

# LASER CUTTING GUIDE

## EPILOG LASER



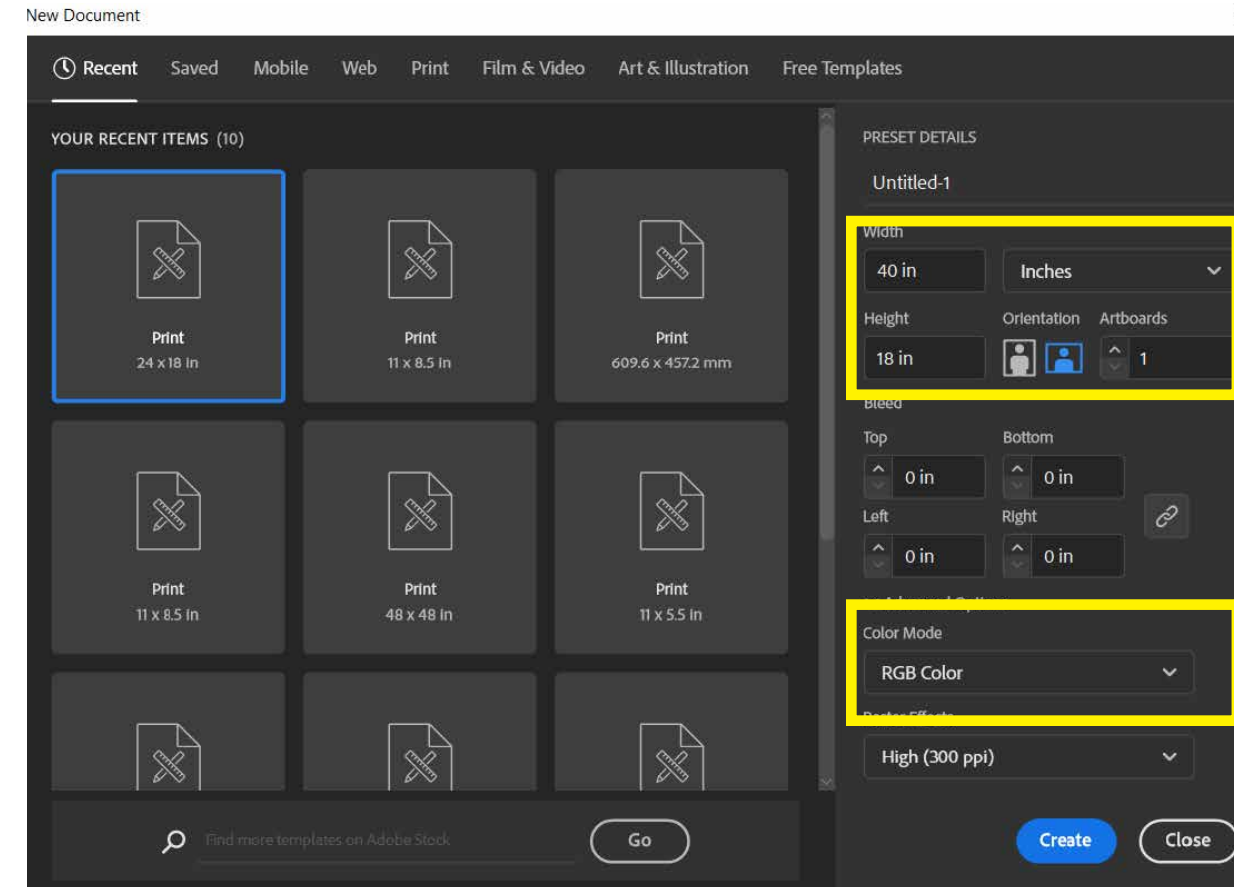
# BEFORE YOU START:

**1. THE EPILOG LASER ONLY READS ILLUSTRATOR FILES**

**2. IF YOU INTEND TO ENGRAVE ON METALS, SPEAK TO A TECHNICIAN**

## Preparing Your Illustrator File

When preparing your Illustrator file, please make sure the following settings are selected. The Illustrator settings for the Epilog are the same as the Universal machines.



1. Set the units to **inches** and input the **exact dimensions** of your material.

2. Set the color mode to **RGB**.

## Stroke Settings

To ensure your vectors are readable by the laser cutting software, please follow these exact settings in the “**Stroke**” panel. Click **Window > Stroke** OR **F10** to activate the panel if it is hidden.



