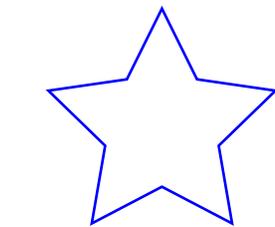
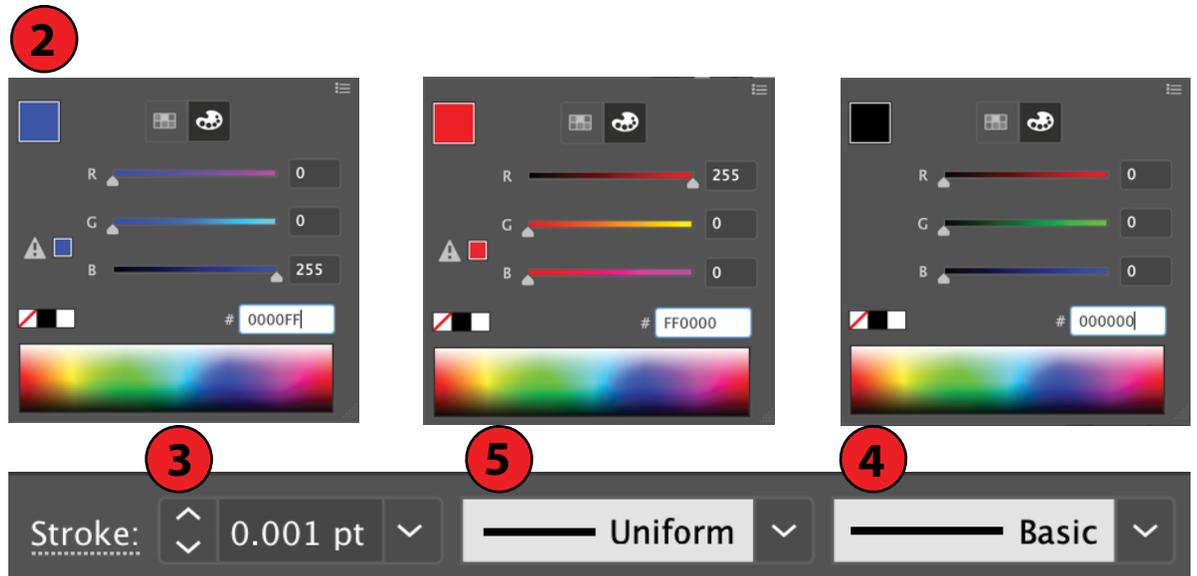


PREPARING YOUR FILE (ILLUSTRATOR)

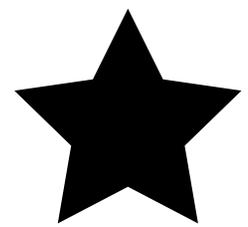
1. Make sure your color mode is set to **RGB**
(File > Document Color Mode > RGB Color)
2. Set 'Stroke Color' to the correct settings
(0, 0, 255 - Blue)
(255, 0, 0 - Red)
(0, 0, 0 -Black)
3. Set 'Stroke Weight' to '0.001pt'
4. Set 'Brush Definition' to 'Basic'
5. Set 'Variable Width Profile' to 'Uniform'
6. If you have text in the file, select it, select **Type > Create Outlines**



