

ADDER TX

Instructions and Safety Manual



Scan for French manual



**Read and follow all safety warnings and instructions
in this manual.
Retain instructions and safety manual for future reference.**

TO THOSE WHO ARE ABOUT TO SHOOT, WE SALUTE YOU!

For thirty years, the team at Ek Archery Research has been devoted to the manufacturing of quality archery products. As our company matures, we continue to challenge ourselves to embrace even higher ethical standards over a wide range of issues including how our manufacturing impacts the environment, fair and conscientious trade conventions and the well-being of our end-users. We would also like to emphasize our continued advocacy of ethical hunting practices and our expectations that our products are not to be used to maliciously hurt humans, animals or property.

We ask that in Your enjoyment of our products, You would consider the privilege and duties of owning this crossbow. This is a very potent device that demands Your respect and thoughtfulness; misusing it or underestimating its potency will inevitably lead to devastating consequences for yourself, other people or nature.

With great power comes great responsibility. We hand this crossbow over to You, with the hope that it will be operated with restraint and wisdom.

COBRA SYSTEM R-SERIES CROSSBOW (ADDER TX) INSTRUCTION MANUAL

Congratulations! You own an R-Series Crossbow! A compact, fast handling and powerful crossbow for your serious shooting enjoyment!

- The limb set comes pre-strung and is designed to be quickly attached or detached from the main body for transport and storage.
- With only a pen, nail, or bolt tip as a tool, the limb set and stock can be added or removed from the main body. With a little practice you will be able to put it together or take it apart in under ten seconds.
- Your R-Series can easily shoot good groups at 15m using the standard Red Dot sights. The bolts that come with this crossbow have high energy and deep penetration on impact. **(Therefore, shoot at appropriate target materials and at safe distances. Don't underestimate the power of the bolts!)**
- It is necessary to practice a safe and correct form when operating the cocking arm and safety mechanism. **(Learn how to correctly cycle the R-Series Crossbow before trying to shoot proficiently.)** Otherwise, you can seriously harm yourself and cause your crossbow to have a short and sad service life.



READ AND FOLLOW ALL SAFETY WARNINGS AND INSTRUCTIONS IN THIS MANUAL.
RETAIN INSTRUCTIONS AND SAFETY MANUAL FOR FUTURE REFERENCE.

SAFETY INSTRUCTIONS

- Always keep hand, thumb and fingers completely below the bowstring and flight track. Failure to do so may cause serious injury. Completely read the manual before operation.
- Improper operation, including dry-firing, may cause serious injury to the bow, the shooter and/or bystanders. Periodically inspect bowstring and limbs for wear or damage.
- To operate this device safely, always cycle the cocking arm completely! Make sure the cocking arm is solidly locked into the grip before shooting.
- Use only the 7.5" EK R-SERIES bolts that are specifically designed for this crossbow. Use of incorrect bolts may result in damage to the mechanism and user.
- Inspect bolts for damage or irregular wear. Do not use bolts that have damaged shafts, nocks or vanes.
- Do not attempt to cock the crossbow without the magazine nor should you attempt to shoot the crossbow without bolts.
- Always make sure the bolts, screws and pins are securely tightened and in place before using.
- Never allow your fingers or thumb to move above the flight deck and keep them out of the path of the string while holding the fore-grip.
- **Never dry-fire** the crossbow. Shooting without a crossbow bolt is damaging to the crossbow. **Dry-firing will void the warranty** and can result in damage to the limbs and string and possibly causing personal injury.
- Always inspect the crossbow equipment for worn, loose, damaged or missing parts. Replace any if missing, fraying or damaged parts are observed or suspected.
- Always point your crossbow in a safe direction and keep the crossbow out of the reach of children.
- Do not remove or deactivate your crossbow's safety features or accessories, potentially rendering the crossbow dangerous to you or others.
- Always keep all body parts clear of the bowstring's path during use.
- Always make sure the crossbow bolt is fully seated in the furthest back position to reduce possibility of dry-fire.
- Replace strings if visible signs of fraying or broken strands are evident.
- Do not transport or store your crossbow while it is cocked or loaded.
- Do not attempt to use your crossbow under the influence of alcohol, prescription or non-prescription drugs.

- Always use suitable crossbow bolts. Crossbow Bolts of improper stiffness or weight may damage the limb set voiding the warranty and possibly causing personal injury.
- When practice shooting, wear eye protection and be sure your range is located in a spacious area free of buildings and your target is designed for crossbow use.

READ THIS BEFORE YOU REMOVE THE STRING WARNING LABEL. BY REMOVING THE STRING WARNING LABEL, YOU HAVE READ AND FULLY UNDERSTAND HOW TO SAFELY OPERATE THE COBRA SYSTEM R-SERIES.

DON'T LET ITS SIZE FOOL YOU! THE R-SERIES CROSSBOW IS A POWERFUL AND DANGEROUS DEVICE THAT WILL BITE YOU AND HARM OTHERS IF YOU UNDERESTIMATE IT OR DISRESPECT IT. YOU HAVE BEEN WARNED!

Your R-Series Crossbow will reward you with a lot of shooting fun IF you read through the following instructions thoroughly.