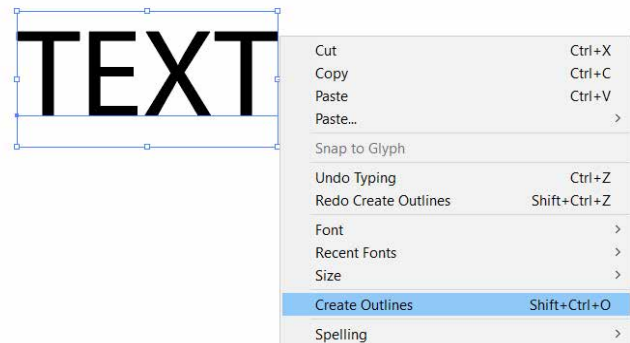
① Set “Stroke Weight” to **0.001 pt**

② Set “Variable Width Profile” to **Uniform**

③ Set “Brush Definition” to **Basic**

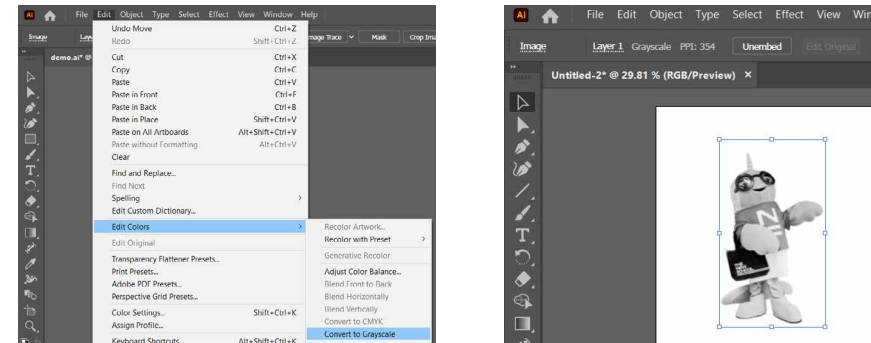
## Text Settings

Make sure all text in your file has been converted to outlines. To do this, right click on your text object and click “**Create Outlines**”.



## Image Settings

To raster engrave images, paste the image and convert the image to black and white using grayscale. **Edit > Edit Colors > Convert to Grayscale**



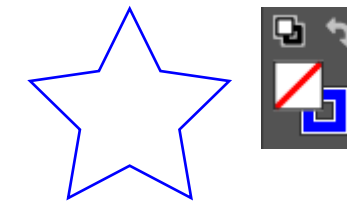
## Color Settings

Our laser cutters have 3 different operations: vector cutting, vector engraving, and raster engraving. Change the colors of your design to correspond with the operation you need for your project. For a video tutorial, visit our laser cutting help videos on our website or use the QR code.



Illustrator Help Video

To vector cut or vector engrave, the **fill** should be **off**, and the **stroke** should be **on**.  
To raster engrave, the **fill** should be **on**, and the **stroke** should be **off**.



