

# Unboxing your Glowforge

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# Get to know your Glowforge

## Technical Specs

### Material Capability

- 19.5" by 11" (Glowforge Basic and Plus)
- 19.5" by ∞ (Glowforge Pro)
- Maximum material height: 2" (50mm)

### Software

- Drag-and-drop with live camera preview
- Works with Mac, PC, iPhone, Android, and more
- JPG, PNG, SVG, PDF, and more

### Hardware

- Dual cameras: wide angle & macro
- Custom 40W (Basic) / 40W (Plus) / 45W (Pro) laser
- Precise to 1/1000th of an inch
- Full Autofocus







## Don't throw away the little things

It's not easy to keep a 3D laser printer safe during transit. We've created many special-purpose inserts to protect your printer from every angle. You'll need them all for future transit and shipping.

## What's included with your Glowforge Pro?

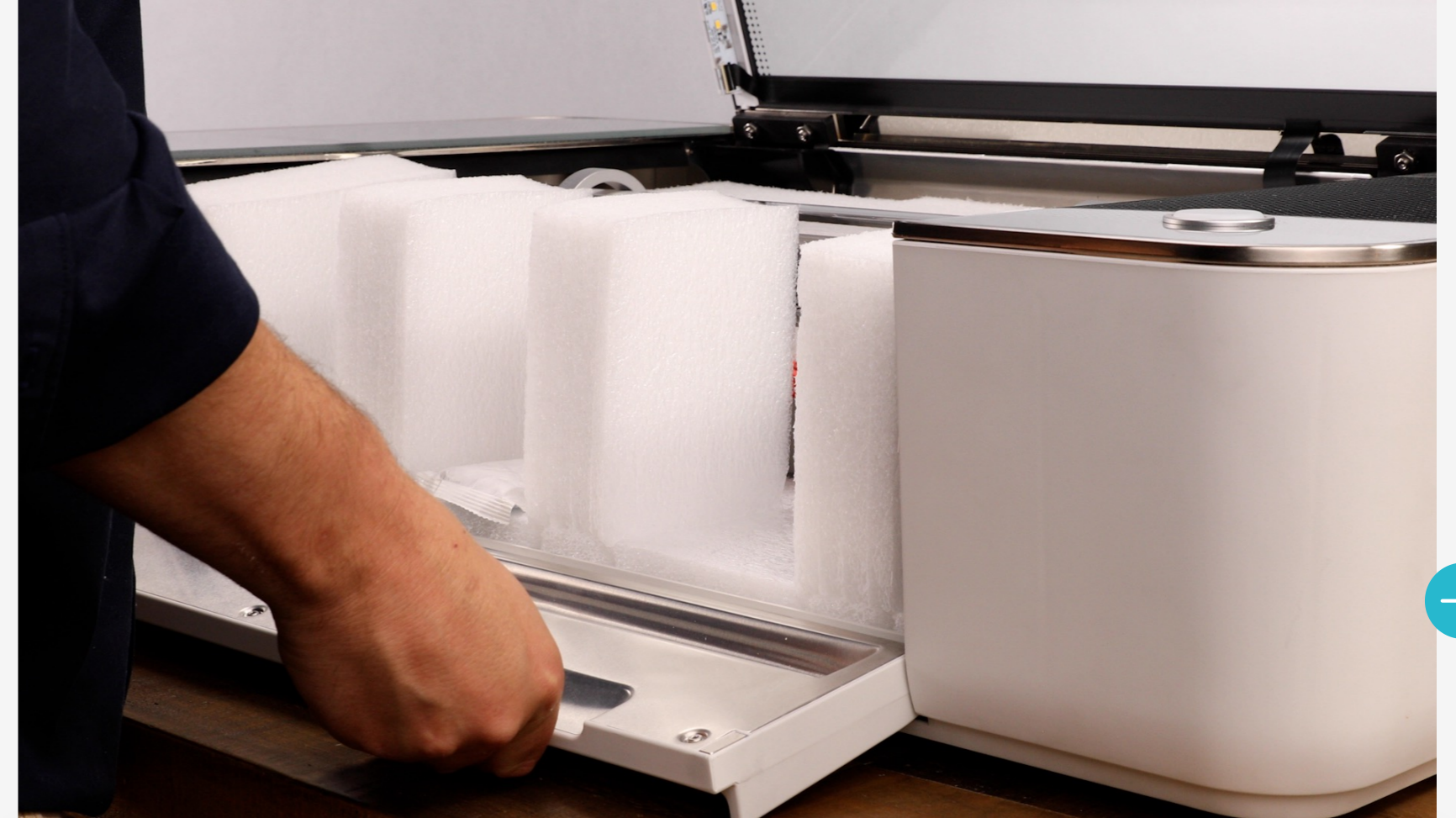
- Exhaust Hose
- Crumb Tray
- Ring Clamps
- PowerCord
- Printer Head
- Lens Tool
- Proofgrade™ Starter Pack
- Air Filter





