



# Zip-Line Kit Instructions

Thank you for your purchase of the ZLI Zip-line kit! This product was engineered to provide safe fun for all ages when the instructions and rules are followed. Please read and follow all instructions carefully when installing and using your ZLI Zip-line. All riders must read and understand the instructions and Safety Rules before riding. Failure to read and follow the instructions and Safety Rules could lead to serious injury or death. Please keep these instructions available for future review and use. We are sure this product will provide you with years of fun and enjoyment.

## Kit Contents:

- 1) **Steel Trolley** with sealed ball bearing pulleys providing smooth operation, fitted with grips that offer a non-slip, notched finish, providing exceptional grip and handling.
- 2) **Main Cable** length varies with model, 5mm galvanised steel cable, w/looped eye on one end.
- 3) **Sling Cable** 1.53m, 5mm steel cable w/looped eye on each end.
- 4) **Turnbuckle** 15.24cm Steel
- 5) **U clamps** .48cm
- 6) **Instructions**
- 7) **Seat on adjustable rope**

*Tools Required: adjustable wrench and hand pliers (not included) and some helpers with brushes.*

*Warranty: 1 year for parts and workmanship.*

*Note: Actual product colour & appearance may differ from pictures.*

## CHOKING AND STRANGULATION HAZARD

This product contains small parts that if swallowed can cause injury or death. Keep small children away. Do not wear a helmet as it may become tangled with rope and cause injury or death.



**WARNING: Strangulation Hazard - A helmet should NOT be used while zip-lining. There is a risk of hanging if the riders helmet is tangled by the rope.**



**WARNING: Contains small parts which can be a choking hazard - keep out of reach of children under 3.**



**WARNING: Adult Assembly Required - This product should be unpacked and assembled by an adult , including site and tree selection as well as secure cable attachment.**



**WARNING: Adult Supervision Required - SERIOUS UNJURY OR DEATH MAY RESULT Always exercise extreme caution when zip-lining. Keep bystanders at least 7.6m away from the zip-line course to avoid collisions. Only one rider at a time. No loose clothing or jewellery while riding. Keep long hair away from trolley. Adjust rope and seat so that riders head is below the trolley.**

## **BE SAFE! - ALWAYS FOLLOW THESE RULES**

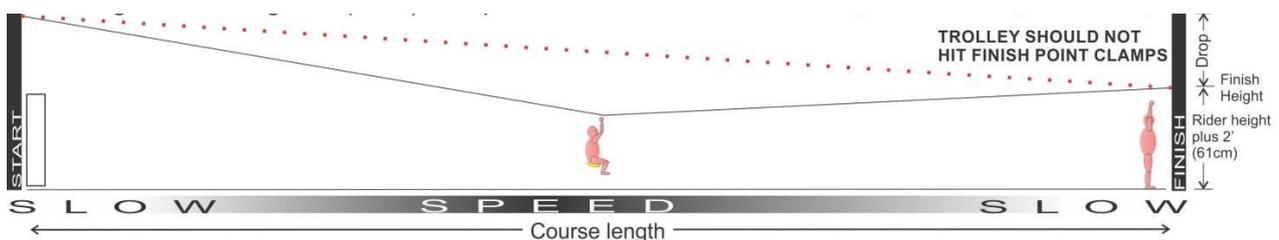
- To be setup and installed by an Adult.
- Adult supervision is required at all times.
- Recommended for children over 8 years of age.
- Max weight 113kg
- Wear suitable shoes and close fitting clothing, no scarves or other loose clothing
- If worn or damaged parts are found, do not use the zip-line, contact ZLI for replacement parts - DO NOT substitute with other, non-ZLI parts or failure resulting in injury may result.
- Replace cable yearly, replacing with a ZLI zip-line cable.
- Wait until the zip-line has stopped completely before letting go of the trolley and dismounting - when dismounting let go of the trolley carefully and hold on to the rope while getting off the seat.
- One rider only at a time.
- Keep bystanders at least 7.6 metres away from zip-line course when in use.
- Never use the line when it is wet or if there is rain or lightening in the are.
- Make sure everything is installed correctly and perform regular maintenance checks and inspect for wear or damage before using.

## **CHOOSING THE ZIP-LINE COURSE**

Choose a clear runway for the zip line ride with **sturdy** anchor points (**LIVE HEALTHY TREES** 92cm circumference or 31cm diameter). Contact an arborist if you are unsure about your trees health and suitability. Attachment to other objects should not be attempted without the opinion of a qualified engineer, as suitability for 'side load' strength is required. You must choose a grass course underneath that is flat and clear of all obstacles, including but not limited to: bushes, rocks, debris, hard surfaces or anything else that could cause injury. If the grass course becomes hard-packed over time, move the course to a softer location. A fall onto any hard surface can result in a serious injury to the rider.

