

Elegoo Centauri Carbon Side Panel Hinge Set

Synthetic Electron 3D

VIEW IN BROWSER

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Summary

Allows the right side panel of your Centauri Carbon to be opened for changing filament, photography, and maintenance.

3.00 hrs	1 pcs	0.24 mm	0.40 mm	PLA	86 g	Elegoo Centauri Carbon

3D Printers > Other Printer Parts & Upgrades

Tags: hinge carbon elegoo hingedcase centauri

Easy-Install Hinges for Your Centauri Carbon Side Panel

Tired of removing the whole panel just to get inside your printer? These **side panel hinges** let you swing open the right-hand panel of your **Elegoo Centauri Carbon** like a door, so you can:

- Swap filament fast
- Access wiring and internals
- Clean and upgrade without unscrewing everything

This is a **great beginner-friendly mod** that makes your build easier to live with and feel more pro.

What You'll Need

Here's everything you need to get started:

Print Files

- Included .3MF file contains hinge parts for different panel spacers (5 mm)
- Use a **stiff filament** for best results (see filament tips below)

Spacer

- You'll need a **panel spacer** to support the hinge and hold your fasteners
- We recommend the 7.5 mm Centauri Carbon Panel Spacer. It's thin, strong, and compatible with internal spool holders
- Using a 5 mm spacer? See the Internal 1kg Spool Mount Kit

Hardware

You'll want:

- **M3 screws** (typically M3x10 or M3x12, depending on spacer)
- **Knurled brass heat-set inserts** (way better than press-fit nuts, cleaner and stronger)
- Optional: a **heat insert tool** for installation

Shop starter hardware kits (affiliate links):

- M3 Screw + Insert Assortment Kit
- Heat-Set Insert Tool

Filament Recommendations

You'll want something **stiff and heat-resistant**. Here's a quick guide to help you pick based on your setup:

Level	Material	Pros	Cons	Recommended Filaments
Good	PLA / PLA-CF	Inexpensive, stiff, easy to print	Lower heat resistance may cause sagging in warm enclosures	Creality Hyper PLA-CF, Polylite PLA

Better	PETG-CF	Stiff + impact/heat resistant, beginner friendly	CF is abrasive, with fewer colors	Fiberon PETG-rCF08, Tinmorry PETG-CF
Best	PET-CF17	Maximum stiffness & resistance engineering-grade mod material	Expensive, fewer profiles/colors	Fiberon PET-CF17

⚠ Avoid basic PLA if you run high chamber temps or leave the panel open for long periods, it may warp or sag.

Shop recommended filaments (affiliate links):

- Creality Hyper PLA-CF
- Polylite PLA
- Fiberon PETG-rCF08
- Fiberon PET-CF17

Print & Install Tips

Print settings:

- Use 0.2 mm layer height or finer for smoother hinge movement
- Print hinges **lying flat** to maximize strength
- Print pins **horizontally** to align layer lines perpendicular to sheer forces

Assembly tips:

- Use a heat-set insert tool to melt the brass inserts into the spacer
- Don’t overtighten the screws; snug is good
- Let parts **fully cool** before installing to avoid warping

Related Mods to Try Next

- Centauri Carbon Quick Release Panel Spacer (a no-hinge solution for tight setups)
- Centauri Carbon Cantilever Drop-Pin Hinges (another tool-free panel mod)
- Internal Spool Mount Kit (get that spool tucked inside for a cleaner build)

If you don’t have everything yet, you can **click the links above to grab the inserts, filament, and tools**. They’ll work for numerous other mods as well.

❤ Support Our Work

If you found this helpful, please consider using the **affiliate links above** when buying your supplies.
It doesn’t cost you anything extra, and it helps support more mods like this from Synthetic Electron 3D. Thank you!

Change Log

2025-07-20: Moved Cantilever Drop-Pin Hinges out of the club. (Need support with affiliate links.) [Thank you!]
2025-07-03: Added Cantilever Hinges for Club Members
2025-06-24: v1.2 (5 mm spacer) [hole fit improvements]
2025-06-21: v1.2 (7.5 mm spacer) [hole fit improvements]

Model files



ecc04-side-hinge-kit.3mf



ecc04-side-hinge-kit-v11.3mf

Adds plates for those using a few different spacer sizes



ecc04-side-hinge-kit-75mm_v12.3mf

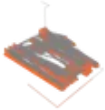
v1.2 for 7.5mm spacer only. Tunes hole locations for a better fit.



ecc04-side-hinge-kit-5mm_v12.3mf

v1.2 for 5mm spacer only. Tunes hole locations for a better fit.

Print files



es_ecc_04-side-hinges_for-75mm-spacer_v12_pla-cf024… .gcode

PLA 0.40 mm 0.24 mm 3.00 hrs 86 g

Hinges and Pins Only. Tuned for Creality Hyper PLA-CF on CC.

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