

...the mark of perfection™

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

This Manual Covers the:

**ELITE X-2™**

**STEALTH X-2™**

**TURBO X-2™**

**TITAN II™**

**TITAN SE™**

**ACUdraw™**

**ACUdraw 50™**



TenPoint Crossbow Technologies® 1325 Waterloo Road Suffield, OH 44260-9608

330.628.9245

**Your Owner's Instruction Manual**

[www.tenpointcrossbows.com](http://www.tenpointcrossbows.com)

2003

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. 5,987,724; 5,649,520; 5,598,829; 5,553,596; 6,095,128; 6,286,496 B1.

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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 foregrip 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.

Customer Service Department

330.628.9245

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



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



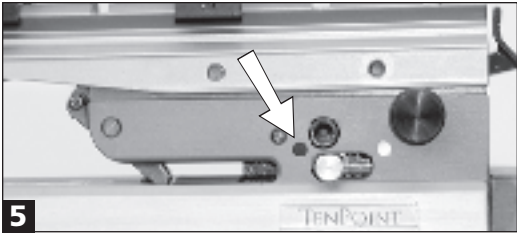
With your foregrip hand positioned as shown above, you will severely injure your fingers when you fire your crossbow.



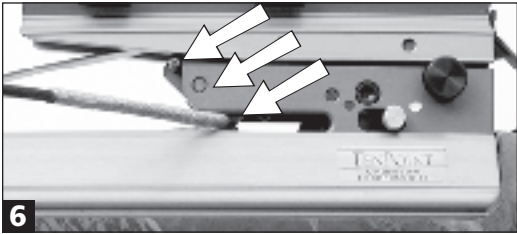
With your foregrip hand positioned near the crossbow cables as shown above, you will severely injure your fingers if you fire your crossbow.



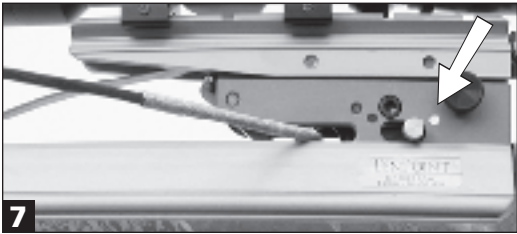
Proper way to hold the foregrip. Note the NEW GripSafety™ button located on the side of the foregrip. Refer to page (8) for details.



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



The bowstring will be held by the DFI™ and only appear to be cocked - if you try to load it while the safety is in the SAFE (white dot) position.



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

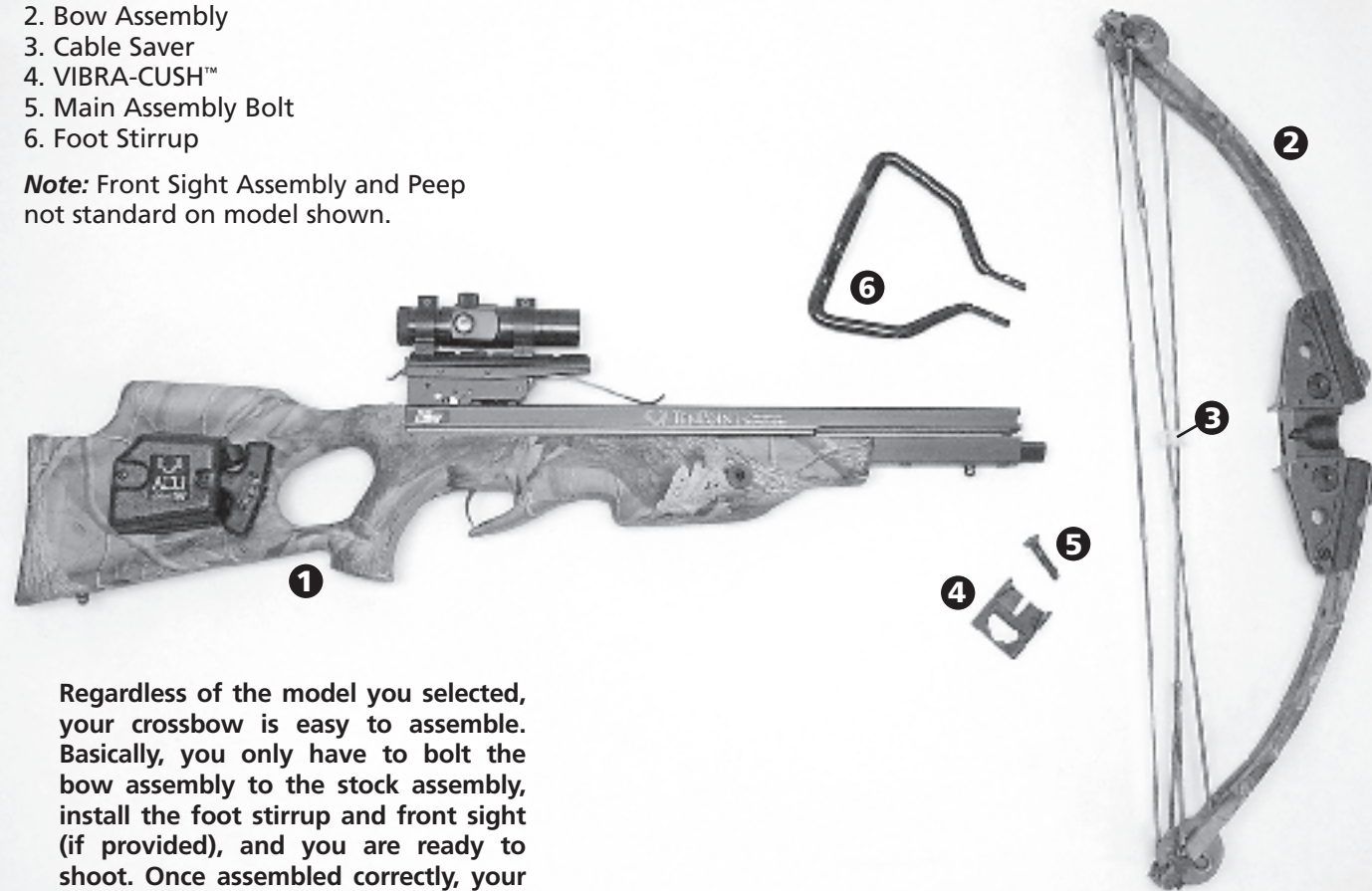
- Make sure the trigger's safety is in the FIRE (red dot) position before cocking your crossbow (photo 5). Neither the string latch nor the safety will engage if you attempt to cock your crossbow with the safety in the SAFE (white dot) position. The bow will appear to be cocked while the string is held 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).
- 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 of or the 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 professional perform these tasks.
- 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 (weighing less than 415 grains), that may damage your crossbow 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.



