UNIVERSAL LASER INSTRUCTIONS

UNIVERSAL LASER

Model PLS6.75
70 Watt Co2 Laser

Power Button
(located on right side of machine)

**Bed Height
Adjustment Controls**

Air Pump
(located on shelf)
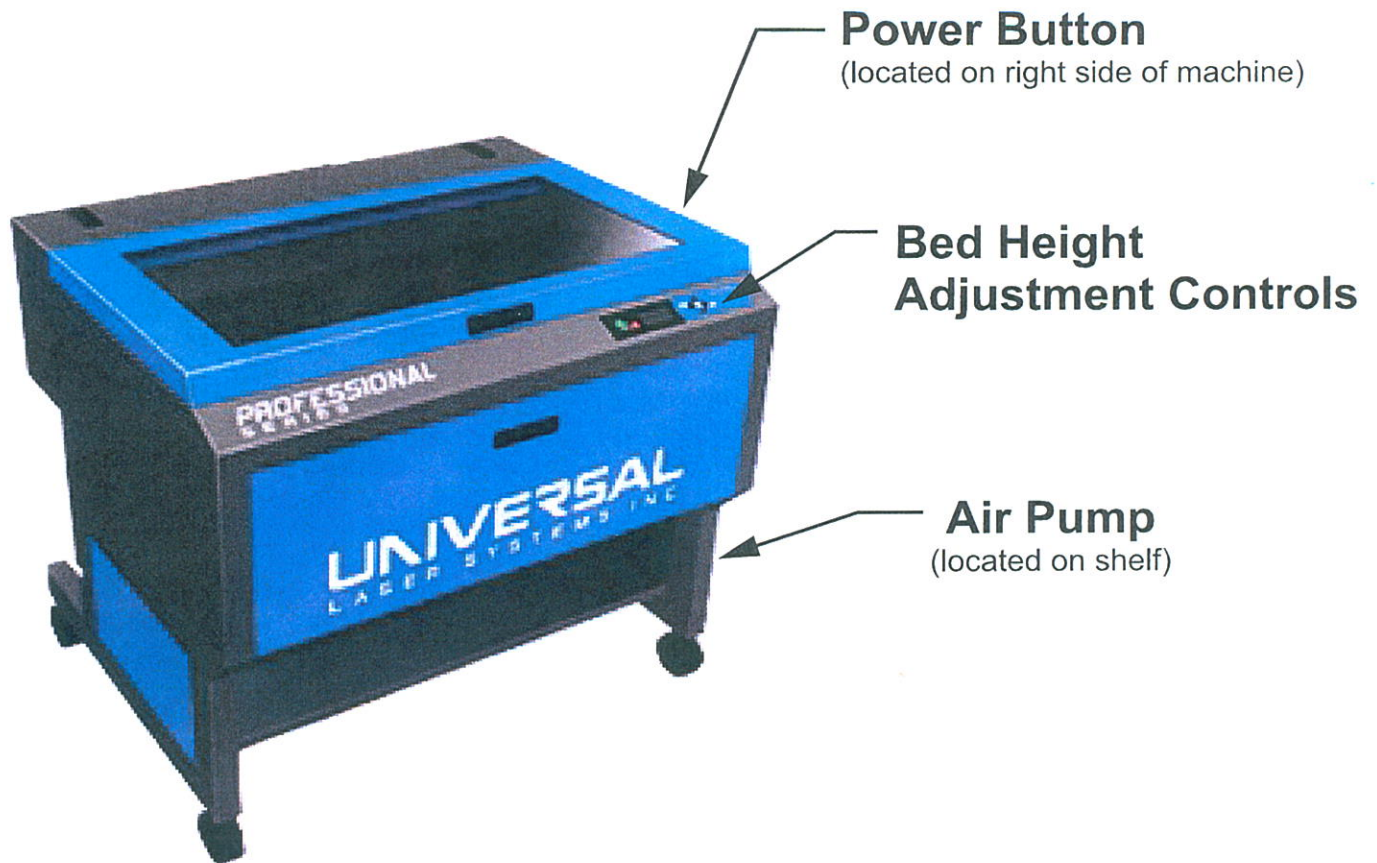
Laser cutter preparation:

1. Power on: Universal Laser Cutter
2. Power on: Air pump (located in lower front of cabinet)
3. Booster fan on (located behind the large vacu-former)
4. Air exhaust gates open (1 in line on the floor, 1 at the large vertical trunk)
5. Z height set to match stock thickness (reminder of this later)

Computer work station preparation:

1. Power On
2. Log in
3. Select "Desktop"
4. Power up Corel Draw Application

Corel Draw

Used to layout and manipulate geometry and describe which features to cut or etch

1. Create a new document
  a. File > new
    i. 32 x 18 page layout
   ii. RGB Color

2. Import artwork
  a. File > import
    i. Navigate to the file you want to import (DXF file format preferred)
    ii. Place file on the page

3. Adjust line properties based to match the desired operation
  a. Line weight = hairline
  b. Line color
    i. Vector Cut = RED (RGB Values = 255,0,0,)
    ii. Vector Etch = BLUE (RGB Values = 0,0,255)
    iii. Raster Etch = BLACK (RGB Values = 0,0,0)

4. Send the job to the laser
  a. File > print

File Menu
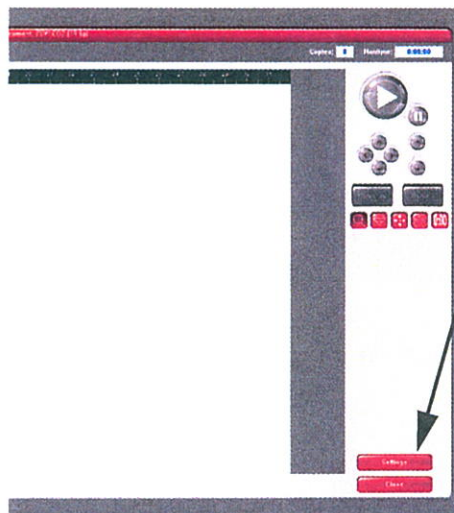
Line Weight

Line Color
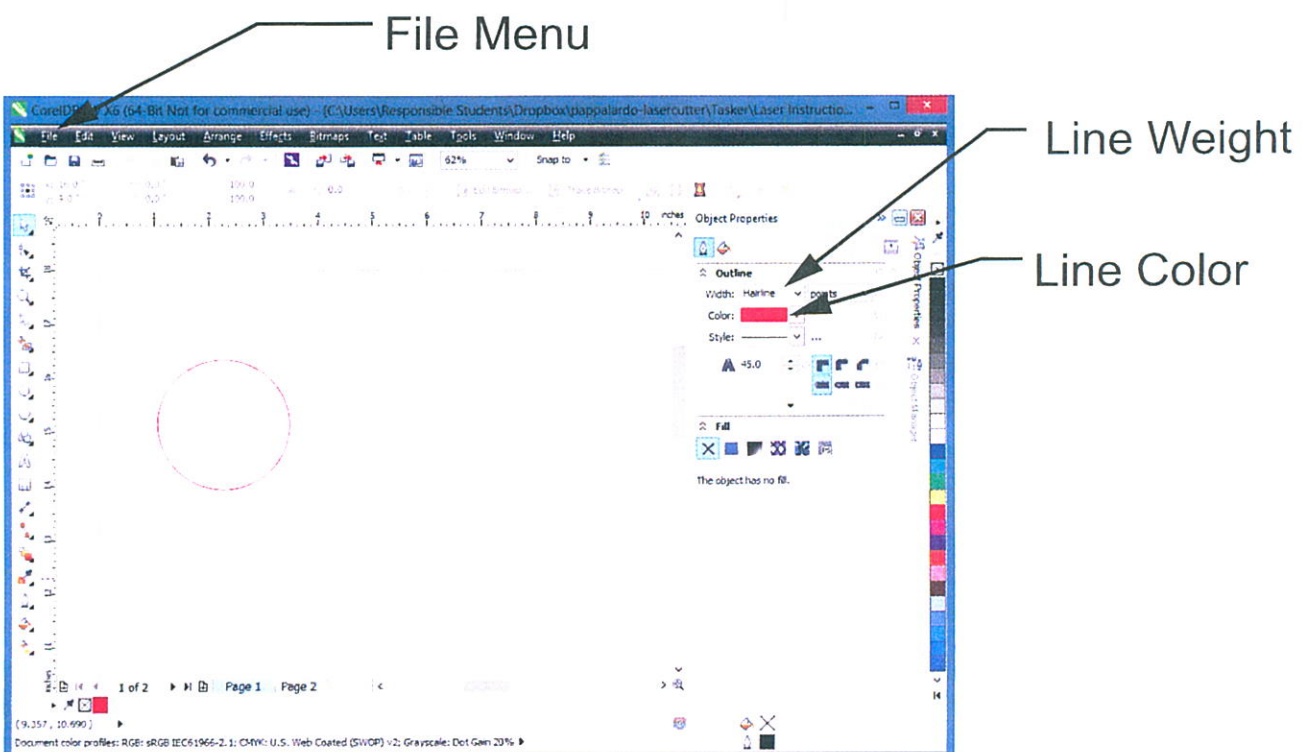
Universal Driver

Used to adjust power and speed settings for cutting and etching
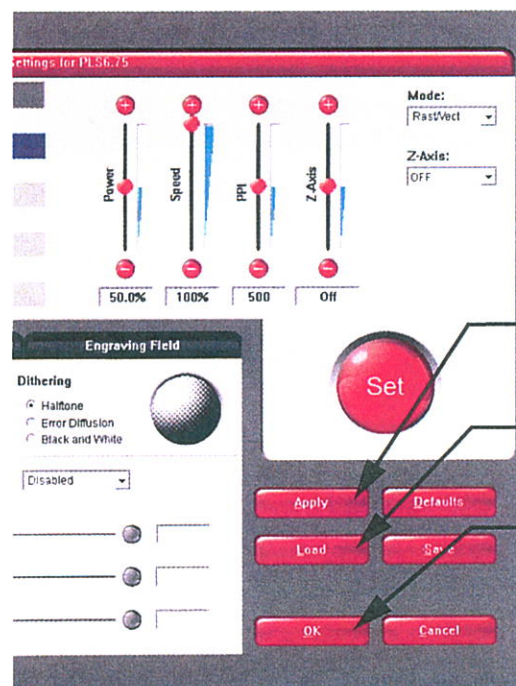
LOAD PRE-CONFIGURED SETTINGS

1. **Settings** Button (Universal driver home page)
2. **Load** Button (directs you to a list of material and thickness possibilities)
3. Highlight preferred material / thickness configuration file
4. **Open** Button
5. **Apply** Button
6. **OK** Button