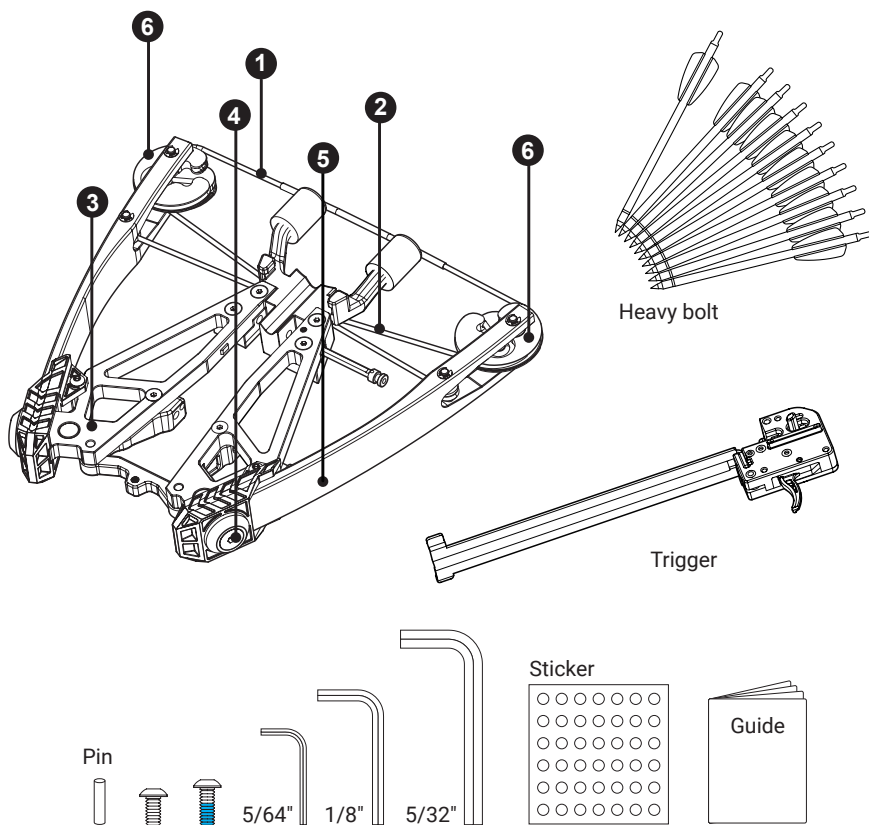


WARNING

BE SURE TO READ THESE NOTES BEFORE USE

- Obviously, this is **NOT A TOY** and adult supervision is required. Misuse or careless use may cause serious injury, death or terrible lawsuits. Use common sense.
- It is extremely important to read and follow these instructions before attempting to use your crossbow. Serious injuries to yourself or others, damage to your crossbow, or poor performance from your crossbow could result from failure to thoroughly read and understand the instructions. Crossbows should only be used by those who are properly trained in safety or under the supervision of a qualified instructor.
- **This is a high powered crossbow intended to be used by those who are 18 years of age and over.**
- Purchasers and users should obey and follow all federal, state, and local laws and restrictions regarding the ownership and use of crossbows.
- **FEED YOUR CROSSBOW PROPERLY!** Use the bolts that are specifically designed for this crossbow. Usage of any other bolts may void the warranty service. **Bolts of improper stiffness, size, weight or length may cause damage to the crossbow and possibly causing personal injury.**

CROSSBOW DIAGRAMS



- ① String**
- ② Cable**
- ③ Riser**
- ④ Limb Bolt**
- ⑤ Compound Limbset**
- ⑥ Cams**

Package Includes:

- 1 x Main
- 1 x Trigger
- 10 x Heavy bolt
- 1 x Pin, 4mm-17L
- 2 x Hex screws (without thread lock)
- 4 x Hex screws (with blue thread lock)
- 1 x 5/64" Hex Key
- 1 x 1/8" Hex Key
- 1 x 5/32" Hex Key
- 1 x Sticker
- 1 x Operation guide

ASSEMBLY GUIDE

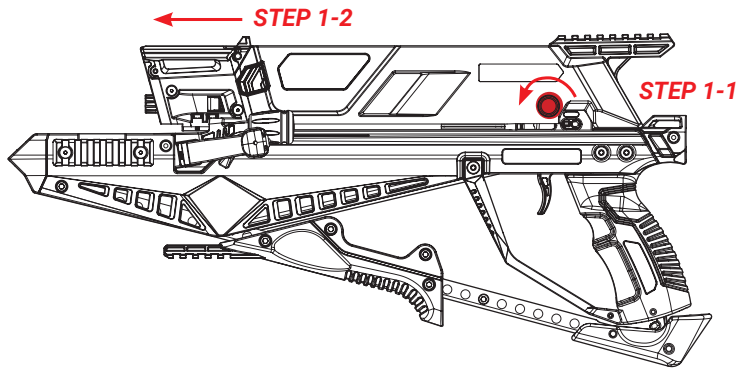
1

To add the ADDER TX front end, begin by breaking down your ADDER.

Step 1-1: Untighten and remove the locking knob.

Step 1-2: Slide the magazine forward and horizontally. Slide forward until the two flat pins on the bottom of the magazine disengage the yoke bracket of the flight track.

Note: DO NOT tilt the rear end of the magazine upwards at an acute angle, as this will damage the magazine.

