Alien Flier Zip Line Products

Installation/Owner's Manual

{XTREME BACKYARD ADVENTURES}

Table of Contents

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SAFETY – PLEASE READ CAREFULLY

DO NOT USE ALIEN FLIER ZIP LINE PRODUCTS UNTIL YOU HAVE READ THE SAFETY WARNINGS BELOW

Assumption of Risk

Zip line construction and use can be dangerous. Ensure you know what you are doing before building or using your Alien Flier Zip Line kit or other Alien Flier LLC products. Alien Flier LLC takes no responsibility for the installation, servicing, maintenance, tree issues, and periodic inspection, related components or of any installed zip line using our products.

No warranty related to Alien Flier Products is expressed or implied by installation tips or by any representative of Alien Flier LLC, including warranties of merchantability or fitness. Ensure you educate yourself on the proper installation, maintenance and use of everything related to your Alien Flier product. **Seek competent local assistance** if you are unsure of how to work with trees, cable installation or maintenance. All information related to Alien Flier products received from any representative, printed, or digital, distributed by Alien Flier LLC is only an opinion and shall not be interpreted as an expert or professional advice. Contact component manufacturer for information about warranty and use of their products

- **A zip line can be very dangerous.**
  Do not use this kit if you do not understand the risk involved in riding a zip line. The cable can hold weights many times that of most riders and is the least part of the system to fail. Pay special attention to your workmanship making the loops and slings for these are the areas where failures are more common to occur.

- **Use under adult supervision only.**
- **Do not mount your zip line to anything other than proper size trees.**
- **Inspect the entire zip line system including the pulley and sling for damage or wear before every use. DO NOT ride a system that is damaged.**
- **Falling x Fast Speeds x Rough Landings (stumps, rocks etc) = Serious injury**
- **Ignoring safety recommendations = Serious injury**
- **Poor installation workmanship = Serious injury**
- **Single riders only! Do not ride double. Never overload the cable. We do not recommend riders over 275 lbs.**
- **Always hold onto the T-bar with both hands. Always ride seated (seat models)**
- **Do not jump off your zip line while you are traveling on it.**
- **Make sure there are no obstructions in the path of the rider.**
- **Do not install a zip line around a high voltage line, over roads or ravines.**
- **Never set the cable rate of descent to unsafe angles or heights.**
- **Always include a safety back up STOP BLOCK in conjunction with all of our models**

Xtreme Zip Line EZ-Up Cable Kit Installation

For the HIGHER END of your Zip Line:

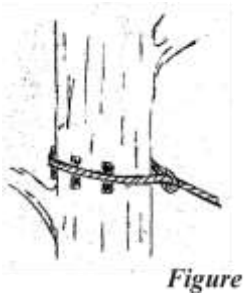


Figure 1.

1. Wrap the cable around the tree by inserting the straight end of the cable through the looped end (fig. 1.). If desired, use our Tree Saver Kit to protect tree.
2. Adjust to the desired height and pull tight enough to hold.

For the LOWER END of your Zip Line:

1. Thread the cable through the cable channel of the Alien Flier Trolley.
2. Install the v-bolt and hardware onto the winch.
    a. **In this order,** place 1 jam nut and 1 washer on to each arm of the v-bolt, as far down as possible
    b. Insert v-bolt through the holes in the winch.
    c. **In this order,** place 1 washer and 1 cap nut on to each arm of the v-bolt.
    d. Tighten all nuts.
3. Install the 2" webbing into the winch as shown (fig.2.), tighten slightly to hold.
4. Secure the felted Tree Pad around the back of your tree at the desired height.
5. Wrap the webbing around the tree on the Tree Pad and slip the winch through the webbing loop, pull to tighten
6. Thread the end of the cable through the v-bolt and clamp as shown using thimble and cable clips (fig. 3).
7. Tighten winch using a crescent wrench until the cable has the desired tension.

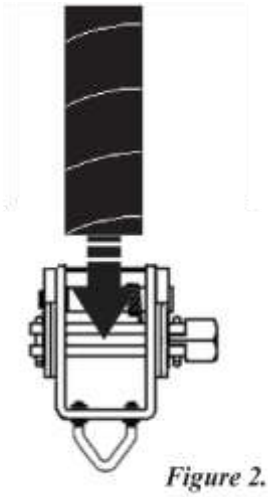


Figure 2.

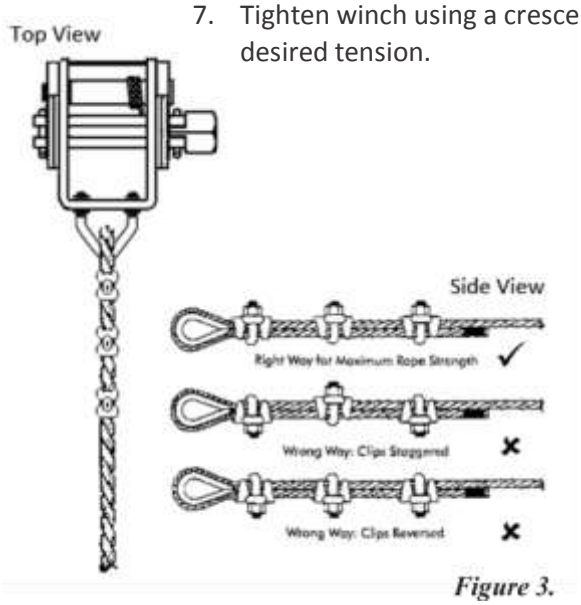


Figure 3.

Safety Link

1. On the LOWER end of your line, wrap the 1" RED Safety Link around your tree, pulling the straight end through the loop.
2. Pull tight.
3. Using 2 half-hitch knots, tie off the Safety Link to the cable thimble-eye at the end of the wire rope (fig. 4.)

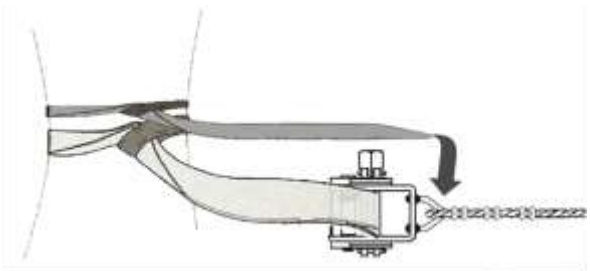


Figure 4.

Never use your zip line without this link in place (must be tight at all time to prevent injury in the event of a winch failure)

Explorer Zip Line EZ-Up Cable Kit Installation

For the HIGHER END of your Zip Line:

1. Wrap the cable around the tree by inserting the straight end of the cable through the looped end (fig. 1.). If desired, use our Tree Saver Kit to protect tree.
2. Adjust to the desired height and pull tight enough to hold.

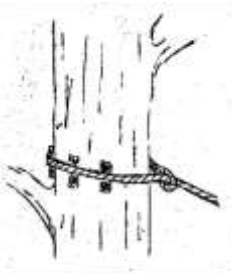


Figure 1.

For the LOWER END of your Zip Line:

1. Thread the cable through the cable channel of the Alien Flier Trolley
2. Secure the felted Tree Pad around the back of your tree at the desired height.
3. Wrap the webbing around the tree on the Tree Pad and slip the flat end through webbing loop, pull to tighten
4. Insert the flat end of the 2" webbing with loop into the ratchet handle, tighten slightly to hold. (fig. 2)
5. Thread the end of the cable through the d-ring and clamp as shown using thimble and cable clips (fig. 3.).
6. Tighten the ratchet handle until the cable has the desired tension.