## Choose a location for your Glowforge and Air Filter

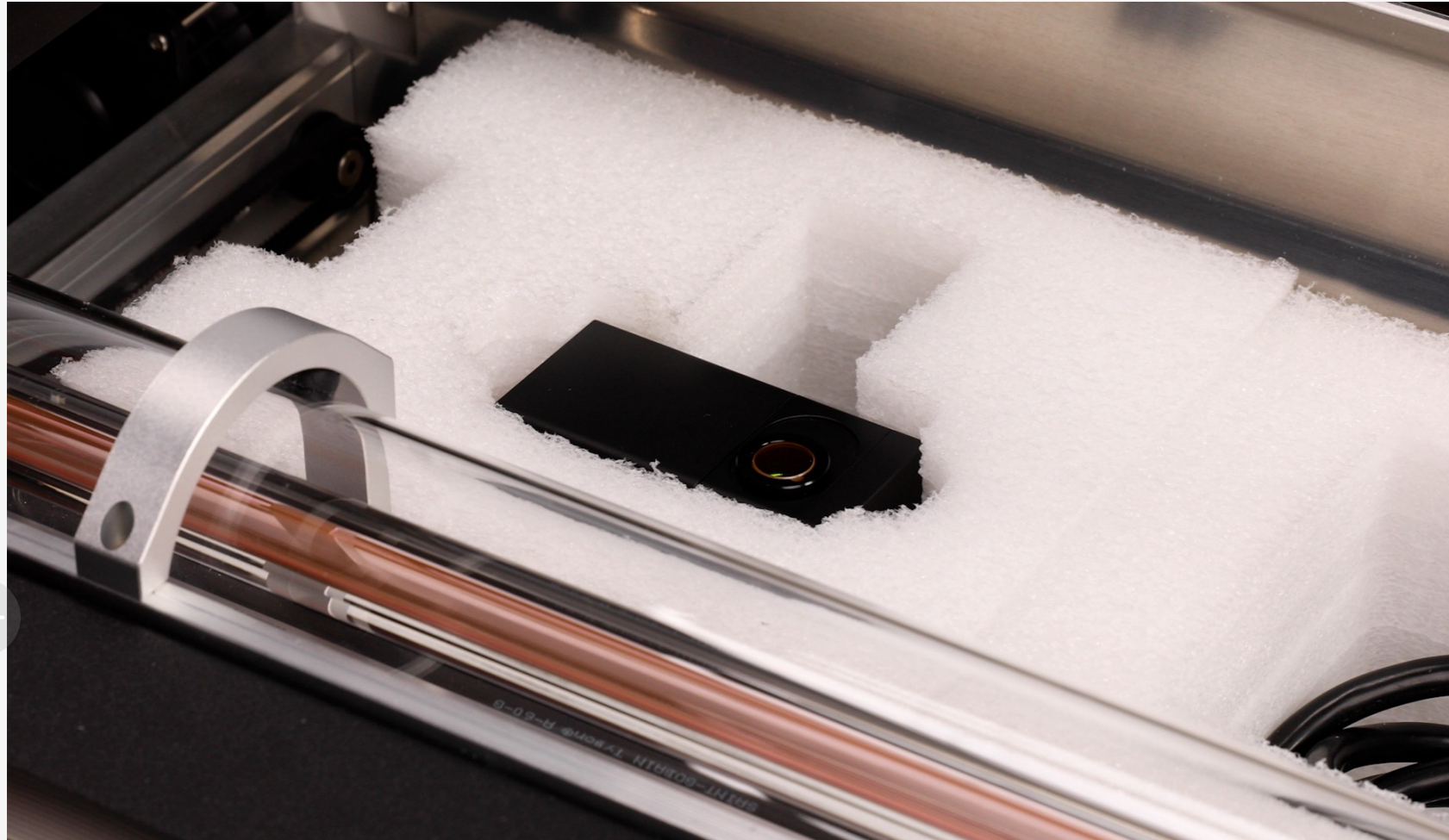
With the Air Filter attached, your Glowforge can live wherever you work best. If you're venting outside instead, just set up near a convenient window or garage door.