Vector Cutting



Vector Engraving



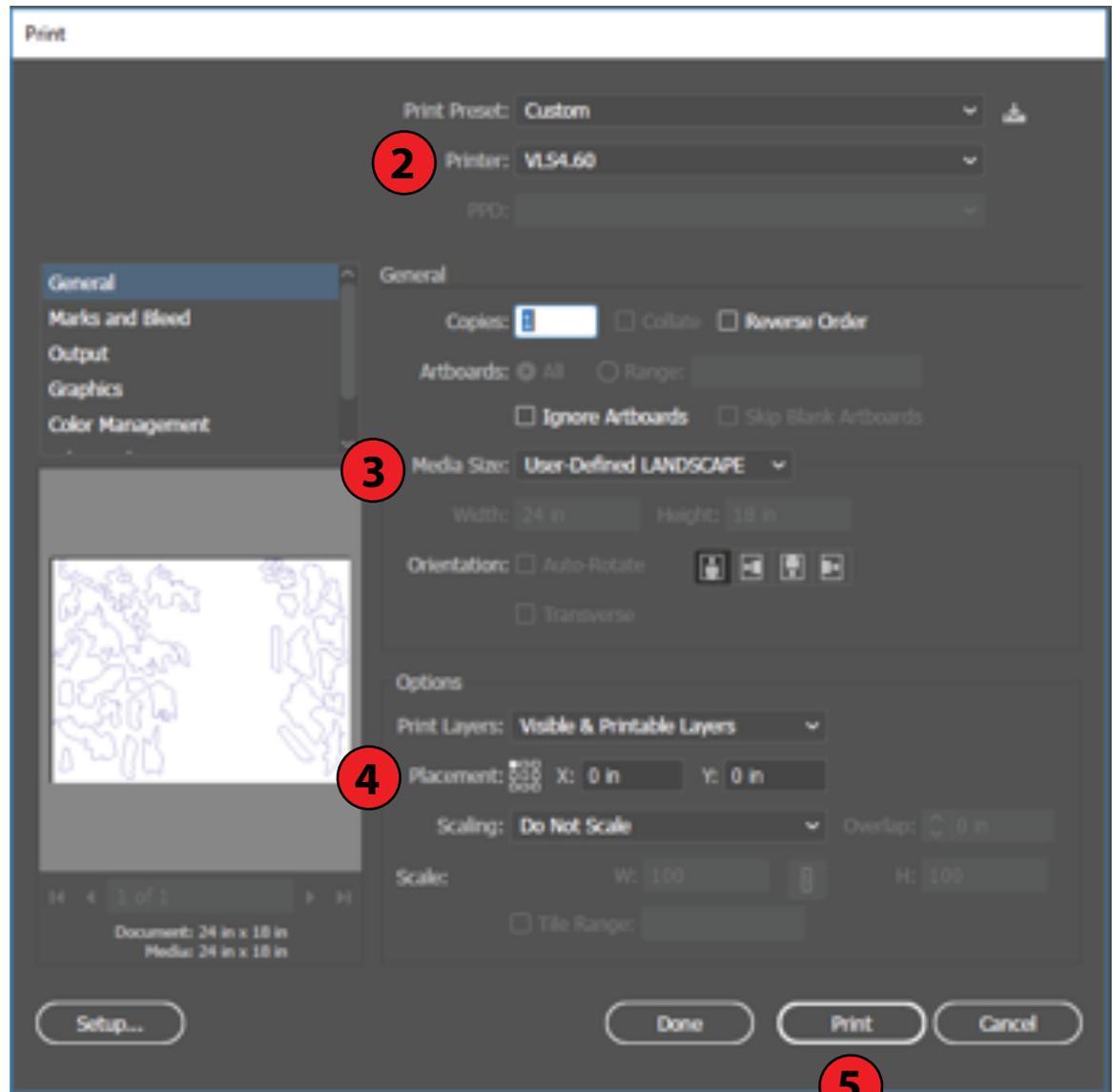
Raster Engraving

“Lorem ipsum”



SENDING TO THE PRINTER (ILLUSTRATOR)

1. Select 'Print'
2. Set 'Printer' to 'VLS4.60'
3. Set 'Media Size' to 'User-Defined LANDSCAPE'
4. Move your design on the printer bed manually, or by using the 'Placement' buttons, if necessary
5. Press 'Print'
6. Open 'Universal Laser Systems Control Panel' by clicking on the **red icon** in the bottom right corner of the screen



CHOOSING MATERIAL SETTINGS

1. Select 'Settings'
2. Select 'Manual Control'
3. Select 'Load'
4. Select material and thickness that best suits your project.
5. Select 'Open'
6. Select 'Apply'
7. Select 'OK'

