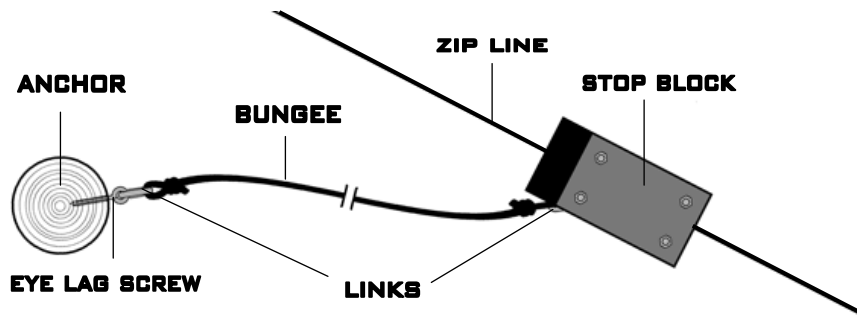


HOW TO ASSEMBLE AND TEST YOUR BRAKING SYSTEM

Concept: The bungee braking system should be installed near the end of a zip line to catch the pulley and slow it down to a stop. A properly installed brake will stop the ride without over stretching the cord or allowing the riders to reach the lower zip line anchor.

Parts and Assembly: A basic bungee braking kit includes the following components, to be assembled as shown in the diagram below:

- 1 Length of bungee cord w/loops on each end
- 1 Padded stop block w/hardware for assembling on the cable
- 1 Eye Lag screw for anchoring the system to a tree or post
- 2 Links for connecting the bungee to the block and the Eye Lag Screw



Installation

Assemble the braking system on your cable and anchor it to a tree or post at least 10 feet off to the side of the zip line, and far enough from the end so that it has room to slow and stop the riders. This distance from the bungee anchor to the end of the zip line should be about 175% of the bungee cord's original length. A 20' cord should be anchored about 35' feet from the end, a 30' cord about 50', etc.

Speed Testing

Have a test rider sit on the zip line seat, and lower them down the zip line by walking or running alongside them holding a rope attached to the pulley. Increase the speed of each run until you are confident that the zip line will not stretch the bungee cord to more than 175% of its original length if the riders are allowed to zip freely.

Troubleshooting

Riders are getting tangled in the bungee cord: Move the anchor farther off to the side of the zip line so it doesn't hang in the way. This can change the amount of stretch on the cord, so be sure to test it again.

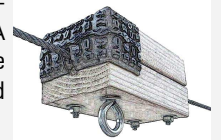
Brake does not stop riders before they reach the end: You need to shorten your cord or move the anchor farther back from the end.

Bungee stretches too much: The easiest solution is to decrease the slope or tension of your zip line to slow things down. You can also double the resistance by folding it back into two cords or purchasing a second length of bungee. A third solution is to fix something onto the cable itself to prevent the block from passing the 175% mark. Just be sure to do another speed test and make sure the stop isn't too abrupt.

These are a few of the most common issues you may run into, but as every location is different, you may need some more specific help. Contact us by phone (888-476-3701) or email (info@ziplinegear.com) and we'd happy to assist you in finding a good braking solution.

Do-It-Yourself Kit

If you purchased the DIY version of the braking system, you will need to make your own block out of a couple 6 inch pieces of 2x4. Use a table or circular saw to put a groove down the center of each block, clamp them together with the grooves lined up, and drill a 3/8" diameter hole in each corner as pictured. A small section of bike tire can be wrapped around the front and screwed to the block to serve as the impact pad.



Need more info?

Check out our blog for more detailed articles about tree protection, cable tensioning, alternate braking methods, and much, much more. Just go to ZipLineGear.com and click "Read the Blog" near the top of the page. You can also contact us directly by phone or email to get fast, personal assistance with your zip line project.

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Disclaimer: no material provided by Sleaddventures LLC carries any guarantee of safety. Zip lines and bungee braking systems are dangerous and may cause injury or death when installed or operated improperly. All persons are wholly responsible for educating themselves in the safe selection, installation, and operation of their own play equipment.