

HORTON CROSSBOW INNOVATIONS™

LEGEND ULTRA LITE™ ASSEMBLY INSTRUCTIONS

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

THIS MANUAL COVERS:

LEGEND
ULTRA LITE



HORTON
CROSSBOW INNOVATIONS

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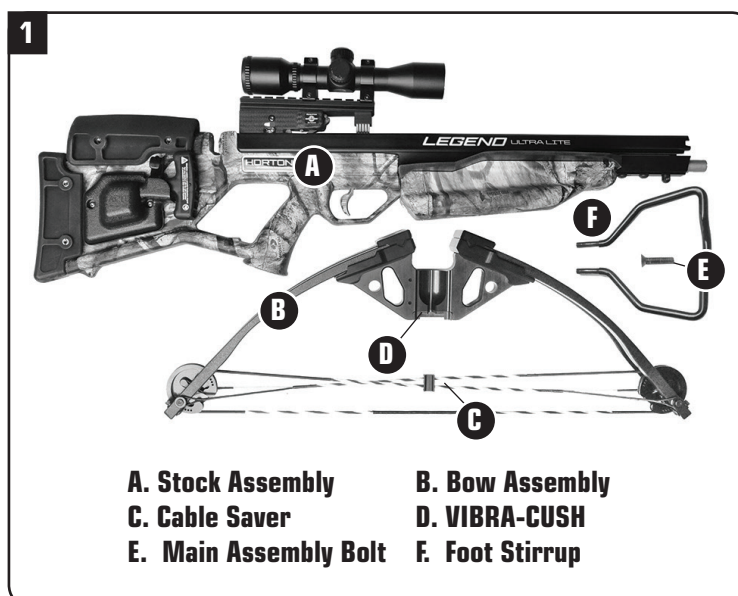
www.hortoncrossbows.com

LEGEND ULTRA LITE ASSEMBLY

The Legend Ultra Lite is easy to assemble. Basically, all you have to do is bolt the bow assembly to the stock assembly, install the foot stirrup and you are ready to shoot. Once assembled correctly, your crossbow is pre-sighted for 20-yards.

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

- One (1) complete stock assembly
- One (1) complete bow assembly
- One (1) cable saver
- One (1) VIBRA-CUSH™ (pre-installed at factory)
- One (1) foot stirrup
- One (1) owner's manual pack with warranty card, main assembly bolt, sample tube of oil and tools.



A. Stock Assembly

B. Bow Assembly

C. Cable Saver

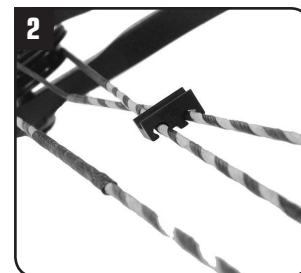
D. VIBRA-CUSH

E. Main Assembly Bolt

F. Foot Stirrup

ASSEMBLY STEPS

1. Attach the cable saver to the cables. **Note:** Do not attach the bow assembly to the stock assembly without the cable saver – cable damage will occur and the crossbow will be unsafe to shoot.
 - When viewing the cable saver from the side, with its “dish” (concave surface) facing up, notice that one of the two cable notches is positioned deeper into the cable saver (closer to the “dish”) than the other.
 - Because the cables cross, one rests on top of the other. The top cable goes into the deeper of the two cable saver notches and the bottom cable goes into the shallower cable saver notch (photo 2), allowing the cable saver to maintain a relatively level position on top of the two cables.

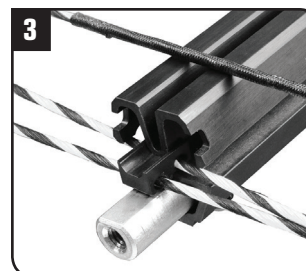


Make certain your cables go into the correct slots in your cable saver.

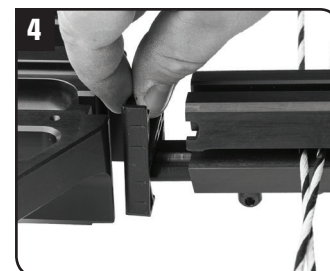
- Before sliding the cable saver into the barrel's cable slot, apply a small amount of wax, such as Horton's String Wax and Conditioner (HCA-11015-H), to the “dish” (concave surface) or top of the cable saver (the part that comes in contact with the underside of the barrel's arrow flight groove).

