

Drone Bumper Replacement - during Drone practice flight of the x500 starter drones we lost a few bumpers. [Retail price on replacement propeller guards is \\$7.99](#)



Resources used

myminifactory.com

[Tinkiner Cad](#)

3D Printer - Please read up on the type of printers we have

Filament

[Template](#)

Monday, November 7:

We found a template for the propeller guards, and decided how we would design the guards.

We started working in [TinkerCAD](#).

Tuesday, November 8:

We continued to work in TinkerCAD coming up with a suitable design and measuring the drone so that we could fit the guard properly.

Wednesday, November 9:

We continued to clean the best we could, smoothing up the edges in Tinker. We have our measurements listed below and are working to translate those measurements into our design so that we can print.

Thursday, November 17:

We printed today, and our first version was not viable, and fell over. We created a second version with supports and started the print.

Measurements—

Guard clip points(3): 5 mm height 3mm

Diameter of clip: 17mm

Height of clip-5 mm

clip-Blades: 10 mm

Blade length=75 mm tip-tip

Total height 30 mm

Must be 30 mm away from clip at blade height

Help Desk:

2/22: Cody and Dylan added supports to the bumper design, while working on the 3D printing station.

2/23: Cody and Dylan worked on printing the design while continuing to set up the printing station, managing cables.