## Remove the Foam Blocks

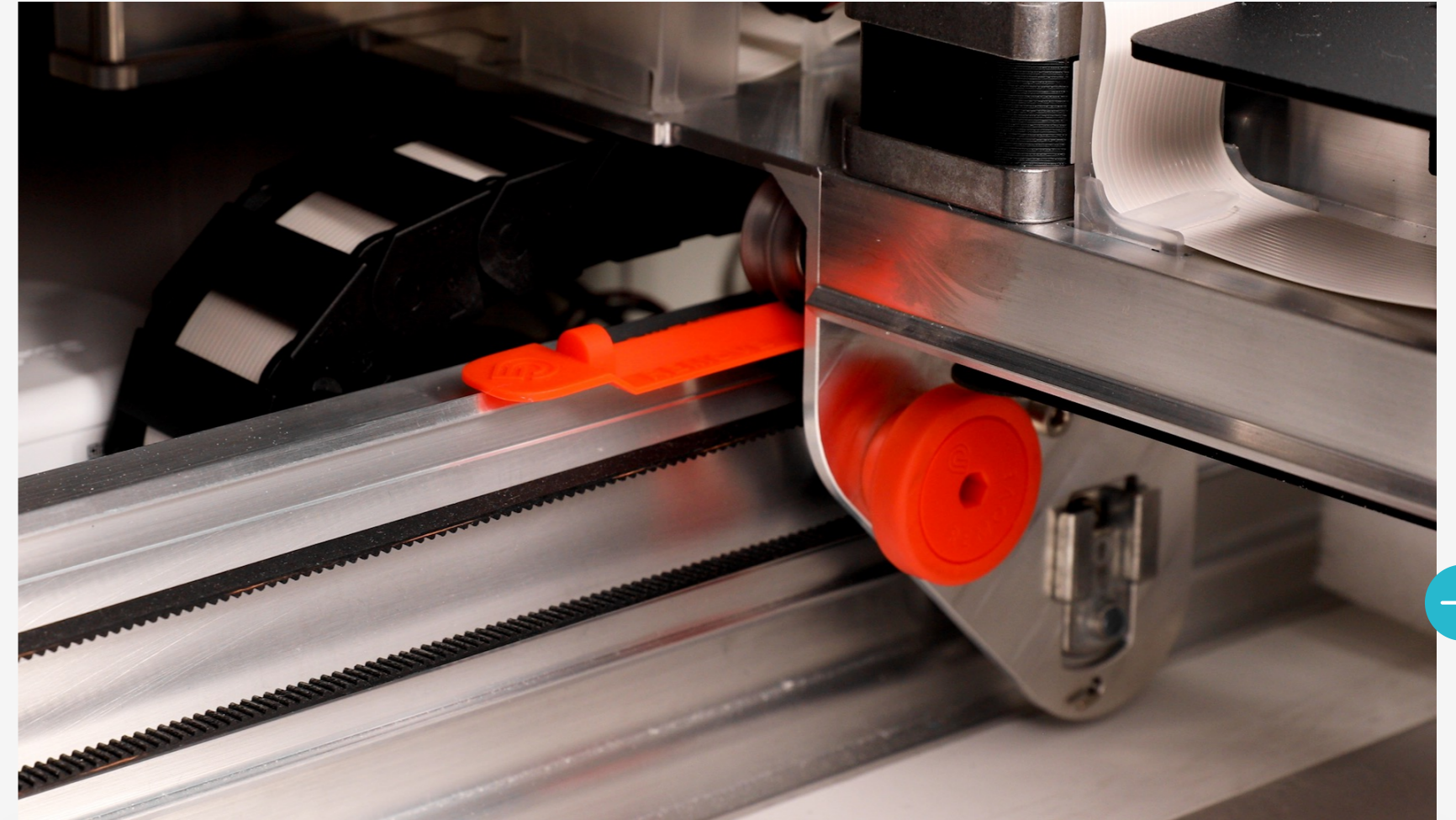
These keep all of the interior moving parts stable during transit. Place them inside your Glowforge box for storage and re-use.





## Reveal Printer Head

This is where the magic happens. When handling, only grasp the surfaces with a matte black finish. Be careful not to touch the lens.



## Remove Important Red Bits

All of these red (or orange) pieces are for safe shipping, and should be removed before use. Keep them with the rest of your packaging, because you'll need to re-use them for future transit.



