

Cagila Software Checklist

Version 1.0 by Steven Sergenese 07/05/07

This is meant as a quick check sheet for individuals who are familiar with the software or who have studied the included tutorials. Please become familiar with the software before using this quick check sheet.

Startup and File Loading

- ✓ Turn on the computer and log into the system.
- ✓ Select the Cagila icon on the desktop.
- ✓ This will prompt you for a password to proceed.
- ✓ Enter the correct password and select ok.
- ✓ Select the open file button on the bottom left of the screen.
- ✓ Select the appropriate file to be opened.

File Preparation and Code Generation

This entails the buttons that run across the bottom of the screen, from left to right, to create the code for the laser cutter. The process involves selecting each of the buttons and performing the tasks required by each. If your file is drawn correctly without error of intersections, improper line connection, or open contours, you can simply proceed through the first four steps by continually selecting ok.

- ✓ Select the place point of origin button (crosshairs with blue fill in the toolbar at the top of the screen) and select a spot on the screen where you want the laser to begin the cut. It should be outside of your design yet close enough to allow for easy alignment.
- ✓ Select the Analyze Topology button.
- ✓ In the contour recognition screen deselect the “look for acute angles” option. Select ok.
- ✓ If your drawing is correct you can simply continually select ok and proceed to the next step. If not, the software will recognize errors and offer a repair. You will need to proceed through each step repairing your mistakes as you go.
- ✓ Select the Find Subprograms button. Select ok.
- ✓ Selecting ok will lead to the next step. If you want to observe the subprograms, select each that the software has found to highlight their location on your image. Select ok.
- ✓ Select the Lead-in/Lead-out button.
- ✓ The software will automatically select lead-ins and lead-outs as well as the direction the cut will proceed. If you want to change the type of lead-in/lead-out, select the point and using the options on the right side of the screen you can change the type and which side of the cut line the lead-in/lead-out will be. Select ok.
- ✓ Select the Processing Sequence button.

- ✓ Select ok on the sequence screen.
- ✓ The software will automatically choose a cutting sequence. Selecting ok will proceed to the next step. You can choose your own sequence by deselecting the automatic process and clicking on each start point as you want the laser to proceed. Select ok.

At this point on the right hand side of the screen under the checklist, you should have completed:

- Open Drawing
- Move (point of origin)
- Analyze Topology
- Find Subprograms
- Set Lead-ins/Lead-outs
- Processing Sequence

- ✓ Select the NC-Program button.
- ✓ It will prompt you for a comment. Enter a brief one line description and select ok.
- ✓ ON the parameter screen, change the assist gas pressure to 150psi. Change any other parameters as needed. Select ok.
- ✓ Continue to select ok until the code is brought onto the screen.
- ✓ Select save on the code screen and select a file to save the program under.
- ✓ After saving select close.
- ✓ If you want to save the drawing to change later, select the appropriate file to save under.
- ✓ Close the software. Do not create a system backup.

At this point the code for the laser cutter has been generated and is ready to be integrated into the laser cutter.