## **CABLE ATTACHMENT HEIGHT GUIDELINE**

Assuming a level course, let's start at the end... The Finish Point (FP) should be at least .61m higher than the tallest rider. Let's assume our rider is 1.52m, the FP should be 2.13m off of the ground. The Start Point (SP) height needs to be higher of course to create a safe Drop. A max slope of up to 6% is safe. So if we take our Course Length measurement and multiply it by our 6% slope we get our Drop. Our SP height is therefore the FP height plus the Drop.



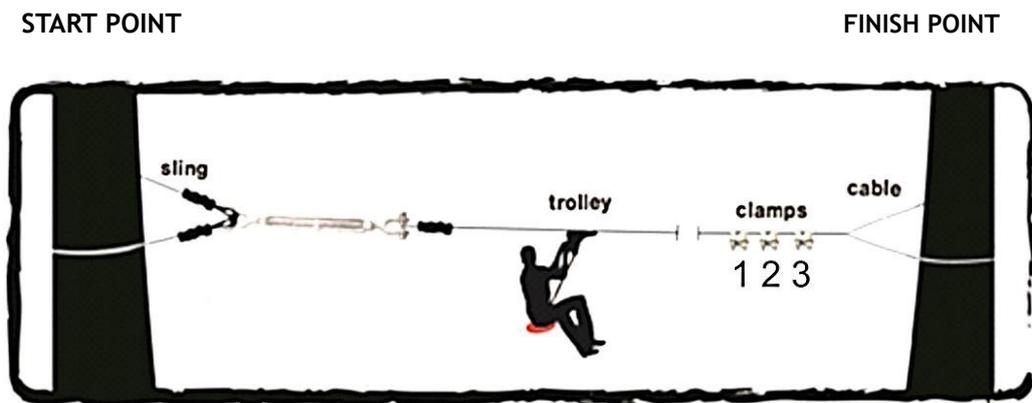
**WARNING:** Your zipline should only be attached to live healthy trees at least 12"(31cm) in diameter and your zipline course should be flat, clear of hard surfaces and obstructions.

## INSTALLATION

The installation should only be performed by an adult and in accordance with these instructions.

**Step 1:** The shorter 'sling' cable is used to wrap around the tree (Figure 2) that will be used as the Starting Point at a height computed from the Height Guideline on page 3. After fully extending the turnbuckle, attach it to the two loops on the ends of the sling cable and tighten the bolt and nut (Figure 3).

**Step 2:** Take the loop end of the long cable and attach it to the other end of the turnbuckle and tighten the nut and bolt (Figure 4).



**Step 3:** Thread the cable, using the un-looped end, through the trolley (Fig 4), at a height from the Cable Attachment Height Guideline. Pull the line as tight as possible and secure with one of the three u-clamps (#1) as far from the finish point as your cable allows. With your helpers using brushes or poles at points along the cable pushing the cable up and taking the weight off of the cable, pull all of the slack out of the cable that you can by loosening and tightening the u-clamp as you pull out the slack. Add another u-clamp (#3) between your first clamp and the finish point and slide it toward the finish point (tree) like a tightening a necktie. Tighten it! Add the last u-clamp (#2) about 7.62-15.3cm from (#3), tighten it, then loosen the first u-clamp (#1) and slide it toward (#2), so that they are all 7.62-15.3cm apart.

**Step 4:** Tune the zip line by tightening the turnbuckle, which will tighten up the line.

**Note:** After the first rider has used the zip-line, re-torque the clamps as a precaution against loosening.

**Step 5:** Launching Platform - Must be stable and not prone to rocking. It should be tall enough to allow your shortest riders to easily reach the trolley.



