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Working Hard To Be Your Lifetime Woodworking Partner!

Service Tips and Articles

***Never - turn the speed dial on the assembled headstock without the belts and pulleys turning. *Cleaning the MARK V* Either powered or by hand**

Hands On Sept/Oct 80 (Revised 4/99)

No matter how long you've owned your Mark V, it needs a little tender loving care after every 10 hours of operation. This will guarantee trouble-free woodworking year after year.

Run you Mark V up to high speed, turn off and unplug it. Remove the screws holding the belt cover and slide it away from the headstock. Also remove the nameplate with a screwdriver. (This plate can't be removed on 1953 and 1954 models – drop the motor instead.)

Clean the sawdust out of the headstock with an air compressor, vacuum cleaner, or tire pump. Check the belts for wear, then lubricate the motor shaft and sheave with two drops of 3-in-1 oil. To make it easier to see the oil hole in the motor sheave, separate the spring loops, two turns from the sheave, with a screwdriver. Turn the spindle until the hole in the control sheave can be seen and put two drops of oil in it. Replace the nameplate and the cover.

After replacing the cover, and before you power it up, mount the 12" sanding disk to the main spindle and manually rotate the quill while gently returning the speed dial to the "Slow" position. Remove the disk, plug in your unit, turn it on and run the machine through the entire speed range a few times, and then return it to the "Slow" position before powering off. Never power the unit on in anything but the slow position. Check the speed dial every time you turn your unit on, and use the above proeedure to resolve it if it is not in "Slow".

We can't stress the importance of this service enough. Cleaning out the sawdust periodically will prevent your bearings from drying out. Oiling prevents damage to the speed changer. If you have trouble changing the speed, or your machine sounds a little noisy, the time to do this maintenance is now.

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Everett L. Davis

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The cleaning instructions were revised in April of 1999 and appear on the Shopsmith /ownersite/servicetips website today without the annotations I made in green.

If an unskilled new owner were to acquire a Mark V and then solely follow these instructions as written, there are some important pieces of information that they really need to know that are not discussed.

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Shavings April/May 76 (Revised 7/99)

Hello Woodworkers!

For those of you who have Mark V's manufactured before 1955, serial #312507 and smaller, do not follow the oiling instructions in the new Owner's Manual. Pre 1955 models do not have an access hole behind the nameplate. If you try to remove it as stated in the new Owner's Manual, you'll probably break it. To oil the intermediate shaft, remove the belt cover and oil it from the side with a piece of wire dipped in oil. Procedures of oiling the motor are the same from all Mark V's.

Due to the many letters we have received, I would like to supplement the oiling instructions in the Mark V Owner's Manual. The Owner's Manual says when oiling the motor shaft, pry off the plug button located on the belt cover. This is to expose the oil hole located on the motor sheave. Using this procedure, it's very difficult at times to locate the oiling hole without having X-ray vision.

If you have the problem, the procedure to oil the motor shaft is as follows:

1. Before oiling, turn off and unplug your machine.
2. Rotate the speed dial up to "Rout-Shape" range. **- Reverse order of 1 & 2 -**
3. Remove both screws located on either side of the belt cover and take off the belt cover. With the belt cover off, the entire motor shaft assembly is visible.
4. Locate the oiling hole - it's located at the base of the moveable sheave, underneath the spring. A screw driver can be used to pry apart the spring coils two of 3 coils from the sheave. With the coils separated, the oil hole will be clearly visible.
5. Dip a wire or slender stick in a good light weight oil and allow three or four drops to drip into the exposed hole.
6. Replace the belt cover and mount your 12" Sanding Disk to the main spindle.
7. Rotate the Disc by hand as you Gently turn the Speed dial down to the "Slow" position.
8. Plug in your unit, turn on and run the machine through its entire speed range a few times.

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