

ENABLING TECHNOLOGIES



Congratulations on the purchase of your
NEXGen Fixed Outriggers!

Owner's Manual

Proudly designed & made in Colorado, USA

Enabling Technologies, LLC

www.enablingtech.com

** Failure to comply with highlighted warnings may lead to premature failure of parts or cause serious injury for the skier, instructor or ski buddy.*

We recommend keeping this pamphlet readily accessible for all skiers and instructors using the NEXGen Fixed Outriggers.

Upgrade & Install Your Mechanism Plate & Channels (if necessary)

NEXGen Fixed Outriggers require a version M2.4 or newer Mechanism Plate and Channels. Most Bi-Skis shipped since 12/15/17 have this setup. If your mechanism does not, a Mechanism Retrofit Kit can be purchased separately. The Retrofit Kit should work for all Mechanisms sold within the last 6 years. If you have an older mechanism or questions in regards to compatibility please contact us.

To install the Mechanism Retrofit Kit, remove the old Front and Rear Channels. Use a Philips screwdriver and 3/8" open end wrench to loosen the screws and nuts. Loosen by rotating the wrench and holding the Philips screwdriver static to prevent stripping. The front pair of nuts for the Rear Channel will be underneath the Rubber. To gain access to these nuts use a flathead screwdriver, as shown below.



Next, remove the old Mechanism Plate from the Mechanism Tower. All hardware can be discarded. Inspect the Rubber. If it is worn and/or cracked, we recommend replacing it.

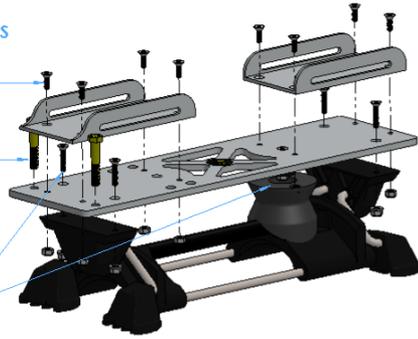
To install the Retrofit Kit, insert two new 10-24 Nylocks into the counterbores within the rubber. Next, align the new Mechanism Plate over the Rubber and Mechanism Towers. The plate should be orientated with the Rubber towards the rear of the Mechanism (as shown on the next page). Fasten the Mechanism Plate to the Tower with the four longer 10-24 Flat Head Screws, #10 washers and 10-24 nylocks.

Step 4:
(8) 10-24x0.625" Flat Head Screws SS
(8) 10-24 Nylocks
* 2 already inserted in Rubber

Step 3:
(2) 5/16-18 Hex Bolts
* For alignment only

Step 2:
(4) 10-24x1.25" Flat Head Screws SS
(4) #10 USS Washers SS
(4) 10-24 Nylocks

Step 1:
(2) 10-24 Nylocks in Rubber

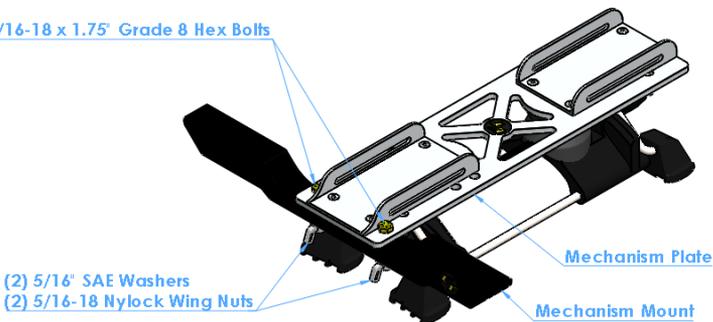


To mount the NEXGen Fixed Outriggers to the Mechanism, place two 5/16" Hex Bolts in the frontmost holes to align the Front Channel. It is imperative to tighten the Front Channel with these bolts in place. Fasten the Front Channel to the Mechanism Plate with four of the shorter 10-24 Flat Head Screws and 10-24 Nylocks. Fasten the Rear Channel to the Mechanism Plate using the remaining four short 10-24 Flat Head Screws and 10-24 Nylocks. Use the flathead screwdriver trick again to tighten the front pair of screws for the Rear Channel.

Fasten The Mechanism Mount To The Mechanism Plate

Slide the two 5/16 Hex Bolts into the holes at the front of the Mechanism Plate and push the Mechanism Mount onto the bolts. Fasten the Mount to the Plate using the provided washers and nylock wing nuts. Ensure the wing nuts are sufficiently tight.