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

- Position the bowstring on top of the barrel's flight deck while you insert the cable saver (concave side up) and the cables into the barrel's cable slot. The cable saver's concave groove (“dish”) should mate with the underside of the barrel's arrow flight groove (photo 3).
- Ensure that the pre-installed VIBRA-CUSH is in place with its cutout side facing the barrel (photo 4).
- Pull the bow assembly toward the trigger assembly until the riser location rod, protruding from the front of the barrel and through the VIBRA-CUSH, mates with the hole in the riser. Do not twist or rock the bow assembly to the extent that you rub the cables along the slightly sharp edges of the barrel's cable slot. You do not want to cut any of your cable strands. Pulling up and back slightly on the bowstring may assist you in seating the bow assembly onto the stock assembly (photo 5).
- After you make sure the main assembly bolt's locking setscrew is loosened, insert the main assembly bolt. You may need to use your free hand to lift the string off the barrel (sometimes as much as an inch) until the hole in the end of the riser rod and the assembly bolt hole in the riser are perfectly aligned. Then, finger-tighten the bolt at least a few turns.
- Finish tightening the bolt using your Allen wrench while continuing to lift the string off the barrel (photo 6). If the alignment is correct, you will have no difficulty. Do not use a cheater-bar when tightening the main assembly bolt.



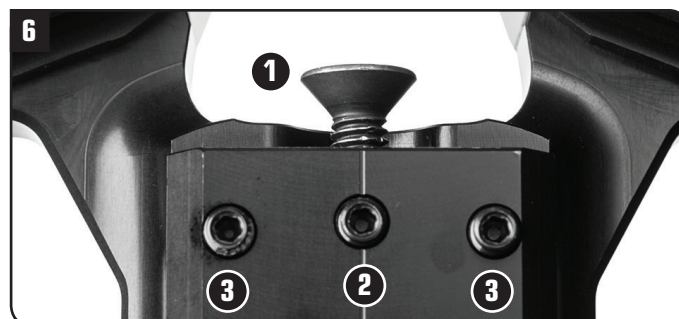
The bow string sits on the barrel's flight deck while the cable saver and cables slide into the cable slot.



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



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



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

Note: To avoid excessive serving wear, you may need to tighten the bolt a bit more until you relieve the excessive string pressure. If the main assembly bolt is not tight enough, there will be excess serving wear on the string. You cannot tighten the main assembly bolt enough by hand to break it!

- Insert the foot stirrup into the two receiving holes located at the front of the riser. 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 7).

- You are now ready to test-fire your crossbow and fine-tune your sights (See appropriate Cocking, Loading & Sighting sections in the General Owner’s Instruction Manual).



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

QUIVER MOUNTING

1. The 3-Arrow Instant Detach Quiver Kit contains the following parts (photo 1):

- ONE (1) Quiver
- ONE (1) Quick disconnect (male) attachment
- TWO (2) 3/4" oval counter-sink Phillips screws
- ONE (1) Rubber hose (quiver hanger)
- TWO (2) Hose plugs
- ONE (1) Quick disconnect (female) attachment with lever
- TWO (2) Phillips pan-head machine screws
- ONE (1) Quiver mounting bracket with sling stud
- TWO (2) 7/16" Nylock nuts
- TWO (2) 1/4 - 20 x 3/4" Pan-head screws

2. Attach the rubber hose to the quiver cup. First, from the bottom of the quiver’s cup, insert both ends of the rubber hose approximately two-inches into each hole and insert a hose plug into each end. Then, pull the hose back toward the bottom of the quiver cup and seat the hose plugged ends into the counter-sunk holes (photo 2).

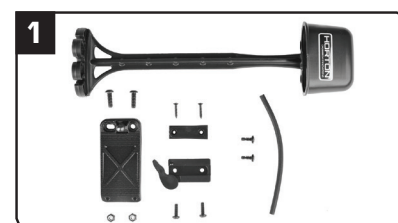
Note: Once inserted, the hose plugs cannot be removed.