## ASSEMBLY

1. Stock Assembly
2. Bow Assembly
3. Cable Saver
4. VIBRA-CUSH™
5. Main Assembly Bolt
6. Foot Stirrup

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



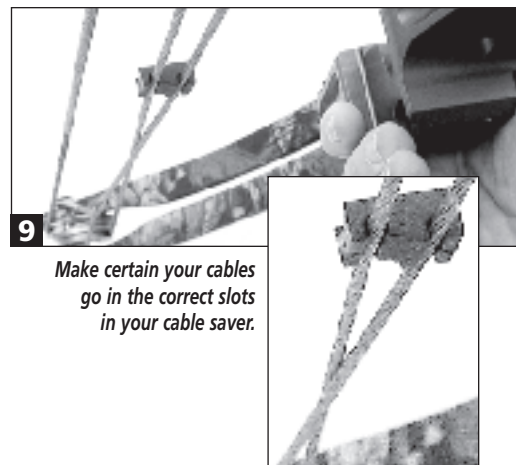
Regardless of the model you selected, your crossbow is easy to assemble. Basically, you only have to bolt the bow assembly to the stock assembly, install the foot stirrup and front sight (if provided), and you are ready to shoot. Once assembled correctly, your crossbow is pre-sighted for 20-yards.

8

First, layout the contents of your 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) VIBRA-CUSH™
- 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 II™ without a scope or a TITAN SE™.

**Note:** The ELITE X-2™, STEALTH X-2™, and TURBO X-2™ 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. A Peep and Pin Conversion Kit is available containing a 3/8-inch dovetail, rear peep, front sight bracket, and sight pin for those who prefer a peep and pin system (HCA-071). See page 12.



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

## ASSEMBLY STEPS

1. Do not attach the bow assembly to the stock assembly without first installing 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 9), 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 groove) or top of the cable saver (the part that comes in contact with the underside of the barrel’s arrow flight groove).

- The Extreme Cable Saver, used on X-2 Series models, is shaped a bit differently than the pictured Standard Cable Saver. Nevertheless, it, too, has both a deeper and a shallower notch.

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

- Position the bowstring on the top front 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 10).

- Press the VIBRA-CUSH™ in place with its cutout side facing the barrel (photo 11).

- 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 somewhat sharp edges of the barrel’s cable slot. You do not want to cut any of your cable strands.

- Pull the bow string (as you would if cocking the bow) until the bow assembly unit and the stock assembly unit fit together snugly.

- After you make sure the assembly bolt’s locking setscrew is loosened, insert the assembly bolt and tighten it securely. Do not overtighten. (photo 12).

3. 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 13).

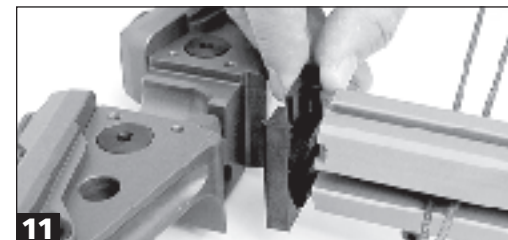
4. If your crossbow is equipped with a peep and pin sighting system, mount the front sight bracket using the screws provided. Notice that screw holes are provided so that you can mount it on the right or left-hand side of the riser (photo 14).

5. You are now ready to test-fire your crossbow and fine-tune your sights (See **Cocking, Loading, and Sighting Your Crossbow**).



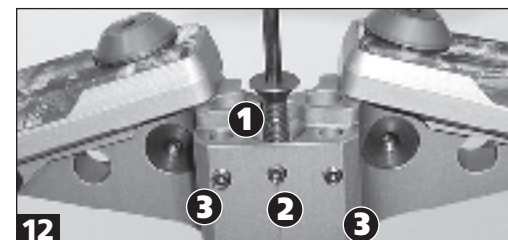
10

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



11

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



12

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



13

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



14

You can mount your front sight on either side of the riser.



## MAINTENANCE AND 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 Crossbow Technologies® String and Cable Wax (HCB-110). Do not apply string wax to the center serving, barrel, or trigger. You do not want wax to collect inside the trigger mechanism.

2. Use a high quality barrel or rail lubricant such as TenPoint Crossbow Technologies® Flight Rail/Trigger Lube™ (HCB-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 in front of and behind the bowstring on each side of the rail. Then spread the lube the length of the barrel with your finger. Apply flight rail lubricant prior to each outing. One application of lubricant, however, should be adequate for 40 to 50 shots during an outing (photo 15).

