

## Lubricating The Sheaves

### WARNING

Turn off and unplug the Mark V BEFORE you begin any maintenance procedure.

Before you begin a maintenance procedure, remove the blades, bits or any other accessories that are mounted on the machine. Set the machine in the horizontal position and secure the headstock lock.

### Cleaning

As you work, sawdust will accumulate on and in your Mark V. This residue can affect its performance.

### Blowing Out the Headstock

1. With a medium Phillips screwdriver, remove the two screws that hold the belt cover. Then slide the belt cover back along the way tubes toward the left. Open the access hole by removing the bottom screw and turning the nameplate 180°.
2. Working through the openings, completely blow out all the sawdust from the inside of the headstock. Use an air compressor. Replace the screw.

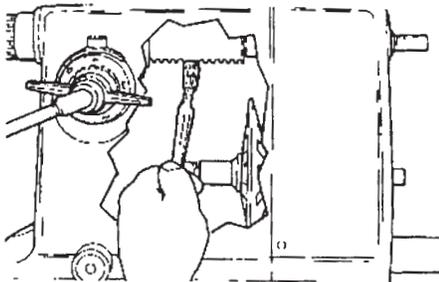


Figure D-1

### NOTE

To keep the machine running at maximum performance, blow out the Headstock every 5 hours of running time..

### Lubricating

All the bearings are shielded and permanently lubricated so they do not need lubrication. However, there are several other parts that require lubrication.

### Lubricating the Sheaves

3. Every ten hours of running time or once a month if not is use, lubricate the floating sheaves (pulleys) with a good 10w30 non-detergent motor oil. Be sure to oil both upper and lower sheaves. Apply the oil sparingly (2-5 drops only) as too much will mix with a sawdust and cause parts to stick.

### NOTE

Do not use penetrating oils or oils in aerosol cans. They tend to gum up at low temperatures.

4. To lubricate the sheaves, first plug in the Mark V, turn it on and run the speed dial up to the highest speed. Then turn the machine off and unplug it.
5. Oil the upper control sheave first. While looking through the nameplate opening, turn the main spindle by hand until you locate the hole in the sheave. With the oil can tube inside the headstock apply 2-5 drops of oil in the hole, as seen in Figure D-2.

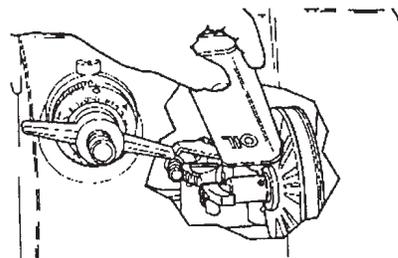


Figure D-2

6. To oil the lower floating sheaves, rotate the main spindle by hand until you find the hole in its sleeve. This hole may be difficult to find because of the spring that fits over the sleeve. When you find the hole, spread the coils of the spring over the hole with a large blade screwdriver. Then apply 2-5 drops of oil in the hole, as shown in Figure D-3. (You can also accomplish this by oiling the shaft directly. With a screwdriver push the spring back towards the sheave and apply 2 - 5 drops of oil.

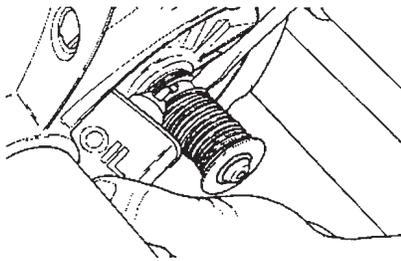


Figure D-3

7. When you've lubricated both sheaves, replace the nameplate and the belt cover. Plug in the Mark V and turn it on. Run the machine completely through the speed range several times to help spread the oil out over the shaft and to distribute grease throughout bearings.
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