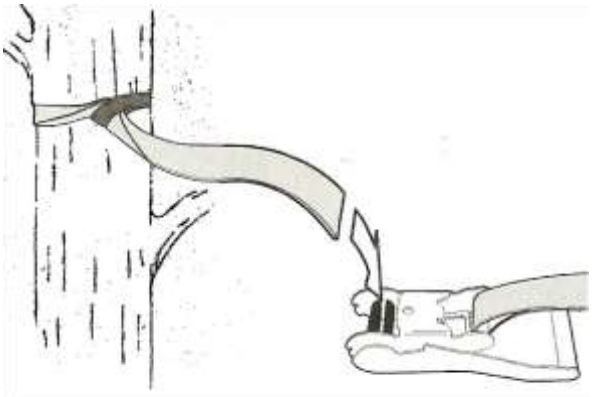


Figure 2.

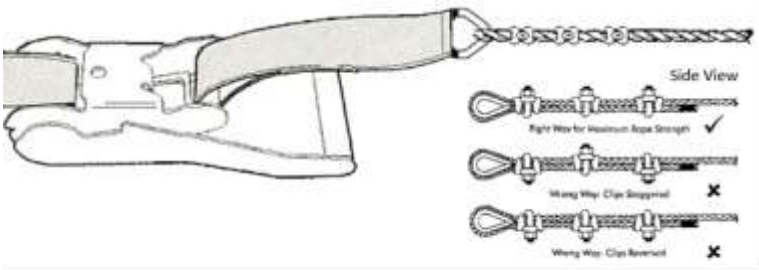


Figure 3.

Safety Link

1. On the LOWER end of your line, wrap the 1" RED Safety Link around your tree, pulling the straight end through the loop.
2. Pull tight.
3. Using 2 half-hitch knots, tie off the Safety Link to the cable thimble-eye at the end of the wire rope (fig. 4.)

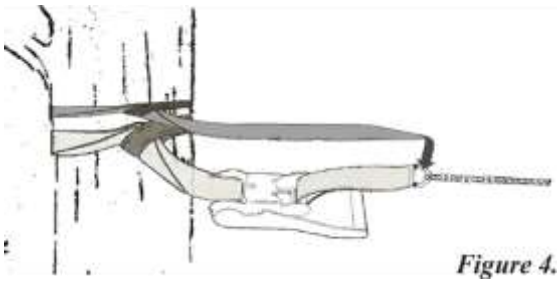


Figure 4.

Never use your zip line without this link in place (must be tight at all time to prevent injury in the event of ratchet failure)

Setting up a Zip Line with a Come-a-long Tensioner

Required Tools & Supplies:

1. **Tools**: Wrench, leather gloves.

2. A 2-4 TON COME ALONG

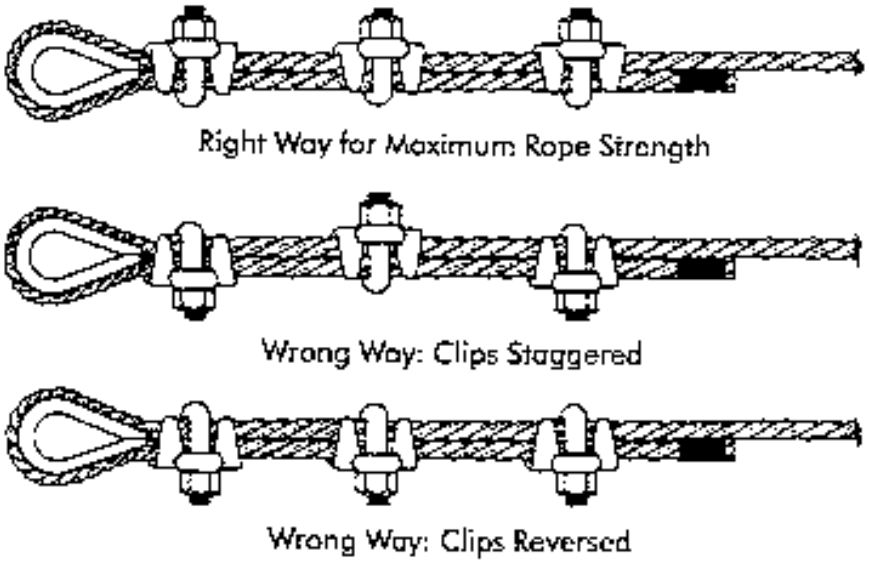
3. Up to (18) 3/16” - 7/16” WIRE ROPE CLAMPS, as appropriate to your wire rope diameter.

4. Up to (6) 3/16” - 7/16” THIMBLES, as appropriate to your wire rope diameter.

5. 7x19 GALVANIZED WIRE ROPE 3/16” - 7/16” DIAMETER WIRE ROPE

1. Determine a distance for your zip line. Typically 100-200ft. Be sure the trees you choose to anchor the zip line are big enough (8-10 inches + recommended) There should be no obstruction in the path of your zip line. You want a straight clear path. Once you have chosen your area and anchor trees, measure the distance from tree to tree to determine your cable length. **Remember to add** enough cable to **loop around both anchor trees, plus an additional 4-6 feet** for the lower end safety link.

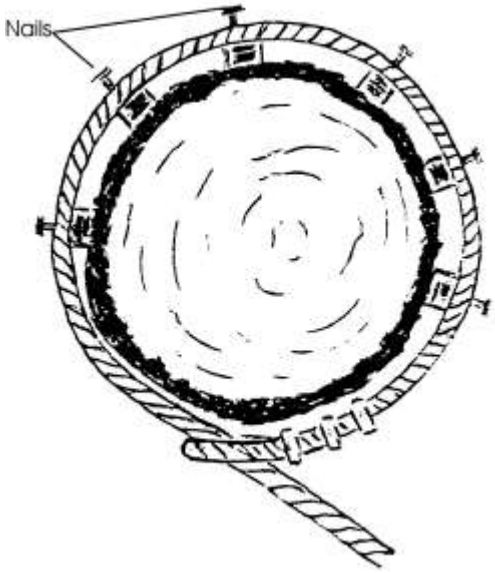
2. Stretch out your cable between the trees to be sure there is enough. If not pre-made on your cable, make a loop on one end as shown below. Be sure to include a thimble. Clamps should be approximately 3 inches apart. This will be the high end of the zip line.

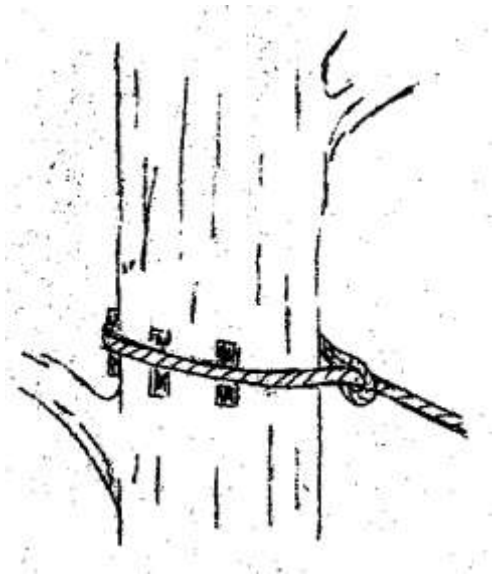


***NOTE**: Use black electrical tape to keep the cable from fraying on the end*

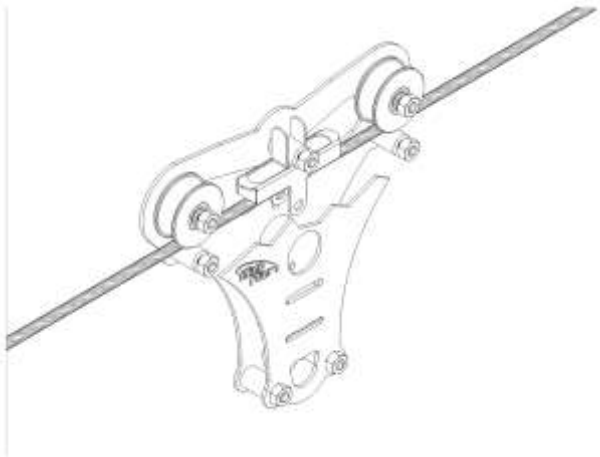
3. Using a ladder, climb the tree you have chosen for the high end of the zip line. A typical height is 8 - 12 feet.

