1216 Lathe Spindle Removal

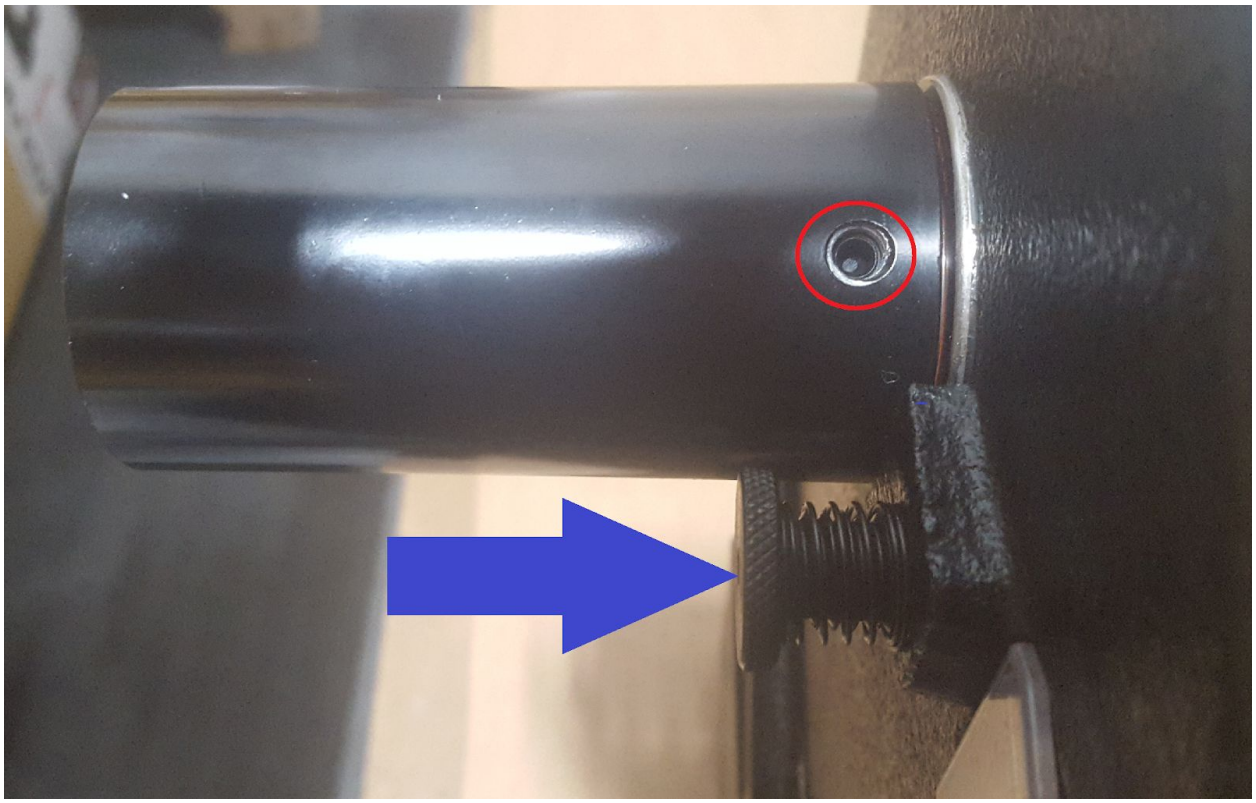
This document was made by Laguna Tools with the intent to direct customers in replacing their spindle or drive belt on their Laguna MLAREVO1216. You will need to following tools perform the actions required in this document:

