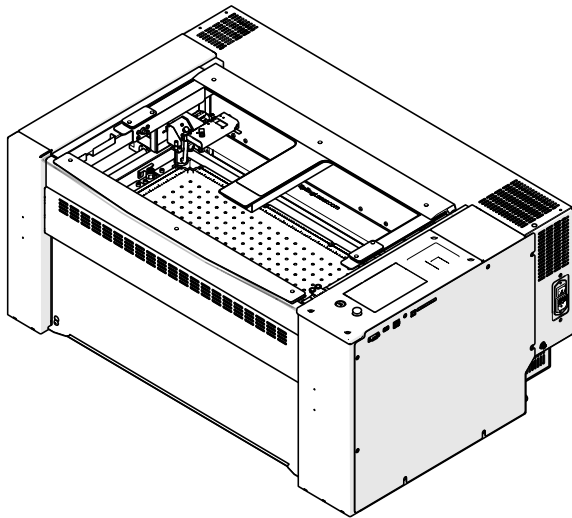
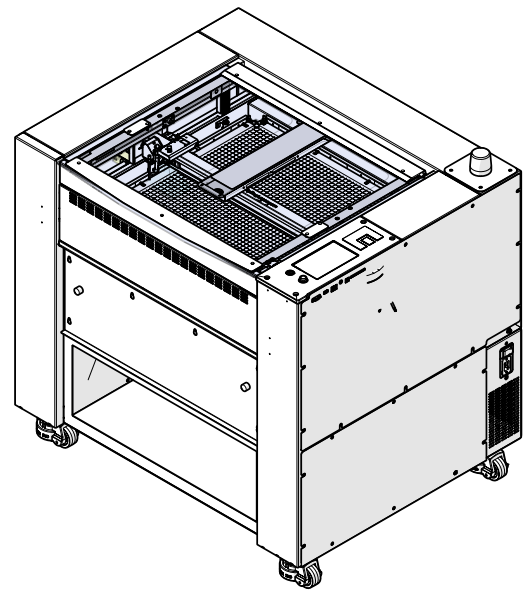


X-Axis Idler Replacement Edge 12, 24, & 36, Pro 24 & 36



Parts Required

CS0416 - Assy, Pulley, Idler, X-Axis



Tools Required

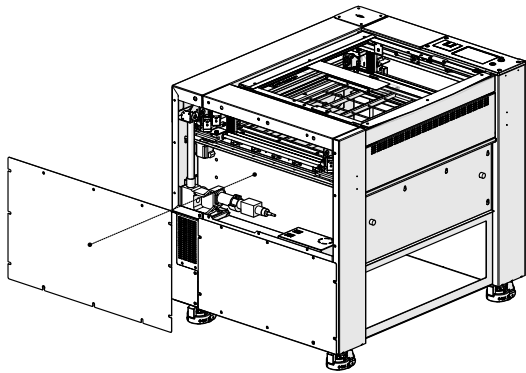
- 7/64" Allen wrench
- 5/32" Allen wrench

17000 X-Axis Idler Replacement

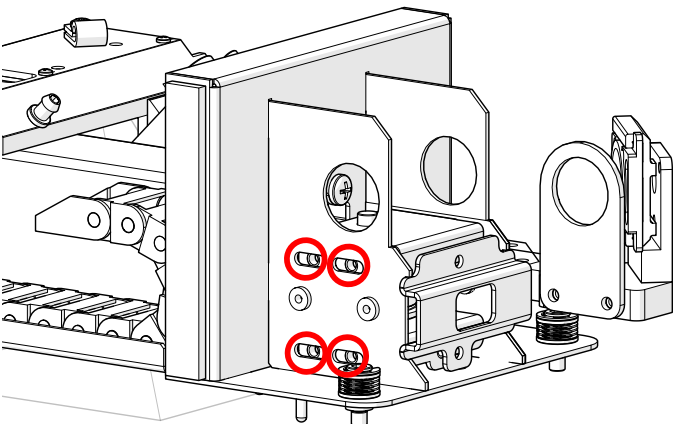
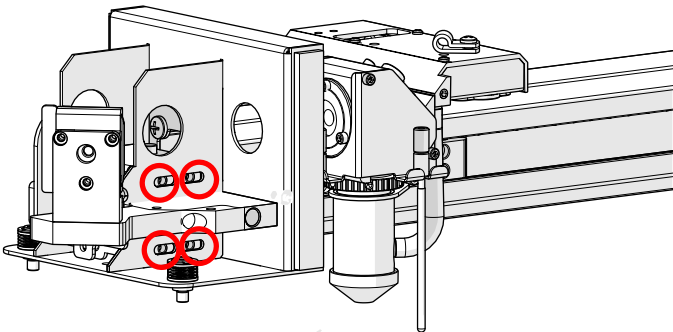
X-Axis Idler Replacement

