Home of the SHELIX®

# Installation Guide for the DeWalt DW735






MYERS WOODSHOP
www.myerswoodshop.com

Photos in this guide courtesy of Myers Woodshop.

Thank you for considering "cutting edge technology." Most woodworkers know that a shear cut is far better than a straight cut. They also know that a staggered cut is much better than just a single straight knife and is quieter and a lot easier on your dust collection system. If you just happen to plane a nail or staple, it is not necessary to replace expensive knives the full length of your planer head! Replace the 2 or 3 small inexpensive knives and you're ready to go! You might expect to pay a small fortune for a journal head with these features. Here at Byrd Tool Corp we can manufacture a journal head to your specifications for typically a fraction of the cost you might expect. Don't be fooled by a head that looks like it is helical when the knives are square with the cut! This is common practice, but our heads are anything but common, and they have been proven to be the best! Let's get started!

Tools Needed

1. 15/16" or 24mm Socket and Ratchet (6 point is recommended) (for pulley nut)
2. 6mm socket (for drive gear)
3. 5mm & 6mm allen wrench
4. #1 Phillips Screw Driver
5. Snap Ring Pliers
6. Supplied Dewalt hex wrench
7. Supplied Handle and Bit from Byrd head package
8. Hammer and a Sturdy block of wood
9. Grease (plumbers or general use grease) add to the Drive Gear before replacing the gear box back on.
   ****Optional****
10. Blue Loctite

## NOTE* the cutter rotate lock plate that you remove does not go back on the "SHELIX"

Let's get started!

A. Be sure the machine is disconnected from the power source.

B. Be very careful not to damage the carbide knives while assembling the head into the machine.

C. Always use a rubber mallet, dead blow hammer, or a block of wood with a regular hammer when tapping the cast housing.

D. Brush or blow off the chips from the machine and clean the floor around the machine.

**If a bolt or washer is dropped, it is so much easier to find on a clean floor!**

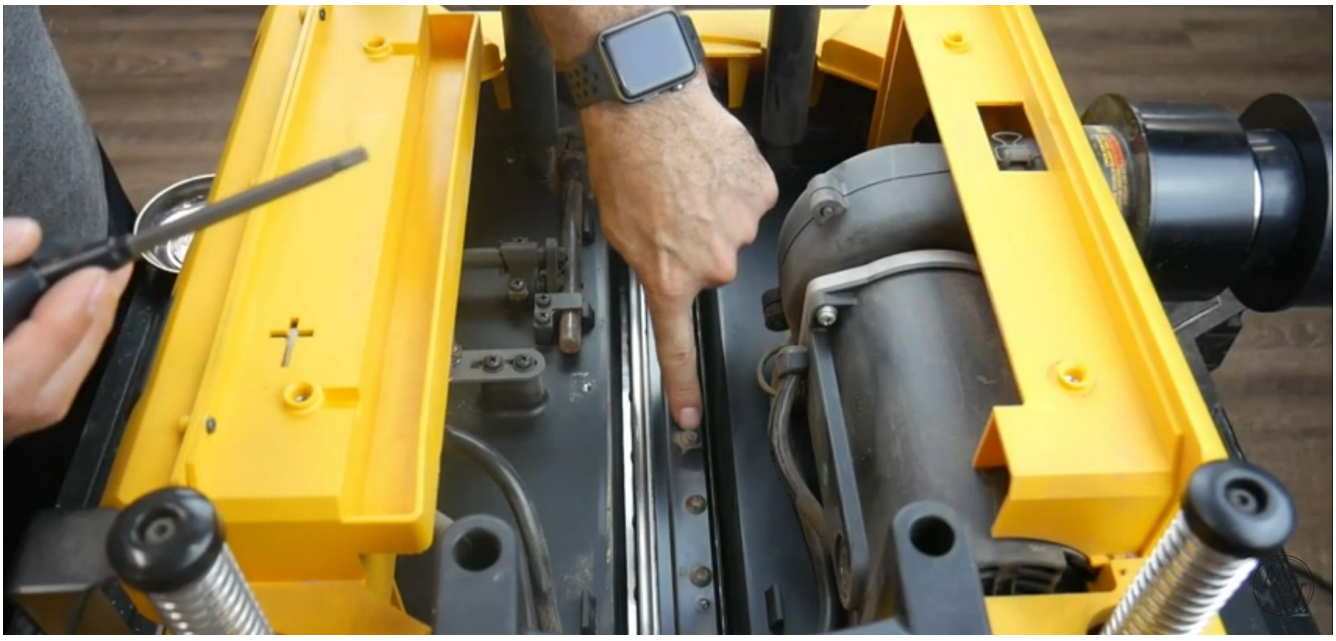
1. Take the top cover off after removing the 4 screws with the supplied wrench from DeWALT.