Set of Allen/Hex Wrenches
Rubber Mallet
Pliers

T.D. / 5-15-20 / Laguna Tools Technical Support

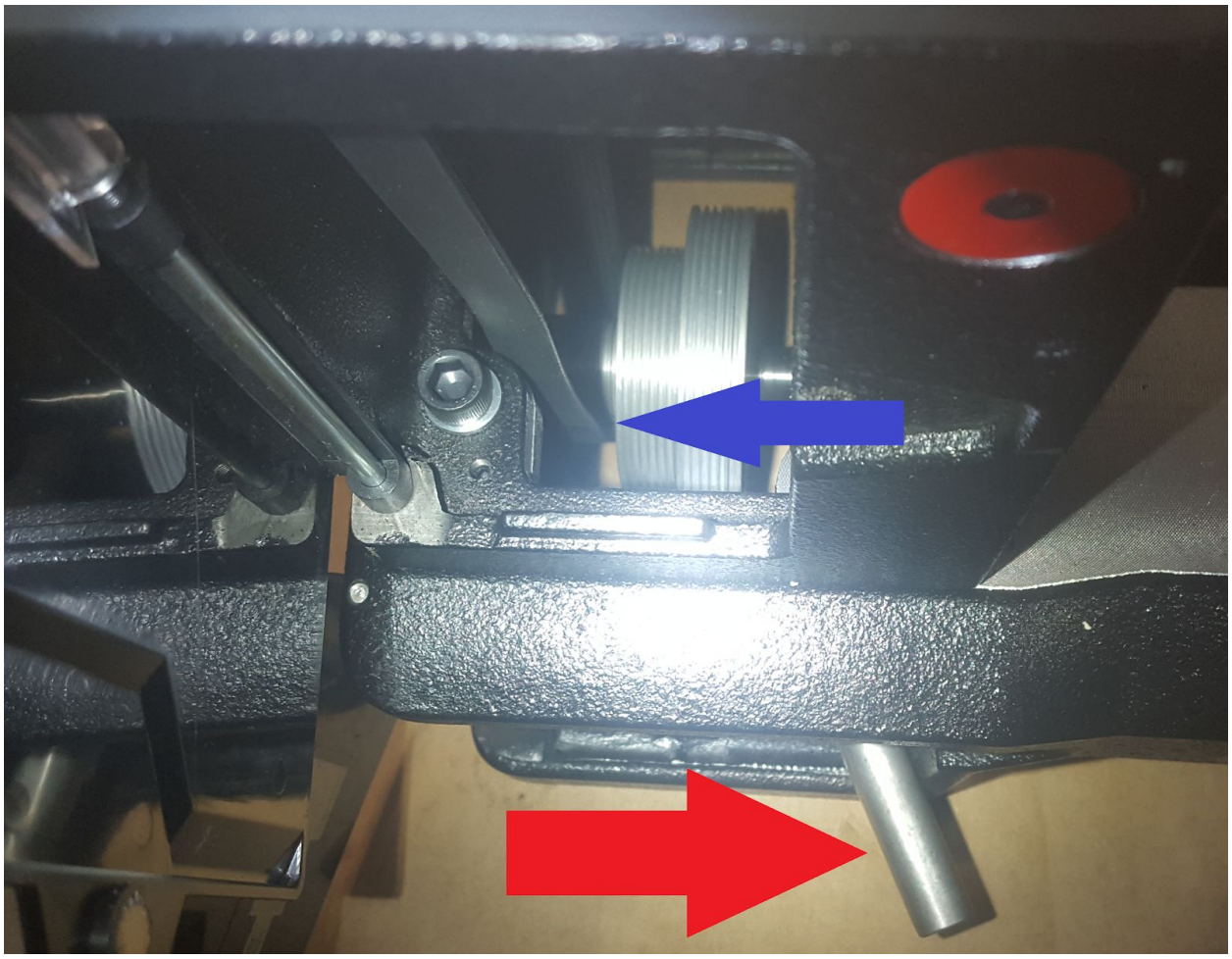
Step 1:

First will be to remove the outboard handle. You need to loosen both set screws on opposite sides of the handle (RED) and to make steps easier moving forward, you can completely remove the indexing pin. (BLUE) After doing this step the outboard side bearing may slide out. This is normal.



Step 2:

Remove the drive belt from the motor pulley. To do this, you will need to turn the handle in the lower compartment to the right (RED) and then push the drive belt off the left side of the pulley (BLUE)



Step 3:

Loosen the set screws on the spindle pulley (RED). During this step, you will notice that the ring on the right side (BLUE) is magnetic. **BE VERY CAREFUL WITH THIS MAGNETIC RING MOVING FORWARD AS IT'S VERY DELICATE.**

