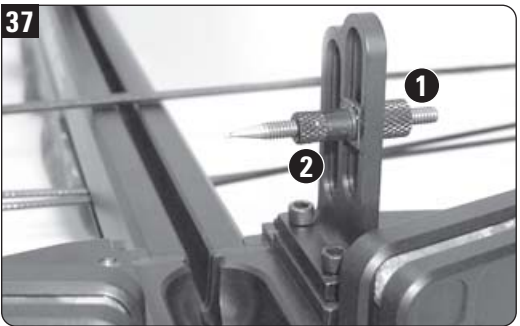
All scopes contain windage and elevation adjustment dials. Remove their protective caps to adjust them. Their dials will indicate the direction in which to turn them to make a particular correction.

- Make final sight adjustments on the multi-dot and multi-line scopes using the middle dot or line at **30 yards**. 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.
- **Scope battery:** A lithium 2032 size battery is used in the illuminated scopes. 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 battery (lithium 2032) and screw battery cover back on, clockwise, to re-install.

3. Rear Peep Sight:

On the PowerTouch Fixed Mount, RollerTouch, and DropLatch trigger models, the peep sight mounts in a fixed position directly to the top of the trigger box (scope mount must be removed first).

Note: The Pro Elite will require a Peep & Pin Conversion Kit (HCA-071).



1. Elevation lock nut 2. Windage lock nut

GRIPSAFETY™ (ON PRO ELITE & ELITE MODELS ONLY)

TenPoint's two top-of-the-line crossbows, PRO ELITE and ELITE are equipped with the innovative GripSafety (patent pending). The GripSafety is a secondary safety button positioned on the side of the crossbow's fore-grip (photo 38). 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 39). 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 for a Return Authorization Number to return the crossbow for conversion.

Customer Service Department **330.628.9245**

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

CONVERTING A FIXED POSITION ACCESSORY SCOPE MOUNT TO AN ADJUSTABLE MOUNT (ON PRO ELITE MODEL ONLY)

Some Pro Elite crossbow owners prefer an adjustable scope mount to the fixed position system (photo 40). The scope mount that comes standard on this crossbow can be converted into an adjustable system by purchasing and installing a RangeMaster™ Scope Adjustment Mechanism (HCA-086).



RangeMaster® Scope Adjustment Mechanism.

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 41).

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 TITAN TL-4 or Slider 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 42). If you wish to add a scope later you must purchase the Fixed 7/8-Inch Dovetail Scope Mount.



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



TITAN TL-4 or Slider 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 (access the safety tension screw through the top of the sight bridge on RollerTouch or DropLatch trigger boxes). Locate the adjustment screw and turn it clockwise to increase the tension or counter-clockwise to ease the tension (photo 43).



Access the safety tension screw through the top of the dovetail on PowerTouch trigger boxes. Access the safety tension screw through the top of the sight bridge on RollerTouch or DropLatch trigger boxes.

ROLLERTOUCH™ & DROPLATCH™ TRIGGERS

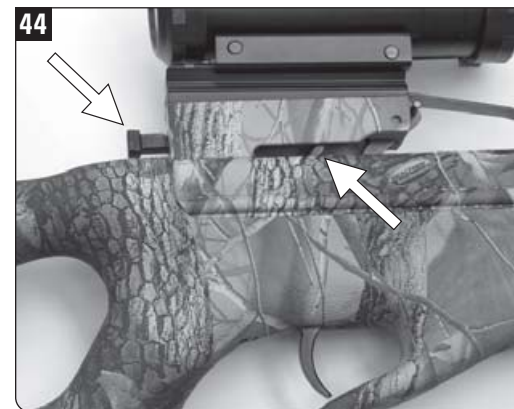
The RollerTouch and DropLatch triggers differ from the patented PowerTouch trigger used in our top-of-the line crossbow models.

First, they contain an ambidextrous center-plunger safety mechanism that extends from the rear of the trigger box when the trigger is in the **SAFE** position (photo 44). When you are ready to shoot your RollerTouch or DropLatch trigger, push the plunger forward to deactivate the safety. Like all models, the safety must be in the **FIRE** position to successfully cock the bow.

Second, the RollerTouch and DropLatch trigger's string catch is a "down latch", meaning that it drops below the surface of the barrel to release the string (the PowerTouch trigger's string catch lifts up to release the string).

While both the RollerTouch and DropLatch trigger pull is smooth and crisp, and superior to other manufacturers' "down latch" triggers, it is somewhat heavier than the 3 1/2 pound pull of the PowerTouch trigger.

You should maintain the RollerTouch and DropLatch triggers in the same manner as the PowerTouch trigger. That is, keep it clean, dry and lubricated.



The RollerTouch and DropLatch triggers have an ambidextrous plunger safety and a "drop" or "down" latch bowstring catch.

USE THE CORRECT ARROW

Do not void your warranty.

TenPoint Crossbow Technologies recommends using finished arrows weighing at least 415 grains on all of our crossbows. Using less than the recommended weight combinations can produce a dry-fire effect with your crossbow.

Aluminum Arrows

When shooting your crossbow, use our 2219 / XX75 aluminum 20-inch, TenPoint Crossbow arrows equipped with a bluntnock (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 in at 415 grains with a 100 grain field point or broadhead (440 grains with a 125 grain point). At those weights, they perform comparably to TenPoint's 2219 aluminum arrows.