**2. Remove the dust cover by removing the 3 red thumb screws.  Doing this will expose the cutterhead.**

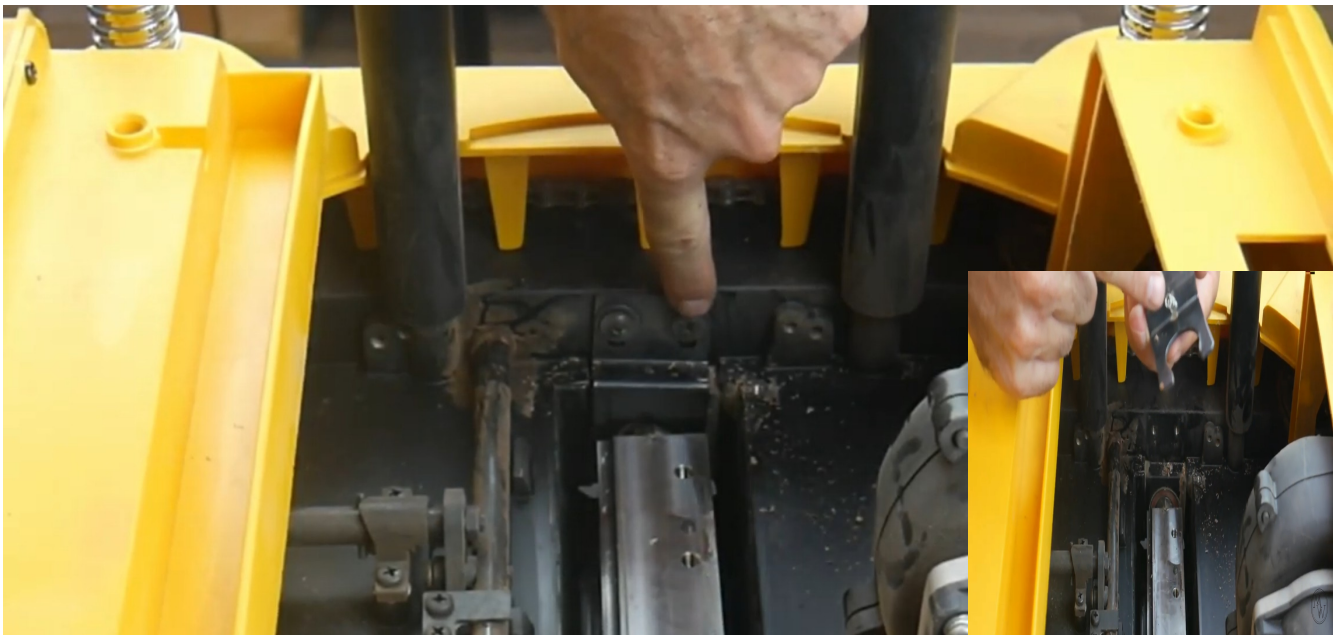


**3. Remove the 3 Blades and clamp bar from the stock cutterhead.**



4. **Remove the cutter rotate lock plate by removing the two Phillips head screws. Be careful to catch the spring that is underneath the bracket.**