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 you 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.
- ELITE X-2™, STEALTH X-2™, TURBO X-2™ (and out-of-production models made with the fixed scope mount Power Touch™ Trigger): 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 16).
- TITAN II™ & TITAN SE™: Apply a drop of lube to the TITAN II™ & TITAN SE's™ safety plunger shaft and allow it to work its way into the safety mechanism (photo 17).
- Apply a drop just inside the closed end of the trigger's string slot to lubricate the safety slide and string latch (photo 18).

4. Do not expose your crossbow to excessive heat such as leaving it in an automobile trunk on a hot day 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, be certain to loosen their respective locking set screws before tightening or loosening them (photo 19).

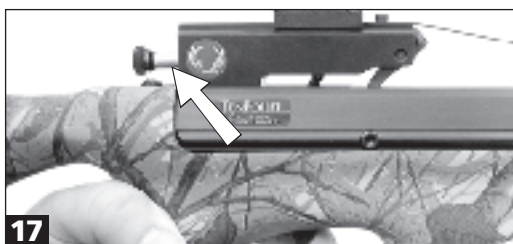
6. Only TenPoint Crossbow Technologies® or an authorized repair facility may repair the RangeMaster™, the PowerTouch™ trigger mechanism, and/or the ACUdraw™ automated cocking unit. If repairs are necessary, contact the **Customer Service Department at 330.628.9245 for a Return Authorization Number** and shipping instructions.



15 Lubricate your flight rails every 40 to 50 shots.



16 Lubricate the PowerTouch trigger through the safety slide window.



17 Lubricate the TITAN models' safety plunger shaft.



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

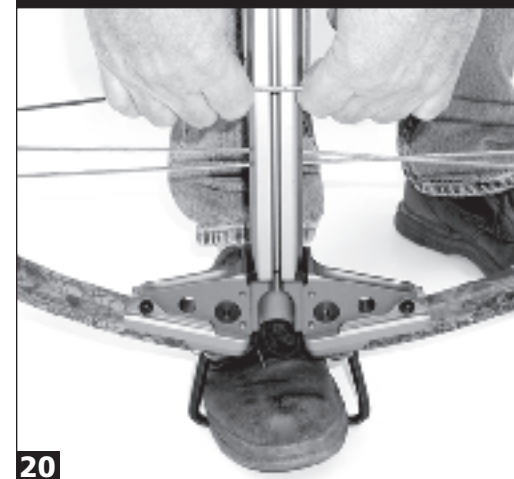


19 Loosen locking set screws before turning limb bolts or the main assembly bolt.

## COCKING AND 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 on the TITAN™ models) must be set on 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 6 & 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.
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 consistently accurate. 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 20).
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 21) 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. But, 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 securely against the string. You are now ready to aim, release the safety, and shoot.



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



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

### CAUTION

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 **330.628.9245**.



## 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 rock-free ground or into a suitable target. You should carry a practice arrow in your quiver when hunting and use it for unloading.**

## SIGHTING YOUR CROSSBOW

### ELITE X-2™, STEALTH X-2™ & TURBO X-2™

The X-2 Series models are designed to be used with a scope and come with an adjustable 7/8-inch Weaver style dovetail scope mount. You can order these models with or without a 30 mm Red Dot Scope Scope (The ELITE X-2™ always comes with a Red Dot scope). If you wish to shoot them with a peep and pin sighting system, you must purchase the Peep & Pin Conversion Kit (HCA-071). See page 12. It includes a 3/8-inch dovetail, rear peep sight, and front bracket and pin assembly.

### TITAN™ Models

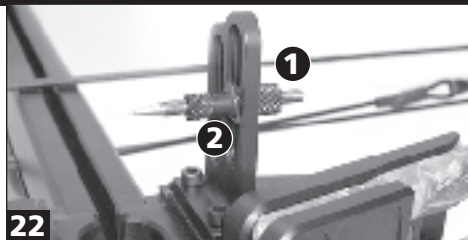
The TITAN II™ model is available with a peep and pin sighting system or with TenPoint's 3 power x 1" Multi-Line MINI Scope (HCA-088) in two of the TITAN II™ packages. When you purchase the TITAN II™ with a scope, we include a Fixed 7/8-inch Dovetail Scope Mount (HCA-078).

The TITAN SE™ is available only with a peep and pin sighting system. However, you can purchase an optional Fixed 7/8-inch Dovetail Scope Mount (HCA-078) if you wish to mount a scope on either it or a peep and pin-sighted TITAN II™.

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 foregrip 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 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 22).
- 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.



22  
1. Elevation lock nut  
2. Windage lock nut



23  
GripSafety™ button on side of foregrip.



24  
Depress the GripSafety™ with your thumb before squeezing the trigger.



25  
Deactivation or bypass tool allows you to deactivate the GripSafety™.

- 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. **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.

3. **Rear Peep Sight:** On the TITAN™ models, the peep sight mounts in a fixed position. When you purchase a Peep and Pin Conversion Kit (HCA-071) for an X-2 Series model, the peep mounts anywhere along the length of the 3/8-inch dovetail scope mount.

## GRIPSAFETY™

### ELITE X-2™, STEALTH X-2™ & TURBO X-2™

Each of TenPoint's top-of-the-line trio of X-2 Series models, the Elite X-2™ Package, the Stealth X-2™, and the Turbo X-2™, is equipped with the new, innovative GripSafety™ (patent pending). The GripSafety™ is a secondary safety button positioned on the side of the crossbow's fore grip (photo 23). 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 the Grip Safety™ button, and squeeze the trigger. If either the GripSafety or the trigger safety is engaged or activated, you cannot pull the trigger or fire the crossbow.

Right-handed shooters will depress the GripSafety button with the thumb (photo 24). Left-handed shooters will depress it with either the index or middle finger.

