

Neptune 4 Max Screen Mount Print & Hang Guide

One part, four printed hooks, and your controller off the bench.

[One Plate](#)[Tree Supports](#)[Pre-Configured 3MF](#)

Built by MakerX Designs · Virginia Beach, VA · makerxdesigns.com · © 2026

The Neptune 4 Max's touchscreen unplugs from the printer, which is useful until it is loose on the bench under a spool. This cradle puts it on the pegboard, still plugged in and still usable.

In the download

File	What it is
makerx-skadis-mount-neptune-max-controller.3mf	Start here. One part, one plate, tested profile, supports set up.
makerx-skadis-mount-neptune-max-controller.stl	The raw mesh for your own slicer. Hook-plate down, cradle up, tree supports on.

1 · What you are printing

The part	
On the plate	70.0 × 134.7 × 60.9 mm (2.8 × 5.3 × 2.4 in)
On the board	Takes a patch about 70 × 61 mm and stands 123 mm off the face
Hooks	4 printed hooks, two rows of two · no screws, no adhesive
Magnet (optional)	13.0 × 3.2 mm pocket in the cradle face · 1/2 in × 1/8 in disc, plus a drop of superglue
Holds	The detachable Neptune 4 Max touchscreen — the screen unit only
Costs you	59.62 g PLA · 3 h 49 m

Plate footprint plus a 5 mm brim each side is about 80 × 145 mm, so bed space is not the constraint here — a 180 × 180 machine takes it.

2 • Slice it

- 1 Open `makerx-skadis-mount-neptune-max-controller.3mf` in Creality Print, or any slicer that imports 3MF project files.
- 2 When it asks whether to load the project's print settings, **say yes** — that is the whole point of the 3MF, and it brings the support setup with it.
- 3 Confirm your printer and filament, then slice. Using the STL? Lay it hook-plate down so the cradle faces up, and turn tree supports on.

★ Supports are not optional here

The four hooks are horizontal tabs off a vertical plate, so every one of them starts in mid air, and the cradle throat bridges over nothing. Tree supports on auto at 30 °: **6.72 g**, about forty minutes, and they come off by hand.

3 • The profile baked into the 3MF

Using your own instead? Match these — sliced and print-tested on a Creality Hi 2, 0.4 mm nozzle.

Quality	
Layer height	0.12 mm (0.20 first layer)
Walls	3 loops
Top / bottom	5 / 5 layers
Infill	15 % grid

Supports & adhesion	
Supports	Tree, auto
Threshold	30 °
Brim	Outer only, 5 mm

Material & plate	
Filament	PLA as sliced · PETG if the printer runs hot beside it
Nozzle temp	220 °C
Bed temp	60 °C
Plate	Epoxy resin

What it costs you	
Print time	3 h 49 m
Part	52.90 g
Support	6.72 g

4 • Before you hit print

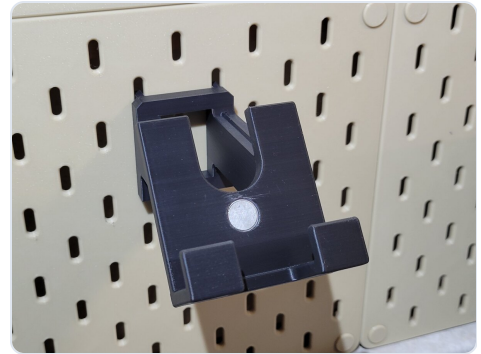
- ☐ About 80 × 145 mm of clear bed, brim included.
- ☐ Tree supports and brim confirmed **on**.
- ☐ Around 70 g of filament left on the spool.
- ☐ Optional: a **1/2 in × 1/8 in disc magnet and superglue**. The 13.0 × 3.2 mm pocket is a glue fit, not a press fit.
- ☐ A clear patch of board roughly 70 × 61 mm, with two slot positions free each way, somewhere you can reach the screen without leaning over the printer.

5 • Off the plate

- 1 Let the plate cool completely, then flex it and lift the part off.
- 2 Peel the brim away from one corner and work it around the base.
- 3 Twist the trees off by hand. They sit under the hooks and in the cradle throat, and each one generally lets go in a single piece.
- 4 **Clear the throat of every hook.** The gap between the hook lip and the back plate is where the support started, so it is where the last crumbs hide. Run a fingernail or a deburring blade through all four.
- 5 Check the two cradle lips at the bottom. Anything left standing proud there holds the screen out of the cradle and makes it look like the fit is wrong when it is not.

★ The throats are the only fussy part of this build

A hook with support still in its throat will not drop onto the board. If the mount sits proud of the wall or will not seat evenly, this is why — not the board.



Cleaned up and hanging. The cradle throat and the two lower lips are where the supports were — they need to be clear before the screen will seat. The board here is a printed Skadis-pattern panel, not a store-bought one.

6 • Hang it and load it

- 1 Line the **top row** of hooks up with a row of slots and push them through.
- 2 Let the mount drop about 5 mm. The lips catch behind the board and the bottom row swings in against it.
- 3 Press it flat to the board and check it sits square before you trust it with the screen.
- 4 Set the controller into the cradle back-first and let it settle onto the two lower lips. Route the ribbon or USB-C lead down through the gap under the cradle so it is not pinched between the screen and the plate.



Hooks to the board, square on, then let it drop. It comes off the same way in reverse — nothing screws, clips or glues.

7 • What it holds, honestly

- **The screen unit, not the printer.** This is sized for the detachable Neptune 4 Max touchscreen controller. It is not a mount for the printer body and not a general-purpose tablet holder — a tablet in a case will not sit in this cradle.
- **Tap it, do not lean on it.** It stands 123 mm off the board, which is real leverage on four printed hooks in a plastic panel. Rigid enough to work the touchscreen where it hangs — not rigid enough to be a handhold.
- **PLA is fine unless it lives somewhere warm.** The mount ships sliced in PLA and that is what is in the photographs. If it is going on a board right beside an enclosed printer, print it in PETG.

Where precision meets the printer

Thanks for printing this one. If it got your controller off the bench and put it somewhere you can actually read it, that is exactly what it was designed to do.

For years my design world existed entirely behind a screen. As a mechanical engineer I spent countless hours building complex CAD models, but there was always a missing link — the ability to hold an idea in my hands. That changed in January 2026, when I went headfirst into 3D printing. The moment that first layer stuck to the bed, the gap between concept and reality vanished.

Coming from a background where precision is everything, tolerances aren't suggestions to me — they are a religion. I didn't want to print trinkets; I wanted to apply industrial engineering discipline to desktop manufacturing. Every wall count, every layer height and every infill percentage in this guide is a deliberate decision backed by testing. If a part can't handle the environment it was built for, it goes back to the drawing board.

Three principles behind every print

01

Functional Engineering

High-utility, real-world solutions rather than purely decorative models. If it doesn't solve a practical problem, it doesn't leave the workstation.

02

Rigorous Tolerances

Designed in professional CAD with mechanical intent — press-fits that click and assemblies that work straight off the build plate. No sanding, no filing, no guesswork.

03

Bridging the Gap

Industrial structural integrity at maker speed. Proving a desktop printer can produce parts worthy of real engineering applications is what drives every release.

The workshop

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IF THIS ONE EARNED ITS SPOT

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Running a different printer with a detachable screen? Leave a comment with the make and the screen's outside dimensions. That is where the next cradle starts.

Happy printing. — MakerX Designs · makerxdesigns.com · © 2026