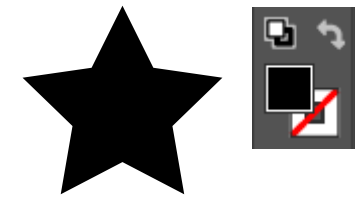
**VECTOR CUT**

R:0 G:0 B:255  
hex code #  
0000FF



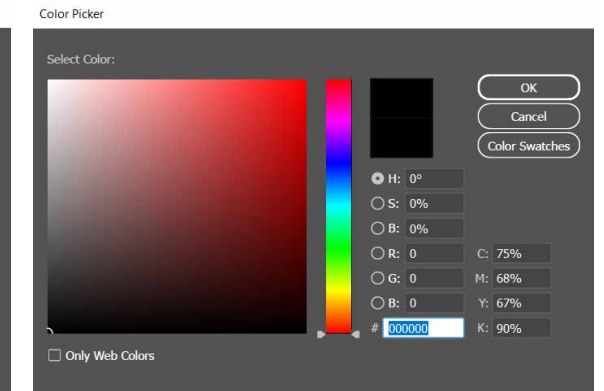
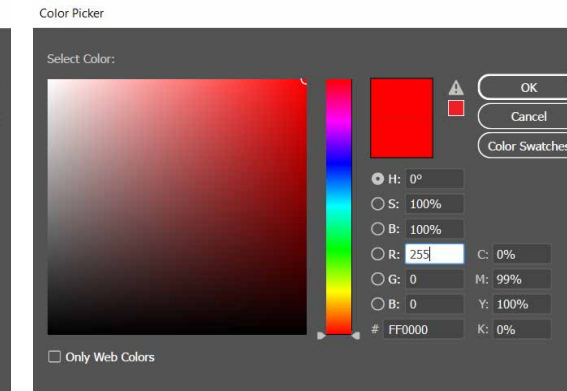
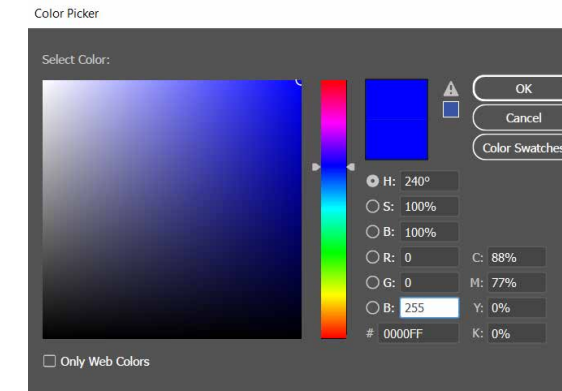
**VECTOR ENGRAVE**

R:255 G:0 B:0  
hex code #  
FF0000



**RASTER ENGRAVE**

R:0 G:0 B:0  
hex code #  
000000



## Machine Set Up

- 1 Turn on the machine using the **black switch** located on the front face of the laser cutter.

**DO NOT TOUCH THE RED E-STOP BUTTON UNLESS IT IS AN EMERGENCY**

Wait for the machine to initialize. The bed will automatically drop to bottom of machine.

Once it stops moving, you may begin setting up the machine.



- 2 Turn on the compressor.



- 3 Peel off **any paper or coating** you have on your material.