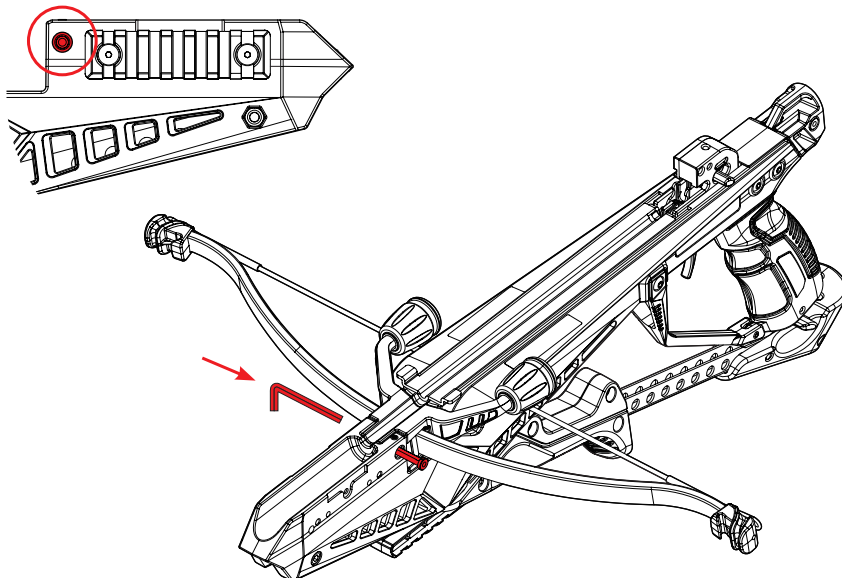


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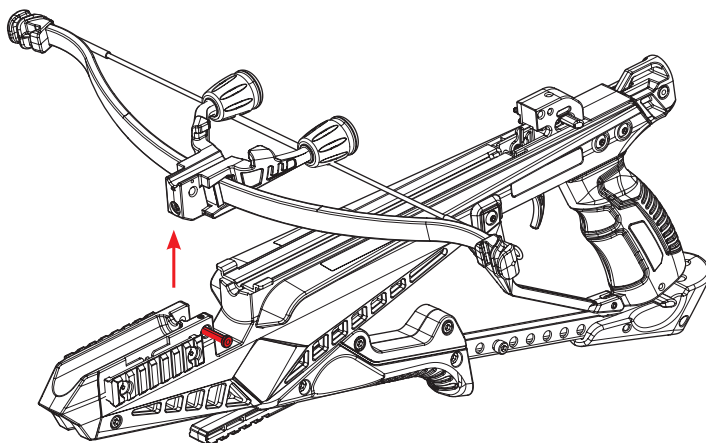
Push out the Recurve Limb Set's Quick Release Pin with a hex key until it comes out on the other side. Pull the pin by hand until it stops.

Note: Never pull the pin entirely out of the body as you may accidentally lose the stainless steel ball and spring that retains the Quick Release Pin in place.

LIMB QUICK RELEASE PIN

**3**

You then can remove the limbset from the limb slot.



4

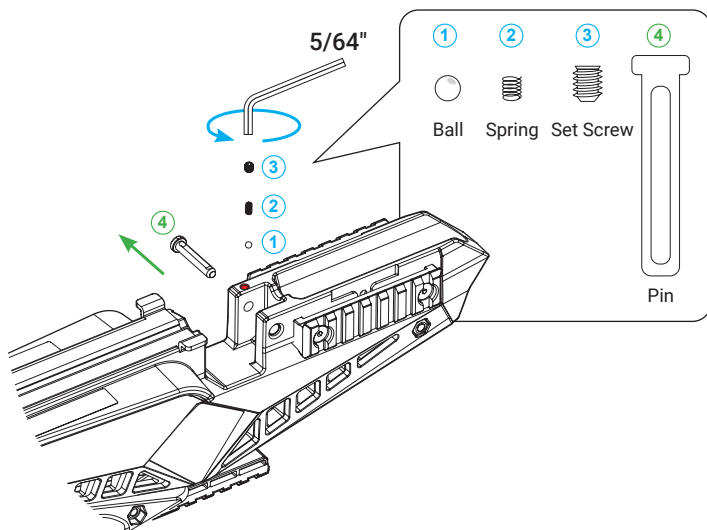
REMOVING THE QUICK RELEASE PIN.

READ THESE INSTRUCTIONS ENTIRELY BEFORE COMPLETING THIS STEP.

Step 4-1: Use the provided hex key to slowly back out the Set Screw.

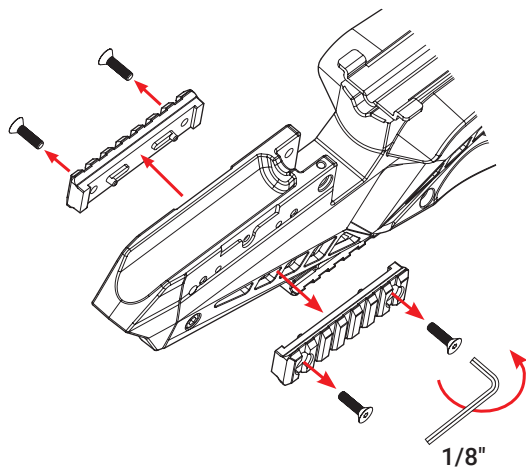
Step 4-2: Remove the Pin and carefully coax out the Ball and the Spring.

Note: The Set Screw holds a Spring and a Ball under light compression. When removing the Set Screw, prevent the Spring from being lost by covering it with your hand. Retain these four parts in the future to reconfigure your ADDER to take the Recurve Limb Set using the reverse order of 4>1>2>3



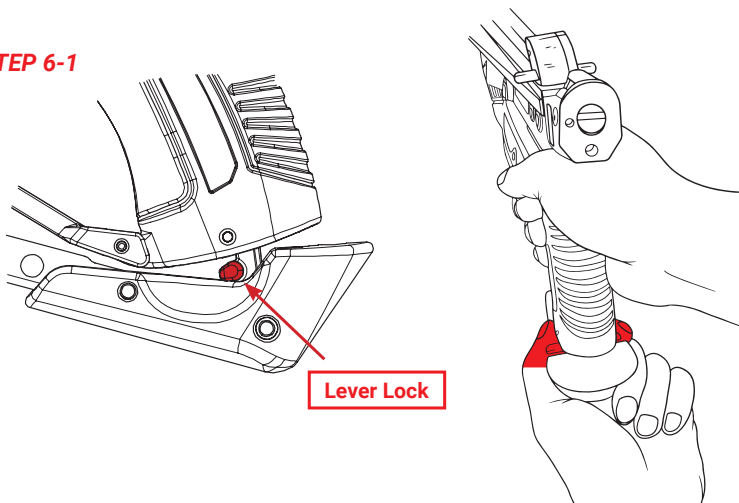
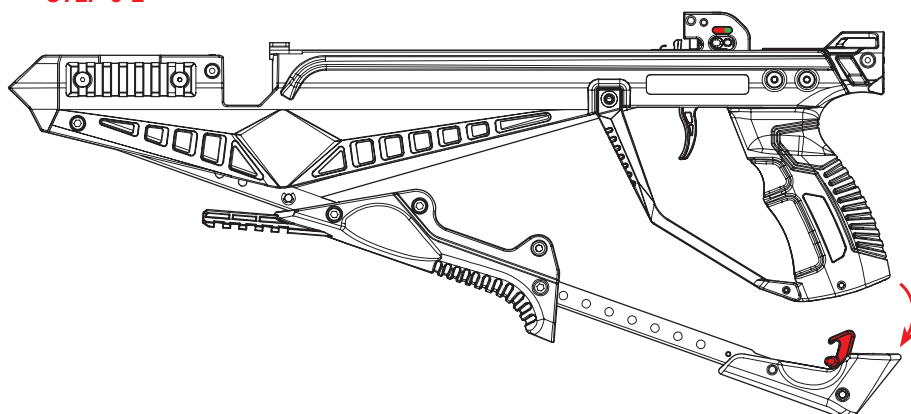
5

There are two picatinny rails mounted on the side of the front grip. Unscrew four of the side screws and take off the rails.