   **Be careful not to strip out the screw heads as they are held in place with blue thread lock.**



*****THE CUTTER ROTATE LOCKPLATE CAN NOW BE DISCARDED*****

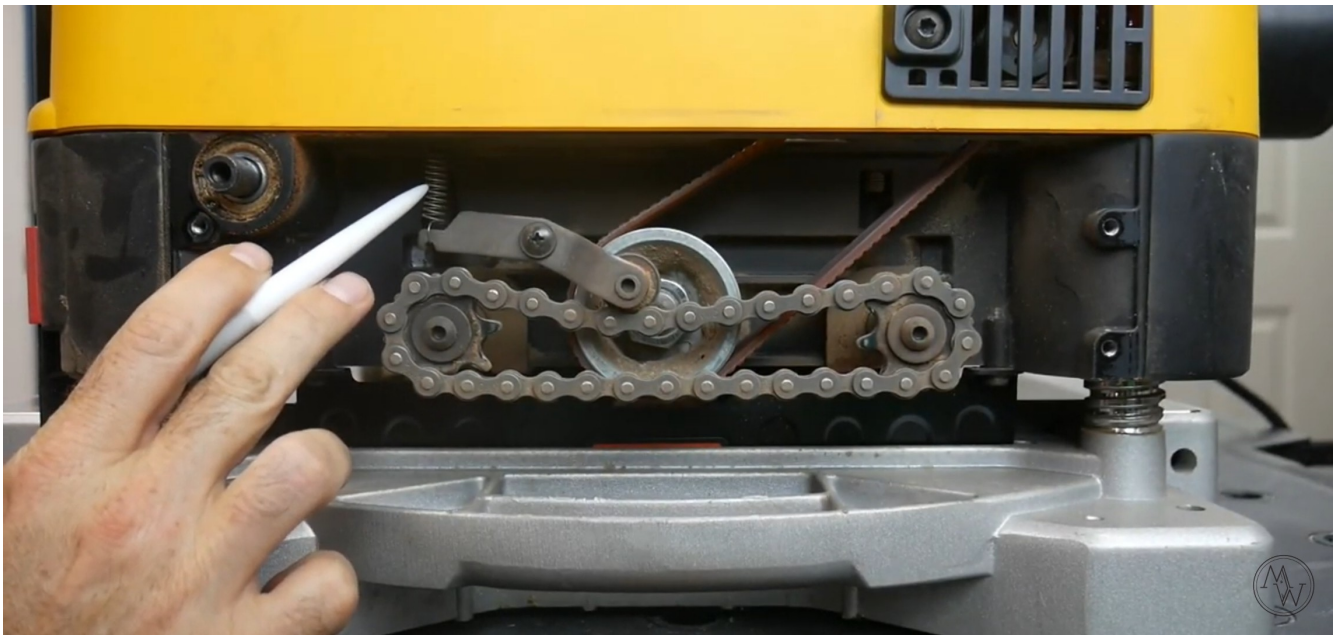
**5. Remove the handle.**




**6. Remove the 4 screws and cover. This will expose the feed chain and pulley.**



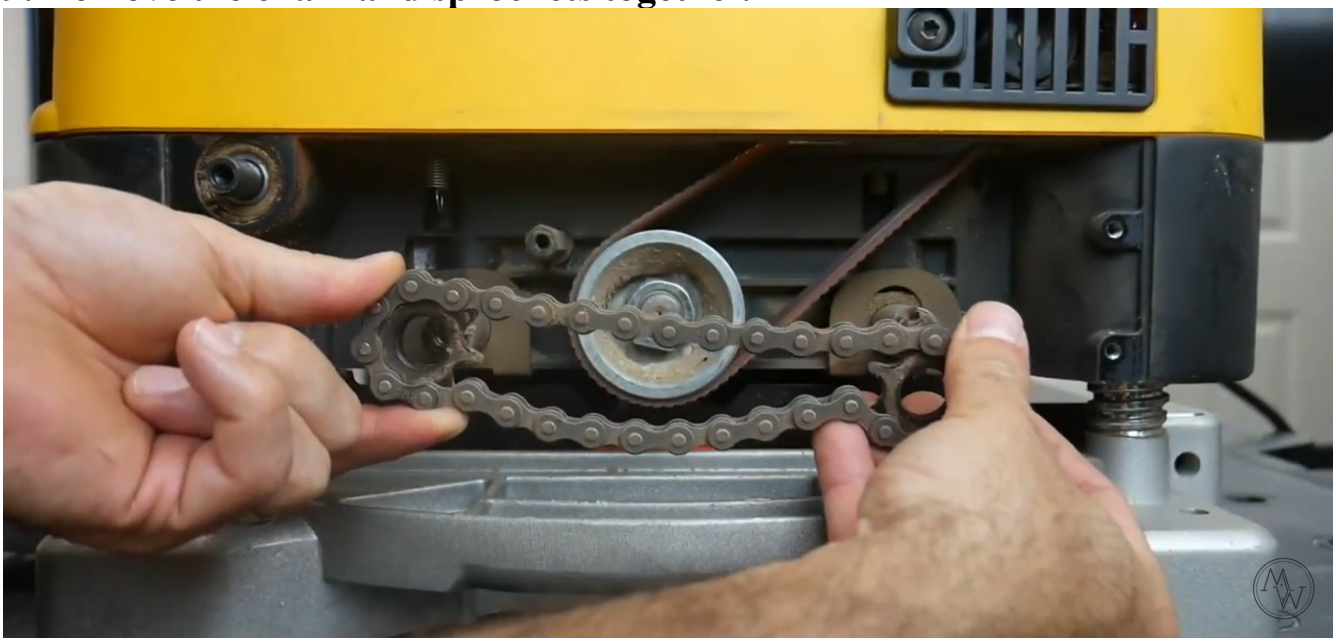
**7. Unhook the tension spring and remove the idler arm, being careful not to strip the Phillips head screw which is held in place with blue thread lock.**