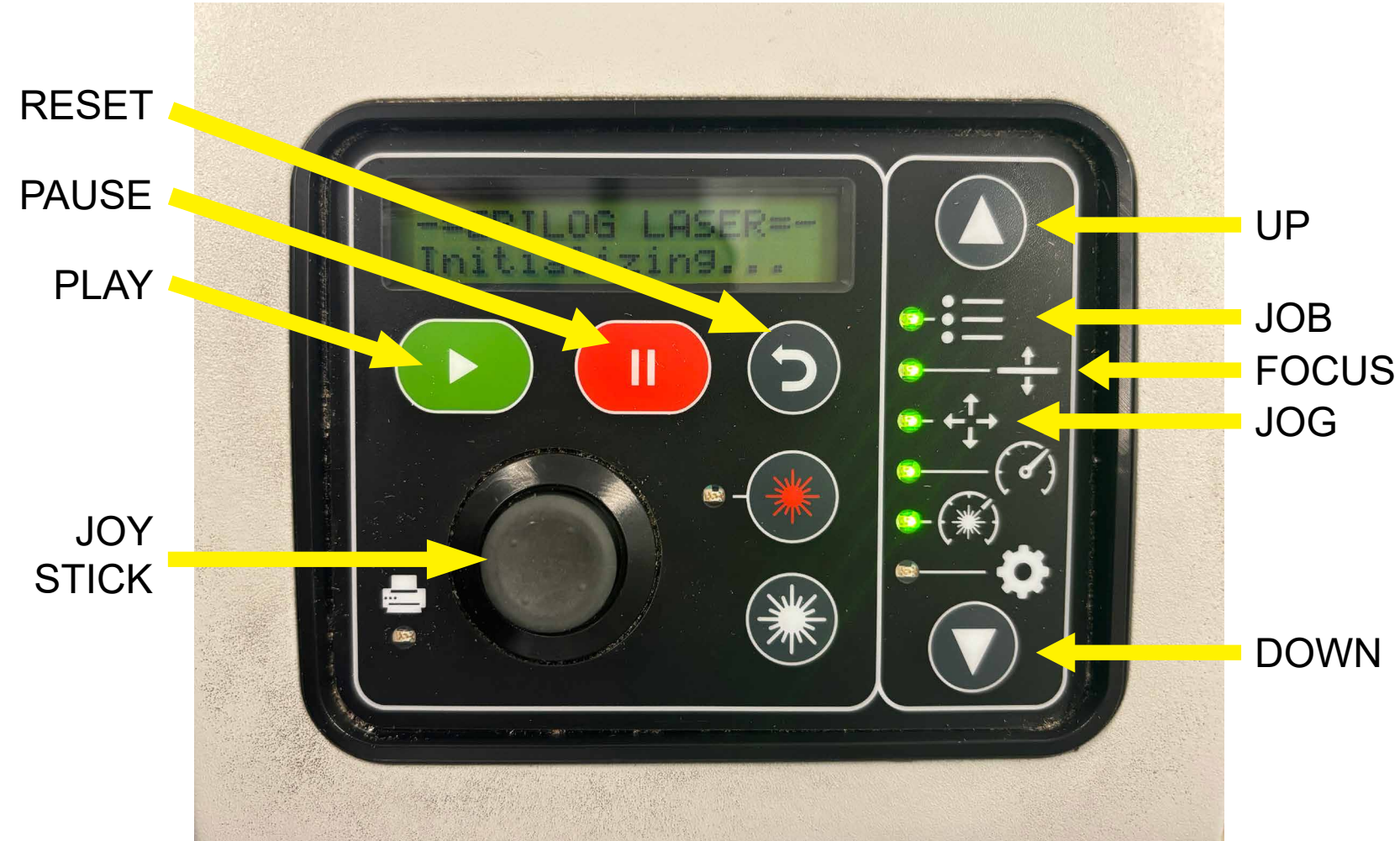


- 4 Place your material in the **top left corner** of the bed.

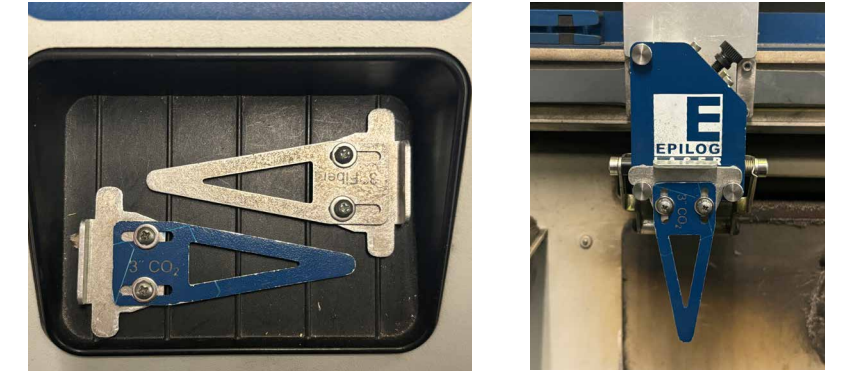




# Control Panel



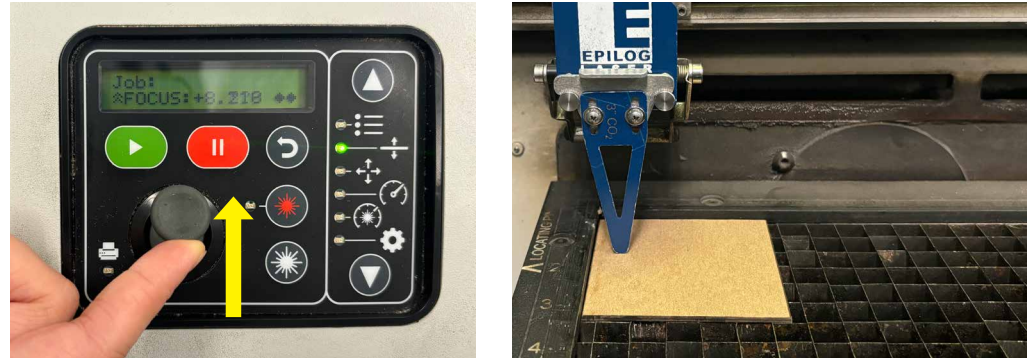
5 Place the focus tool on the laser head the focus tool should hang on face of the laser head. Use the blue "CO2" tool for **most materials**. Use silver "Fiber" tool for **metal engraving only**.



