



EPILOG LASER

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Machine Type: Legend 36EXT

Procedure Title: Replacing the Y axis reducer pulley on the Legend 36EXT

Tools Needed: #1 Phillips head screw driver
5/64 Allen Wrench
Needle nose pliers

1. Turn Laser Engraver "ON". Lower the table all the way down by pressing the "FOCUS" button and the down arrow on the display panel.
2. Turn Laser Engraver "OFF"
3. Standing in front of the machine and left being your left hand side and right being your right hand side remove front and left outer panels. You will be using the #1 Phillips head screwdriver to remove the 8 screws in the front panel and the 9 screws in the Left panel.
4. Now locate the black belt on the Left front corner of the Engraver. This belt loops around a large silver pulley and the belt also loops around a smaller pulley sitting inside a brass block. (see picture)
5. This belt will need to be loosened to be able to remove the reducer pulley. To do so loosen the 4 Phillips head screws located above the 2 springs. (See picture)

NOTE: You may need 2 people to do step 6.

6. Once the screws have been loosened pull up on the brass block as hard as you can and then retighten the 4 Phillips head screws that you just loosened.
7. Once belt tension has been loosened, remove the belt from the large silver pulley.
8. Now loosen the 4 Phillips head screws that surround the large silver pulley and retighten them while lifting up on the large silver pulley. This will release the belt tension that is attached to the reducer pulley. (See Picture)
9. Now accessing through the front panel that you removed and looking to the inside upper left corner there you will locate the shaft

from the large silver pulley. On the end of the shaft there is a retaining ring. (See picture)

10. To remove the ring use the needle nose pliers and use the tips of the pliers to expand the ring, it should slide off after expanding it to a larger diameter than the shaft.
11. At this point the large silver pulley will slide out through the left side of the Engraver. Make sure the bearing on the inside of the Engraver stays in place and does not fall out.
12. Locate the 2 Allen screws the large silver pulley and using the 5/64 Allen wrench loosen the screws. These screws will have to be loosened so the shaft can be pulled out of the large silver pulley. Using your 5/64 Allen wrench loosen these screws.
13. Locate the 2 flat spots on the shaft. These need to be lined up with the 2 Allen screws that you loosened on the large silver pulley.
14. Now remove the old shaft and replace it with the new one, making sure the new shaft is bottomed out as far as it will go onto the large silver pulley.
15. Now put the large silver pulley back into its position and reverse steps 13-1. Do not worry about the belt tensions the 2 springs will set the right amount of tension that is needed on the belts. Retighten all of the screws.

NOTE: Make sure the shaft goes through the belt and the belt is centered on the pulleys.

If you have any questions or concerns, please contact Epilog's Technical Support.

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