Note: If you think you need to change power or speed settings, please **speak to a Tech**

The image illustrates the process of selecting material settings in a laser engraving software. It consists of three main components:

- Control Panel (Left):** A vertical panel with a play button, a 'Start' button, and a 'Settings' button (highlighted with a red circle 1).
- Laser Settings Dialog (Top Right):** A window titled 'Laser Settings for VLS4 Ed' with a 'Manual Control' tab (highlighted with a red circle 2). It contains a table of material settings and various adjustment sliders.
- File Explorer (Bottom Right):** A window titled 'Load Engraver Settings' showing a list of files. The file 'Acrylic_1,8las' is selected (highlighted with a red circle 4).

Additional steps are highlighted with red circles:

- 3:** The 'Load' button in the Laser Settings dialog.
- 5:** The 'Open' button in the File Explorer.
- 6:** The 'Apply' button in the Laser Settings dialog.
- 7:** The 'OK' button in the Laser Settings dialog.

SETTING UP THE MACHINE

1. Turn on the compressor

2. **Remove** any extra paper/coating on your material

3. Place your material on the bed

4. **Focus the laser** on the material by moving the bed up or down using the **Z-buttons** on the front of the machine. The **focus tool** should sit comfortably between the material and the laser (see image on right)

Note: If necessary, use the 'Focus Button' on the Printer Control Panel (see next page) to manually move the laser to a position on top of your material