6 Use the up and down buttons to toggle to "Focus" mode.



- 7 Push the joystick up or down to move the bed until material touches the focus tool. The laser is focused when the material and the focus tool are touching. Put the tool back once you're done.



- 8 Toggle back to the "Job" mode.

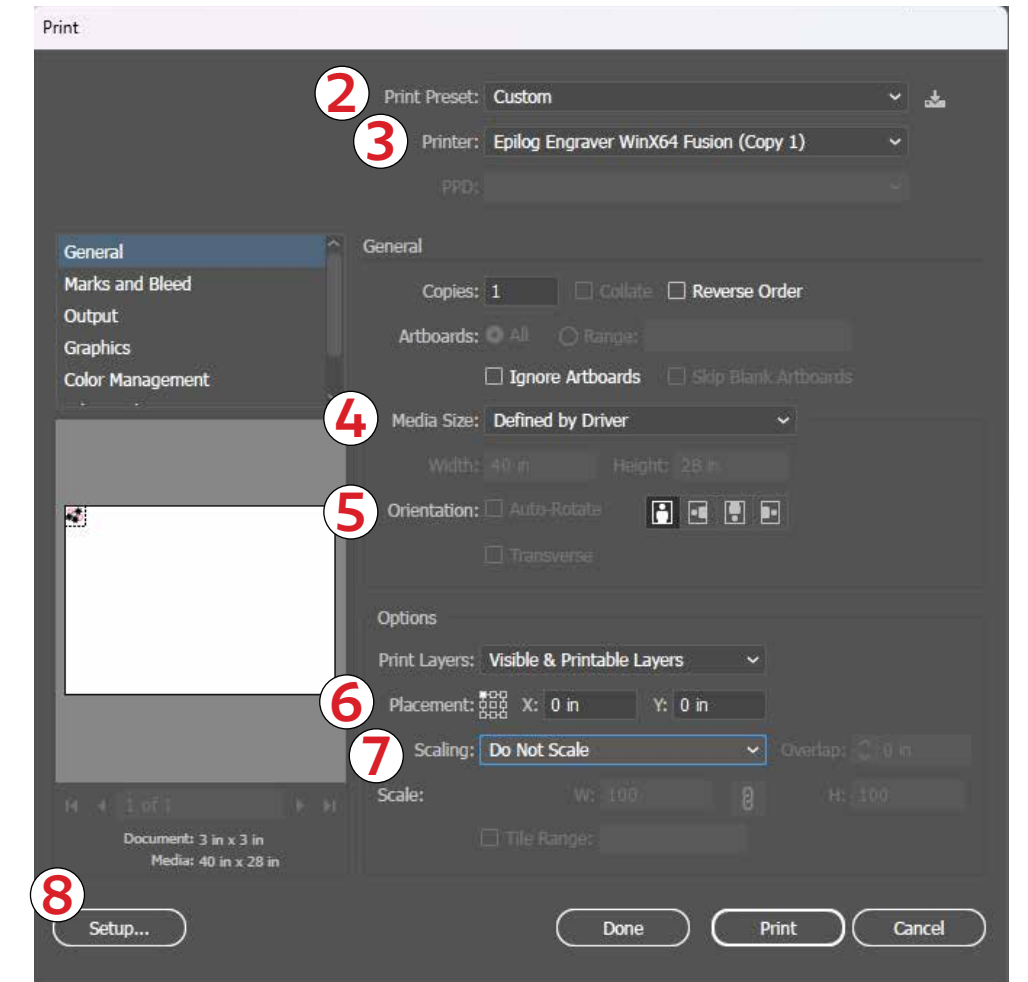


## Print Settings

- 1 Go to **File > Print** OR click **Ctrl + P**.
- 2 Set Print Preset to "**Custom**".
- 3 Set Printer to "**Epilog Engraver WinX64 Fusion (Copy 1)**"

If nothing shows up in the print preview panel, arbitrarily set your "Printer" as any random setting, or click Done and click print again, until the print preview panel appears. Set it back to "Epilog Engraver WinX64 Fusion (Copy 1)" upon returning to the print preview panel