6

Before disassembling the original lever, use your thumb and index finger to grab the lever lock, then pull it backwards to release it from its housing at the base of the grip.

STEP 6-1**STEP 6-2**

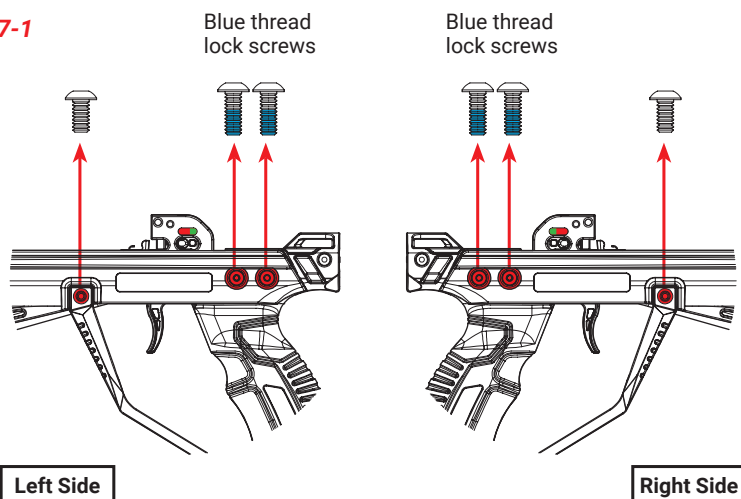
7

Using the 1/8" Hex Key provided in the accessory kit, remove the six screws in sequence by following these steps:

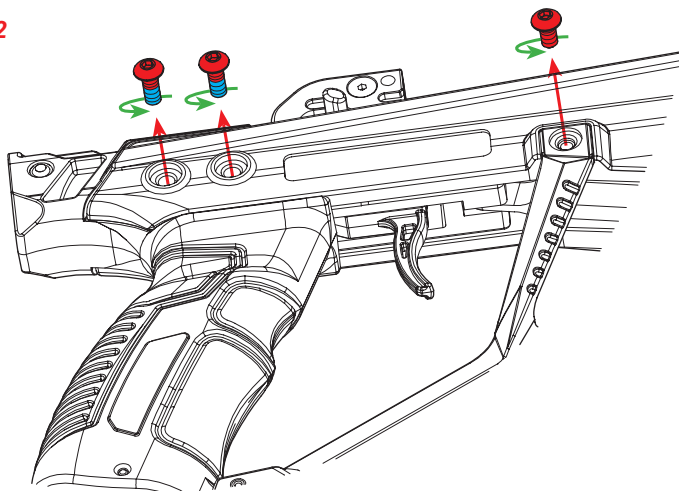
Step 7-1: Identify the six screws in the designated area. Insert the Hex Key and ensure a secure fit.

Step 7-2: Rotate the Hex Key counterclockwise to loosen the screw. Continue until the screw can be removed by hand.

STEP 7-1

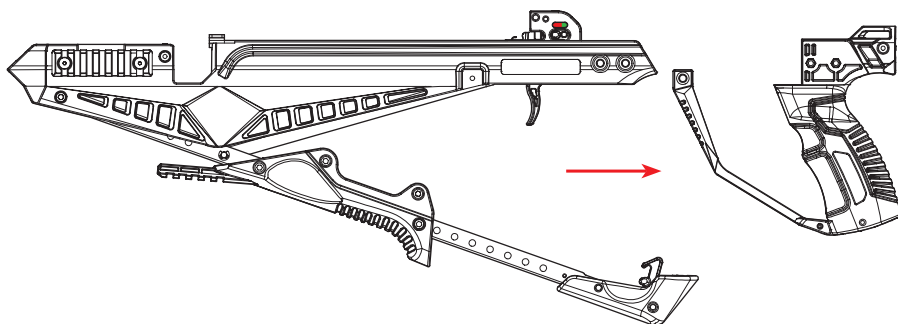


STEP 7-2

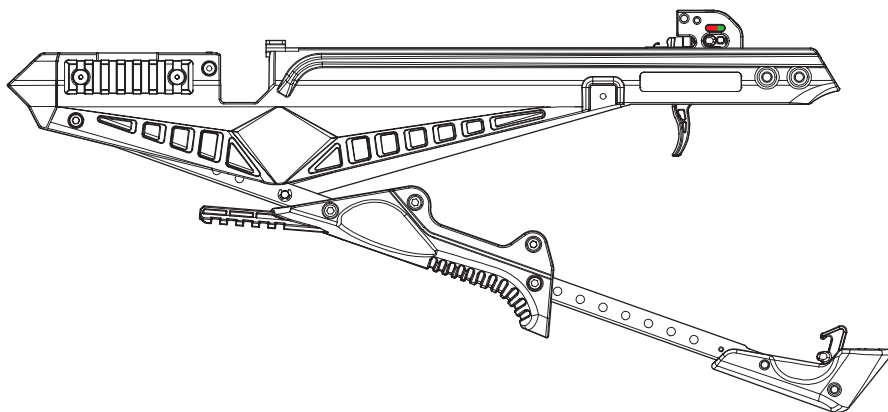


8

Once you successfully remove the six screws, pull the grip backwards to separate it from the stock.



Disassembly Completed.