5. **Return** the focus tool to it's original position

1



2

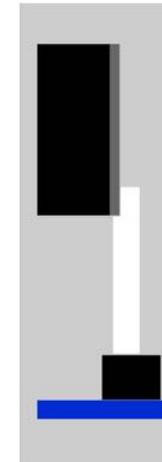


Focus Tool



4

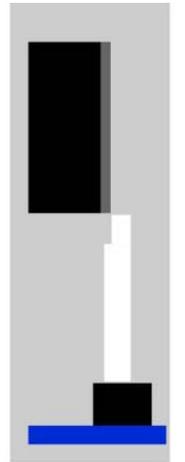
Z-buttons



Correct



Too close



Too far

5



PRINTER CONTROL PANEL

Play Button

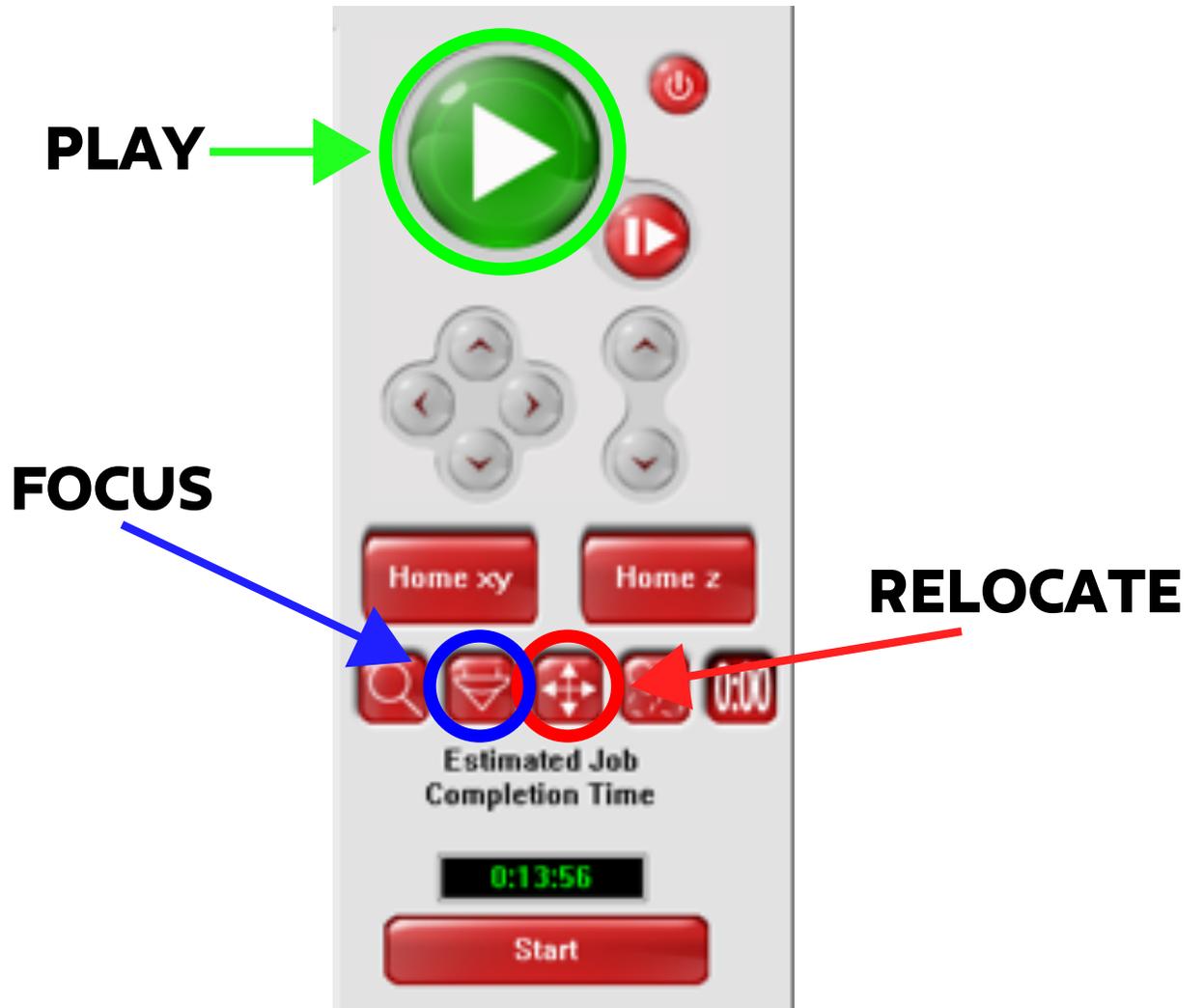
- Run the machine

Focus Button

- Moves the laser head manually

Relocate Button

- Move your design manually



FREQUENTLY ASKED QUESTIONS

1. How do I know if the laser has cut through my material?

a. Try to lift the cut out parts with some tape so as to not move the material. If it hasn't, DO NOT move the material and press play again.

2. My lines in Illustrator wont stay 0,0,255 Blue (they stay a different kind of blue, or stay black)?

a. Make sure your Document Color Mode (File > Document Color Mode) is 'RGB Color'. If it is and it's still not working, have your lines selected, go to Window > Color, select the drop-down menu icon  on the Color Panel, select 'RGB'.

3. Can I raster engrave in grayscale?

a. Yes. The black (0,0,0) parts of your grayscale image will raster at full power, anything in the grayscale will raster with power according to how close to black it is.



no power  full power engraving

4. I can't choose 'Uniform' as the 'Variable Width Profile', that area is grayed out.

a. Have your line selected, change your 'Brush Definition' off 'Basic', then change it back on to 'Basic', then 'Uniform' will appear...we don't know why this works, it just does. However, this will change your 'Stroke Weight' to '1pt' so remember to change it back to '0.001 pt'.

5. Some of my lines aren't appearing on the Laser Control software.

a. Speak to a tech. Filters, Clipping Masks, Opacity settings and other file adjustments can cause artwork to disappear on the laser control software. Otherwise, someone might have just 'Skipped' that line color while previously using that computer.

6. How do I manually change speed and power settings, or skip a color?

a. While choosing your material settings, after you have chosen a material and thickness but before you have pressed 'Apply' and 'OK', select the color you want to change or skip, change power/speed settings or select 'Skip' from the 'Mode:' drop-down menu, select 'Set', select 'Apply', select 'OK'.

**READ ME
TO PRINT**

**IF THE LASER DOES NOT CUT
THROUGH:**

1. DO NOT MOVE THE MATERIAL

2. PRESS PLAY AGAIN