   Nail a series of 2" thick wooden blocks around a tree where the cable will be tightened. DO NOT drive the nails in too far, only enough to hold the blocks temporarily. The nails will be removed later. The blocks will protect the tree from damage by the cable. Wrap your cable around the tree and blocks –rest the cable on the nails to help keep the cable in place. Slip the cable through the loop and position as shown below.





4. **Add the trolley**
   Slip the cable through the pulley as shown below.



Cut-away view showing cable route

5. Determine a length for the lower anchor sling. Cut a piece of extra cable and install a loop on each end. Make one loop slightly bigger than the other. Be sure to use 3 cable camps and a thimble on each loop. (see step 1)

Decide a height for your lower anchor sling. Install wooden blocks and place your sling around the tree as shown below. **NOTE: This is a good time to think about stopping the rider safely*.**

When determining a height for the lower cable anchor, consider that the cable will stretch as the rider travels on it. The lower anchor height determines the riders landing height.

There are 2 easy ways to stop the rider at the end of a zip line. You can adjust the cable by raising or lowering the cable anchor so that the rider will stop by landing on their feet before running out of line, or you can add our recommended **Stop Block.*

6. Attach 2- ton come-a-long to the lower tree anchor loop. Be sure to place the solid end on the tree anchor side and NOT the cable end.

    a. Pull 2-3 feet of cable out of the come-a-long.

    b. Make a loop on the zip line where the come along will connect. Be sure to use a thimble and 3 clamps 3 inches apart (see step 1 for proper loop construction).

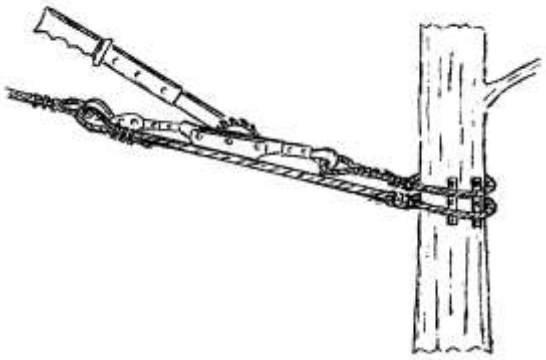
    c. Insert the come along hook into the zip line loop. Tighten the cable by pulling the lever on the come along. Put a fair amount of tension on the cable then check all your cable clamps for tightness.

7. **Safety link**: Do not use your zip line without this link.
The purpose of this link is to maintain tension on the zip line in the event that the come along fails. *A few minutes spent could make the difference between a load of fun and a serious injury*. This link should always be maintained and kept tight. **NEVER use your zip line without this safety link installed.**

    a. Make another sling with a loop on one end (see step 5).

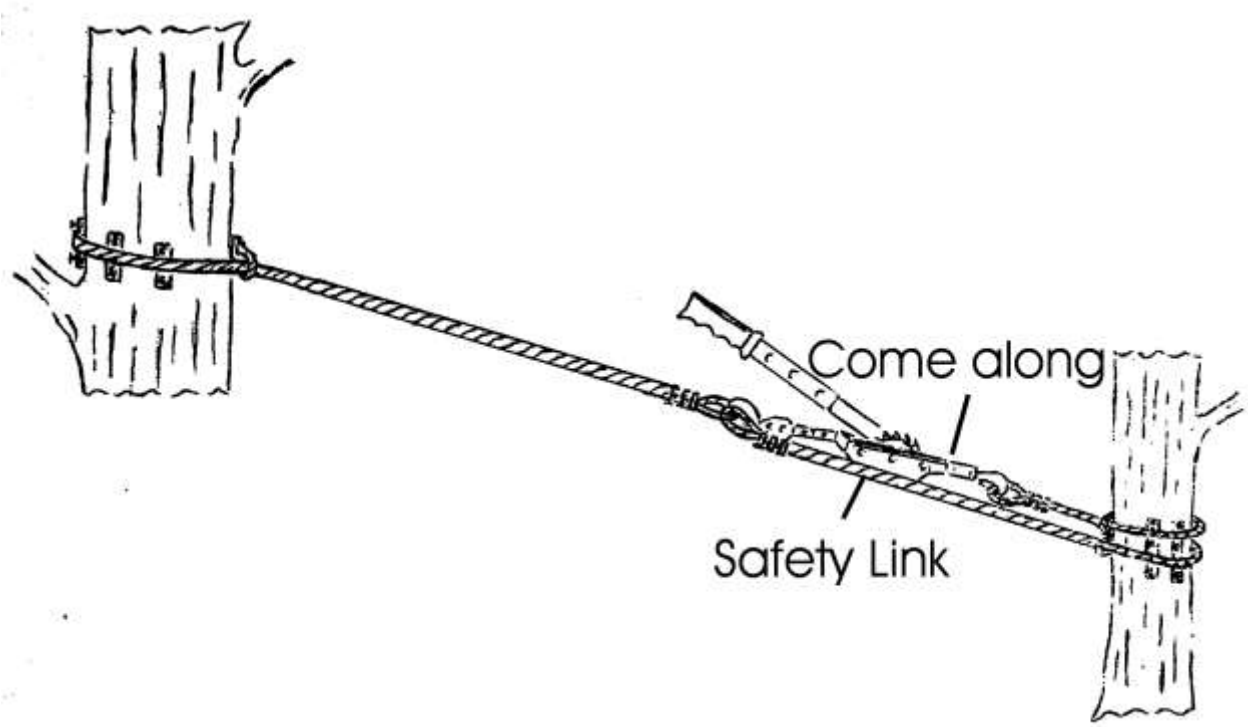
    b. Wrap the safety link around the lower anchor tree just below the anchor sling. Slip the end of the cable through the loop and pull the cable snug around the blocks

    c. Take the end of the cable and run it through the loop on the zip line making a connecting loop. Clamp the loop together as in step 2.



Testing the Safety Link:

Tighten the zip line cable to a good tension. Remove all nails from the blocks/tree. Readjust the safety link so that it is very tight. Once the safety link is ready-loosen the come along until the safety link is holding the zip line tension. Inspect all your clamps and line. After inspection tighten the come along so that it carries approximately ½ of the tension of the zip line load. If later adjustments are made to the zip line always readjust the safety link as well.



NEVER use your zip line if this link is not tight.

