



# HANDLE for the Elegoo Saturn 4 / 4 Ultra



GeekDetour

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## Summary

Handle for the Elegoo Saturn 4 Resin 3D Printers - to open the Lid using only one hand, easy and clean.

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[resinprinterupgrade](#) [elegoosaturn4](#) [elegoosaturn4ultra](#)

This Handle allows you to open the flip-up cover of your Saturn 4 (and 4 Ultra) using only one hand - without actually touching the lid.

I designed 2 variants of the model:

- original model using **M3 Screws** and **Brass Inserts**, so I printed mine in PLA (could be PETG, ABS or any other filament you are comfortable to use heat-set inserts). This is the one I installed in my Saturn 4 Ultra. It includes a drilling guide to be printed and used for perfectly aligned holes.
- **ADHESIVE Double-Sided Tape** model (no screws, no holes)

**Screws version:**

#### Materials:

- M3 Screws, 10mm long (x2)
- M3 Washers (x2)
- M3 Heat-set Threaded Brass Inserts - 4.6mm knurl, 5.7mm long (x2)

#### Tools:

- 3mm drill bit
- Screwdriver
- 2 Clamps (wood working bar clamps) hold the Drilling Guide part in place
- Soldering Iron with tips for head-insert installation

#### **Adhesive (non-drilling) version:**

#### Materials:

- Double-Sided, heavy duty, Adhesive Tape

#### Tools:

- Cutter, Scalpel (bisturi) or any Precision Knife to trim the double-sided tape to follow the shape of the back of the handle.

**Important:** if you decide for the original Screwed (drilling) model, check the Photos for drilling and installation. ALSO, you are permanently modifying your printer, so consider the warranty implications (Elegoo might not accept your printer back if you need to send it over).

Lay back the Saturn 4 on a table, flip the LID open so you can work on the inside. The drilling guide is placed on the inside of the lid, completely touching the lip - so it gets perfectly horizontal. Use a sacrificial piece of wood on the outside, so the lid is “sandwiched” between the drilling guide (on the inside) and the wood (outside). Then hold things in place using wood working Clamps. Then you can easily drill the holes.

The washers are used from the inside, to spread the force of the screws against the plastic cover. Washers are very important!

**Video** of my Saturn 4 Ultra using this **Handle**, on my YouTube channel:

<https://youtu.be/mL6bE-EeG34>

# Model files



## Fusion 360 Models

2 files

### elegoo-saturn-4-handle.f3d

☐ Fusion 360 project

### elegoo-saturn-4-handle.step

☐ STEP file for the project



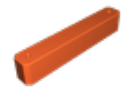
### saturn-4-ultra-handle.stl

☐ Uses M3 screws and heat-set brass inserts (you need to drill the cover)



### saturn-4-ultra-handle-adhesive-tape-no-drill-version .stl

☐ Uses Double-Sided Tape to fix the back of the handle. Reversible to the original state.



### saturn-4-ultra-handle-drilling-guide-template.stl

☐ Use Clamps and a 3mm drill bit to make the holes from the inside of the lid

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