

# OneChair Clip Information Guide

*By AfterFlow Mods*

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Hey guys, I'm Sam from AfterFlow Modifications. It is good to meet you! If you are reading this, it might be because you're interested in suiting up your OneWheel with a chair. **Good news!** We have a solution just for that. But there are some barriers that have to be crossed in order to completely this task safely and effectively. To begin, let's go over some comments:

1. **Please wear a helmet!** It is not any safer to be sitting than standing on this device. Please use common sense. We are not liable for any sort of injury or harm done to the rider or Onewheel if improperly used.
2. **If you are printing the clips on your own, keep in mind the clips are only as strong as the plastic!** We have added our best result settings when printing in the *Printing Instructions and Comments* section on page (4). Please keep in mind that experimenting with settings and such can lead to cracking/breaking at various stress points.
3. **Follow the build guide** for the best performance out of the clips. As much as we do love print-and-go products, this does require some additional work. You can find the instructions and additional parts required along with recommendations in the *Building and Testing* section on page (2).
4. **We're learning too.** We're college students at the time of creating this product. We don't know everything that is out there when it comes to creating mods. Comments, questions, or concerns? Let us know what you think! Information can be found in the *Contact Us* section on page (5).
5. **Have fun!** We know this is very "summer camp leader" sounding, but nothing beats making a part/product/concept/prototype people can play and laugh with while using. We love the reactions from riders and passerbyers alike. Think you have some content? Tag the photo or video with #Onechair or follow us on Instagram @after.flow.

## What is this all about?

To begin, this product came to be from humor. At first, we had a lawn chair simply wrapped with saran wrap on the bottom bars. This created enough friction to hold the chair in place while sitting on it. At first, we really didn't imagine it would work that well (or at all), but to our surprise, the system was not only able to be controlled both forwards and backwards, but in any desirable direction compared to standup riding. So we went with it. Then we started to experience undesirable results (as you may imagine) with proper frictional adhesion to the Onewheel. So, with that, the Onechair Clips were created.

# How to Ride the Onechair

1. **Just relax. You got this.** The learning curve is a lot like the OneWheel itself (We are assuming you already know how to ride the Onewheel. If you bought the OneWheel just to ride the chair, let us be the first to say we salute you).
2. **Most chairs (including the one listed) has enough weight to start the OneWheel on its own.** It is easier to mount the Onechair after it has been placed in an upright position and it running.
3. **Start off slow with your feet skimming/touching the ground.** At first, you will begin to wobble back and forth. (If you continue to have this issue, we suggest you let out a little bit of air in the tire.)
4. **Try to learn to drive straight first.** Feel free to have a helper hold on to your chair on the back handle to get things going. When you want to stop, lean back to a halt and lift the chair in the front to release the clips from the pressure sensors.
5. **Leaning to turn and driving all has to do with your core.** The center of mass for riders is found right around the rider's abdomen area, so focus on leaning with your core.
6. **PLEASE WEAR A HELMET!** Please, this is very important. Just because you are closer to the ground, doesn't mean you can't get hurt. Be safe and be smart.

## Building and Testing

\*\*Note: These clips are a work in progress/prototype, so there may be changes/additions that will be updated on this part of the document as we go along. These clips are also pending a trademark, so please do respect our efforts and do not sell these for personal profit (but gifts are awesome 😊).

### Tool List:

- 3D printer (Minimum 4 x 4 x 5 inch build area)
  - We used a combination of an Ender 3D Pro (highly recommended if looking for a cheap, good printer) and a Ultimaker 2.
- hairdryer or heatgun

### Parts List:

- Felt Blanket Sticky Pads
  - This is used to create friction between the clips and grip tape, while as protecting yourself and the board. We used these felt pads from Home Depot, as we cut them to size. Anything used for furniture wood floor protection should work.
    - <https://www.homedepot.com/p/Everbilt-2-in-x-4-in-Heavy-Duty-Self-Adhesive-Beige-Felt-Blanket-3-Pack-804614/306229475>