Setting up a Zip Line with Turnbuckle Tensioner

Required Tools & Supplies:
leather gloves, wrenches for tightening clamps and turnbuckle, 12" jaw-jaw turnbuckle, approx. 9 cable clamps and 4 thimbles as appropriate for your chosen cable diameter

1. Select the location for your line. Only use trees that are about 8+ inches in diameter (hardwood trees are recommended)

2. Be sure that there are no obstructions, electrical wires, ravines, roads, etc. in the way.

3. Determine distance to be sure that your line will fit between your trees.

4. Create a loop at the end of one side of your cable using thimble and clamps. (*see **illustration on page 4** for correct clamp installation*)

5. Wrap one end around tree and thru loop, approximately 8-12 ft up the tree.

6. Thread line thru the trolley.

7. Move to the next tree.

8. Create a sling (6' of cable with loop at each end), then wrap around the tree approximately 6-8ft high.

9. With the turnbuckle fully extended, attach it to the sling.

10. Attach the end of the line to the turnbuckle using clamps appropriate for your cable size. (*see **illustration on page 4** for correct clamp installation*)

11. Using the wrench, tighten turnbuckle until there is no slack in the line.

SAFETY NOTES
We **highly** recommend the following:

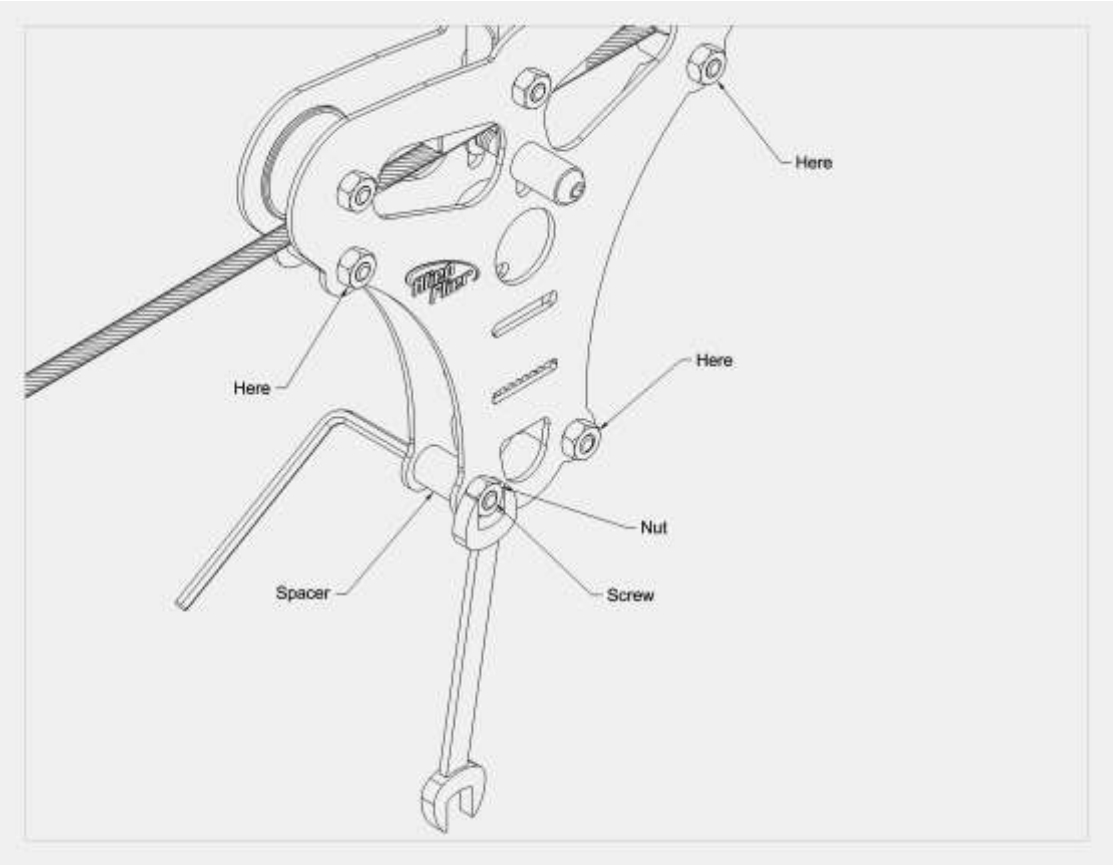
- Install a **Stop Block** at the termination point of all zip lines.
- Install a **Safety Link** (see pgs. 8 & 9) from the lower tree to the looped end of the cable.

Installing your Alien Flier Trolley on an Existing Zip Line

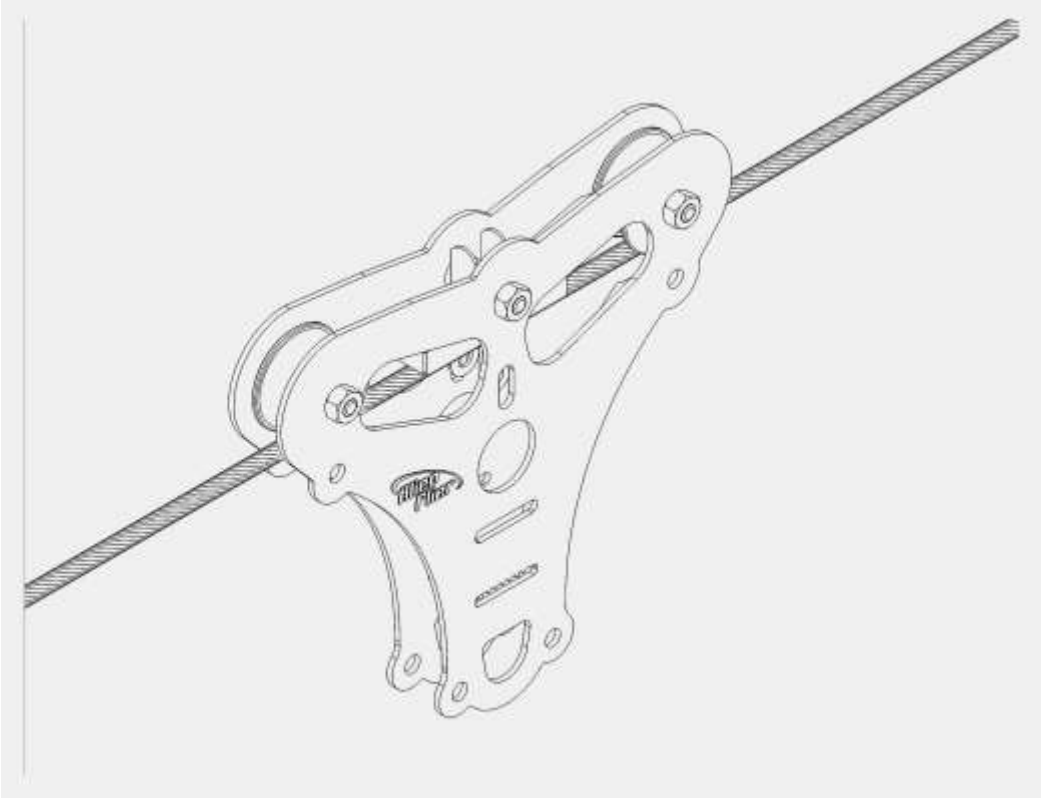
Tools needed:

- **5/32 Allen wrench**
- **7/16 wrench**
- **Philips screw driver**

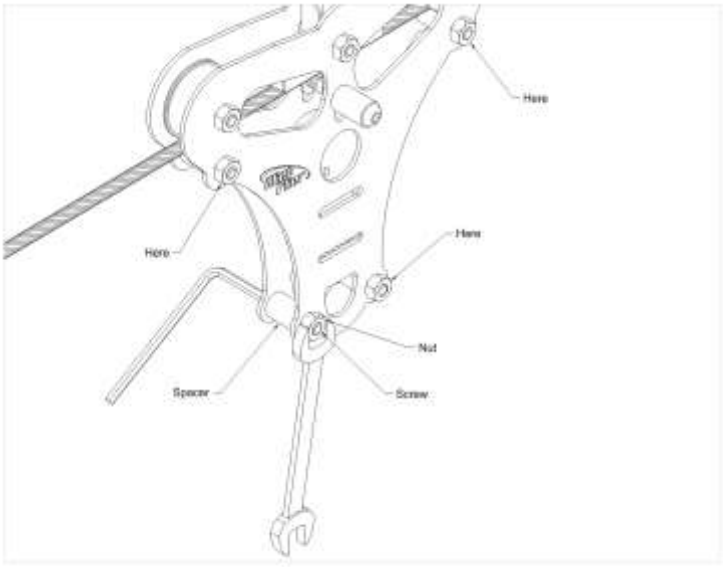
1. Remove the (4) lower screws, nuts and spacers using a 5/32 Allen wrench for the screw head, 7/16 wrench for the nuts. Remove the trigger bolt using Philips screwdriver (units with brakes only).