# Setting up your Glowforge

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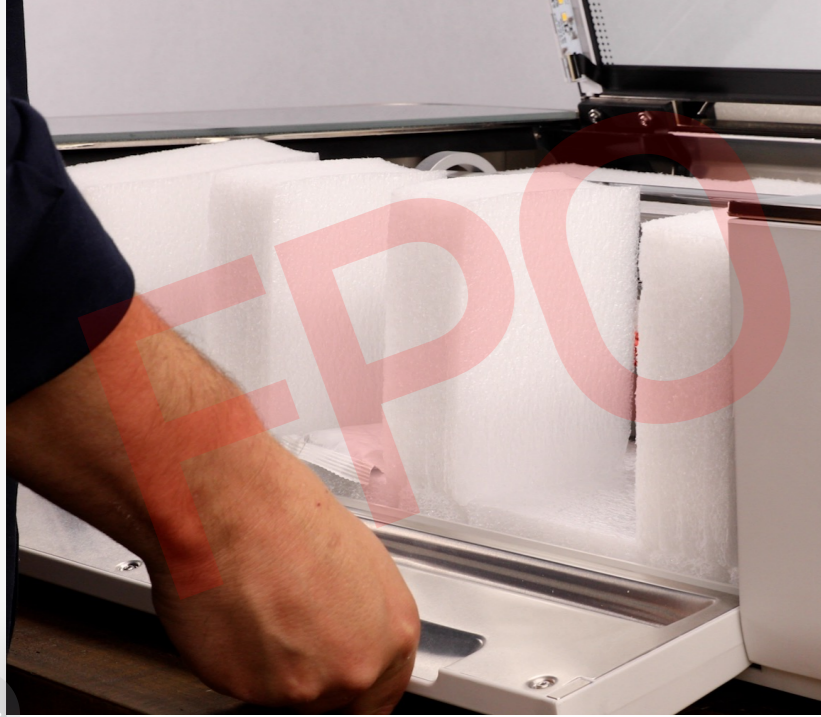
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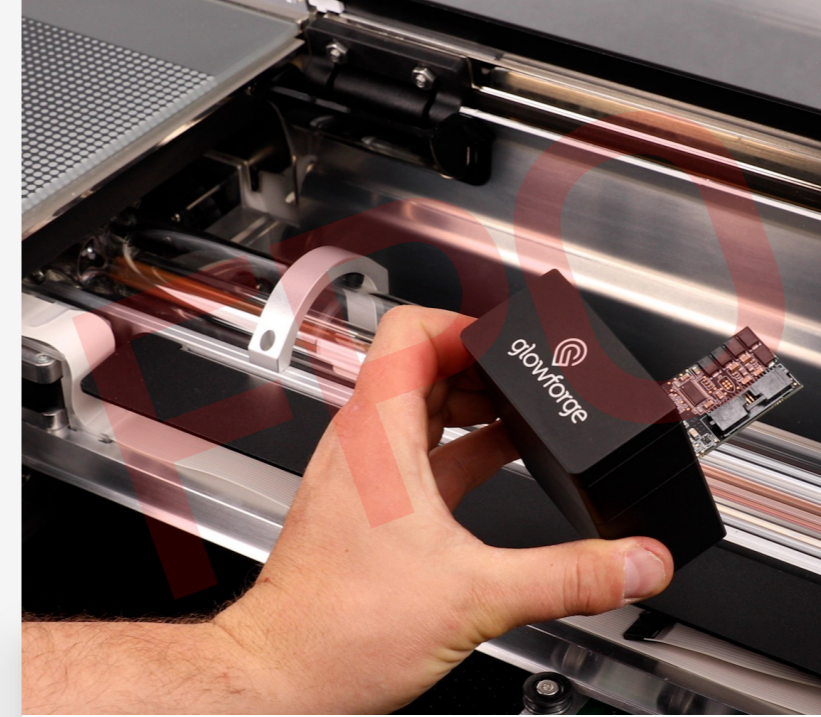
## Keep Glowforge Powered Off

We know you're excited but don't turn it on just yet...