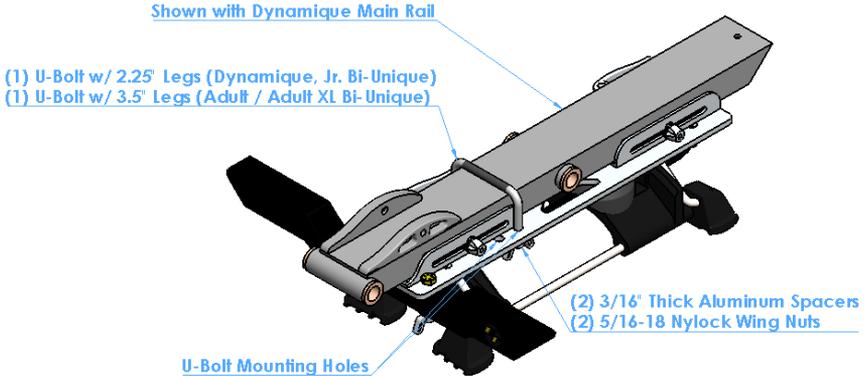
(2) 5/16-18 x 1.75" Grade 8 Hex Bolts



** We recommend removing the Mechanism Mount while skiing without NEXGen Fixed Outriggers. The ends may dig into the snow while turning.*

Secure The Frame To The Mechanism Using The Appropriate U-Bolt

For the Dynamique and Junior Bi-Unique (one Main Rail thick) use the U-Bolt with shorter legs. For the Adult / XL Bi-Unique (two Main Rails thick) use the U-Bolt with longer legs.



The Mechanism Plate has 4 U-Bolt mounting holes. For the Dynamique, the U-bolt must always be installed in the rearmost pair of holes.

With the Bi-Unique, the U-bolt can usually be used in the rearmost pair of holes. When the U-Bolt lands under the Bi-Unique skid plate or on the angle cut of the main rail, use the pair of holes located 1" forward.

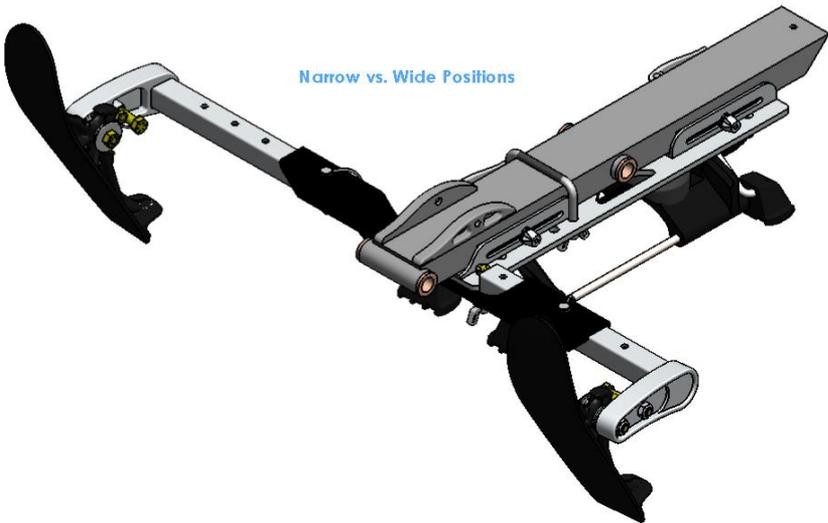
To secure the Frame to the Mechanism push the appropriate length U-Bolt over the Main Rail and through the proper mounting holes. The legs of the U-Bolt may need bending to clear the Front Channel. On the underside of the Mechanism Plate fasten the U-Bolt using the provided 3/16" thick spacers and nylock wing nuts. Ensure the wing nuts are sufficiently tight.

If while skiing you want to adjust the fore-aft ski position, loosen the U-Bolt, reposition the ski along the channel and then retighten.

** Never use NEXGen Fixed Outriggers without the U-Bolt. It will bend the Mechanism Channels and they will require replacing.*

Choose The Appropriate Width And Use For The Outriggers

As a rule of thumb we recommend setting the outrigger width to a teeter point that the skier can control. An instructor or ski buddy is required to help tether for speed control. Skiers with high level disabilities and novice tetherers will need a wide outrigger position to ensure enough stability. Narrow positions allow for sharper turns for skiers with higher ability, advanced tetherer's and navigating narrower terrain.