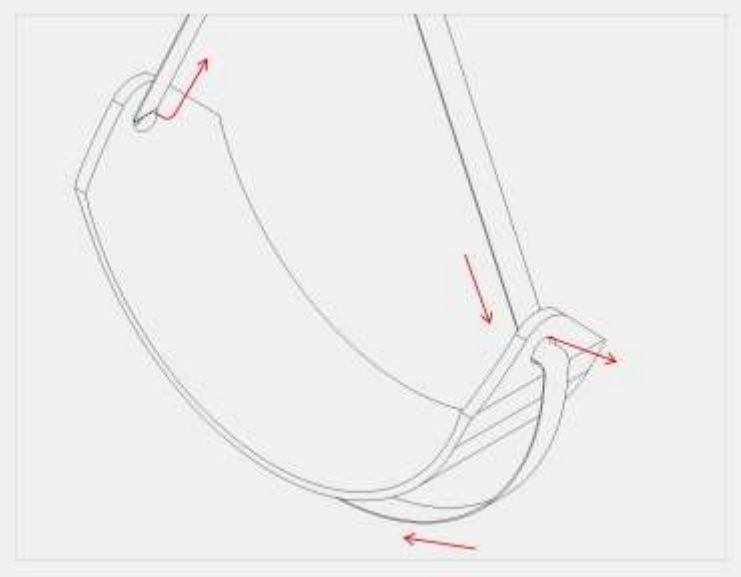
2. Drop the trolley onto the line.



3. Re-install the (4) lower screws, nuts and spacers using a 5/32 Allen wrench for the screw head, 7/16 wrench for the nuts. Replace the trigger bolt using Philips screwdriver (units with brakes only).



Preparing the Flexi-Seat



Thread the webbing through the seat as show. Be sure to have 2 equal lengths when you are done.

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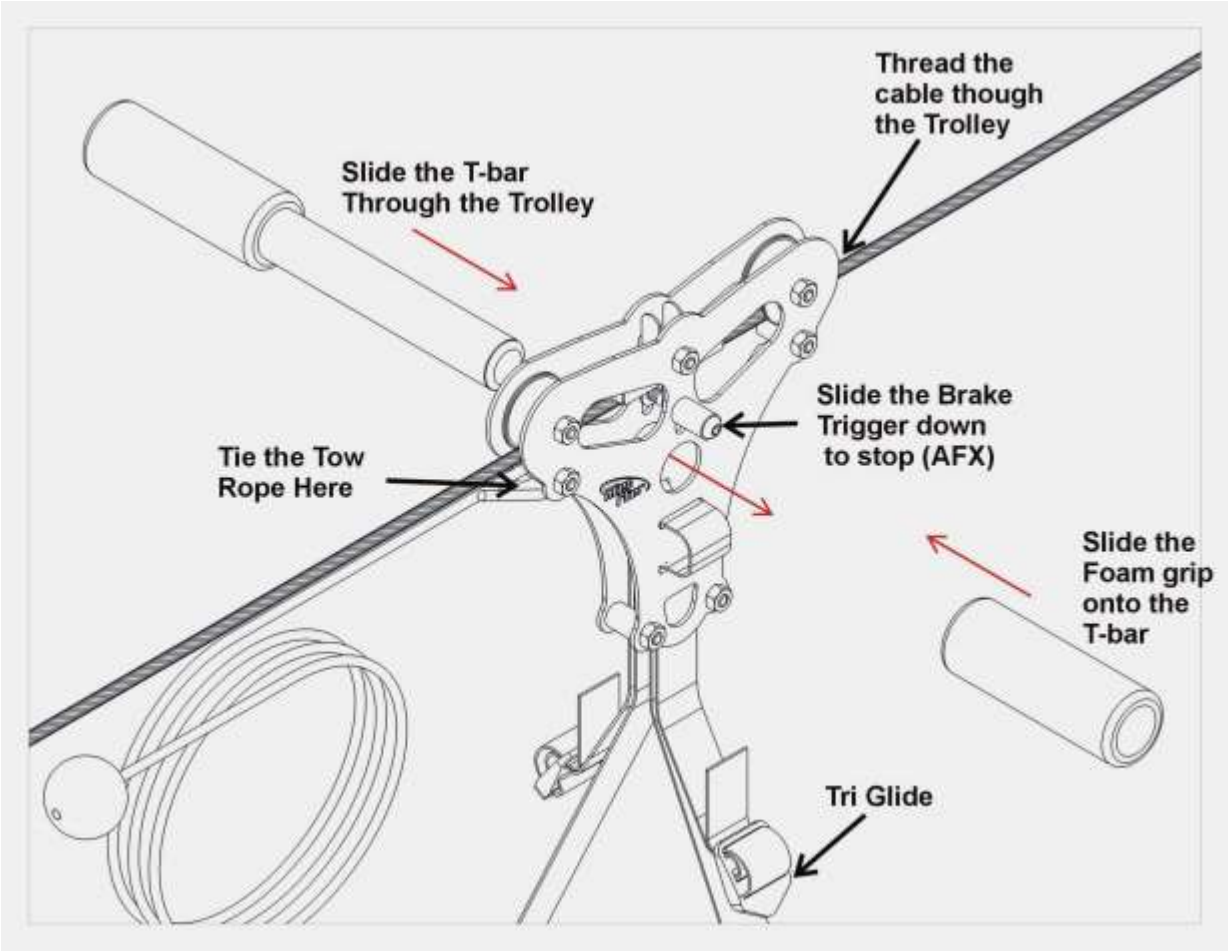
Final Assembly



Study the picture above:

1. Thread the seat kit webbing ends through the trolley and plastic tri glide buckles as shown.

2. Tie the towrope to the spacer as shown above.

3. Slide the T-bar though the trolley then slide the foam grip onto the T-bar end.

Recommendations for Launching

Reaching the Top

We HIGHLY recommend **towing** the rider to reach the top of the run. The rider sits **safely** on the seat while holding the T-bar. An adult using the provided towline pulls the rider to the top *eliminating the need for a platform or ladder where falling accidents most commonly occur.*