**8. Remove the screws on the end of each drive chain shaft.**



**9. Remove the chain and sprockets together.**



**10. Remove the poly-V belt from the pulley. Push it aside for now.**



**11. Remove the pulley nut from the end of the cutterhead.**



***NOTE use a block of wood to prevent head from rotating while removing the nut. (24Mm or 15/16” six point socket)**



**12. Slide the pulley off taking care not to lose the key, and remove the bushing from the shaft.**





**13. Remove the snap ring from inside the bearing housing.**



**14. Remove the 3 screws and cover from the opposite side of the machine.**



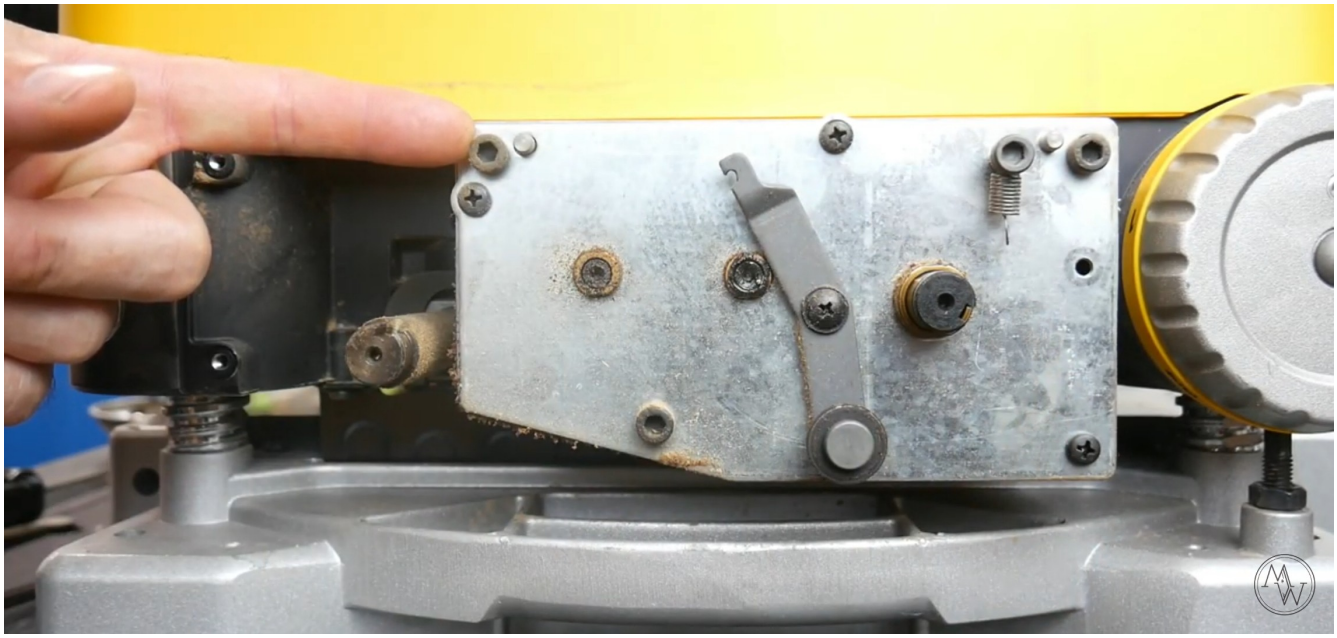
**15. Remove the snap ring from each of the 2 drive chain shafts.**



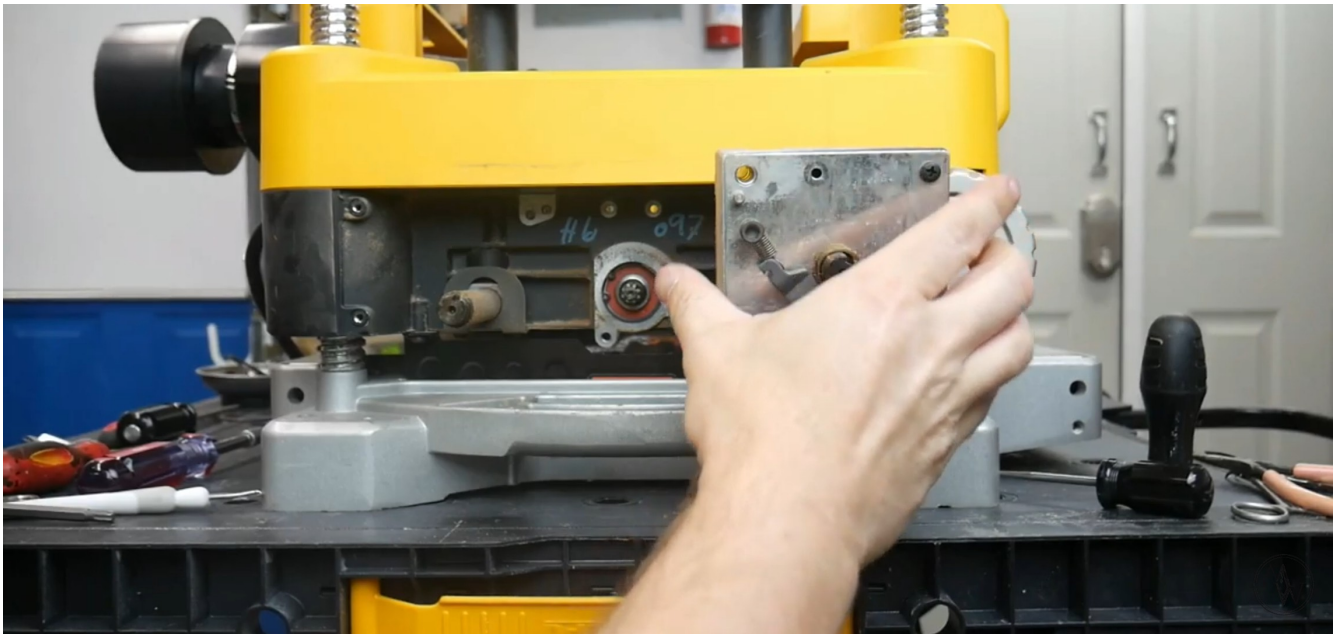
**16. Disconnect the spring from the chain tensioner.**
**17. Remove the chain and sprockets together.**
**18. Remove the washer that was behind the sprocket on the right shaft.**