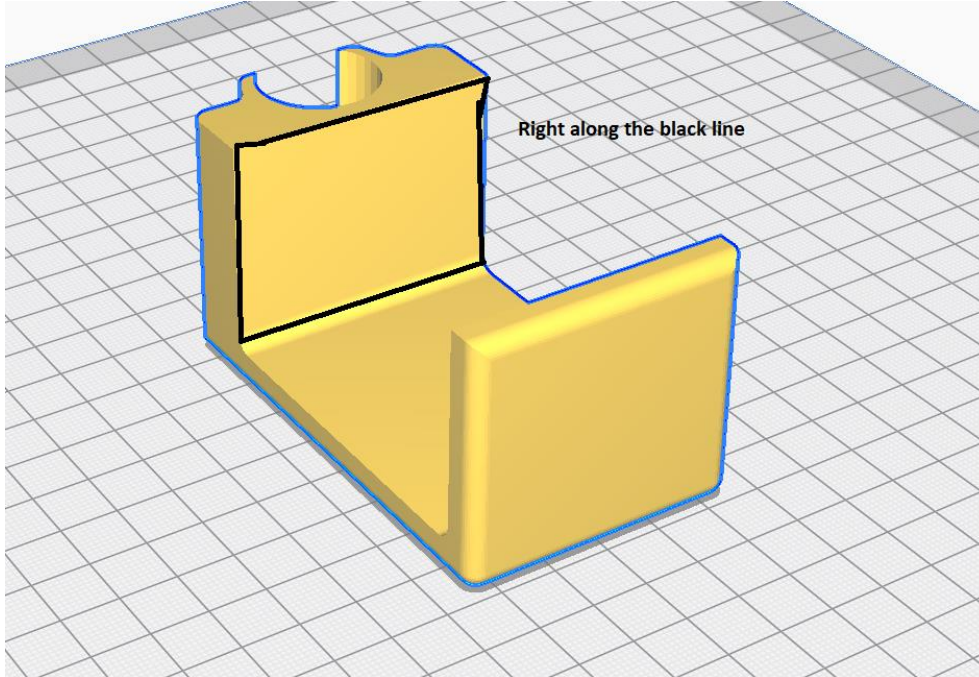


- Beach Chair
  - Beach chairs seem to work the best as the clip hold design is the best fit. We found this chair to be the best:
    - <https://www.walmart.com/ip/Caribbean-Joe-Folding-Beach-Chair-Blue-Stripes/799432363>



## Construction

1. You will need to print the follow:
  - a. 1 Front Clip (STL files are labeled)
  - b. 1 Power Clip
  - c. 2 Back Clips
2. Take the felt pads and cut them to size to fit the underside of the top of the clips.



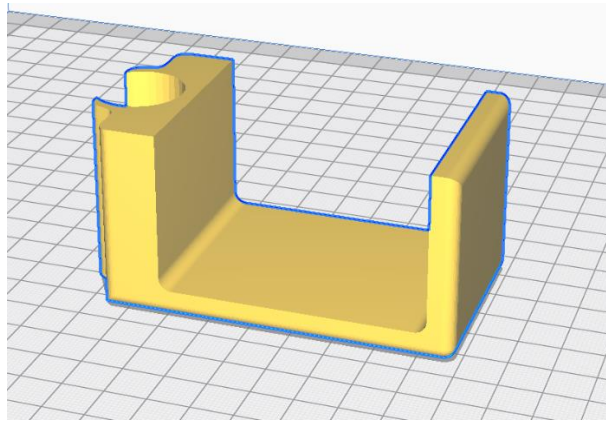
3. Once this is finish, slide the clips on the OneWheel, with the power clip on the side of the power button, the front clip on the other side of the front, and the back clips on both sides towards the back.
4. **\*Note: not all chairs are made perfectly, with that being said, DO NOT try and force the chair to fit into the clip with completing this step.** Take the hair dryer or heat gun and heat up the top of the clips until the plastic becomes soft. Take the chair's bottom bars and press down on the heated clip head slowly until the chair bottom bar fits snug in with the clip. While applying heat periodically, remove the chair's bottom bar slowly. Do this 3 or 4 times until the plastic has cooled, as the clips are now fitted to the right size of your chair's bottom bar. Complete this step with all the clips.
5. Once the plastic has cooled, secure the chair onto the clips center with the OneWheel, ensuring nothing is slipping.

**Your OneChair is now complete!**

## Printing Instruction and Comments

As mentioned before, the clips are not perfect. But here are some suggestions and settings we used with our printer:

- **The best plastic we found to work was ASB.** Unfortunately, PLA plastic is simply too weak to support the constant bashing and support when riding. We do plan to test Nylon in the future.
- **Infill density is rather important when printing the clips.** We suggest nothing less than 50% infill, around 70% to 80% is perfect. 90% and above is not necessary and in most cases caused us more issues.
- **Shell height and other such quality parameters are not entirely important for these clips.** The print time can be greatly reduced when bringing down the shell layer height and does not affect the performance of the clips (to our knowledge).
- **Supports and rafts are not required.** Orienting the clips as such in your slicer program ensures that a raft and supports are not required.



Keep in mind that cracks and abrasion can form from use on these clips. Use at your own risk if you recognize anything of the sort!

## Contact Us

Have a question, comment, or concern? Maybe want to let into our prototyping team?

Let us know at:

Email: [Afterflow.mods@gmail.com](mailto:Afterflow.mods@gmail.com)

Instagram: after.flow

Thank you so much for your support and ride on 🙌!