9

To disassemble the trigger mechanism, follow these steps carefully:

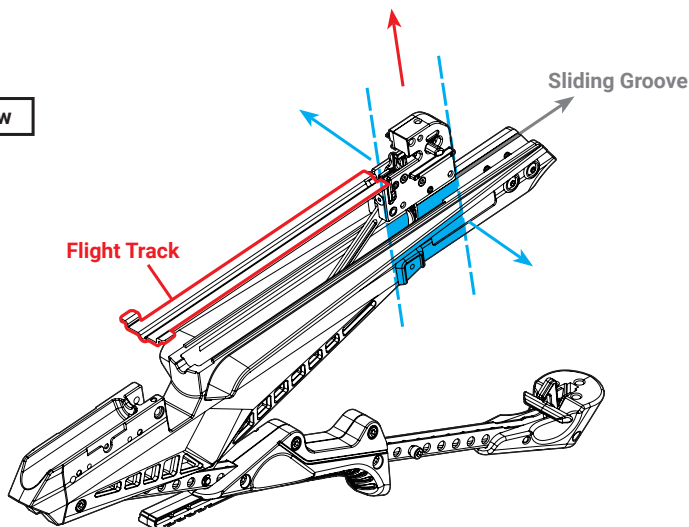
Step 9-1: Hold the crossbow body and trigger mechanism as shown.

Step 9-2: Pull apart the end of the crossbow body. Using both index fingers, push up on the trigger mechanism from below to apply upward pressure. As you push, the trigger mechanism will disengage from the sliding groove. Once released, carefully lift the trigger mechanism out of the groove.

Note: Be careful to avoid any potential hand injuries caused by the sharp edges of the sliding groove.

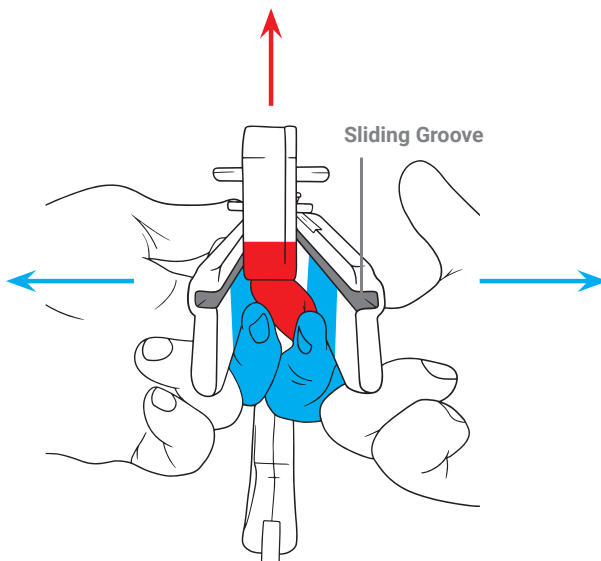
STEP 9-1

Side View



STEP 9-2

Back View

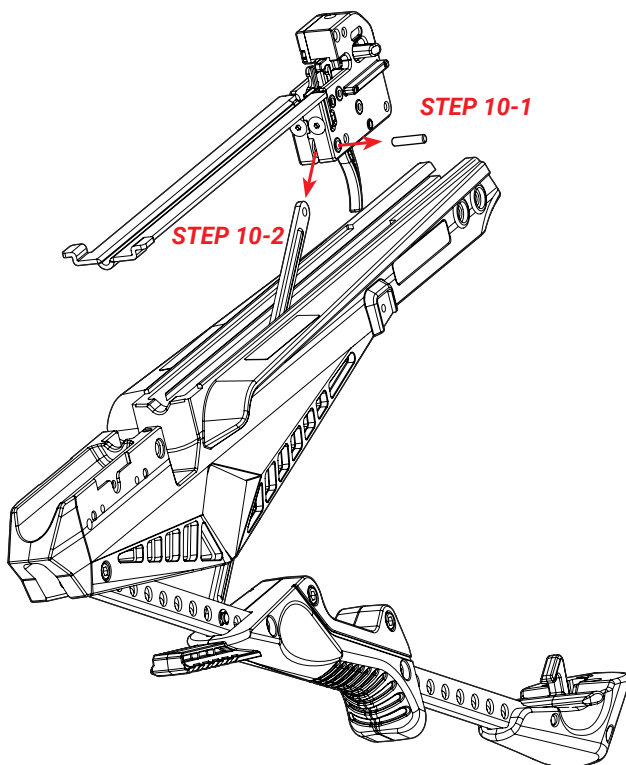


10

Step 10-1: Remove the pin from the original trigger assembly.

Step 10-2: Detach the lever linkage from the original trigger assembly.

Note: The pin may occasionally come loose. Keep all parts properly stored to ensure smooth reassembly.



11

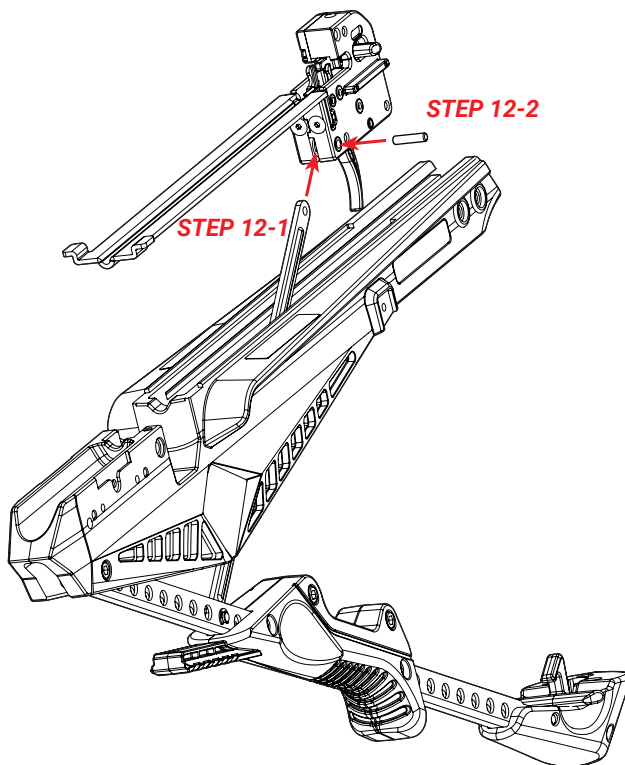
Take out the new trigger from the ADDER TX accessory kit.

**12**

Step 12-1: Take the new trigger and insert the lever linkage into the trigger slot, aligning it with the pin hole.

Step 12-2: Then reinsert the pin to secure it in place.

Note: The pin may occasionally come loose. If this occurs, simply reinstall it.