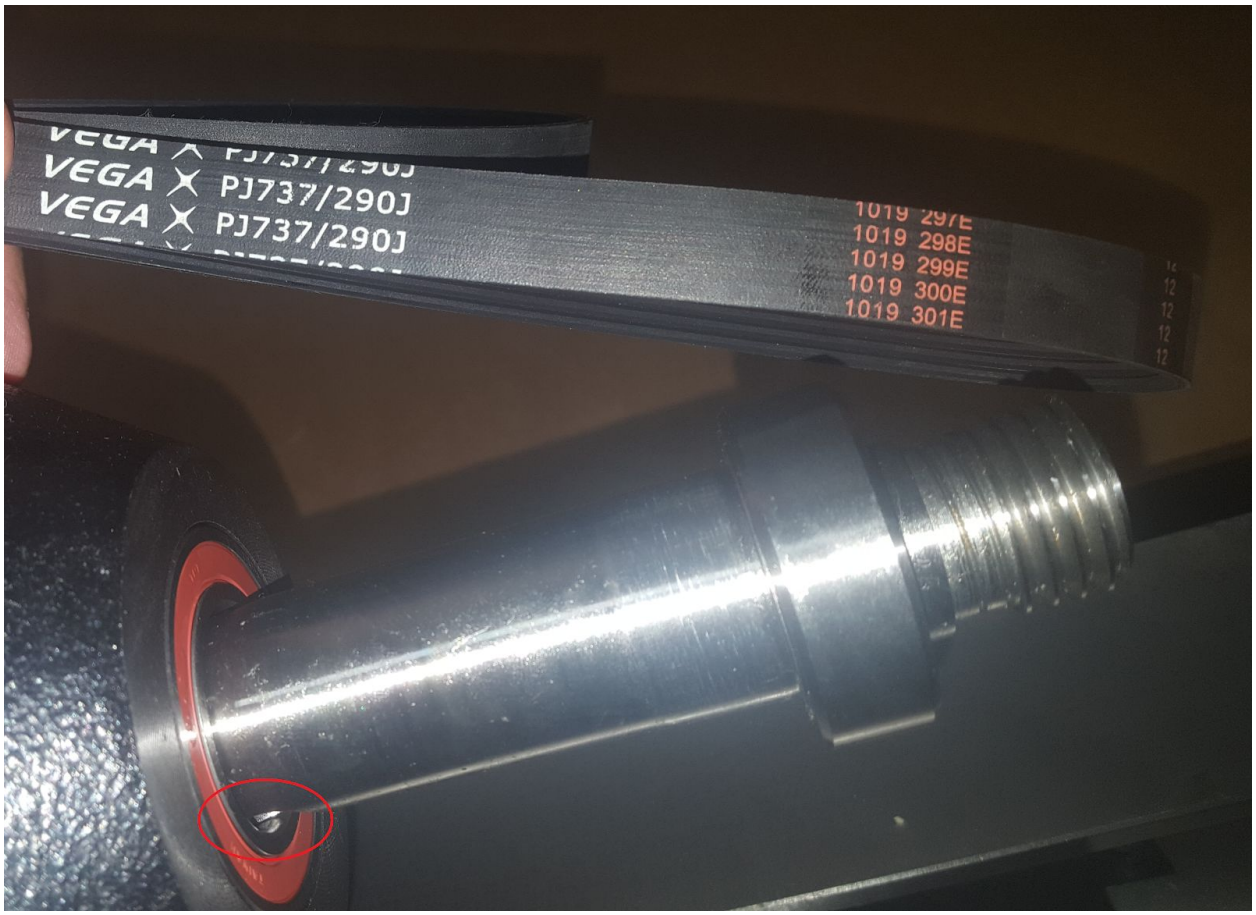
Step 4:

The next step is to begin the removal of the spindle. This is best done by **GENTLY** tapping on the outboard side of the spindle with a rubber mallet depicted below.

Step 5:

The next step involves removing the drive belt. Once the spindle is out as far as is shown in the picture below, you should be able to shift all the components inside such that you can remove the drive belt from the spindle. Depicted below is the distance the spindle is extended and the belt itself. Note the hole in the spindle for the spindle lock is barely exposed. (RED) If you're reading this document to change out the drive belt, simply insert your new drive belt here and reverse the steps above to reassemble.