X-Axis Idler Removal

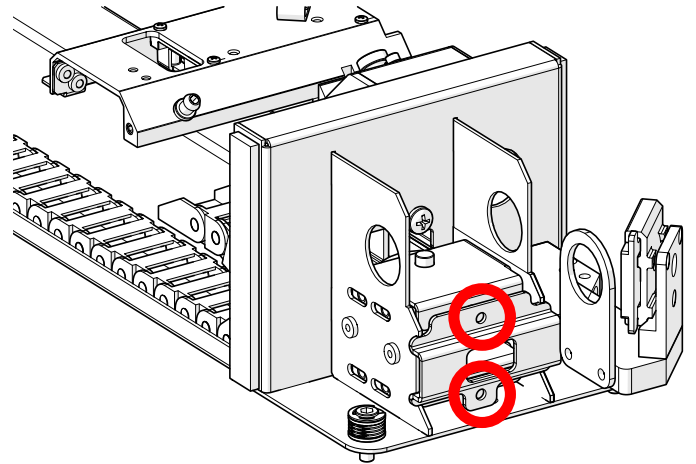
1. Turn off the engraver.
2. Disconnect engraver from power source.
3. Remove the left panel of the engraver:



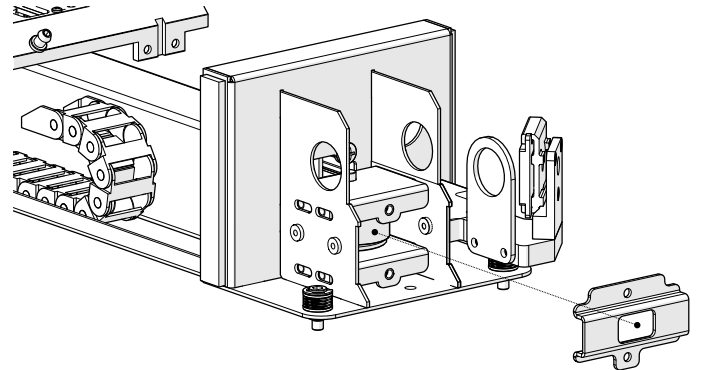
4. Loosen, but do not remove the eight (8) 7/64" Allen screws on the x-axis idler assembly:



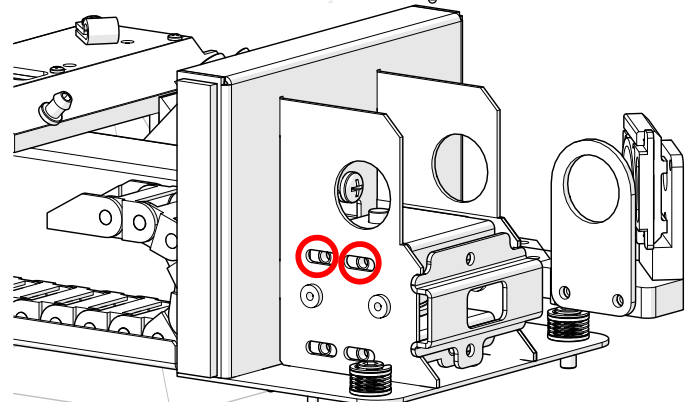
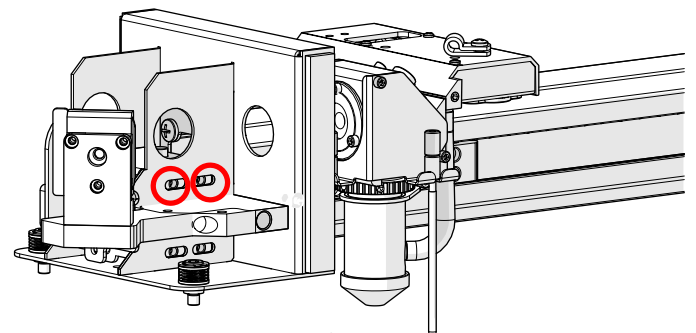
5. Loosen and remove the two (2) 7/64" tensioner screws on the idler assembly body:



6. Remove the idler assembly front cover:

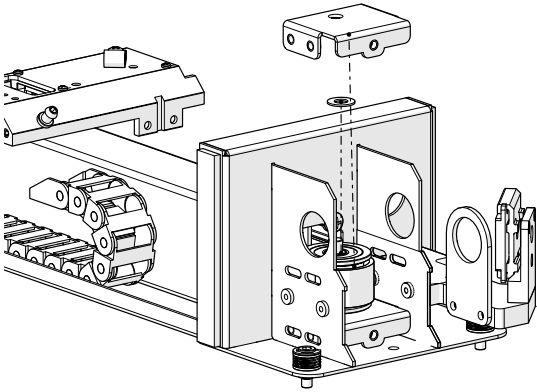


7. Remove the top four (4) 7/64" Allen screws on the x-axis idler assembly:

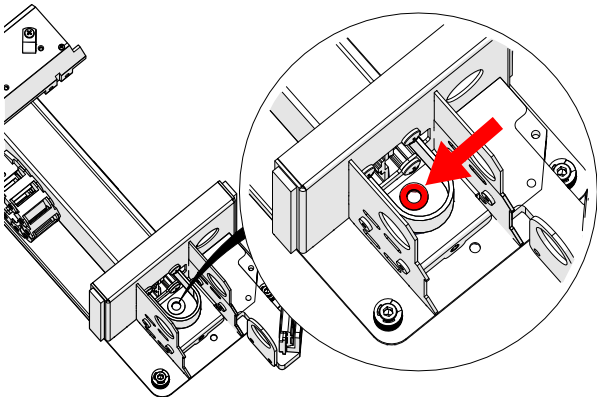
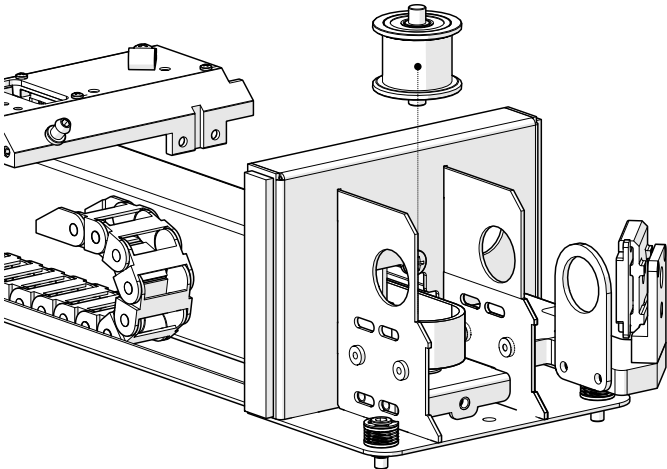