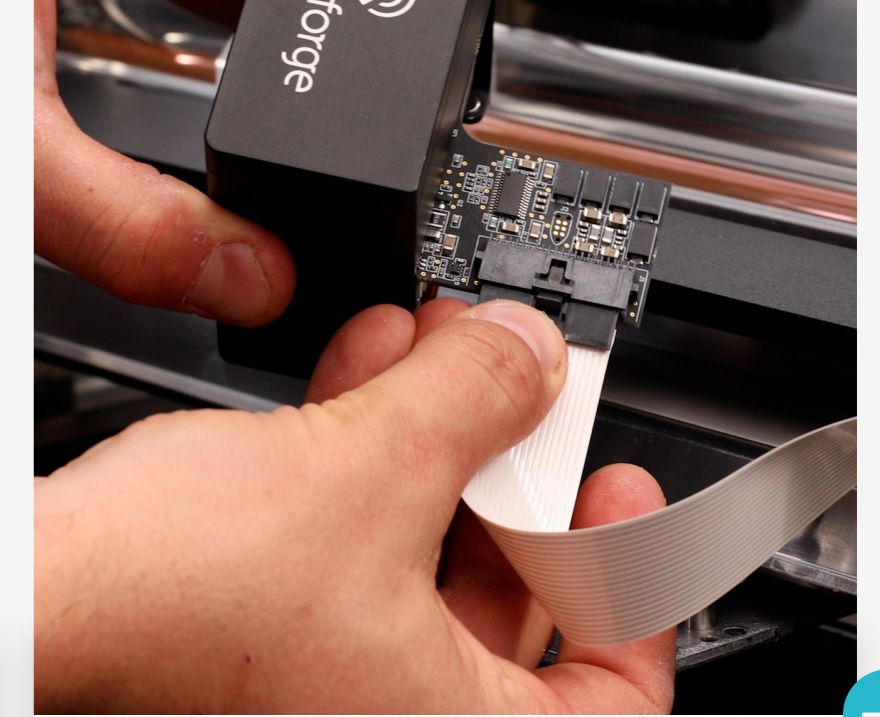
## Slide in the Crumb Tray

The honeycombed metal tray should slide easily to cover the interior bottom of your Glowforge.



## Pick up the Printer Head

As pictured, touch only the finished black surfaces when handling. Stay clear of the lens, and the lens will stay clear too!



## Slide the Ribbon into the Head

The ribbon connector, which is already attached on one end to the laser arm, slides into the port on the side of the laser head. Attach straight-on, not at an angle.





## Attach Printer Head

Magnets in the laser head will snap into place when you position them over the carriage plate on the laser arm (already attached).



## Setup Air Filter close to Glowforge

Place your Air Filter nearby your Glowforge. For the best air flow between your Glowforge and the Air Filter, position to minimize the number of required bends in the exhaust hose. Under a desk works great!



## Connect Exhaust Vent

Place the wire exhaust clamp over each end of the hose. With the clamp expanded, slide the hose over the exhaust port on the back of your Glowforge, and over the intake port on your Air Filter. Release the clamps, and wiggle gently to check for a secure fit.



## Connect to Electrical Power

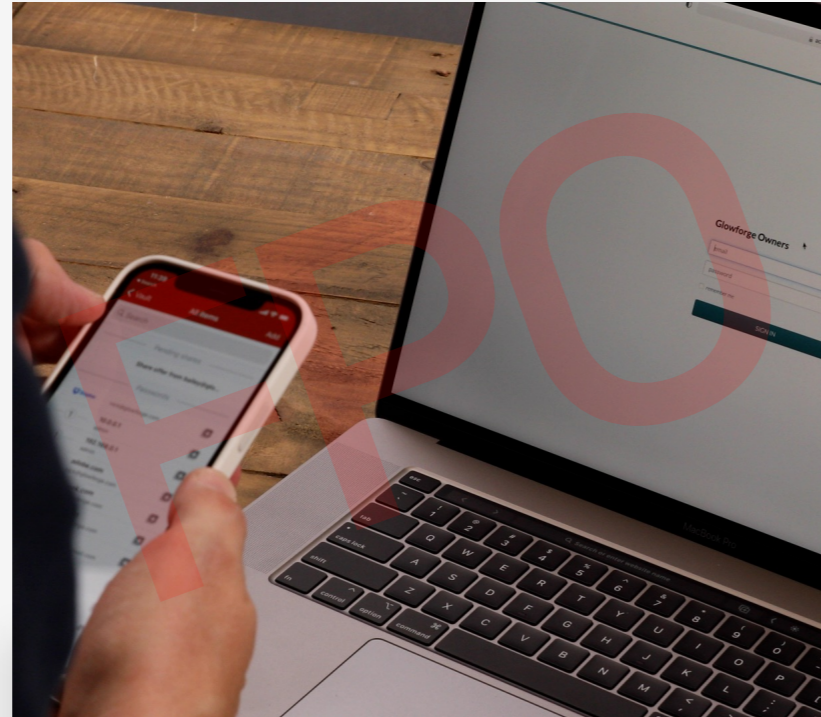
It's showtime! Now that you're done assembling, you can plug your Glowforge in.



### Glowforge Owners

 remember me [Need help?](#)

OR



## Connect to Glowforge's Wi-Fi

Follow the instructions on screen at URL to connect directly to your Glowforge. It creates its own WiFi network first, so that you can wirelessly connect and then introduce it to your home network.



## Wait for Printer Head to position and calibrate

Your Glowforge will take a second to get its bearings the first time you turn it on.

## Go Online to Begin Setup

Visit [app.glowforge.com](http://app.glowforge.com) with your favorite web browser. You'll be able to create your account (if you haven't already).



