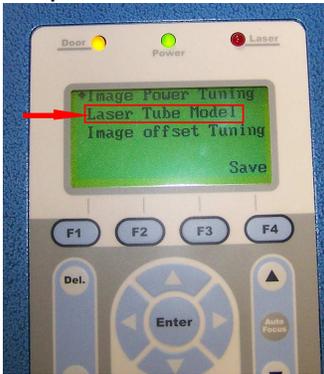# Tickle Pulse Adjustment V30, T60 – T100.

1. Place machine into the "Laser tube model" menu. Hold down the down arrow key while the machine restarts. Hold the key until your display looks like the display in the image for Step 2.
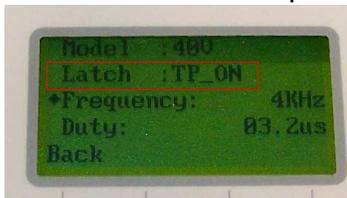2. Use the down arrow key to move the cursor to the "Laser tube model" option then push enter.

3. After selecting "Laser tube model" your display should look like this.
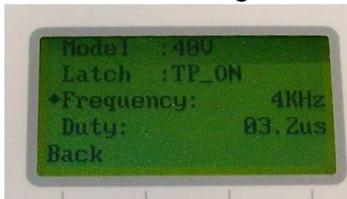
4. Verify that the "Model" option matches your laser tube. The required laser tube information can be found on the rear of your machine.

5. Make sure tickle pulse latch is set to "ON".

6. If the laser is constantly lasing (bleeding) reduce the frequency by 1 Khz. Save your setting and restart machine.
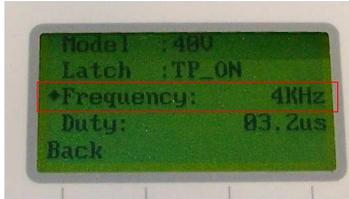
7. Use the up / down arrow keys to change between options. Use the left and right arrow keys to change the values of your options.
8. If the tube continues to lase repeat step 6.
9. If the tube has stopped lasing (bleeding) test the engraving quality.
10. If you experience reduced engraving quality after reducing frequency you will need to adjust the "duty cycle" option.
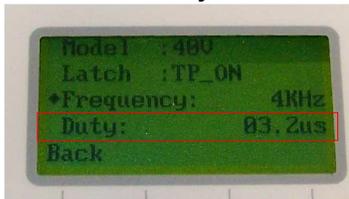
11. Increase duty cycle by increments of .1 μs saving and testing after each adjustment. Be careful not to try to cut time by adjusting in large increments. Doing so can increase the amount of time spent making the adjustment.
12. On T60 and T100 machines that do not respond to these settings you will have to manually trigger the tickle pulse latch inside of the RF unit. Refer to "Disable tickle Tseries.pdf".