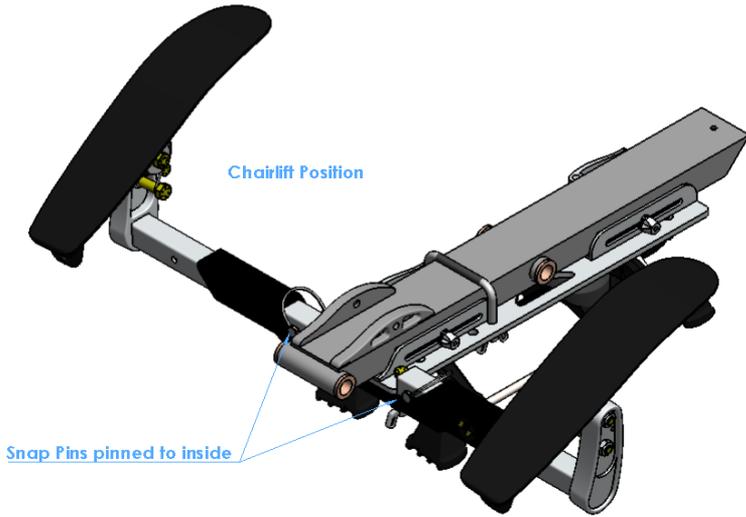


** If narrow terrain or a busy section of trail requires you to bucket assist or "falling leaf" remove the NEXGen Fixed Outriggers from the Mechanism Mount. NEXGen Fixed Outriggers are designed for skiing forwards. NEVER ski backwards with NEXGen Fixed Outriggers in Mechanism Mount. Be aware to leave adequate room when stopping near the trail edge so that pulling backwards isn't necessary to start skiing again.*

The NEXGen Fixed Outriggers come standard with 5 adjustment holes. They can be cut down to 3 or 4 holes wide if the skier or program finds a narrower position desirable. Please see last section for more details.

Loading The Chairlift

Remove the Left and Right NEXGen Fixed Outriggers from the Mechanism Mount before loading the chairlift. They can be rotated 90 degrees and re-inserted into the Mechanism Mount. Secure the snap pin inside the gap through the innermost holes of the NEXGen Fixed Outriggers.



** Before loading a new chairlift ensure the chairlift height clears the rotated Ski Tips. If too low they could catch.*

** Do not load the chairlift with the NEXGen Fixed Outriggers in the ski position. The tail of the ski tips may catch when pulling back onto the chairlift.*

Maintain Your NEXGen Fixed Outriggers

After each use inspect the NEXGen Fixed Outriggers for any signs of wear. The ski tip should rotate smoothly and should have minimal side to side slop. Immediately replace any parts that wear or break.

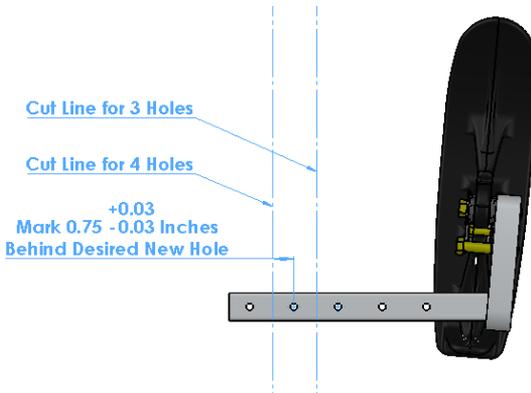
** Do NOT use the NEXGen Fixed Outriggers without a spring installed at the Tips. This could create forces higher than what the NEXGen Fixed Outriggers and/or Bi-Ski frame are engineered to handle.*

Cutting Your NEXGen Fixed Outriggers To Allow For Narrower Widths

NEXGen Fixed Outriggers come standard with 5 adjustment holes and can be cut down to 3 or 4 holes for a narrower position. We caution that the 3 and 4 hole positions of the NEXGen Fixed Outriggers are less stable.

To cut down the NEXGen Fixed Outriggers: mark 3/4" behind the new narrow hole. We recommend using a drop saw with a new metal cutting blade to ensure a square and accurate cut. After cutting use a deburring tool, belt sander or file to clean up the edge so it will slide smoothly into the Mechanism Mount.

With the Mechanism Mount installed to the Mechanism Plate, push the NEXGen Fixed Outrigger Tube in and check that the Snap Pin fits in the new hole. Next, take out Tube, rotate 90 degrees and check the chairlift position. If necessary, trim the Tube end until the Snap Pin fits in both positions. Remember, measure twice, cut once.



Contact us with any questions, advice or concerns

It is Enabling Technologies' goal for all skiers to enjoy a safe experience on the ski slopes. Please feel free to reach out to us with any questions regarding use, advice, concerns or maintenance.

Enjoy your NEXGen Fixed Outriggers!

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