If you choose, you can bypass or deactivate the GripSafety system using a bypass tool that comes with each unit. Simply depress the GripSafety™ button and slide the bypass tool between the fore grip and the protruding button on the opposite side of the grip (photo 25).

## RANGEMASTER™ SCOPE ADJUSTMENT MECHANISM

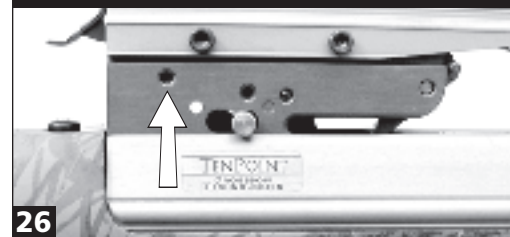
### ELITE X-2™, STEALTH X-2™ & TURBO X-2™

Available only on the X-2 Series models, the RangeMaster™ Rear Scope Adjustment Mechanism is a thumb-operated lever that allows you to adjust for yardage in preset increments of between 10 and 15-yards.

To set the system, start with the thumb lever in its uppermost position and zero your scope in at 20-yards (or the beginning yardage you desire). Then, without ever taking your eye off the scope, each downward click of the mechanism will add 10 to 15-yards more to your shot.

The actual yardage distance between each click of the RangeMaster™ system will depend upon the crossbow model, its draw weight and the weight of the arrow you shoot. The combination of those factors control arrow speed and trajectory. You will need to experiment with your draw weight/arrow weight combination to determine the distance each click will add to your shot.

The RangeMaster™ also comes equipped with a tension-adjustment set



26  
The tension-adjustment setscrew.



27  
The lockdown thumbscrew.



# TenPoint Crossbow Technologies...

The Industry Standard For Design, Performance And Durability.

- 1

Lightweight aluminum foot stirrup with sound-dampening rubber coating.  
**Note:** Coating not included on TITAN™ models.
- 2

Lightweight, thin-line machined aluminum pivoting limb pockets.  
**Note:** TITAN™ limb pockets are bolted to the riser in a fixed position.
- 3

VIBRA-CUSH® *patented* bow-to-barrel mounting system. Dramatically reduces vibration and noise level, making TenPoint® crossbows the quietest on the market.
- 4

Lightweight machined aluminum riser cut to exacting tolerances. Includes locking setscrew system for the main assembly bolt and limb bolts. TenPoint® bow assemblies do not vibrate loose.
- 5

Limb-bolt locking setscrews.
- 6

ST™ Limb System. The best crossbow limbs on the market. Available only on the X-2 Series (ELITE X-2™, STEALTH X-2™, & TURBO X-2™) models. 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 power stroke.  
**Note:** TITAN™ models feature our TL-4™ high performance, advanced quad-limb system.
- 7

Power Limb-Tip Caps.™ Provide additional limb-tip strength and improved performance.
- 8

Precision CNC machined aluminum wheels.
- 9

Synthetic cable yokes for the ultimate in tunability and stability.
- 10

ACRA-ANGLE™ barrel. Extruded aluminum design features angled sides to prevent finger injury and insure precision loading. TenPoint's X-2 Series barrels are hardcoated to a 65 Rockwell finish and Teflon® impregnated, reducing wear and string friction and increasing arrow speed. TITAN™ models are black anodized.
- 11

ACRA-ARROW™ retention spring. Extra long to enhance arrow flight. Tip is coated to reduce vibration & noise.
- 12

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

- 13

CLAWOVER™ String Catch. Releases from above the string rather than below it like most crossbows. Allows vibration-free string travel on the flight deck, insuring stable, accurate arrow flight.  
**Note:** The TITAN™ models use a conventional string catch that releases from below the string.
- 14

Ambidextrous safety. Moves from "fire" (red dot) to "safe" (white dot) when you cock the crossbow.  
**Note:** The TITAN™ models' safety is also ambidextrous and is controlled by a unique single plunger located at the rear of the trigger housing.
- 15

PowerTouch™ *patented* trigger. Precision machined to exacting standards, it is recognized as the finest crossbow trigger made today. The trigger's travel is set for optimum release efficiency and maximum safety, and offers the lightest and smoothest trigger pull in the industry.  
**Note:** The TITAN™ models feature a

machined, conventional trigger action with a remarkably crisp release and unique ambidextrous plunger safety.

- 16

FST IV™ Stock. This functionally superior thumbhole design now features molded ACUdraw™ / *New* ACUdraw 50™ receiver holes (hidden by covers), making it possible to purchase either cocking device as a dealer or customer-installed accessory.
- 17

*New* GripSafety™ (patent pending). A secondary safety button that requires the shooter to hold the foregrip correctly, thus avoiding potential thumb or finger injury. The trigger will not release without depressing the GripSafety™.  
**Note:** The GripSafety™ is not available on the TITAN™ models.
- 18

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 *New* ACUdraw 50™ (patent pending), a retractable rope-cocking device that reduces the crossbow's draw weight by 50% (pp. 12 & 13).
- 19

Thumb-operated RangeMaster® Sight Adjustment Mechanism. By simply moving the

thumb-operated lever from one position to another, you can select your yardage without ever taking your eye off the scope. Features a tension-adjustment setscrew and a lock-down thumbscrew system. A Dovetail Fixed Position Accessory (p.16) is available as an option on the X-2 Series models. It converts the RangeMaster® adjustable mount to a fixed position mount. The RangeMaster® system is not included on the TITAN™ crossbow models, which feature a fixed sight-bridge design.