13

To install the Trigger Mechanism into the sliding groove of the Crossbow Body, follow these steps :

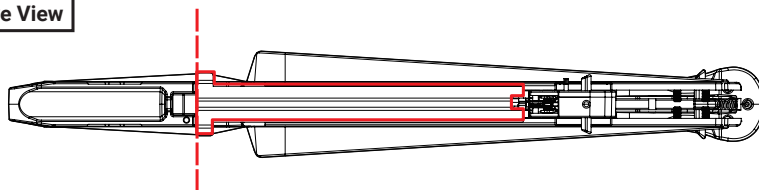
Step 13-1: Open the sliding groove of the end of Crossbow Body by slightly pulling it apart. Position the Trigger Mechanism from above and align it with the sliding groove.

Step 13-2: Carefully insert the Trigger Mechanism into the sliding groove, ensuring a proper fit.

Note: Pay attention to the orientation of the flight track, and align its front side with the corresponding recess on the Crossbow Body. While inserting the Trigger Mechanism, make sure not to tilt it at too steep an angle.

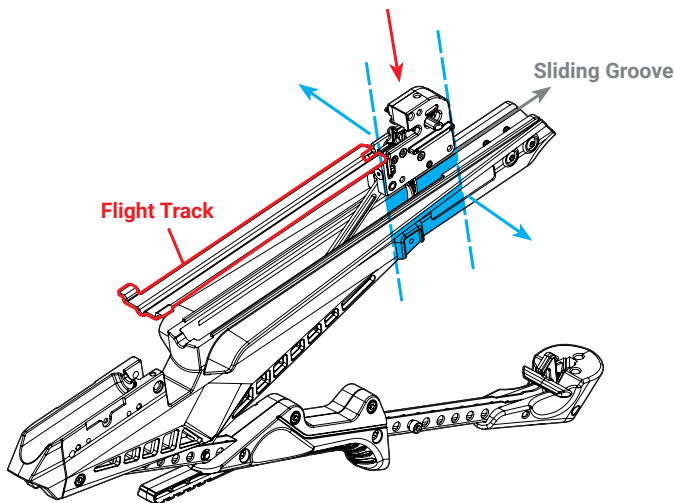
STEP 13-1

Above View

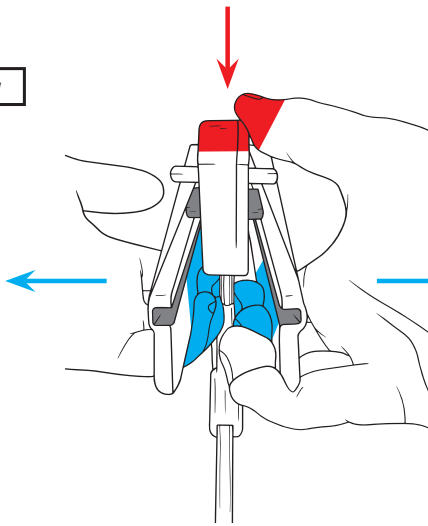


STEP 13-2

Side View



Back view



Note:

- When installing the flight track, it is recommended to align the front of the seat within the recess.
- Avoid excessively tilting the unit and be mindful of the sharp edges of the sliding groove.

14

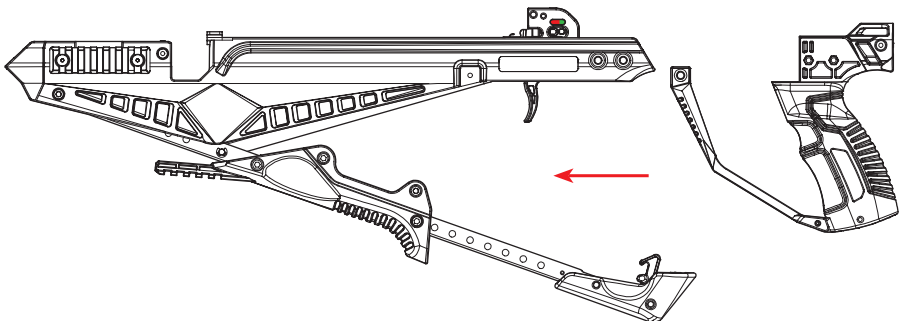
To assemble the grip, follow these steps:

Step 14-1: Use the new screws from the accessory bag. Insert the grip into the rear end of the crossbow body, aligning the holes properly.

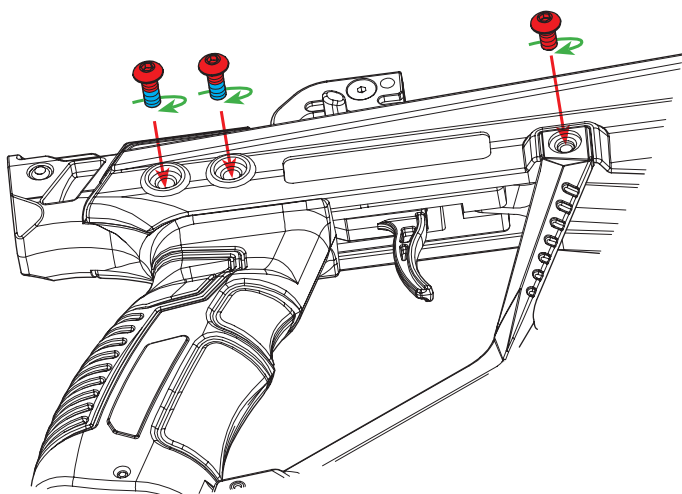
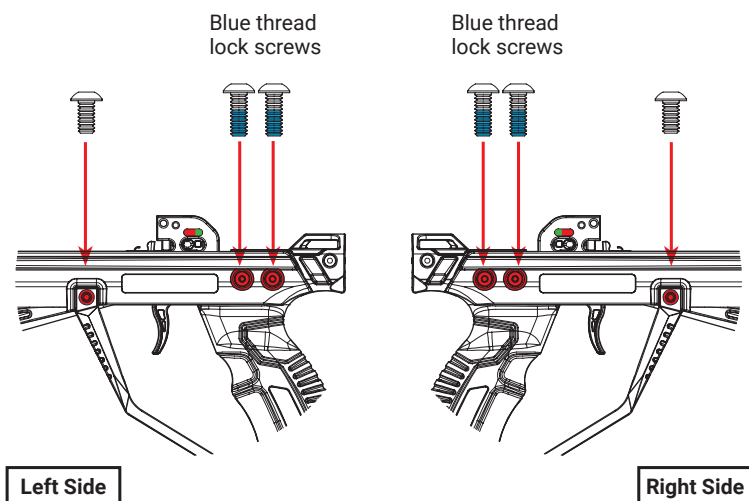
Step 14-2: Take the two hex screws without thread lock and fasten them securely at the rear end of the body and on both sides of the trigger guard with the 1/8" Hex Key provided in the accessory kit. Next, take the four screws with blue thread lock and use them to secure the grip in place. Ensure that each screw is installed in its designated hole to avoid assembly errors.