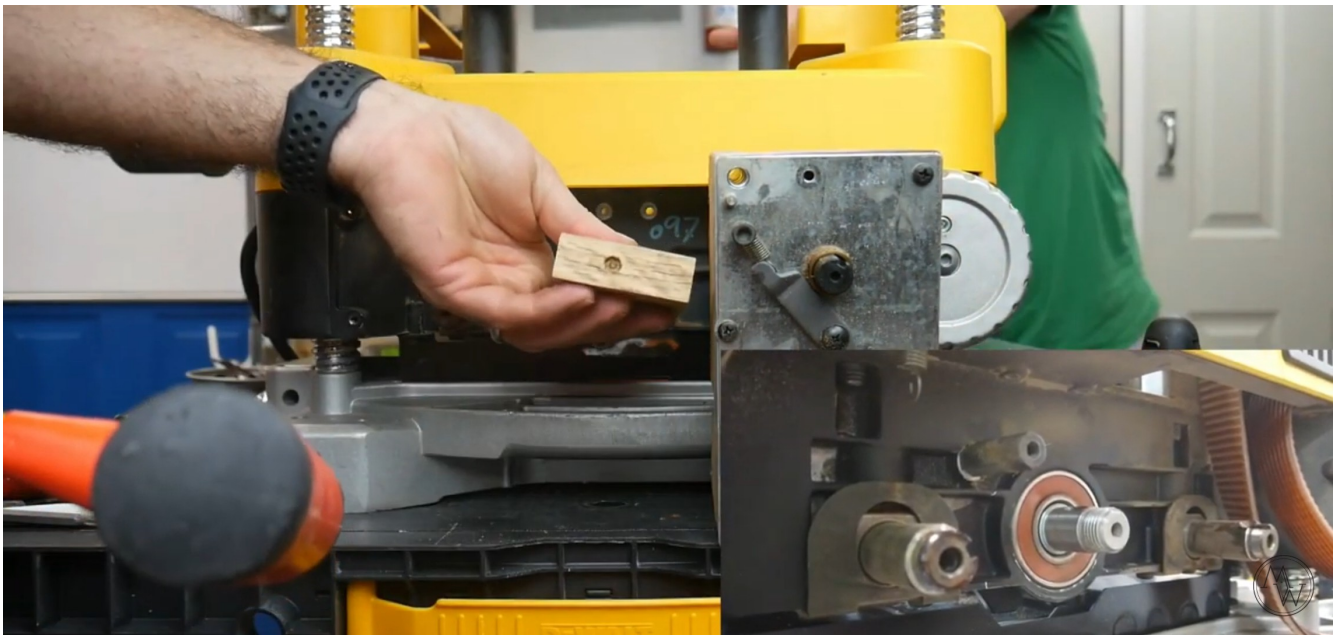
**19. Remove the 3 socket head screws that hold the gear box in place.**