- 20

RangeMaster® tension adjustment screw regulates the tension or "feel" of the RangeMaster® cam. The mechanism's lock-down thumbscrew, used to hold the RangeMaster® Sight Adjustment Mechanism at whichever yardage setting you select, is located on the other side of the trigger box, directly opposite the tension adjustment screw.
- 21

Single Dot Illuminated Red Dot Scope. Available as an accessory on any model or as a stock-option on our X-2 Series models. When these models are ordered without the Red Dot Scope, 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™ *New* Multi-Dot Red Dot Scope or *New* 3-Power x 1" Multi-Line Mini Scope is also available as an accessory for any model. (p. 15)

- 22

A machined aluminum 7/8" Adjustable Dovetail Sight Mount is standard on all X-2 Series models. Integrated to work with the RangeMaster® Rear Sight Adjustment Mechanism, it includes an adjustment screw (and locking setscrew) to micro-tune the dovetail elevation angle. TITAN™ crossbows have a fixed sight bridge that will accept a Fixed 7/8" Dovetail (p. 16).
- 23

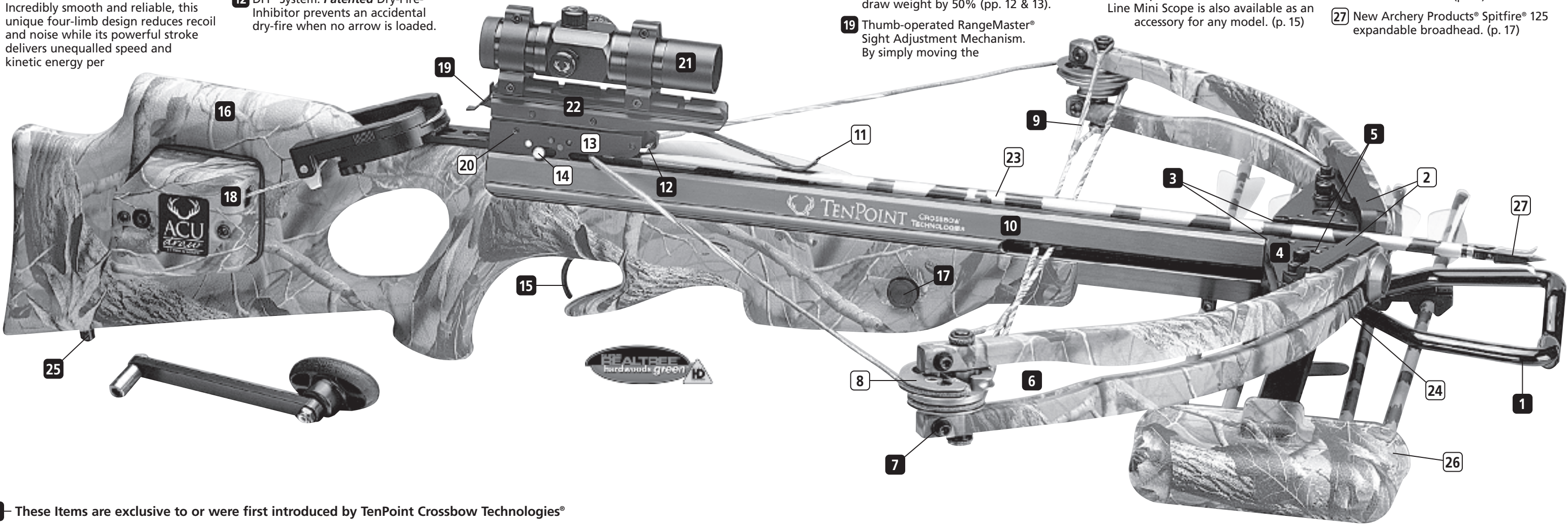
TenPoint's™ XX75 2219, 20-inch Easton® Aluminum crossbow shaft, the recommended shaft for all TenPoint crossbows (along with Beman ThunderBolt™ carbon crossbow arrows). TenPoint® is an Easton® Complete Crossbow Arrow Resource™, carrying a complete line of custom crossbow arrows for the entire crossbow industry. (p. 19)
- 24

The main assembly bolt's locking setscrew and the foot stirrup's two attachment setscrews are out of view, located on the underside of the crossbow's riser.
- 25

Sling swivel studs are standard equipment on all models.
- 26

TenPoint's™ 4/5 Arrow Instant Detach Quiver mounts under the riser and quickly locks in place with a couple easy turns of two lock-down knobs. (p. 14)
- 27

*New* Archery Products® Spitfire® 125 expandable broadhead. (p. 17)



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



screw (photo 26) to regulate the “feel” or tension of the mechanism and a lock-down thumbscrew (photo 27) to immobilize or “lock” the system in a fixed position during target shooting, for example. These screws are located opposite one another on either side of the back of the trigger box. A small spring and ball bearing are located inside the trigger housing between the tension-adjustment set screw and the RangeMaster cam. Turning the setscrew clockwise increases the force (and vice-versa) on the ball bearing as it moves along the series of indentations machined into the side of the RangeMaster™ cam.

ADJUSTABLE 7/8 - INCH DOVETAIL SCOPE MOUNT

ELITE X-2™, STEALTH X-2™ & TURBO X-2™

The X-2 Series crossbow models come equipped with our patented PowerTouch™ 3 1/2 pound trigger. The PowerTouch™ trigger housing’s sight bridge is equipped with a Weaver-style Hardcoated 7/8-inch Adjustable Scope Mount HCA-077-H, which works in conjunction with the RangeMaster Scope Adjustment Mechanism.\*

Designed for scopes, these three crossbow models are not available with a peep and pin sighting system. To convert them for use with a peep and pin system, you must purchase a Peep and Pin Conversion Kit (HCA-071), consisting of a 3/8-Inch Adjustable Scope Mount, Rear Peep Sight, and Front Sight Assembly.

