



Batwing - Batman



AlexT

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Summary

A movie accurate rendition of The Batwing from Batman (1989) that requires no supports and minimal assembly.

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This is a movie accurate rendition of The Batwing, an air combat vehicle that Batman uses - this particular design is from the Batman (1989) movie. I have always loved cool fantasy and sci-fi vehicles, and the Batwing stood out to me for its sleek, flashy design. I designed the entire model in Fusion360, referencing photos and schematics of the prop used in the actual movie. I did my best to replicate all of the intricate details, ensuring they converted well to the 3D printing medium. This model is printable even on small printers like the A1 Mini or Prusa Mini without any supports required.

There are also two display stand options featuring the Batman logo. One is a minimalist, smaller stand with an accentuating logo on top. The other is a stand inspired by the logo from the Batman (1989) movie that makes use of the AMS to print in dual black and yellow colors. The stands also come with an optional magnetic connector for easy attachment. This additional feature allows the Batwing to snap to the stand, and in my testing the stand was able to be completely inverted without the Batwing falling off.

Printing & Assembly

There are multiple print profiles available with all of the necessary parts laid out. This model was test printed with a 190mm wingspan - it is rotated 45 degrees on the print bed to fit within a 180mm x 180mm space, meaning it fits completely within the A1 Mini. It is recommended that you print using the highest possible resolution (high quality, 0.08mm layer height) to capture as many details as possible. No supports are required.

Wait for the print bed to cool down before removal to ensure the wings don't warp. Then, connect the upper and bottom halves using two copies of the cylindrical connectors - spread superglue across the wings so they stay together and don't split over time. You can optionally clamp the wings together while the glue is drying for a better join.

You can glue small **5mm x 3mm cylindrical magnets** into the holes on the top of the stand and bottom of the Batwing. There are also alternate files to accommodate **6mm x 2mm cylindrical magnets** due to a request. These magnets are completely optional and the model will still fit on top of the stand either way.

Thank you to PCBWay for sponsoring this project!

PCBWay offers a wide variety of manufacturing options including CNC machining, electronics design, and 3D printing of course. This enables makers anywhere to tackle new workflows and simply build cool stuff, all at an affordable price. I highly recommend checking them out at www.pcbway.com to see how they can meet your production needs—the ordering process is quick and it's easy to get a quote for any project, small or large.

Model files



Bottom + Stand - 5x3mm Magnet

6 files



batwing-bottom.stl

☐ mount on bottom with 5x3mm magnet slot



batwing-stand.stl

☐ 5x3mm magnet slot on top



batman-logo.stl

☐ glue and insert pegs into batwing-stand



batwing-stand-2.stl

☐ alternate stand design, 5x3mm magnet slot on top

batwing.3mf

☐ Bambu Lab .3mf for all needed parts

batwing-stand-2.3mf

☐ alternate stand design - two color painted .3mf



Bottom + Stand - 6x2mm Magnet

6 files



batwing-bottom-6x2-magnet.stl

☐ mount on bottom with 6x2mm magnet slot



batwing-stand-6x2-magnet.stl

☐ 6x2mm magnet slot on top



batman-logo.stl

☐ glue and insert pegs into batwing-stand-6x2-magnet



batwing-stand-2-6x2-magnet.stl

☐ alternate stand design, 6x2mm magnet slot on top

batwing-6x2-magnet.3mf

☐ Bambu Lab .3mf for all needed parts

batwing-stand-2-6x2-magnet.3mf

☐ alternate stand design - two color painted .3mf

batwing-top.stl



batwing-bottom-no-mount.stl



☐ no mount (if you don't want to use the stand)



batwing-connector-beveled.stl

☐ print 2x

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