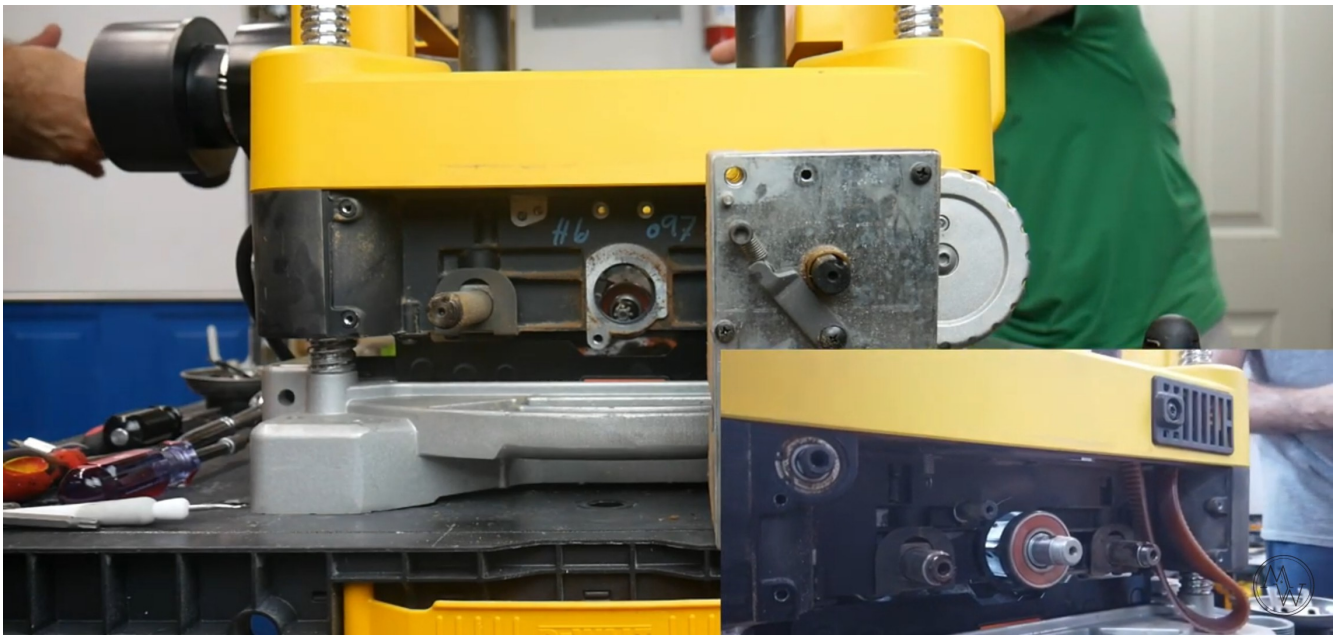


**20. Pull the gear box back but DO NOT completely disconnect it from the machine.**



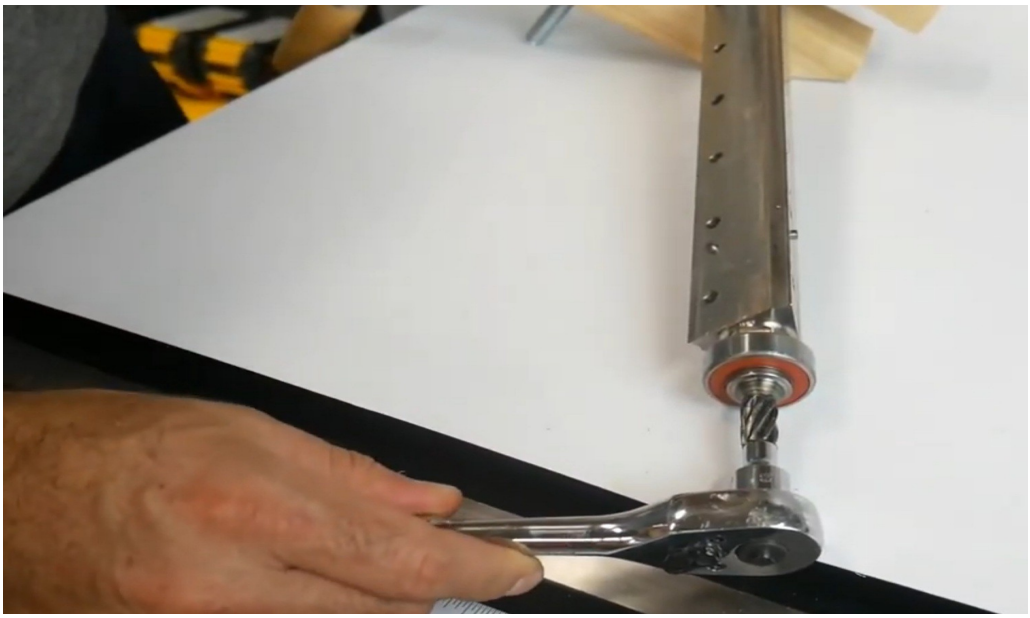
**21. From the side opposite of where the pulley was, tap the head out using a piece of hardwood.**