Both the 3/8-inch and 7/8-inch scope mounts pivot on the front Allen head pivot screw located on the side of the scope mount (photo 28). **Never** turn this screw so tight that the scope mount no longer rocks forward and back freely on the Allen head pivot screw.

The purpose of the rear Allen head screw (photo 28), located next to the Allen head pivot screw, is to pull the sides of the scope mount closer together to eliminate sideways movement of the mount. Likewise, **never** turn it so tight that the scope mount no longer freely rocks forward and back.

A coil spring located in front of the Allen head pivot screw, and out of sight between the scope mount and the trigger box, forces the scope mount to return to its original position following each shot. With the pivoting screw turned too tight, the bow’s recoil will force the scope rail to pivot forward, but it will not return to its starting position, making it impossible to shoot accurately.

You will notice that the scope mount is preset at the factory with a slight forward tilt or pitch. The adjustment screw for the angle of pitch (pitch adjustment screw) is located on top of the dovetail (photo 29) and may be hidden by a scope. Ordinarily it is not necessary to adjust the pitch further. However, *if the elevation adjustment screw built into your scope cannot be turned far enough to make a necessary sight correction, use the dovetail pitch-adjustment screw to change the pitch or angle of your dovetail to optimize your scope’s range of adjustability.*

To reset the dovetail pitch-adjustment screw, first loosen its locking set screw, located at the end of the dovetail right in front of the RangeMaster™ thumb-lever (photo 29).

CONVERTING AN ADJUSTABLE SCOPE MOUNT TO A FIXED MOUNT

ELITE X-2™, STEALTH X-2™ & TURBO X-2™

Some X-2 Series model owners prefer a fixed scope mount to the RangeMaster™ system. The adjustable scope mount that comes standard on these three crossbow models can be converted into a fixed system by purchasing and installing a Dovetail Fixed Position Accessory (HCA-074) (photo 26).



28  
1. Rear allen head screw  
2. Allen head pivot screw



29  
Loosen the locking setscrew (1) before setting the dovetail pitch-adjustment screw (2).

**\* Note:** Some out-of-production TenPoint models, like the WoodsMan Plus™, are equipped with a version of the PowerTouch™ trigger with a fixed sight bridge. Those models require a Fixed 7/8-inch Dovetail Scope Mount (HCA-078) when equipped with a scope.

INSTALLING THE DOVETAIL FIXED POSITION ACCESSORY



30  
Fixed Position Accessory.

1. While holding the Adjustable 7/8-inch Dovetail Scope Mount in position, remove its Allen head pivot screw (photo 28) located on the side of the scope mount. The dovetail will lift off of the trigger box, exposing a coil spring positioned between the trigger box and the dovetail scope mount. Set aside the coil spring.
2. Remove the locking setscrew (photo 29) located at the back end of the dovetail mount, and remove the pitch adjustment screw (photo 29) located on top of the rear end of the dovetail mount. Set aside the pitch adjustment screw.
3. Remove the RangeMaster’s tension adjustment setscrew (photo 26)- and the small spring and ball bearing it holds in place - from the right side of the trigger box.
4. Remove the lockdown thumbscrew (photo 27) from the left side of the trigger box.
5. Remove (push out) the pivot pin that holds the RangeMaster cam (thumb-lever) in place between the two halves of the trigger box. Save the pivot pin. Remove the RangeMaster cam.
6. Replace the RangeMaster cam with the Fixed Position Accessory (photo 30) and re-insert the pivot pin to hold it in place.
7. Put the coil spring back in position and re-mount the 7/8-inch dovetail scope mount by inserting and loosely tightening the front Allen head pivot screw.
8. Insert the socket-headed cap screw provided in the kit into the vacated locking setscrew hole located at the back of the dovetail mount (photo 29). Tighten it securely.
9. Take the pitch adjustment set screw, saved from above, and insert it, and another just like it provided in the kit, into the vacated tension adjustment setscrew hole (photo 26) and the vacated lock-down thumbscrew hole (photo 27) on either side of the trigger box. Tighten them securely.
10. Securely tighten the front Allen head pivot screw (photo 28) and the rear Allen head screw (also photo 28) located on the side of the dovetail scope mount.



31

PEEP AND PIN CONVERSION KIT

ELITE X-2™, STEALTH X-2™ & TURBO X-2™

If you choose to use a peep and pin sighting system with an X-2 Series model, you must purchase a Peep and Pin Conversion Kit (HCA-071) consisting of a 3/8-inch Adjustable Dovetail Scope Mount, a Rear Peep, and a Front Sight Bracket and Pin Assembly. Installation instructions are contained in the conversion kit (photo 31).

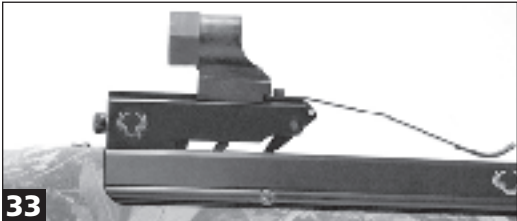
FIXED 7/8 - INCH DOVETAIL SCOPE MOUNT

TITAN™ Models

When you purchase one of the TITAN II™ packages with a scope, the scope comes pre-mounted on our optional Fixed 7/8-Inch Dovetail Scope Mount, HCA-078 (photo 32). All TITAN SE’s and TITAN II’s without scopes come with a peep and pin sighting systems. The peep is mounted on the bow’s fixed sight bridge (photo 33). If you wish to add a scope later you must purchase the Fixed 7/8-Inch Dovetail Scope Mount.



32  
TITAN II™ with scope and Fixed 7/8-inch Dovetail Scope Mount.



33  
TITAN II™ 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, insert an Allen wrench in the hole located on top of your dovetail (on top of the sight bridge on TITAN™ models). Locate the adjustment screw and turn it clockwise to increase the tension or counterclockwise to ease the tension (photo 34).