- 4 Set Media Size to "**Defined by Driver**".
- 5 Set the **orientation** to first option.
- 6 Make sure the **placement** is set to the top left corner and X and Y is set to 0,0.
- 7 Set 'Scaling' to '**Do Not Scale**'
- 8 Go to 'Setup...' then '**More Settings**'



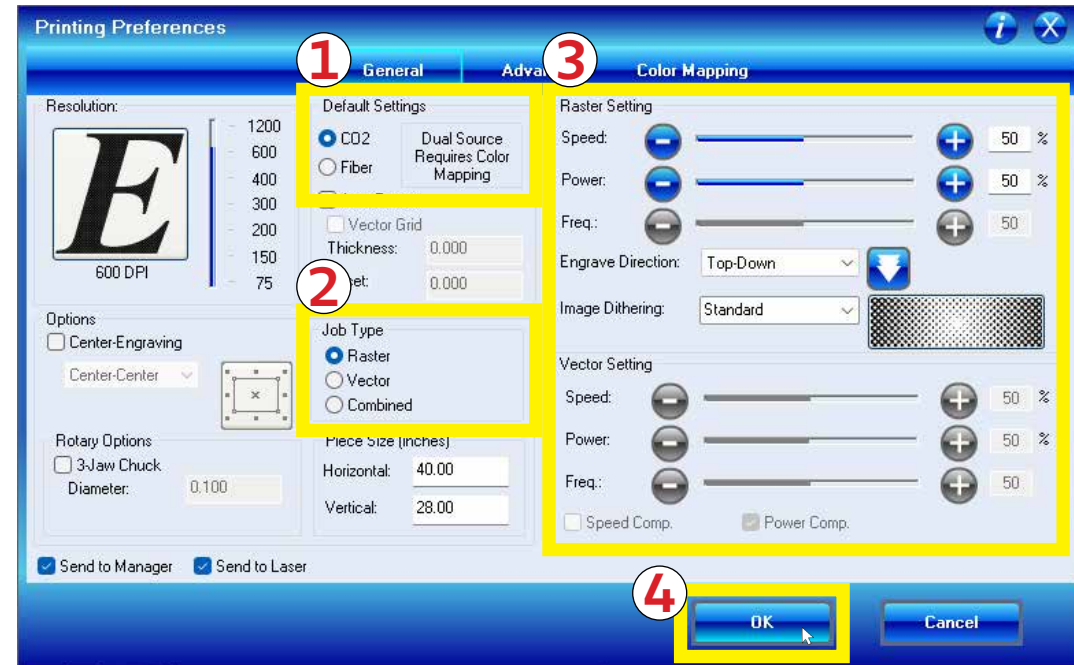


## Printer Preferences: SINGLE COLOR

### JOB TYPE

**Raster:**  
JUST BLACK  
**Vector:**  
JUST BLUE  
JUST RED

- 1 Select "CO2" or "Fiber" depending on your material.
- 2 Select either "Raster" or "Vector" depending on your job type.
- 3 Set your raster and/or vector settings according to our preset chart.
- 4 Click "OK" to return to the previous print setup menu.



## Printer Preferences: BLACK + BLUE OR RED

### JOB TYPE

**Combined:**  
BLACK + BLUE  
BLACK + RED

- 1 Select "CO2" or "Fiber" depending on your material.
- 2 Select the the "Combined" job type.
- 3 Set your raster and/or vector settings according to our preset chart.
- 4 Click "OK" to return to the previous print setup menu.



## Printer Preferences: BLUE + RED

**JOB TYPE**  
Combined:  
BLUE + RED

- 1 Select "CO2".
- 2 Select the the "Combined" job type.
- 3 Click the "Color Mapping" tab.
- 4 Click the red/blue color box to select the color you want to edit.
- 5 Set your **Speed, Power, and Frequency settings** according to our preset chart.
- 6 Click the >> button to confirm.
- 7 Repeat steps 4-6 for the other color.
- 8 Click "OK" to return to the previous print setup menu.