Fig 1



Fig 2



Fig 3



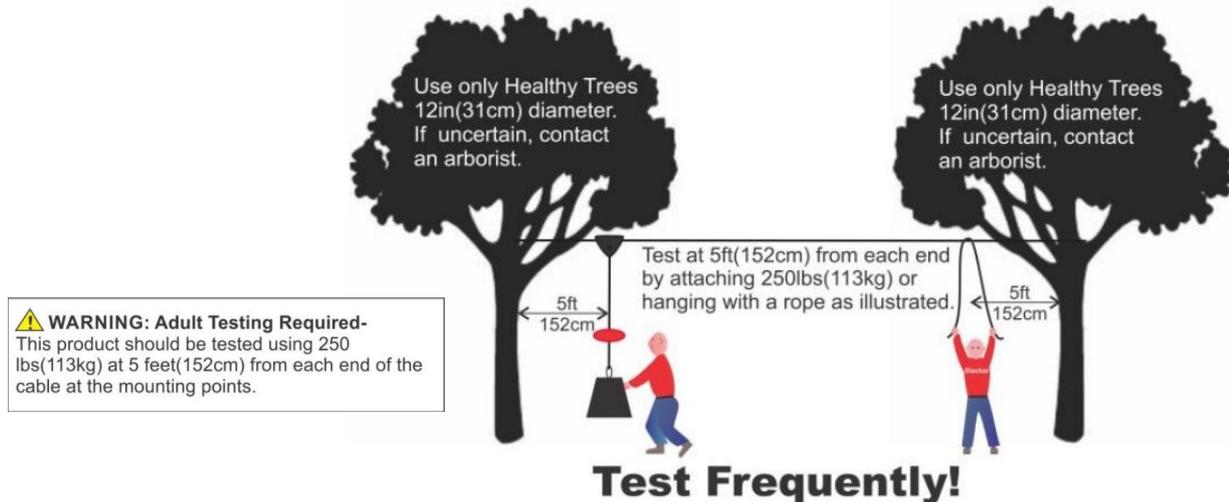
Fig 4



Fig 5

## MANDATORY STRESS TESTING

When your setup is complete and before a rider takes the first ride you must stress test your installation at 152cm from each end of the cable. You can do this by suspending 113kg from the rope attached to the trolley or throw a rope over the cable and have a 113kg person lift his weight off the ground. This will ensure that the attachment structure and cable is stable and secure.



## FINAL TUNE UP

Stress test before using as instructed above. **The rider should never hit the Finish Point U-clamps.** When testing, if the trolley hits the U-clamps, lower the Start Point or raise the Finish Point slightly. The ride should slow down past the midpoint as the sag in the cable comes into play.

- ✓ Check the tightness of all nuts and bolts of all clamps, the turnbuckle and the trolley. Make sure cable does not slip.
- ✓ Secure and cover excess wire end (by the clamps) with electrical or duct tape to prevent injury.
- ✓ With the weight attached, launch the trolley. It should slow down due to sag in the line about 2/3<sup>rd</sup> the way to the end of the cable. Adjust the tension or heights to prevent the rider from hitting the clamps.
- ✓ Always walk the area and remove any rocks, debris or objects that might harm the riders.

## RIDER INSTRUCTIONS

1. Only one rider at a time.
2. Do not move in front, behind or in close proximity to a moving rider.
3. Hold the trolley handles tightly while the Zip-line is in motion.
4. Mounting the seat - While standing on launching platform, slide the seat between your legs then grab onto the trolley grips and launch!
5. Rider must remain seated - no standing, kneeling or other positions.
6. Dismounting the seat- Wait until you have come to a complete stop. Grab onto the rope in between the trolley and seat, then while holding onto the rope dismount slowly (Figure 1).
7. Adjusting the seat height - Rider's head should always be below the trolley. Slide the excess rope through the lower loop of the figure-8 rope adjuster (Figure 2), then pull the slack through on the other side of the upper loop of the adjuster.
8. Make certain that the rider's head is well below the trolley by adjusting the rope and seat (Figure 3).
9. Adult supervision is required at all times.



Fig 1



Fig 2



Fig 3

## **INSPECTION AND MAINTENANCE**

### **SAFETY FIRST! CHECK YOUR INSTALLATION BEFORE EACH USE.**

- Bring the rope and swing inside whenever the temperature drops below 0 degrees Celsius.
- Before EVERY use, check the anchor points, trolley, steel line, rope, knots, support and all connections for any hint of damage, deterioration, excess wear, rope fraying, breaks or sharp edges and replace as necessary.
- Perform the Stress Testing frequently.
- Use only ZLI replacement parts.

**WHEN FOLLOWED CORRECTLY, THESE INSTRUCTIONS WILL PROVIDE FOR LONG LASTING AND SAFE USE OF YOUR ZIP-LINE.**



### **Important Product Disclaimer and Notice**

**Activities involving the installation and use of zip-lines are inherently hazardous by their nature. Poor installation, poor site selection, inadequate rider instruction, poor adult supervision or improper use can cause severe injury or death.**

**The buyer, installer and user of the ZLI Zip-line must:**

1. Read, understand and follow the installation instructions and Safety Rules.
2. Ensure proper oversight, supervision and instruction of others on the safe use and operation of the zip-line.
3. Ensure that all equipment is properly installed, used, inspected and maintained before each use.
4. Before each use, check to see that obstructions and hazards are removed from the zip-line path and that all non-users are at a safe distance from that path.
5. Use common sense and avoid taking risks.

**The buyer, installer and user of this product assume all risk and accept all responsibility for any damage or injury, including death, that may arise from the use of the ZLI Zip-line.**

**Be Careful and Have Safe Fun Outdoors!**