TITAN™ TRIGGER

The TITAN™ trigger differs from the patented PowerTouch™ trigger used in all of our other crossbow models.

First, it contains an ambidextrous center-plunger safety mechanism that extends from the rear of the trigger box when the trigger is in the **SAFE** position. When you are ready to shoot your TITAN™, push the plunger forward to deactivate the safety. (photo 35). Like all models the safety must be in the **FIRE** position to successfully cock the bow.

Second, the TITAN™ trigger’s string catch is a “down catch”, 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 the TITAN™ trigger pull is smooth and crisp, and superior to other manufacturers’ “down catch” triggers, it is somewhat heavier than the 31/2 pound pull of the PowerTouch™ trigger.

You should maintain the TITAN™ trigger in the same manner as the PowerTouch™ trigger. That is, keep it dry and lubricated.

USE THE CORRECT ARROW

Do not void your warranty. When shooting your crossbow, use our Easton aluminum 20-inch TenPoint Crossbow® arrows equipped with a bluntnock (flat cap). TenPoint® makes crossbow arrows in the following sizes and alloys:

		A L L O Y		
		XX75	XX78	5086
ARROW	2219	■	■	■
	2315	■		

TenPoint Crossbow Technologies® recommends using finished arrows weighing at least 415 grains with all commercially produced hunting crossbows. The 2315 arrows listed above may be too light if built with feathers, our polymer SuperBrite nocks, and CPC carbon inserts.

TenPoint® also makes and recommends the Beman Thunderbolt™ 22/64<sup>ths</sup> carbon crossbow arrow fletched with plastic vanes and aluminum inserts and flat caps. It weighs in at 418 grains with a 100 grain field point or broadhead (440 grains with a 125 grain point). At those weights, it performs comparably to TenPoint’s 2219 Easton aluminum arrows.



34 Access the safety tension screw through the top of the dovetail on X-2 Series models. Access the safety tension screw through the top of the sight bridge on TITAN® models.



35 The TITAN™ trigger has an ambidextrous plunger safety and a drop or down latch bowstring catch. The safety is shown in the SAFE position in this photo.

STRING AND CABLE ADJUSTMENT CHART 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:** 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 three (3) times prior to attachment. This adjustment should prevent limb-twist while cocking the crossbow.

MODEL	CABLE TWISTS	STRING TWISTS
Elite X-2™	12	10
Stealth X-2™	12	10
Turbo X-2™	15	10
Titan II™	Steel	15
Titan SE™	Steel	15

STRING AND CABLE GUIDE

	STRINGS				CABLES					
	HCA -115	HCA -115C	HCA -117	HCA -119	HCA -120	HCA -122	HCA -124	HCA -124C	HCA -125	HCA -126
CROSSBOWS										
HuntsMan 1994 -1997			■						■	
HuntsMan 1998			■							■
HuntMaster (w/o yokes) 1994 -1995	■	■			■					
HuntMaster (w/ yokes) 1995-1997	■	■				■				
HuntMaster TL-4 1998	■	■					■	■		
458 Magnum 1996-1997				■			■	■		
458 Magnum TL-4 1998 -1999	■	■					■	■		
WoodsMan 1998			■							■
WoodsMan Plus & WoodsMan SE			■							■
Titan & Titan SE			■							■
Turbo Extreme & Magnum Extreme	■	■					■	■		
Elite, Magnum, Stealth & Turbo X-2	■	■					■	■		

STRING AND CABLE SPECIFICATIONS

PART NUMBER	LENGTH	MATERIALS
HCA-115	37.5	Fast Flight -32 strands
HCA-115C	37.5	Fast Flight -32 strands – Camo
HCA-117	37.5	B-66 -22 strands
HCA-119	36.625	Fast Flight -32 strands
HCA-120	26.5	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	Fast Flight -32 strands – Camo
HCA-125	26.5	3/32 steel cable with ball end
HCA-126	21.5, 12" yoke	3/32 steel cable with barrel end, B-66 yoke



## 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 anytime after purchase. In addition, we offer an ACUdraw™ retrofit program for Horton crossbow models that use the Hunter and Yukon model stocks, most Excalibur models, and the Buckmaster crossbow.

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.

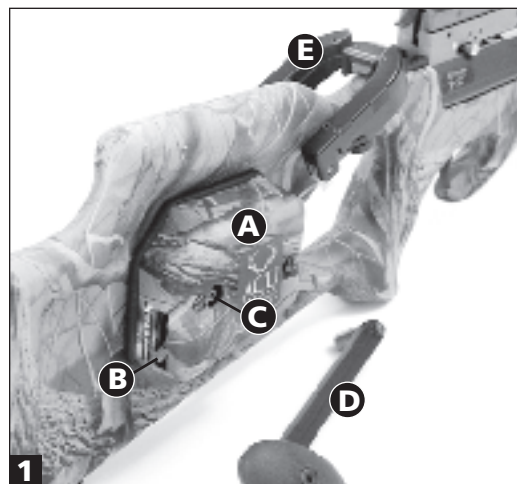
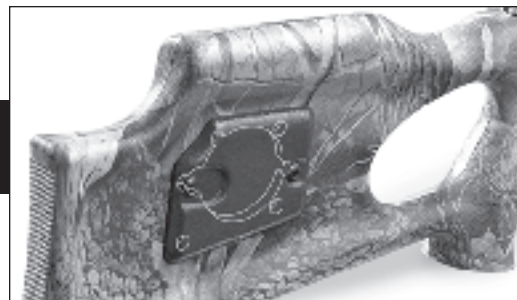
Compactly built into the crossbow's butt stock, it does not interfere with shooting. In fact, most ACUdraw™ owners say it enhances shooting accuracy by affording a comfortable and stable platform to position the side of the shooter's chin against.