Trolleys without a seat

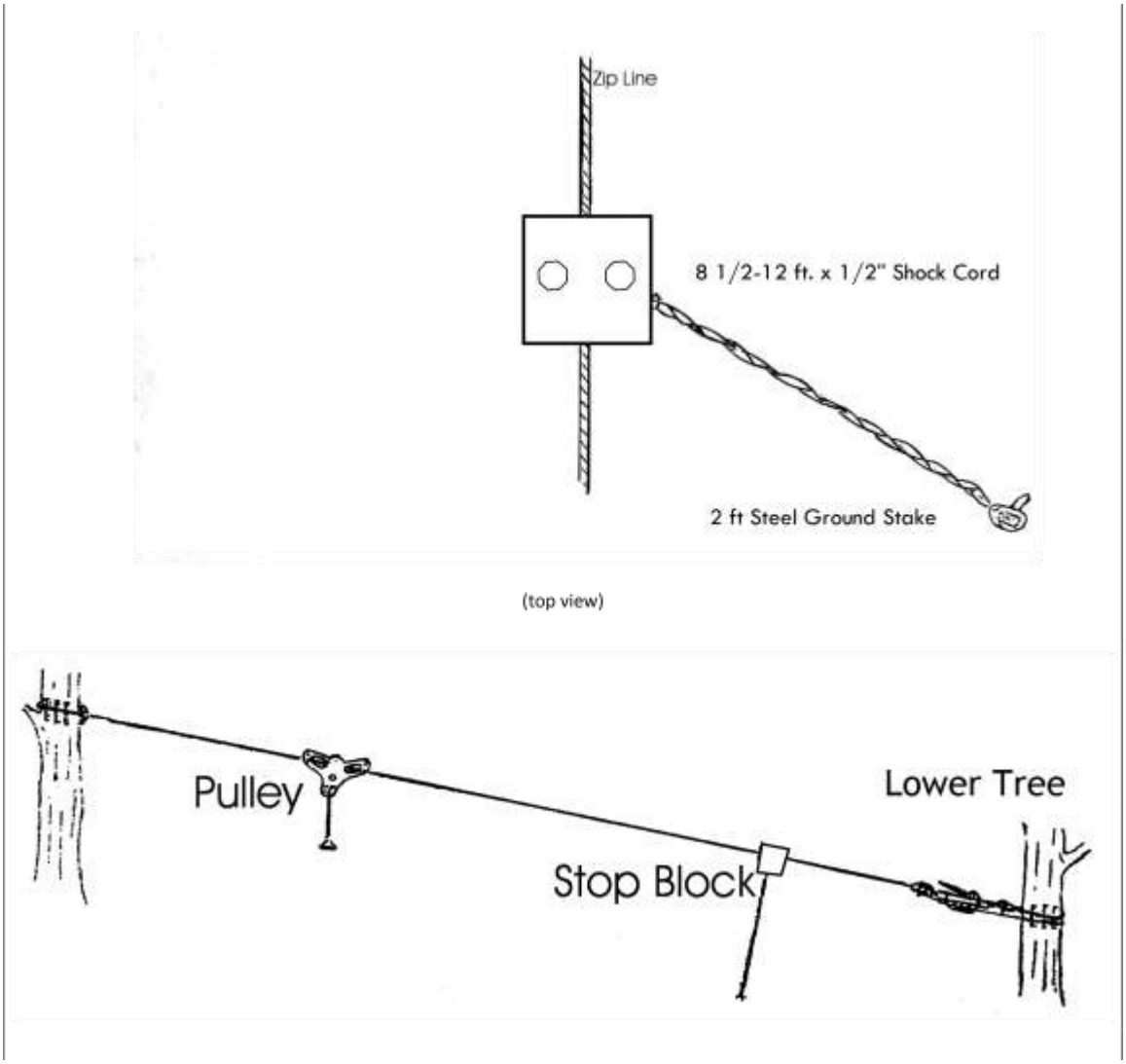
A word of caution

It is extremely important to understand when setting up a seatless zip line there is the potential for the rider to lose grip and fall. **TAKE EXTREME CARE** in the line design so that if the rider does lose grip that the fall is but a few feet. **PLEASE READ OUR ASSUMPTION OF RISK STATEMENT.**

Installing a Stop Block

A stop block is a simple device. It rides on the cable and is attached to a shock cord or bungee cord, which is anchored to a tree or is staked into the ground. As the rider nears the end of the line, the trolley comes in contact with the stop block causing the shock cord to stretch and slow the rider to a stop. These are very inexpensive, safe and tensions can be adjusted for different size riders.

Thread the shock cord through BOTH screw eyes, and secure to one side, perpendicular to the zip line.



Replacing the Brake Pad

Required Tools:
7/16” wrench, 5/32 Allen Wrench, Philips head screwdriver

1. Remove long bolt on trigger.
2. Remove brake from above.
3. Use screwdriver to pop out old pad.
4. Slip new pad in.
5. Replace brake unit.
6. Replace long bolt.

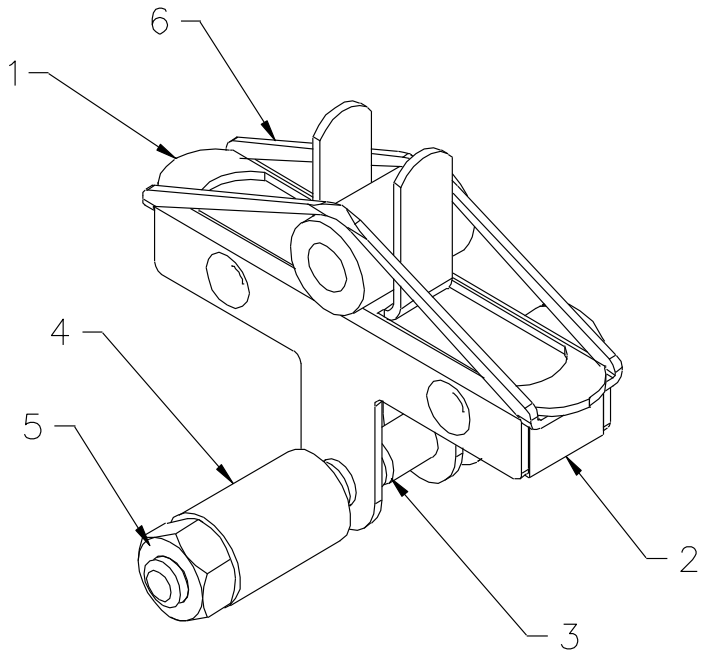
Enjoy Your Zip Line SAFELY!