Note: Turn the Hex Key clockwise (to the right) to tighten the screws.

STEP 14-1

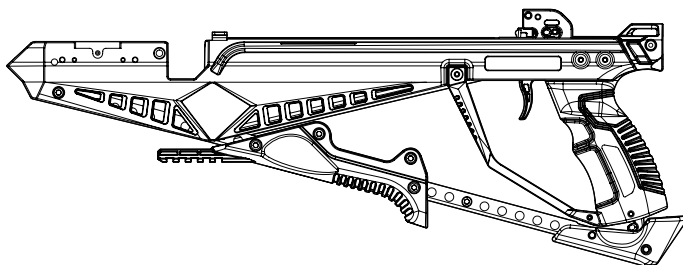


STEP 14-2



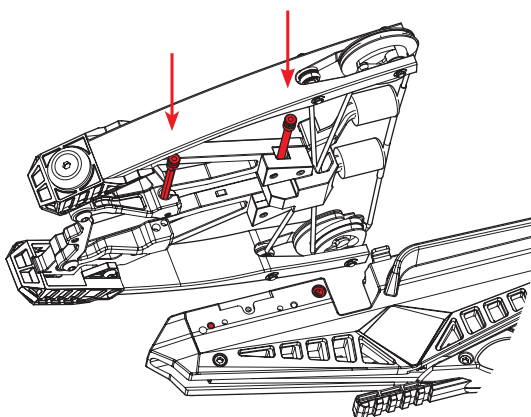
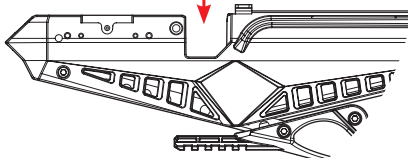
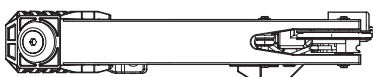
Note: Pay close attention to the positioning of the blue thread lock screws to prevent incorrect assembly.

After completing the trigger assembly, continue with the assembly of the ADDER TX.



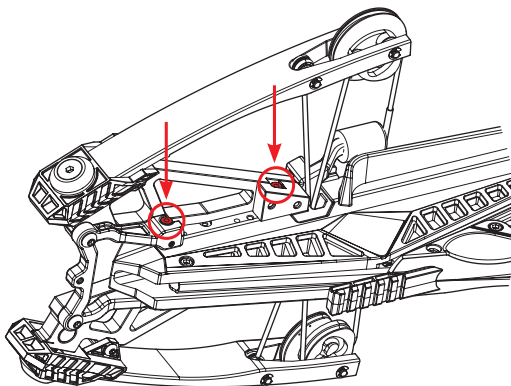
15

Install the ADDER TX Compound Limbset using the two Quick Release Pins attached to the front end. Slide the unit into the limb slot and press it firmly into place.



16

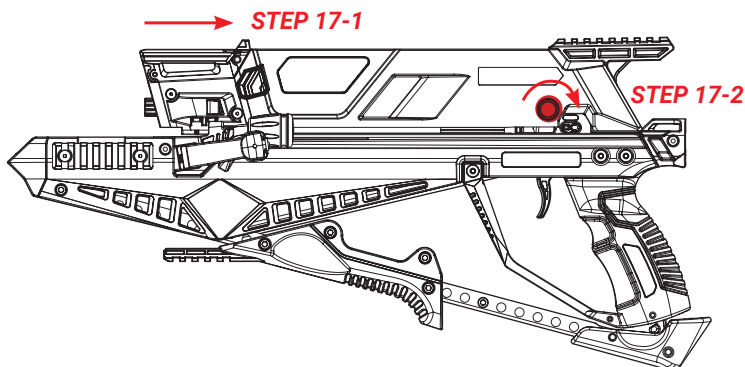
Only when pins are flush with the riser is the unit safely secured. The first time you install your new ADDER TX there may be a bit of tightness in the fit. Never use excessive force to push the pins through.

**17**

Reinstall the Magazine.

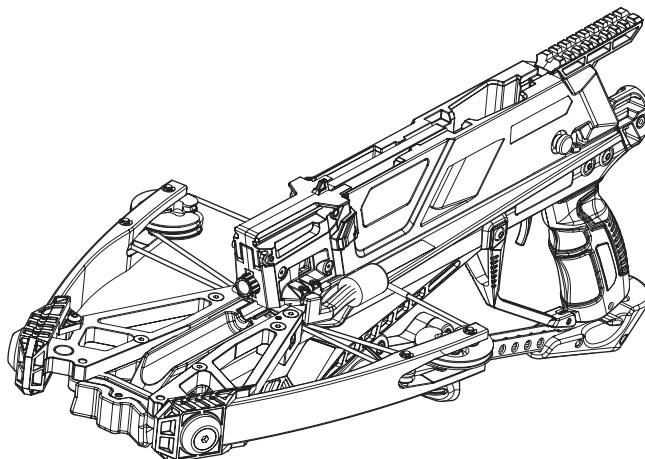
Step 17-1: The flat pins should easily slide under the yoke bracket giving the magazine a solid connection .

Step 17-2: If Step 17-1 has been performed correctly, the hole at the rear end of the magazine should align perfectly with the threaded hole in the crossbow body, allowing the Locking Knob to be inserted and tightened to complete the assembly.