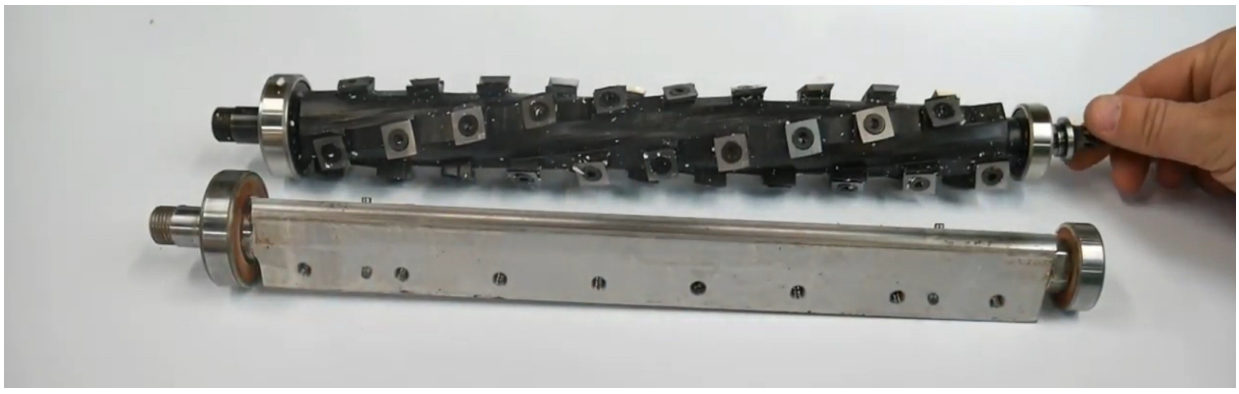




**22. After the head is removed by sliding it through the bearing housing, unscrew the helical gear from the end of the head. The hex end of the helical gear requires a 6mm wrench, but it's very easy to round off the corners. So you may find it easier to remove by carefully grabbing the round base of the gear with a pair of channel locking pliers. Then put the gear onto the new "SHELIX" cutter. You may use Blue Thread Loctite on the helical gear threads.**

*****TAKE CARE TO NOT DAMAGE THE SPLINES*****





**23. If you have purchased the reduced version, the head is ready to be installed into the machine by reversing the disassembly instructions (you can wrap the head in painters tape to keep from nicking the inserts whilst feeding the body into the machine). If you opted to go with the OEM version, the knives will need to be removed before re-installation.**

**Remember the inserts should be torqued to around 40 INCH pounds. (check out the video under tip rotation/replacement on our web page** https://www.byrdtool.com/videos **)**

**24. Carefully tap the head into position making sure the bearings are fully seated in the housings.**

**25. Assembly should be done in reverse order of disassembly taking care not to forget snap rings, chain tension spring connector, washers/spacers, and the pulley bushing.**

**26. Make sure the head spins freely before the pulley is installed.**

**27. Be sure the poly-V belt is entirely on the bottom and top pulleys. (Removing the small vent will allow a place to view the top pulley to ensure the belt is entirely on the grooves)**

**ENJOY and HAPPY WOODWORKING!**

