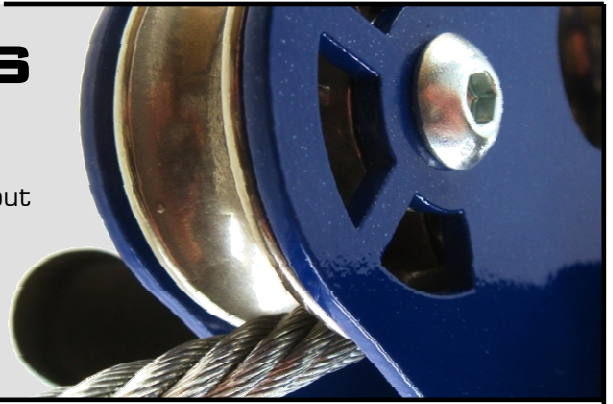


INSTALLATION TIPS

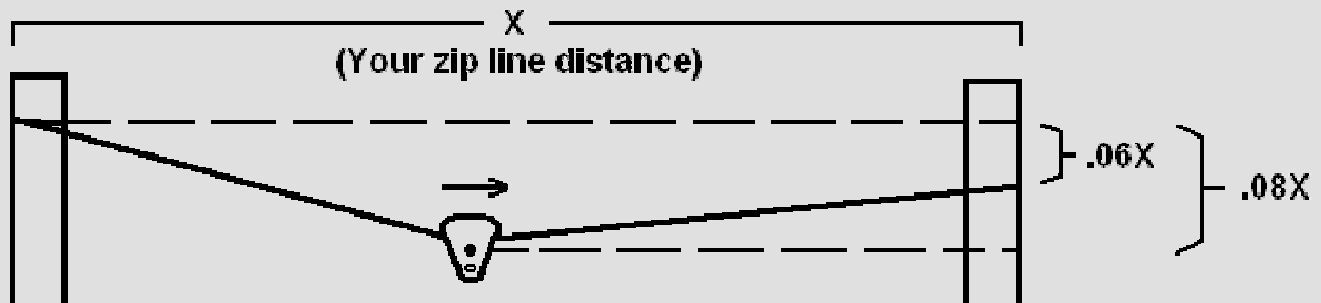
FOR A VIPER ZIP LINE

Installing a zip line tends to be more art than science, but we've put together a few tips to help get you started. You will probably find that, once installed, your zip line will be very easy to tune and adjust, so we'll go over the basic mechanics of your zip line kit, and then share some installation techniques for creating a safe, but equally thrilling ride.



THE BASICS

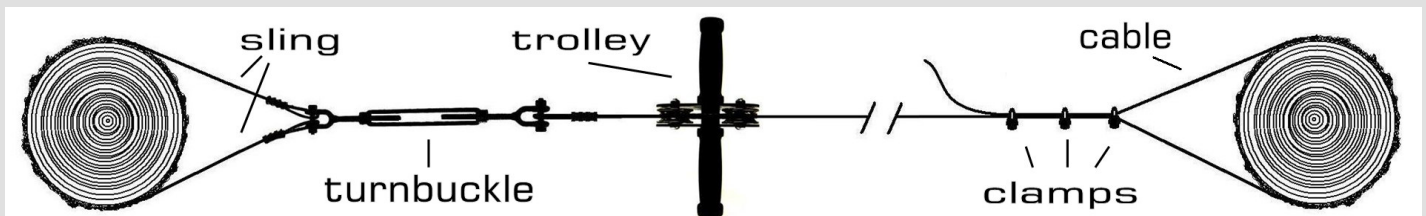
You will need a clear runway for the zip line ride with a sturdy anchor on both ends. The cable stretches from one anchor to the other, with enough slope to allow the trolley to roll quickly across the length of it. When setting your cable initially, shoot for a 6% drop from one anchor to the other (that's a 6 foot drop per 100 feet of distance), and plan for an overall cable sag of about 8% as well (see diagram below). This should be a good starting point from which to tune your zip line. Increase the slope to increase speed, and vice versa.



E.G.

For example, let's say you have a 150' distance. This means you should shoot for having the cable drop about 9' (6% of your distance) from start to finish. If you'd like to have the pulley ride about 7 feet off the ground at its lowest point, and you're planning on an overall cable sag of 12 feet (8% of your distance), then you should start the zip line at about 19' (adding those together) and then subtract your 9 foot drop to end the zip line at 10'. From here you can move either end up or down, and adjust the tension to get the speed you like. Keep in mind that you may also need to make adjustments for an uneven or sloping terrain.