For parts and accessories please visit our Website

www.AlienFlier.com

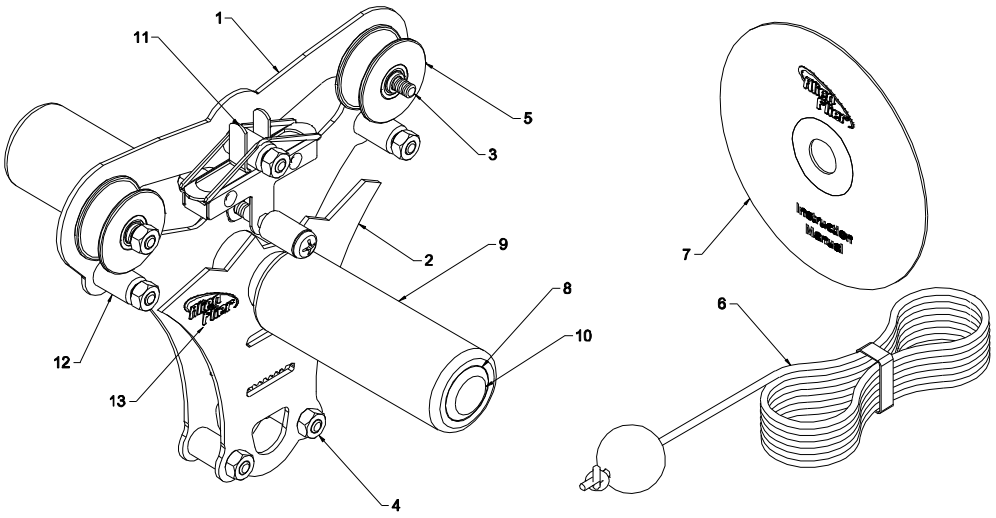
REPLACEMENT PARTS

PARTS LIST - BRAKE ASSEMBLY



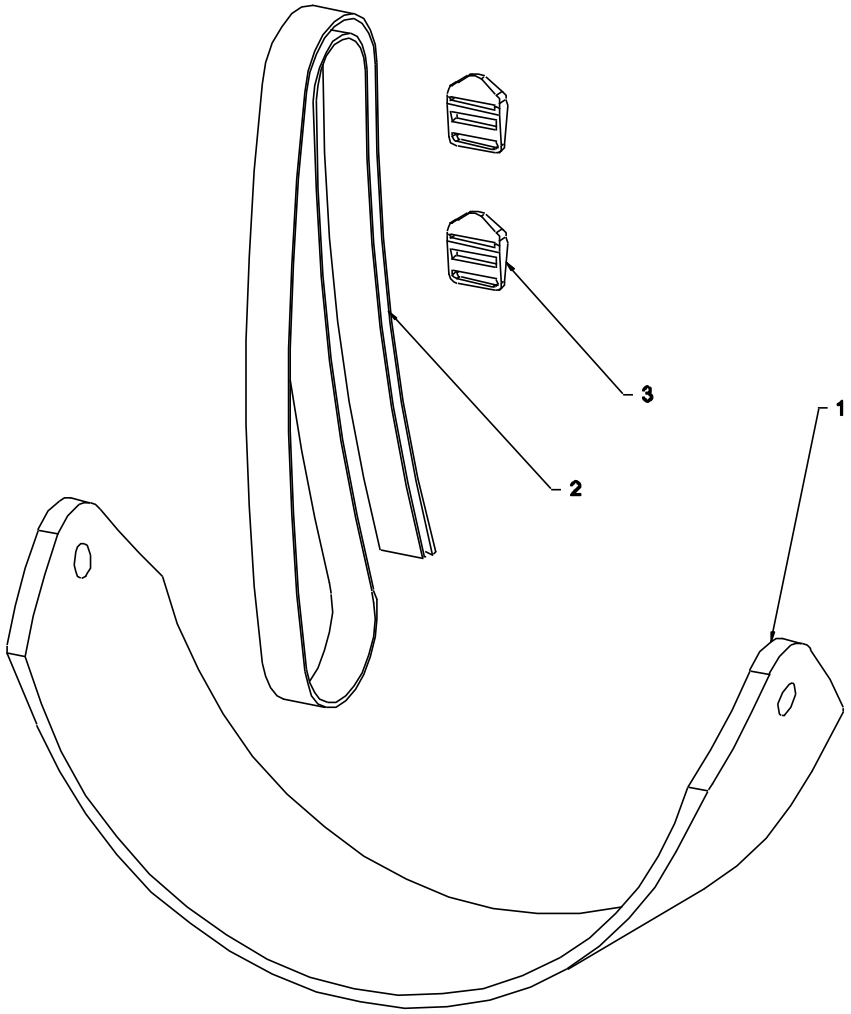
Number	Description	Part Number	Quantity
1	Brake Pad Holder	30200000	1
2	Brake Pad	30150000	1
3	Trigger Screw	30950000	1
4	Trigger / Spacer	31100000	3
5	Nut	30800000	1
6	Brake Return O-Ring	30250000	2
7	Grooveless Retainer	31370000	2
8	Brake Assembly (1-7)	21000000	1

PARTS LIST - TROLLEY



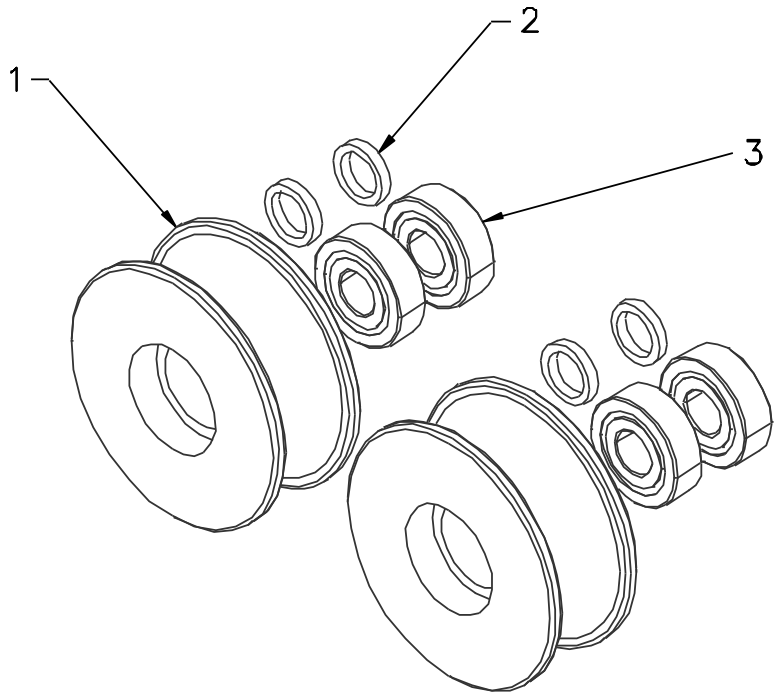
Number	Description	Part Number	Quantity
1	Frame - Red	30600000	1
2	Frame - Gold	30500000	1
3	Frame Screw	30900000	7
4	Frame Nut	30800000	7
5	Sheave Assembly	24000000	1
6	Tow Rope Assembly	21260000	1
7	CD *(discontinued)*	30300000	1
8	Handle	30700000	1
9	Handle End Cap	31350000	2
10	Foam Grip	30400000	2
11	Handle Assembly (8-10)	24250000	1
12	Brake Assembly	21000000	1
13	Frame Spacer	31100000	7

PARTS LIST - FLEXIBLE SEAT ASSEMBLY



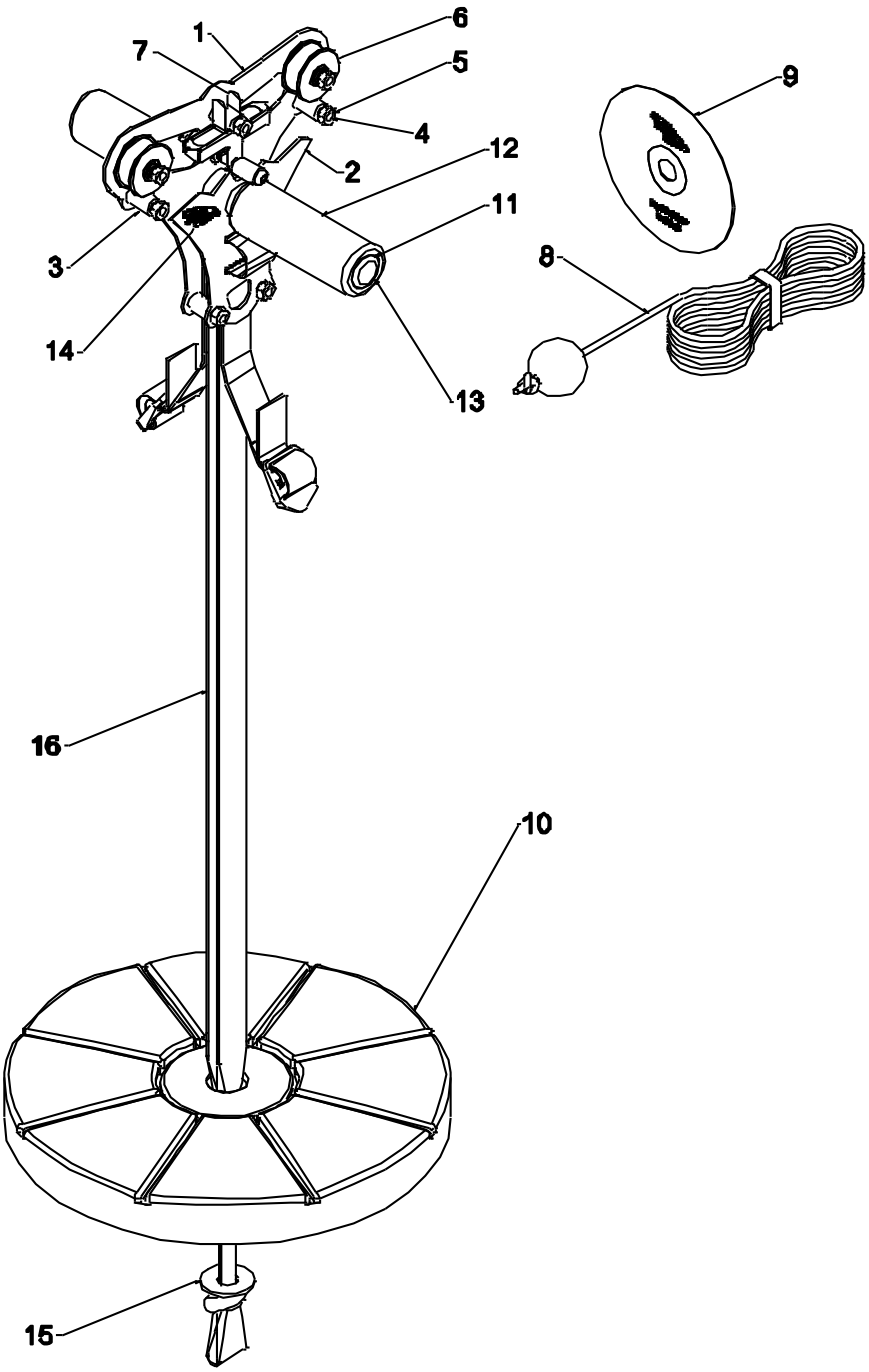
Number	Description	Part Number	Quantity
1	Seat, Yellow	30060000	1
2	Webbing, 8 Ft.	31400000	1
3	Tri Glide, 1 In.	31300000	2
4	Flexible Seat Assembly (1-3)	22500000	1