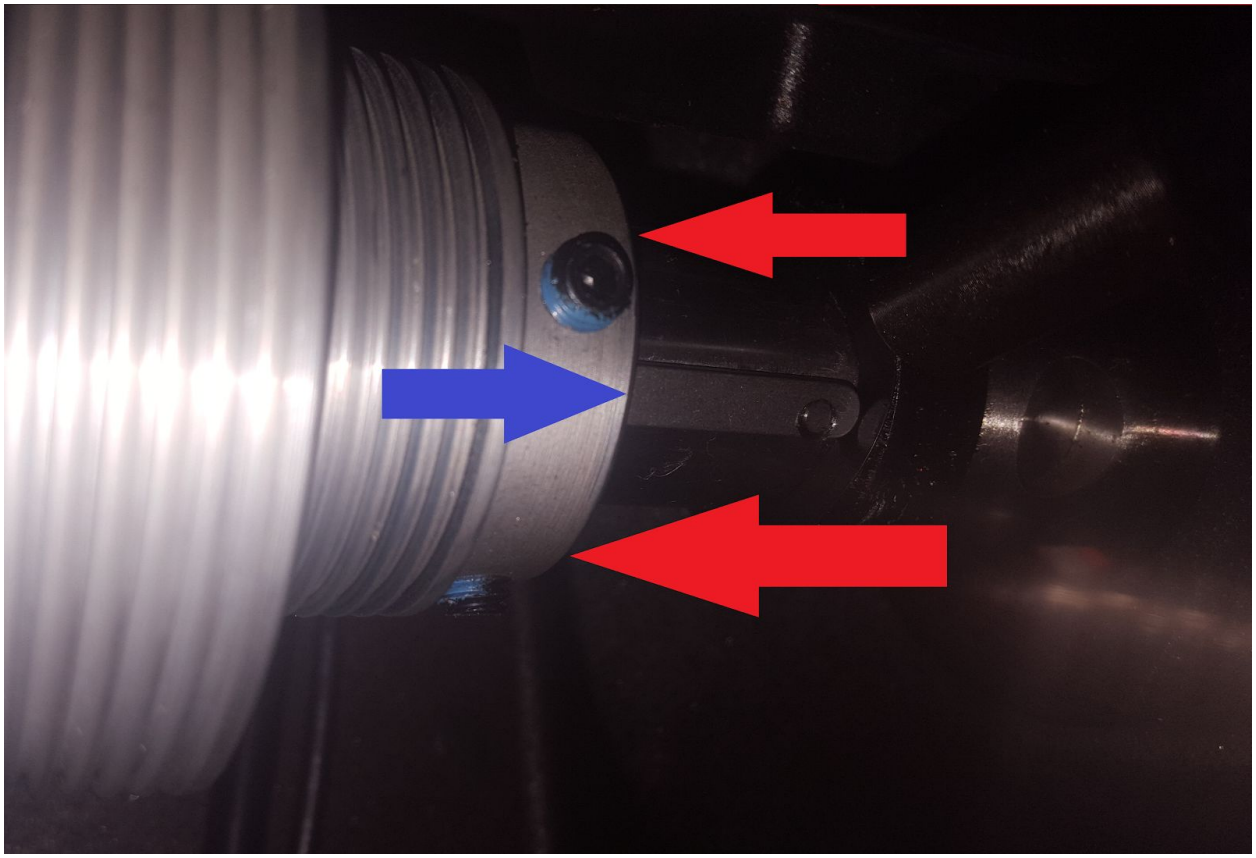
Note: If the inboard bearing comes out with the spindle, this is fine. Just proceed with the steps as normal. This will actually make some of the following steps considerably easier.You wll just need to dislodge the bearing to insert it into the headstock before inserting the new spindle.That will be done after Step 7.



Step 6:

<u>The following steps will be very delicate and require a great deal of patience. The lack of which will result in the need for replacement parts.</u>