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

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.

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	HCA-117	13	HCA-126	Steel (no twists)
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	HCA-115 or HCA-115C	13	HCA-124 or HCA-124C	13
Pro Elite, Elite, Elite QX-4 & QX-4	HCA-115 or HCA-115C	13	HCA-124 or HCA-124C	13

* 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.

STRING AND CABLE SPECIFICATIONS

Part Number	Length	Materials
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-122	26.875	Fast Flight -32 strands
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

Note: When changing string & cables, do not mix Fast Flight with D75 material – Fast Flight string must be used with Fast Flight cables and D75 string (camo) must be used with D75 cables (camo).

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.

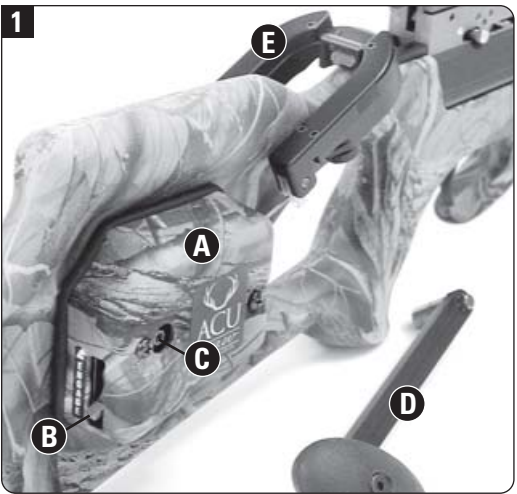
Compactly built into the crossbow's butt stock, it does not interfere with shooting. In fact, most ACUdraw owners say it enhances shooting accuracy by affording a comfortable and stable platform to position the side of the shooter's chin against.

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

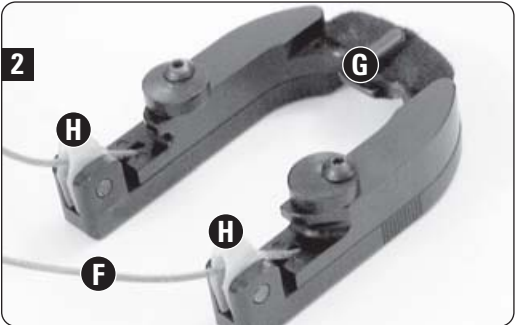
WARNINGS AT A GLANCE

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.

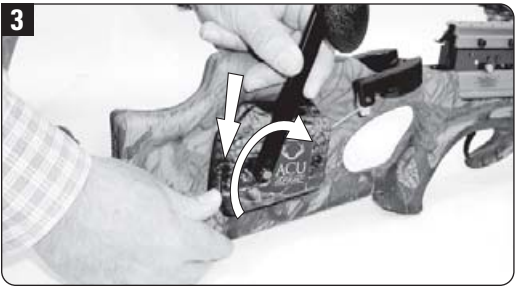
- **Don't** use your ACUdraw to uncock your crossbow. Carry a practice arrow that you can shoot into a target or into the ground.
- **Don't** operate your ACUdraw if your draw cord is frayed or worn.
- **Don't** crank your ACUdraw without first engaging it's safety lever.
- **Don't** crank your ACUdraw 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) 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 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 cords do 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, insuring 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 or plunger 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 23 turns to cock the crossbow. You will know the crossbow is cocked when you both see the trigger safety move to the **SAFE** (white dot) position and when you hear the string latch engage the bow string (a double-clicking sound). You **must** stop cranking at this time.

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.

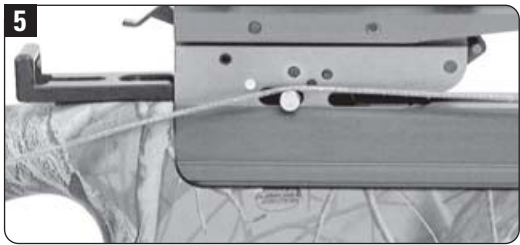
7. To relieve the tension, place a small amount of additional clockwise pressure on the crank (approximately 1/4 inch to 1/2 inch), and disengage the safety pawl (photo 8). Trying to disengage the safety pawl without first relieving the pressure can damage the mechanism. Hold the crank securely as you 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, and return it to its storage position (photo 10). 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 claw resting place.** 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.



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



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



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



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.



Once you relieve the string tension on your cocked crossbow and remove the crank, you can slide the claw forward and return it to its storage position. **DO NOT over-tighten!**

ACUDRAW OPERATING PRECAUTIONS

WARNING !

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

- **Always** check your draw cord prior to using your ACUdraw to insure 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 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 you 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 soft 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 or plunger 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, 110 volt 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 for a Return Authorization Number (RA) and return instructions.
- Keep your ACUdraw 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) to keep it operating smoothly and free from rust.

- Use TenPoint's String/Cable Wax (HCA-110) 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 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 insure 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).

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 each other through the stock).

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 to explain the difficulty.

WARRANTY

The ACUdraw 50 is covered under the same warranty terms as the ACUdraw. See the back page of your crossbow owner's manual for the warranties.



ACUdraw-50 Position 1.



ACUdraw-50 Position 2.



ACUdraw-50 Position 3.



ACUdraw-50 Position 4.

NOTES

Model Purchased: _____

Serial Number: _____

Date Purchased: _____

Purchased From: _____

TenPoint Crossbow Technologies[®]

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