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

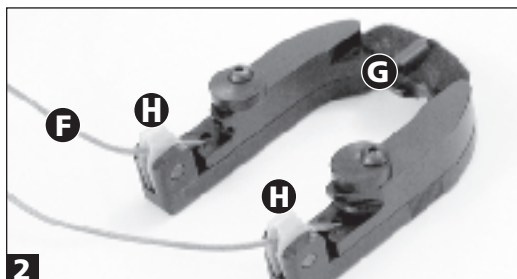
### WARNINGS AT A GLANCE

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™.

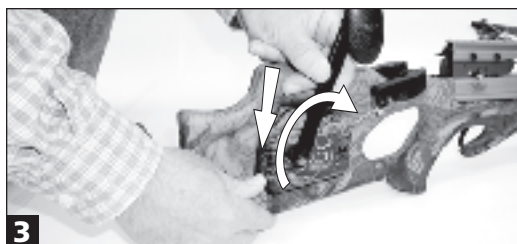
- **Don't** use your ACUdraw™ to uncock your crossbow. Carry a practice arrow that you can shoot into a target or into the ground.
- **Don't** operate your ACUdraw™ if your draw cord is frayed or worn.
- **Don't** crank your ACUdraw™ without first engaging it's safety lever.
- **Don't** crank your ACUdraw™ 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™.
- **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. Without letting go of the crank, disengage the safety and unwind the crank no more than three 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).**



1 A-Cover. B-Safety Winch Lever. C-Drive Hex. D-Crank. E-Claw in Storage Position.



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



3 Properly relieve the tension on the ACUdraw unit before lifting the claw out of its storage position.



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

## 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 (photo 3). Then push the safety pawl lever down to disengage it. Once disengaged, 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 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 PowerTouch™ trigger's brass safety knob (safety plunger on TITAN™ models) in the **FIRE** (red dot) position, begin cranking the ACUdraw™ clockwise (or powering it forward with a battery-operated drill or screwdriver). It takes approximately 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 bowstring (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, 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 three 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).



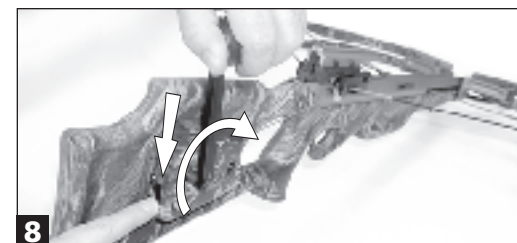
5 Don't allow the draw cord to get hung-up on any part of the bow.



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



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



8 To avoid damaging your ACUdraw once your bow is cocked, apply a small amount of additional clockwise force to the crank, disengage the safety winch, and unwind the mechanism two to three turns to relieve the string tension.



9 After three reverse turns you can see that the pressure is off the claw. You can then remove the crank.



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.

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



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.

## 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, DO NOT use the mechanism. Contact your dealer or our Customer Service Department at 330.628.9245 to have it replaced. If you use your ACUdraw™ regularly, consider replacing the draw cord every year.
- **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 uncock your crossbow. It is dangerous to do so because you must disengage the safety pawl to crank counter clockwise. The safest way to uncock your crossbow is to fire a spare arrow equipped with a practice point into soft ground or into a suitable target.
- **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.
- **Do not** over-crank the mechanism. Stop cranking the mechanism immediately after the trigger's brass safety

knob (safety plunger on TITAN™) 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 mounted 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 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. Once you disengage the safety pawl, carefully **unwind the mechanism no more than three 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 three 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.

## MAINTENANCE AND 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.

### 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

## ACUdraw™ RETROFIT PROGRAM for Horton, Excalibur, Buckmaster Crossbows

For those customers who have purchased our ACUdraw™ system for a Horton, Excalibur, or Buckmaster crossbow, carefully follow the operating and maintenance instructions in this manual.

Be sure your safety is in the **FIRE** (off) position before you attempt to cock your crossbow. Stop cranking when you see the safety knob or lever move to the **SAFE** (on) position.

Since Excalibur and Buckmaster crossbows have a manual safety, you must move the safety to the **SAFE** (on) position after you cock the crossbow. Stop cranking these bows' ACUdraw™ mechanisms as soon as the trigger latch engages the bowstring.

If you own a Horton crossbow equipped with their Dial-A-Range, set the dial on 2 or 3 while operating the ACUdraw™.

## ACUdraw 50™

The **NEW ACUdraw 50™** (patent pending) 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).

**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 the 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).

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. 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.

## MAINTENANCE AND 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 back cover of this manual for warranties.**

### TenPoint Crossbow Technologies®

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



ACU-50 Position 1.



ACU-50 Position 2.



ACU-50 Position 3.



ACU-50 Position 4.



### *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.
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 crossbow.
4. The warranty excludes abuse and neglect, crossbow strings, cables, and wheels.
5. The bow limbs are guaranteed for three years from the date of purchase.
6. TenPoint Crossbow Technologies® reserves the right to request proof of purchase.
7. This warranty is void if damage is caused by dry-firing, if other than recommended arrows are used with the crossbow, 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.
8. In states where permitted, we assume no liability for incidental or consequential damage or for incidental expenses.
9. **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 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:** Your warranty card contains the serial number of your crossbow. Make certain the number on the card and on your crossbow match. If they do not, or your warranty card is missing, or you have any questions about the contents of this manual, contact our **Customer Service Department immediately 330.628.9245**.

### *ACUdraw™ & ACUdraw 50™ Limited One-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 one year (1-year) 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 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 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.**