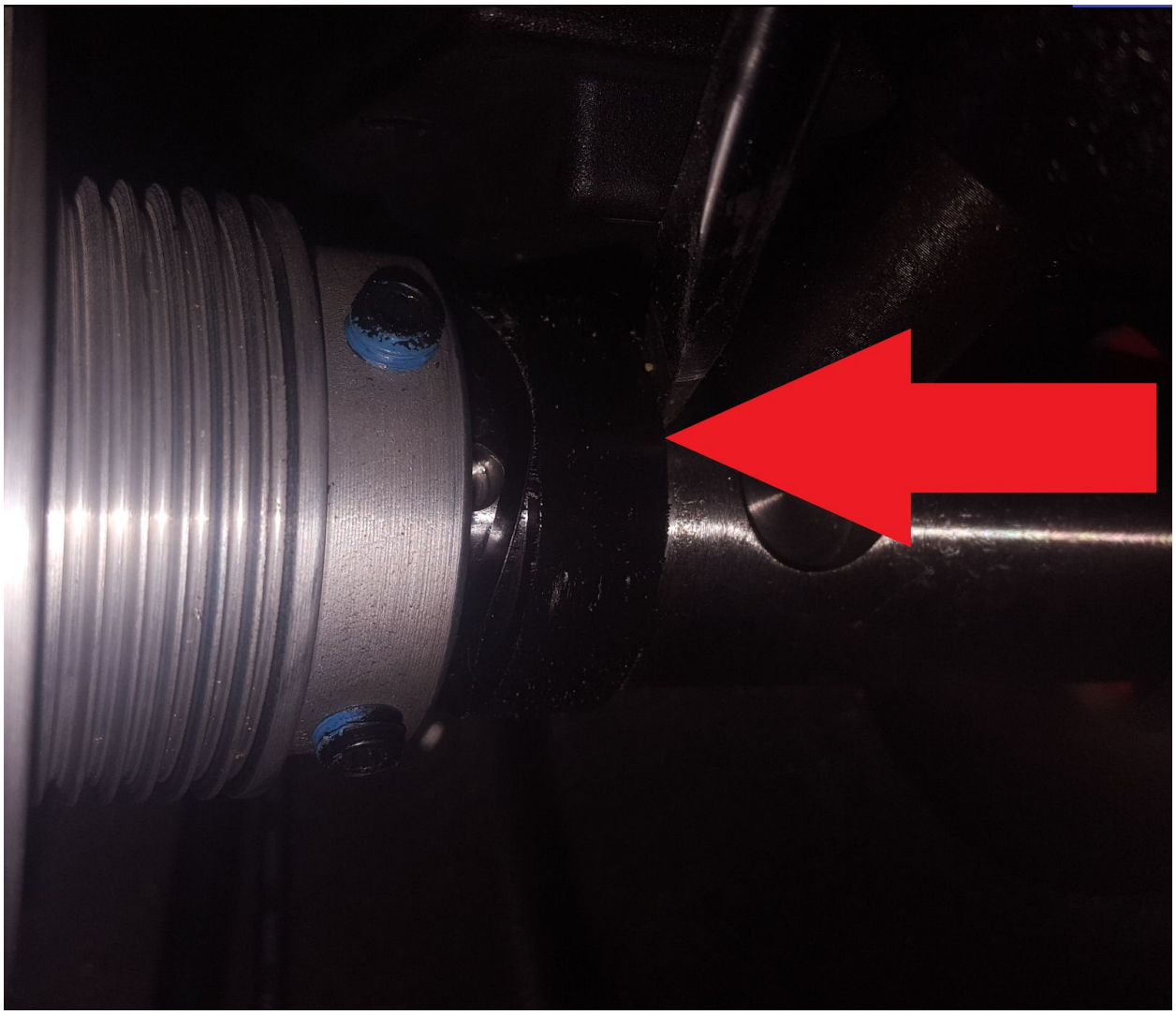
We need to remove the key from the spindle. To do this, the spindle pulley needs to be completely loose and you will need to shift it to the left (RED). Once the key is completely exposed, use a pair of pliers to reach in and remove the key from the spindle (BLUE).



Step 7:

Lastly, we will need to remove the magnetic ring and wave washer. Slide the wave washer left and use a flat head screwdriver to slide the magnetic ring to the left side along with the spindle pulley. To do this properly, you will need to gently push it over, rotate the spindle, push it again, rotate again, over and over until it comes loose. **This is by far the most delicate part of this process so make sure to take as much time as needed!!!** Once this is free to move, you can slide it and the pulley off the left side of the spindle while pulling the spindle out of the inboards (Right) side of the headstock and everything is disassembled!

CAUTION: The magnetic ring CAN NOT move right because of the spindle design! It must slide left!



Step 8:

Now take the new spindle and insert it into the headstock. While the outboard (Left) side of the spindle is inside the headstock, you will need to put the following items back on in this order before going completely through the headstock:

1. Magnetic Ring
2. Wave Washer
3. Spindle Pulley Key
4. Drive Belt
5. Spindle Pulley

You may find that it's easier to mount the magnetic ring after polishing down the surface between the keyway and the spindle lock cut-out (RED) With all of this on, you can slide the spindle through the outboard side of the headstock and tighten the handle back down after tensioning the drive belt and making sure all set screws are tightened back down!