18

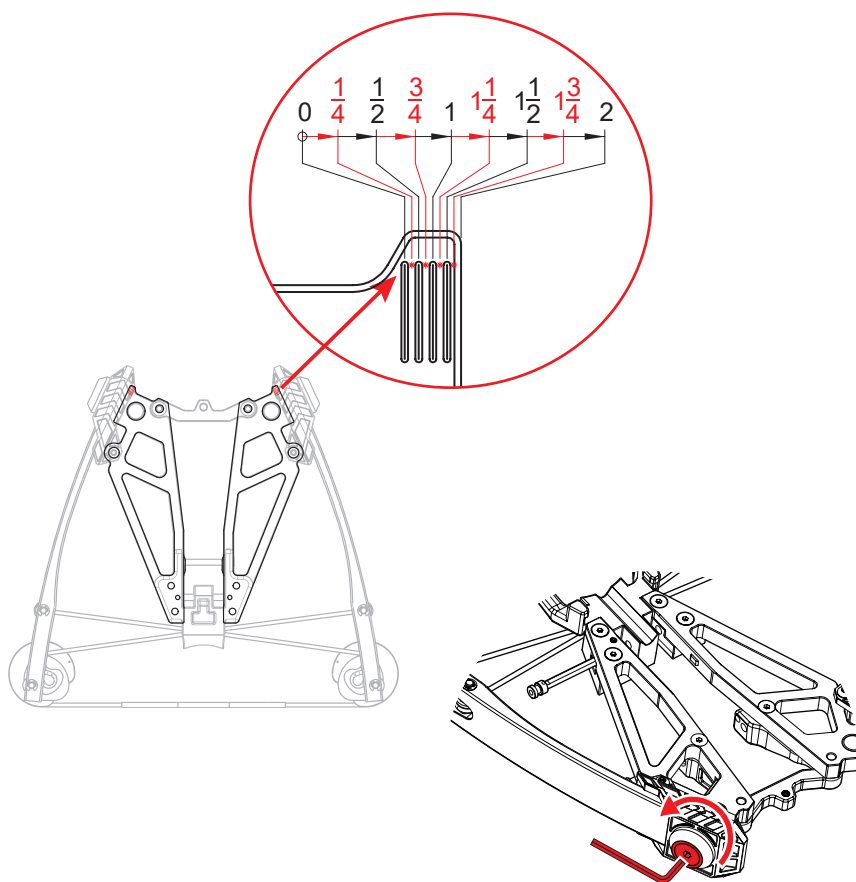
Assembly completed. You are now ready to shoot with the ADDER TX.



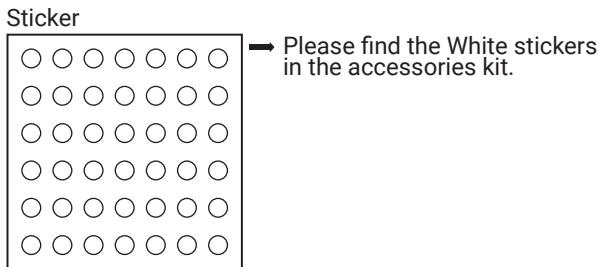
DRAW WEIGHT ADJUSTMENT VERIFICATION

The draw weight can easily be adjusted by backing the Limb Bolts out (counterclockwise) on the left and right end of the Riser. Always evenly back off or tighten limb bolts in quarter turns on each side. Be sure the Limb Bolts are turned an equal number of turns to maintain proper adjustment.

⚠ WARNING DO NOT UNSCREW THE LIMB BOLTS UNEVENLY OR MORE THAN TWO TURNS, OTHERWISE SEVERE INJURY MAY OCCUR.



With the limb bolts tightened down completely place the sticker at the 12 o'clock position on the limb bolt. These stickers will give you a clear indication of how far you have backed off the limb bolt. Always back off or tighten limb bolts in quarter turns. Whenever readjusting the limb bolts always apply new stickers.



Draw Weight (0)	Limb Bolt Back-off-# of Turns				
	0	1/4	1/2	3/4	1
130	130	126	122	118	114
	1 1/4	1 1/2	1 3/4	2	
	110	107	103	99	

MAINTENANCE AND CARE

1. Apply Lubewax to the string and cables liberally. Do not over lubricate the center section of the crossbow string as this may cause a buildup of lubricant in the trigger mechanism. Keep the flight track and the string serving waxed to reduce friction. Always check and replace frayed or worn strings and cables.
2. Periodically put a few drops of high quality machine oil in the trigger mechanism.
3. Always store your crossbow in a cool, dry place. 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 vent.
4. Before each shooting session, examine all bolts (screws), pins and fasteners. Tighten all bolts (screws) as needed.
5. Be sure to have your crossbow examined annually by a qualified crossbow dealer.
6. Do not leave your crossbow cocked for extended periods of time or overnight.

WARRANTY INFORMATION

Subject to the terms, conditions and limitations outlined below, we guarantee 1 year warranty service to the original purchaser for our crossbows against defects in materials and workmanship that adversely affect the crossbow's operation.

However, crossbow strings, cosmetic appearance and component parts and those which are subject to a variety of conditions in normal use and considered to be consumable parts will be excluded.

This limited warranty will be void if the following occur :

- **Damage is caused by dry-firing or by using underweight arrows/bolts.**
- **The instructions in the owner's manual are not followed.**
- **The crossbow or any of its parts or accessories are altered from their original state.**
- **The crossbow has not been maintained properly.**
- **Failure or damage was caused by improper calibration or by abnormal use.**

Please carefully package and return the product, transportation charges pre-paid to your dealers or distributors. All accessory items must be removed from the crossbow prior to shipping. If after examining a returned product, the dealer determines that the product is not subject to this limited warranty, product repairs can be provided at then-current repair rates informed by the dealer.

**Warranty Registration must be mailed within 10
days of purchase to validate the warranty.**

Dealer's contact information

Model Number/Name

Date of Purchase

Purchaser's Name

Address

City

State

Zip Code

Email

Phone Number



Visit Our Website at www.ek-archery.com

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