PARTS LIST - SHEAVE REPLACEMENT KIT



Number	Description	Part Number	Quantity
1	Sheave, .040 Wide	31000000	2
2	Bearing Spacer	31150000	4
3	Bearing, R4	30100000	4
4	Sheave Assembly (1-3)	24000000	1

PARTS LIST – TROLLEY W/DISC SEAT

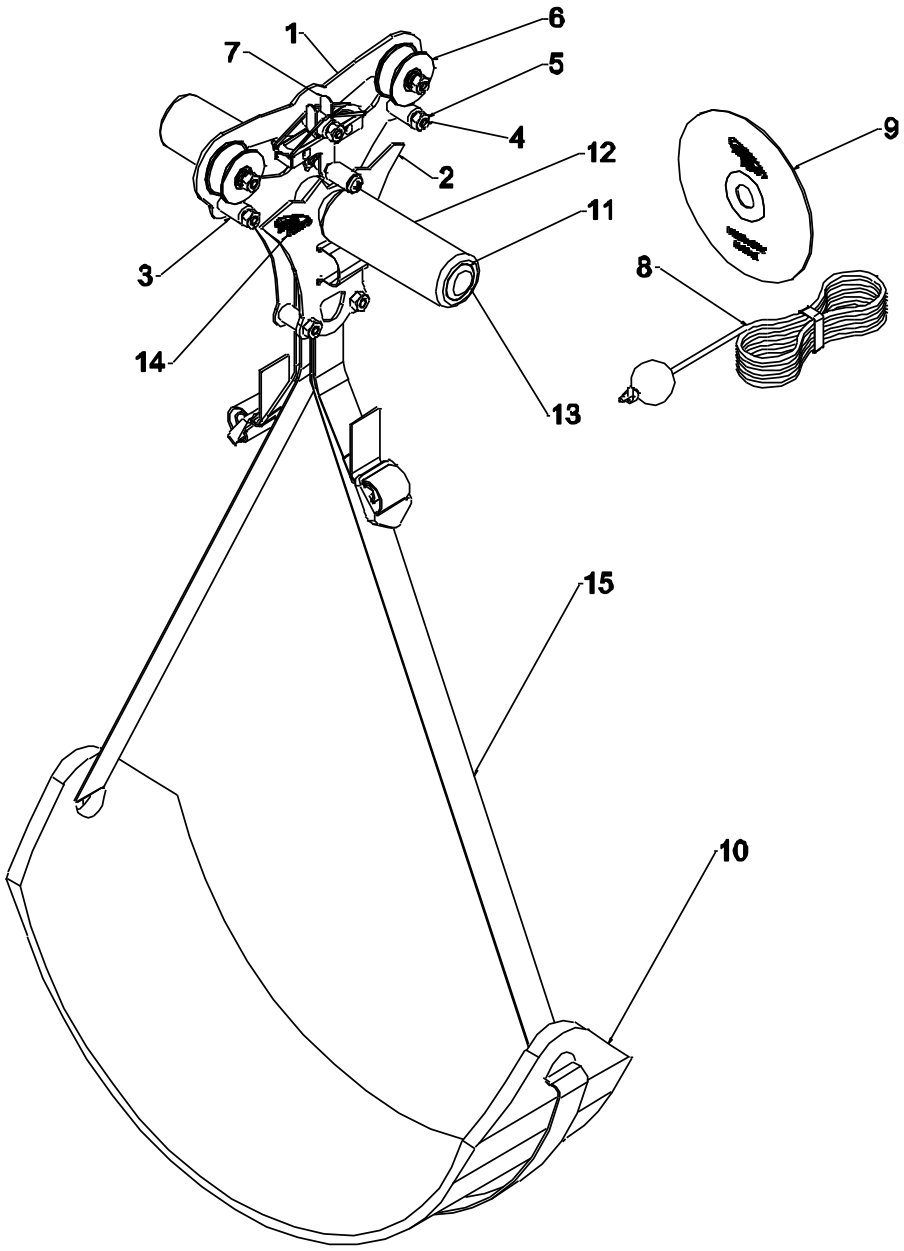


PARTS LIST - AF ORIGINAL

Number	Description	Part Number	Quantity
1	Frame - Purple	30550000	1
2	Frame - Blue	30450000	1
3	Frame Spacer	31100000	7
4	Frame Screw	30900000	7
5	Frame Nut	30800000	7
6	Sheave Assembly	24000000	1
7	*Brake Assembly (Optional Kit)*	21000000	*
8	Tow Rope Assembly	21260000	1
9	CD *(discontinued)*	30300000	1
10	Blue Disc Seat	30350000	1
11	Handle	30700000	1
12	Foam Grip	30400000	2
13	Handle End Cap	31350000	2
14	Handle Assembly (11-13)	24250000	1
15	Decal *(discontinued)*	30010000	1
16	Washer	31620000	1
17	Webbing	31450000	1

PARTS LIST – XTREME, EXPLORER S & CABLE-FREE

Front frame plate cut away & one nut not shown for clarity



PARTS LIST – XTREME, EXPLORER S & CABLE-FREE - continued

Number	Description	Part Number	Quantity
1	Frame - Purple	30550000	1
2	Frame - Gold	30500000	1
3	Frame Spacer	31100000	7
4	Frame Screw	30900000	7
5	Frame Nut	30800000	7
6	Sheave Assembly	24000000	1
7	Brake Assembly	21000000	1
8	Tow Rope Assembly	21260000	1
9	CD *(discontinued)*	30300000	1
10	Flexible Seat Assembly	22500000	1
11	Handle	30700000	1
12	Foam Grip	30400000	2
13	Handle End Cap	31350000	2
14	Handle Assembly (11-13)	24250000	1
15	Decal *(discontinued)*	30010000	1
16	Webbing	31400000	1