

Modular Cup Holder for Camping - ALPS Mountaineering Camber Camp Chair



Steve

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updated 7. 9. 2023 | published 7. 9. 2023

Summary

Modular accessory mount for the ALPS Mountaineering Camber Camp Chair. Attach a cup holder or phone holder.

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Tags: beer bottle water can cup holder modular drink phone accessory chair mug coffee mobile camping yeti camp alps camber rambler mountaineering

Modular accessory mount for the ALPS Mountaineering Camber Chair. This is a comfortable camp chair but it was missing a much needed cup holder.

I designed a mount that attaches to the chair, along with accessories that slide onto the mount. The mount fits snug right on top of the vertical leg of the chair and requires no screws or hardware. You can attach it to either side of the chair. The accessories slide on and off of the mount for easy set up and removal. The mounts can even be left on when folding up the chair for storage.

I made a few different size cup holders:

Can/Bottle Holder (67mm diameter) - made specifically to fit a standard 12oz bottle or can.

Small Cup Holder (75mm diameter) - fits water bottles, or things slightly wider than a can.

Large Cup Holder: (105mm diameter) - fits large mugs, like the 14oz Yeti Rambler.

All of them have handle slots on both sides to allow for cups with handles.

I also made a simple phone holder which fits a standard smart phone. Phone slot is 15mm x ~90mm. Tested with iPhone 13 Pro and Pro Max, both easily fit, even with a case on.

Print Settings

I printed these in PETG so they would hold up better outdoors with sun exposure and temperature changes when camping, but PLA should work fine as well.

Printer: AnkerMake M5

Filament: PETG

Infill: 20% Gyroid

Perimeters: 7

Solid Layers: 7 top, 5 bottom

Supports: No supports required for any of the parts. The mount attachment has a small bridge, but not enough to need supports. Print in the orientation set in the STL files.

Layer Height: 0.2mm

Additional Notes

Depending on your printer and filament, the tolerances may be different for how tight or loose the attachment pieces fit into the mount. I included a Test Fit STL file. Print the mount and test piece first to try it out before printing an entire attachment. If you find the test piece fits too loose or too tight in the mount, there is a setting in PrusaSlicer called XY Size Compensation that works well for small adjustments like this. Try adjusting that setting on the test piece by a small amount, such as 0.1 or -0.1 (positive number will make the piece thicker, negative number will make

the piece thinner). Then once you have it fitting to your desired tightness level, use that same setting on the accessory attachment you want to print.

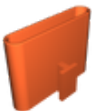
Updates

9/6/23: I increased the size of the Large Cup Holder from 100mm to 105mm. The 14oz Yeti mug needed a few extra mm to fit comfortably. Also added a new 75mm Small Cup Holder size for when you want to hold things a bit larger than a bottle/can but not quite as large as a giant mug.

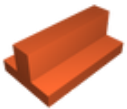
Model files



alps-chair-accessory-mount.stl



alps-chair-phone-holder.stl



alps-chair-test-fit.stl



alps-chair-large-cup-holder-105mm.stl



alps-chair-small-cup-holder-75mm.stl



alps-chair-can-bottle-holder-67mm.stl

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