3. Position the quick disconnect (male) attachment to the backside of the quiver post, over the holes closest to the quiver cup. Insert the 3/4" oval counter-sink Phillips screws and tighten (photo 3).

4. Remove the front sling stud and the 1/4 - 20 x 3/8" pan-head screw directly below it, from the bottom of the barrel (photo 4). **Note:** Use a 5/32" Allen wrench to remove the barrel screw.

5. Place the quiver’s mounting bracket over the two holes you just removed the sling stud and pan-head screw from. Align the mounting bracket either facing the left or right side of the crossbow, based on personal preference.

- Insert and tighten the two 1/4 - 20 x 3/4" Pan-head screws into the same holes you removed the sling stud and barrel screw from (photo 5). Use a 5/32" Allen wrench to tighten.



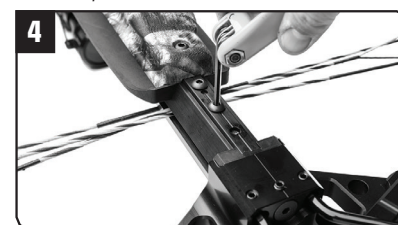
3-Arrow Instant Detach Quiver Mounting Kit



Attach rubber hose to quiver cup.



Attach quick detach (male) attachment.

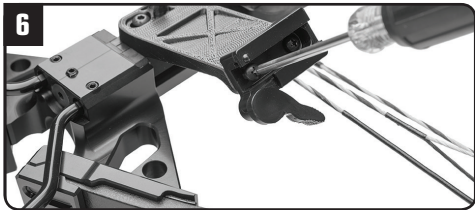


Remove sling stud and 3/8" barrel screw.



Place the quiver bracket assembly over the two barrel holes and insert 3/4" screws.

6. Install the quick disconnect (female) attachment with lever on the quiver mounting bracket using the two Phillips pan-head machine screws and the 7/16" Nylock nuts. Align the open end with the lever facing the front of the crossbow (photo 6).
7. Insert the quiver with male attachment into the quick disconnect (female) attachment with lever, and lock into place (photo 7).



Install the quick disconnect (female) attachment.



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

ADJUST CHEEK PIECE & BUTT PLATE

The Legend Ultra Lite is equipped with a rubber cheek piece that adjusts to any of seven fixed positions to create perfect eye-level alignment, and a butt plate that adjusts to one of three fixed positions to match up perfectly with the shooter's length-of-pull.

Cheek Piece Adjustment:

1. To adjust the cheek piece, remove both 3/16" x 1/2" shoulder screws using a 3/32" Allen wrench.
2. Slide the cheek piece over the desired alignment holes to create your perfect eye-level alignment (photo 1).
3. Replace the screws once you have the proper adjustment for your shooting needs.



Slide cheek piece over desired alignment holes.

Butt Plate Adjustment:

1. To adjust the rubber butt plate, remove both 3/16" x 1/2" shoulder screws using a 3/32" Allen wrench.
2. Slide the butt plate into one of three fixed positions for your perfect length-of-pull (photo 2).
3. Replace the screws once you have the proper length.



Slide butt plate into one of three positions.

INTEGRATED SAFETY WINGS & FORE-GRIP

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

The Legend Ultra Lite comes standard with rubber safety wings which are designed to help keep the shooter's fore-grip fingers and thumb safely below the flight deck while shooting. The wings are bedded between the fore-grip and barrel. If for any reason they are lost or damaged, contact Horton for replacement immediately at www.hortoncrossbows.com or 330-628-9245.



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



Proper hand position.

STRING & CABLE SPECIFICATIONS

Part Number	Length	Materials	Twists
String: HCA-11915	String: 34.0625"	String: DynaFLIGHT 97, 28-strands	String: Pre-twisted
Cables: HCA-13015	Cables: 23.0625", 5" hard yokes	Cables: DynaFLIGHT 97, 28-strands	Cables: Pre-twisted