① Settings

Universal driver home page
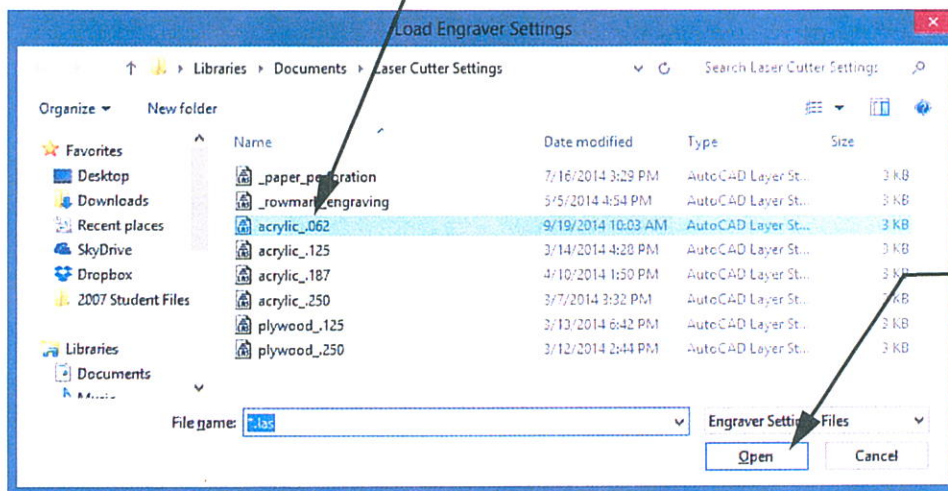
⑤ Apply

② Load

⑥ OK

Universal driver settings page

Universal Driver

Used to adjust power and speed settings for cutting and etching

③ Highlight Preferred Material
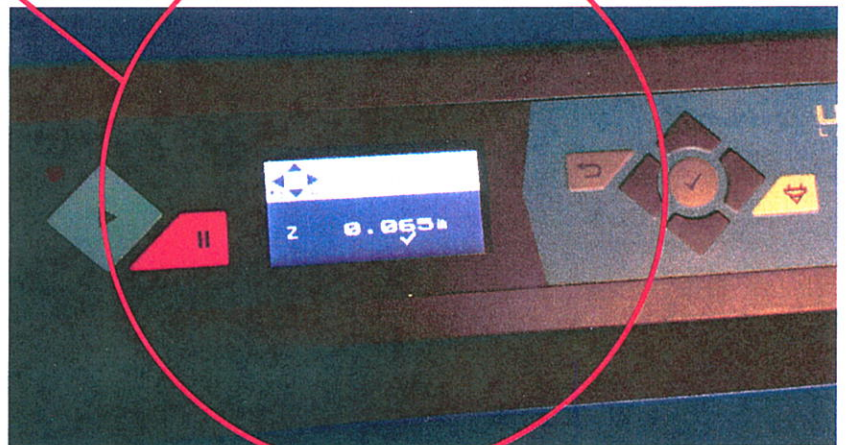
④ Open

Menu of pre-set speed / feed options

IMPORTANT:
PLEASE SEE STAFF IF YOU WOULD LIKE TO USE MATERIAL OTHER THAN
THAT LISTED IN OUR DEFAULT DIRECTORY
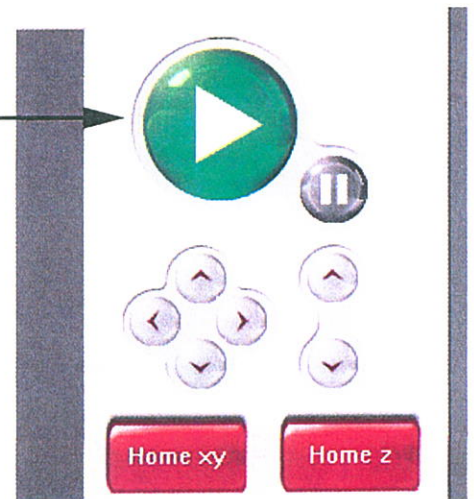
Final Inspection

Final Inspection:

1. Review thickness of stock
2. Adjust bed height to match stock thickness

Bed Height Adjustment

Final Step:

Press green arrow to start laser ——————▶

Universal driver home page

Clean-up Instructions

Laser cutter shut down procedure:

1. Power off: Universal Laser Cutter
2. Power off: Air pump (located in lower front of cabinet)
3. Booster fan off (located behind the large vacu-former)
4. Remove all stock from work area

Computer work station shut down procedure:

1. Save Corel File (2009 Student Files / (folder with your name))
2. Log Out
3. Power Off Computer
4. Pull down door of computer workstation

Thank You !