## Printing Preferences: BLACK + BLUE + RED

**JOB TYPE**  
Combined:  
BLACK + BLUE + RED

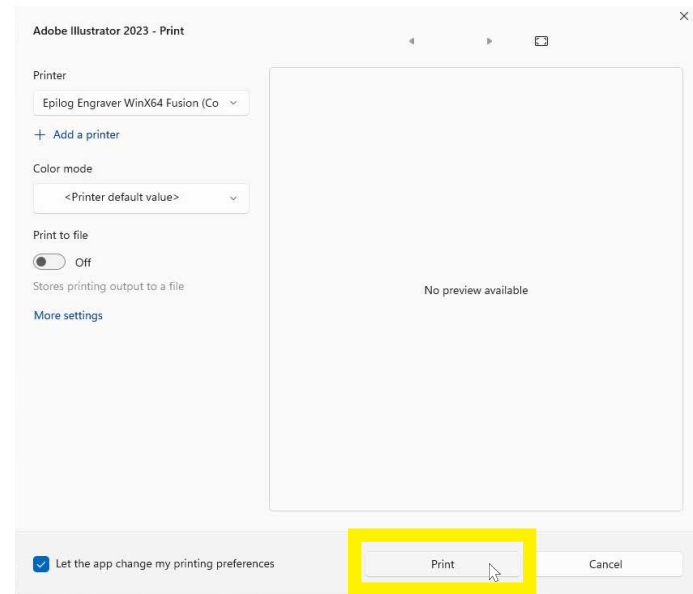
- 1 Select "CO2".
- 2 Select the the "Combined" job type.
- 3 Select your "Raster" settings according to the wall poster.
- 4 Click the "Color Mapping" tab.
- 5 Click the red/blue color box to select the color you want to edit.
- 6 Set your **Speed, Power, and Frequency settings** according to our preset chart.
- 7 Click the >> button to confirm.
- 8 Repeat steps 4-6 for the other color.
- 9 Click "OK" to return to the previous print setup menu.



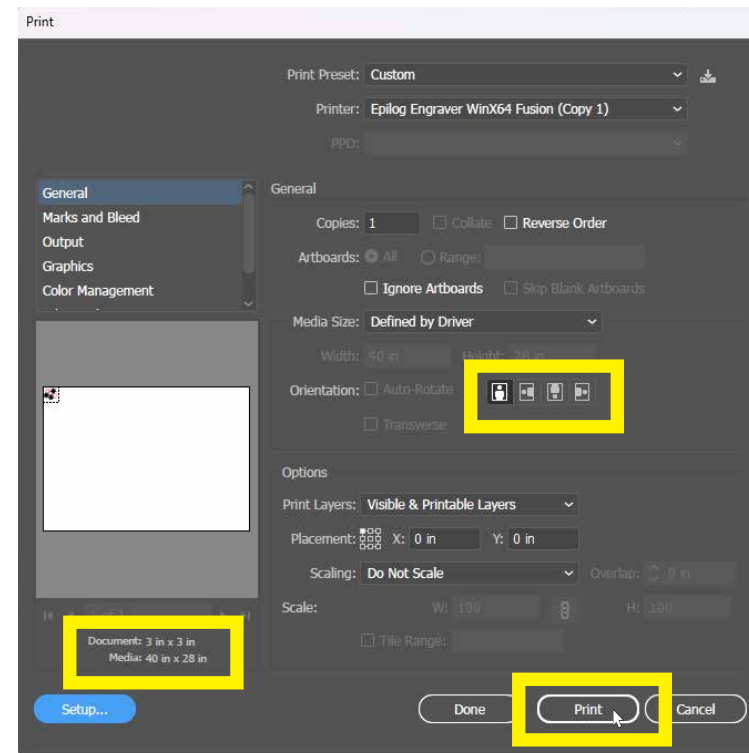


## Printing

Click **“Print”** to return to the Illustrator print setup menu.



Double check your **orientation** and that your **media dimensions match your document dimensions**. If they do not, you may see that your media box is floating around the page. To fix this, repeat the previous steps from the Setup menu.



## Epilog Control Panel While Cutting

- 1 Check that Job mode is active.
- 2 Make sure you can see your file name next to **“Job:”**  
  
The Job number will change every time you print a new file.
- 3 If the data light is on, the file may still be loading.
- 4 The cut time can be seen underneath the file name.
- 5 Press the **green play button** to start the cut.
- 6 Press the **red pause button** if you need to pause your print mid-cut.
- 7 Press the **reset button** to make the print go back to the beginning.