17000 X-Axis Idler Replacement

8. Remove the upper tensioner bracket and the upper Delrin washer on top of the idler pulley:

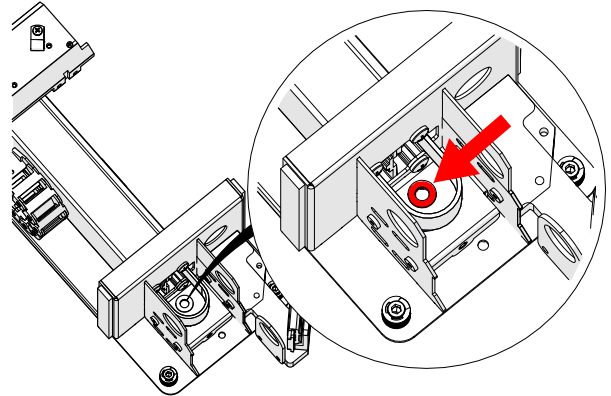


9. Remove the idler pulley, ensuring that the Delrin washer beneath it stays in place:

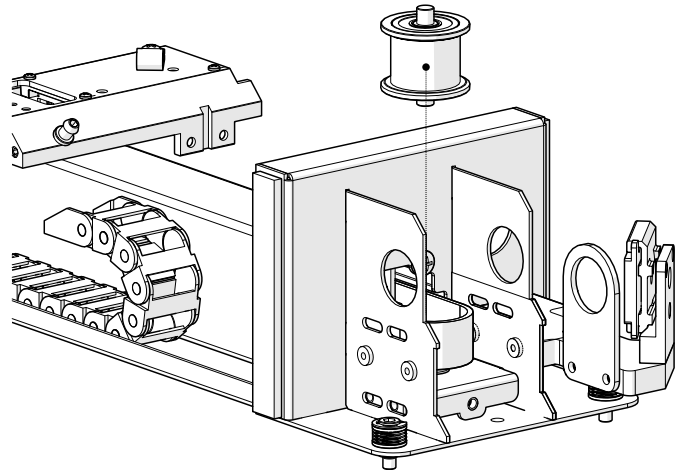


X-Axis Idler Installation

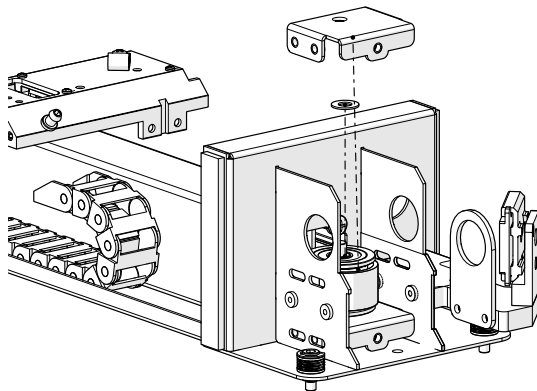
1. Ensure that the lower Delrin washer is in the correct position to allow the idler shaft to enter it and the opening on the idler body:



2. Install the idler pulley:

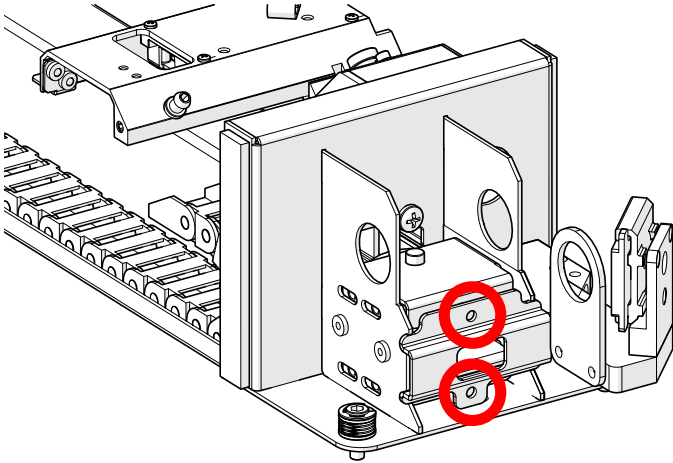


3. Install the upper Delrin washer and upper tensioner bracket:



17000 X-Axis Idler Replacement

6. Install and tighten the two (2) 7/64" Allen screws on the x-axis belt tensioner bracket to remove excess slack from the x-axis belt:



7. Once the slack is removed, reconnect to power and turn on the engraver.

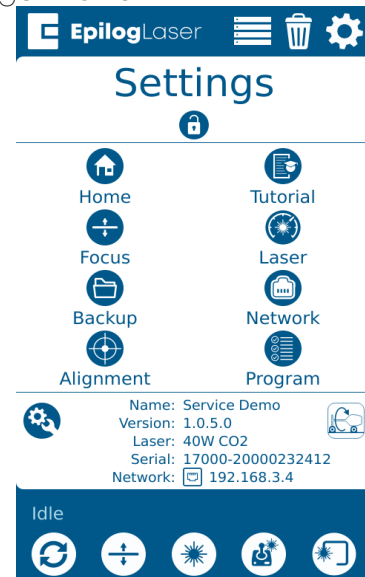
Tensioning the X-Axis Belt

1. Open your preferred illustrating program and create a black, raster box on an artboard that is:
 - For Edge/Pro 12/24: 22" or 560mm wide
 - For Edge/Pro 36: 34" or 860mm wide
 - Roughly 4" or 100mm tall
2. Set the speed to 100%.
3. Power is unimportant, as the machine will be run with the lid open for the procedure.
4. Send the job to the engraver and start the job.

5. At the display panel, press the gear icon in the upper right-hand corner of the display to open the Settings menu:



6. Press and hold the word "Settings" that appears at the touch of the touchpad to gain access to the Advanced Settings menu:

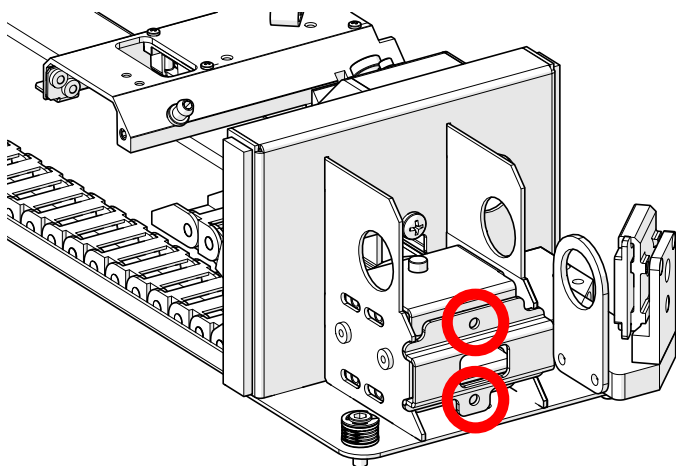


17000 X-Axis Idler Replacement

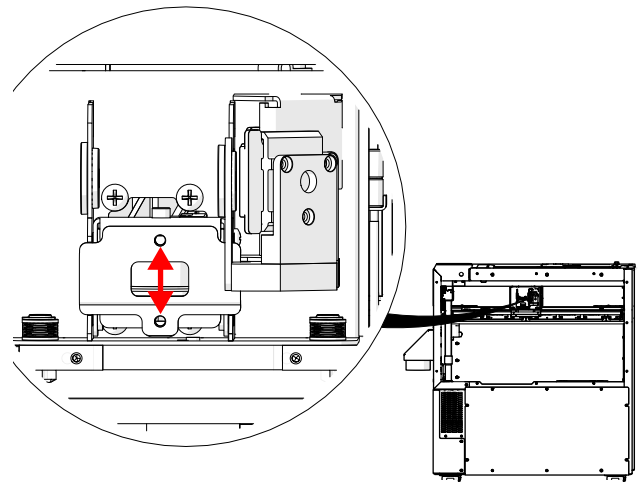
7. Once in the Advanced Settings menu, enter the Diagnostics menu and locate the RMS Current reading for the X-Axis Motor/Drive:



8. During the job, the x-axis motor RMS current should be between 4.0 - 5.1 A, depending on the model of engraver.
- If the RMS current is lower than this, increase the tension on the x-axis belt by tightening the two (2) 7/64" tensioner screws on the x-axis idler assembly.
 - If the RMS current is higher than this, decrease the tension on the x-axis belt by loosening the two (2) 7/64" tensioner screws on the x-axis idler assembly.



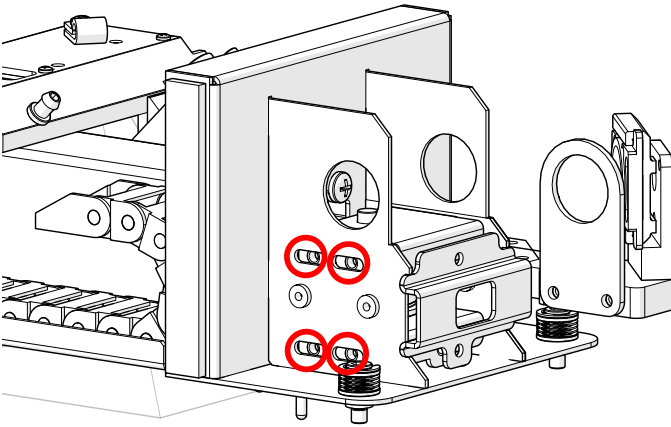
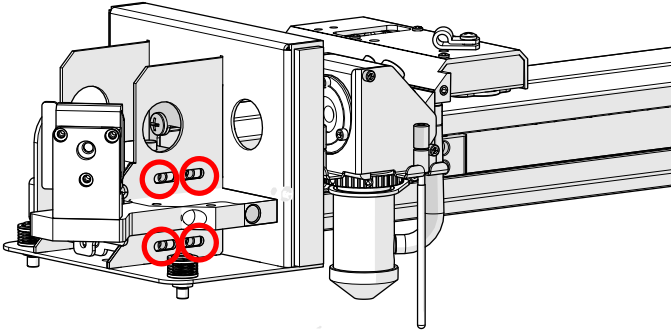
9. After tensioning the x-axis belt, ensure that the belt remains as centered as possible on the idler pulley when in motion:



10. If the x-axis belt is riding against the idler pulley flange, make equal but opposite adjustments to the two (2) 7/64" tensioner screws.
- If the x-axis belt is too high:
 - Tighten the top screw 1/4 turn
 - Loosen the bottom screw 1/4 turn
 - If the x-axis belt is too low:
 - Loosen the top screw 1/4 turn
 - Tighten the bottom screw 1/4 turn
11. Repeat step 10 until the x-axis belt remains as centered as possible on the idler pulley when in motion.

17000 X-Axis Idler Replacement

12. Once the x-axis belt is centered and the optimal RMS current value has been achieved, tighten the eight (8) 7/64" idler mounting screws located on the left side of the x-axis assembly:



13. Replace the left and right side panels of the engraver.

If further assistance is required, please contact Epilog Tech Support by phone at 303-215-9171, or by email at tech@epiloglaser.com.