INSTALLATION



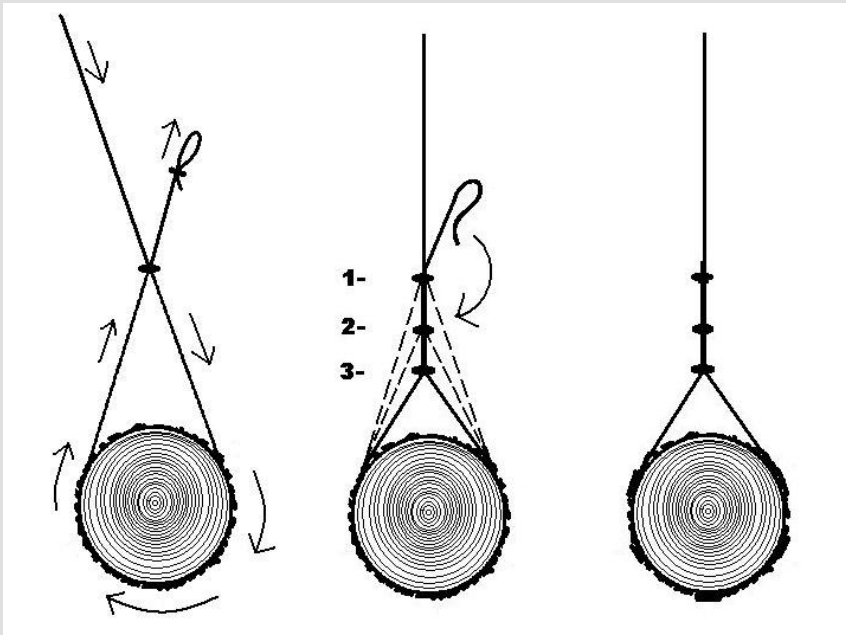
Step 1: The sling is wrapped around your first anchor and connected to the main line of cable using the turnbuckle. You should have the turnbuckle fully extended at this point— if the turnbuckle is a little sticky, try greasing the threads with a little oil. This will come in handy later when tightening the cable.

Step 2: Thread the cable through the pulley, between the wheels and the handlebar. If you forget to install the pulley before rigging your cable, you can always remove the wheels (by unbolting the axles) and reassemble the trolley on the cable.

Step 3: This step may require two people. Pull the cable tightly around the second tree and complete the loop using your three cable clamps, spaced about 2-3 inches apart. Make sure the U-bolt is on the dead cable (the end you have pulled back around the tree). The following page has a diagram of how this step can be accomplished easily.

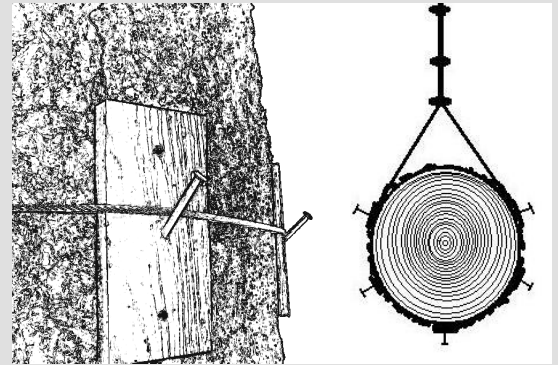
Step 4: Tune the zip line by tightening the turnbuckle and/or adjusting the height of the ends of the cable.

SETTING YOUR CABLE



PROTECTING YOUR TREE

Depending on the type of tree you're anchoring to, you may need something to protect it from damage. Try putting washer tubing around the cable, or putting slats of woods around the backside (pictured below)



FINAL TUNE-UP

Before putting your zip line into action, you will need to do a full weight test and then...

- check and retighten all cable clamps, and turnbuckles.
- test the speed to ensure that all riders will be able to stop before reaching the end.
- check for and prevent cable slippage on your anchors.
- clear the runway of obstacles, like branches and boulders and forts and swimming pools and bike ramps and go-carts and wood swords and stuff.
- Take it for a ride!

Remember, installing and operating your zip line safely is your responsibility! Establishing a safe operating procedure is essential. Children should be taught how to ride the zip line safely, and should be supervised at all times. Play safe, and have fun!

LAUNCHING PLATFORM?

Depending on the length of your zip line and the slope of your terrain, you may need a ladder or platform to launch (and sometimes land) your zip line ride. We recommend attaching a safety harness with a lanyard underneath the pulley when launching from any significant distance from the ground.



ZIP LINE MAINTENANCE

Your Viper Zip Line is designed to withstand the elements, but putting it in storage during wet seasons won't hurt it a bit. The pulley should also be lubricated periodically- the wheels can be disassembled with a hex wrench to accomplish this.

ACCESSORIES

Your zip line pulley has a slot for connecting accessories directly beneath the handlebar. Consider clipping a seat or harness to this point for added safety. A bungee brake or tire stop can also be installed at the end of the zip for safely ending the zip line ride.

Disclaimer- no information provided by Sleaddventures LLC shall be viewed as professional instruction or advice. Specifications are estimates; all written or spoken material is strictly opinion and carries no guarantee of safety. All persons are wholly responsible for the safe selection, installation, and operation of their own play equipment.



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