# Print a design

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Get Started 





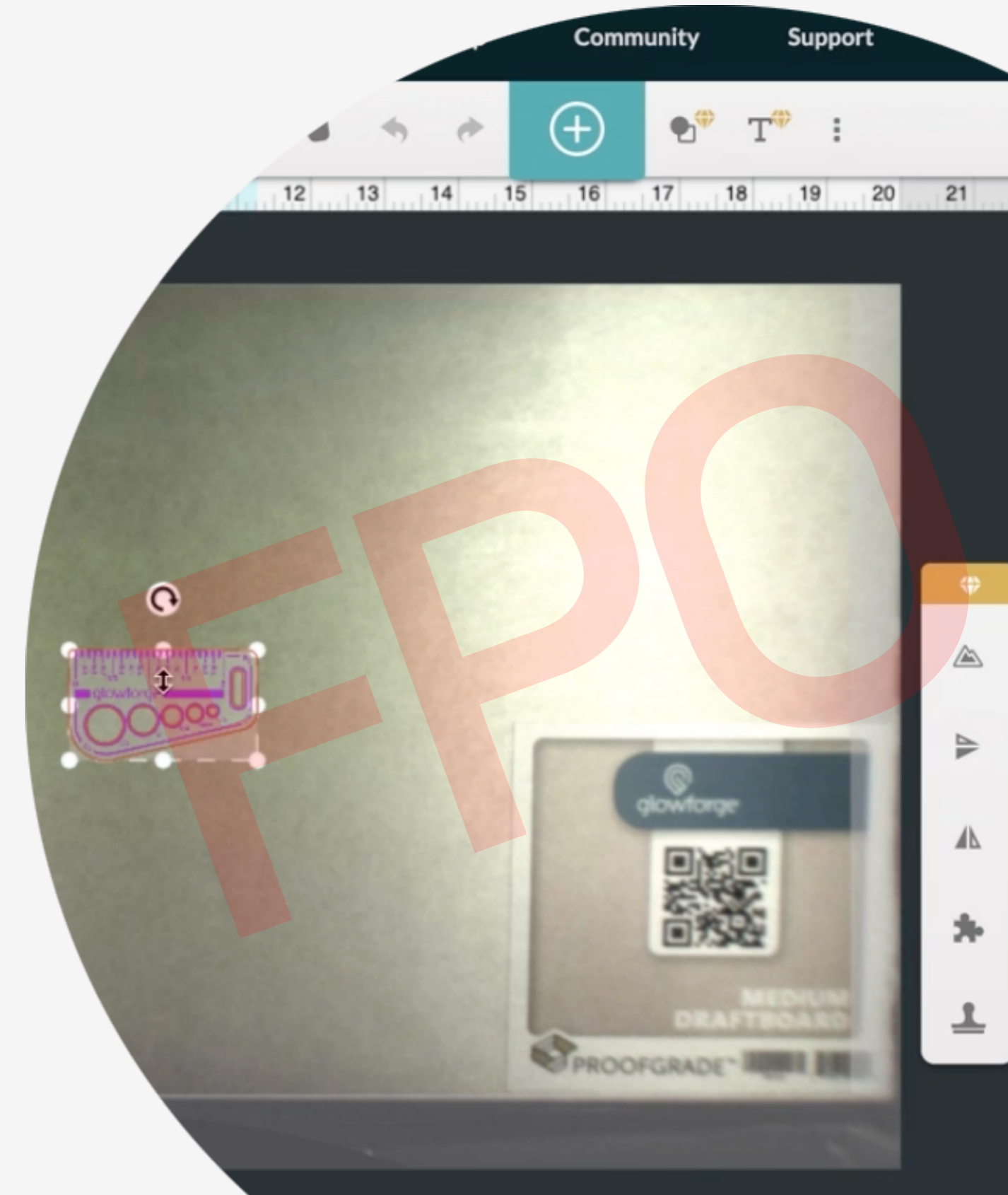




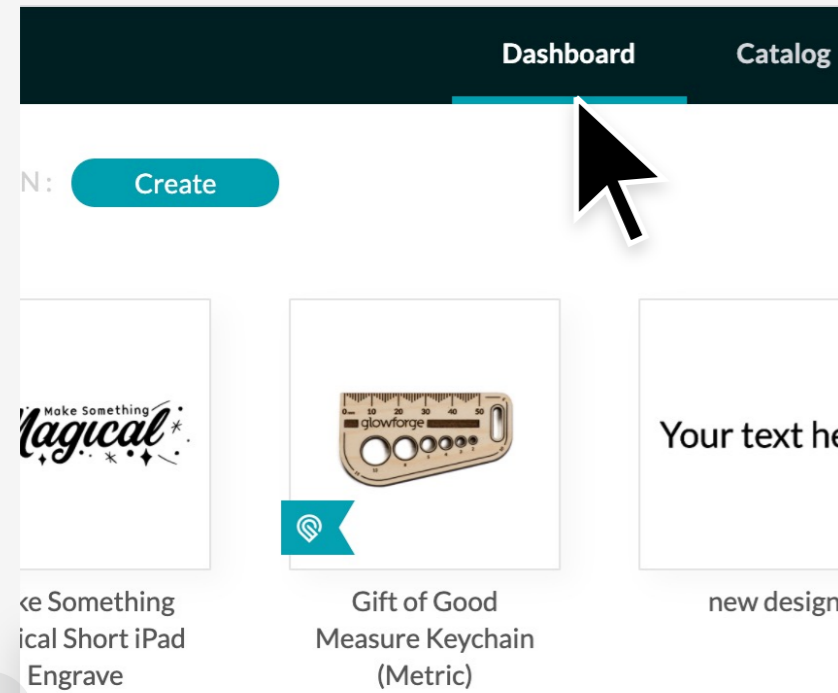
# Make a keychain

The community's favorite first print.

Whether you start with stone or wood, glass or ceramic, it only takes a few minutes to print this keychain that you can use right away. Follow along to work your first little bit of magic.







## Open the Dashboard

After creating account, go to your dashboard. This is where you'll find all of your designs. We've pre-loaded it with a few popular prints.

[Go to Dashboard →](#)



## Choose the Gift of Good Measure

Click on this Gift of Good Measure Keychain design. It's a classic in the Glowforge community for a reason – it simple and fun!



## Load Proofgrade™ Material

We've included several types of hardwood and veneered plywood to choose from. Place the piece on the crumb tray.



## QR Code must be visible

This code sticker is how your Glowforge knows exactly what type of material you just placed inside. Don't cover it up or tear it off.





## Place and Size Your Design

Choosing where to place your design on the material is drag-and-drop simple.



## Time to Print

When you're happy with the placement of your design, press Print in the app.



## Press Button Make Magic

Once your Glowforge has done all of the math required to print your design, the button will light up. Give it a press, and your print will begin. Easy, right?



## Lift Lid to Reveal Your Print

All done? Go ahead and remove your print – it'll pop right out. Don't worry – it's not hot.



# We can't wait to see what you create!

Have questions?

Contact Us →





# Print a design

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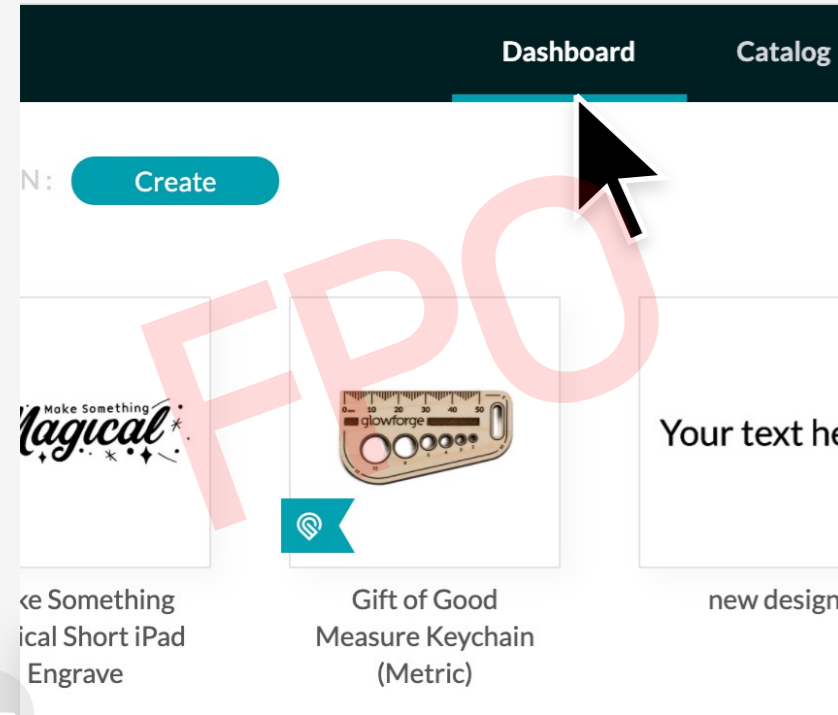
# Make custom coasters

The community's favorite first print.

Whether you start with stone or wood, glass or ceramic, it only takes a few minutes to print coasters that you can use right away. Follow along to work your first little bit of magic.







## Open the Dashboard

After creating account, go to your dashboard. This is where you'll find all of your designs. We've pre-loaded it with a few popular prints.

[Go to Dashboard →](#)



## Choose the Coaster Design

Click on this hexagonal coaster design. It's a classic in the Glowforge community for a reason – it looks great in any room.



## Load Proofgrade™ Material

We've included several types of hardwood and veneered plywood to choose from. Place the piece on the crumb tray.



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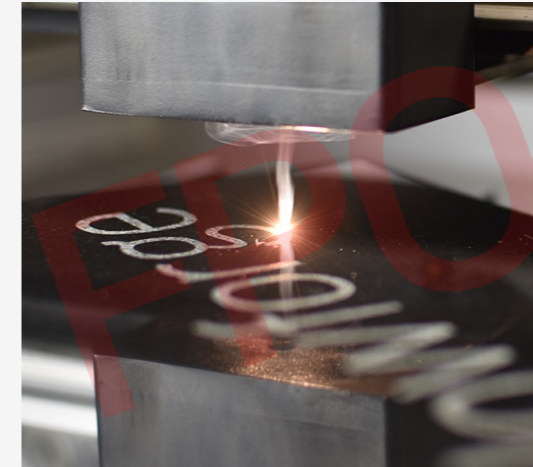
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# Customize your print

It's time to customize your print with your very own artwork. Not one for artwork, you say? Don't worry - with your Glowforge, even simple doodles look good.

It's easy. You'll draw something on paper, and then the camera in the lid of your Glowforge will convert your drawing to a digital file. You'll then add your drawing to your coasters to create a set that's uniquely yours. But before you continue, it's useful to understand a few basics of the laser.



## Cut

With this instruction, your Glowforge will precisely cut completely through your material, up to a thickness of 1/4". The power will be calibrated precisely based on material and thickness, so you'll never go overboard.



## Score

Choosing score for some (or all) elements of your design will tell your Glowforge to lightly print – just enough to mark the material, but not where close to cutting through.



## Engrave

When you engrave, your Glowforge knows to evenly remove large areas of material for a flawless finish.





## Personalize with a pencil

Your coaster still has the Proofgrade™ masking paper on it. You can draw on the paper without harming the material underneath. Doodle away!



## Scan your drawing

Once you're done drawing, you can put your piece back into your Glowforge. The cameras inside will see exactly what's changed, and recognize your drawing as a design-to-be.



## Something about use trace function

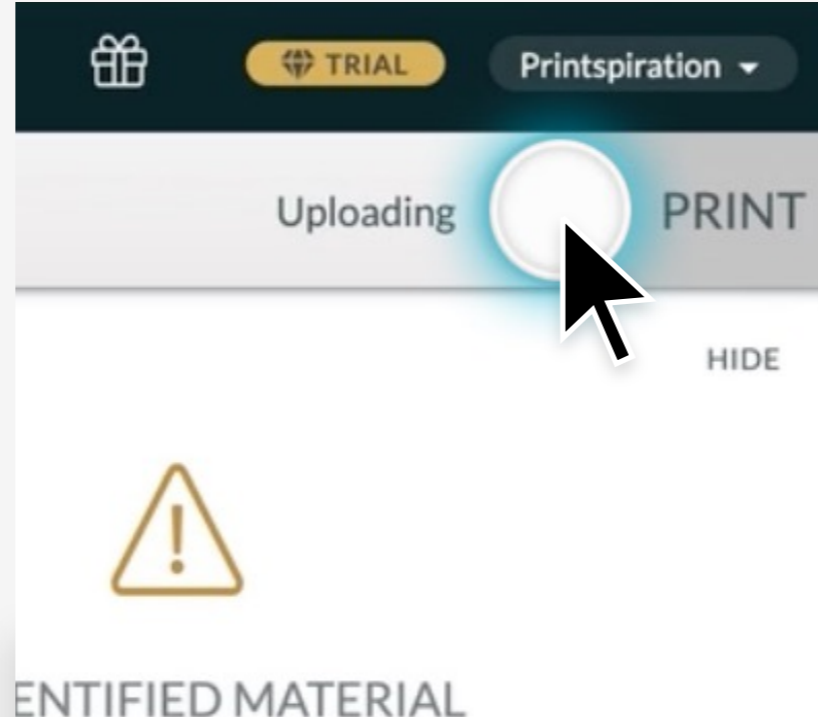
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## Resize and position artwork on coaster

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## Time to Press Print

With your personalizations complete, you're ready to print! It's the same as before.



## Peel off Proofgrade™ protective paper

When you remove the masking paper, you'll reveal the beautiful finished material beneath. If you don't have perfect-for-peeling fingernails, we find that a strong adhesive tape works great for getting up the paper.



# We can't wait to see what you create!

Have questions?

Contact Us →

