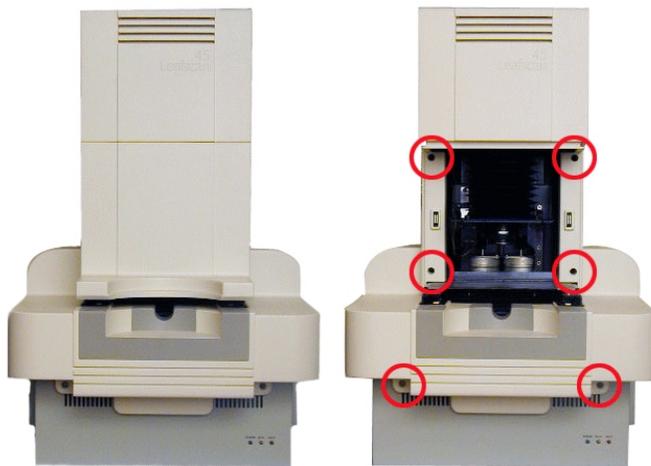


Here's a revised version of the Lubrication procedure which includes photos to help make the job easier. - Russell Proulx

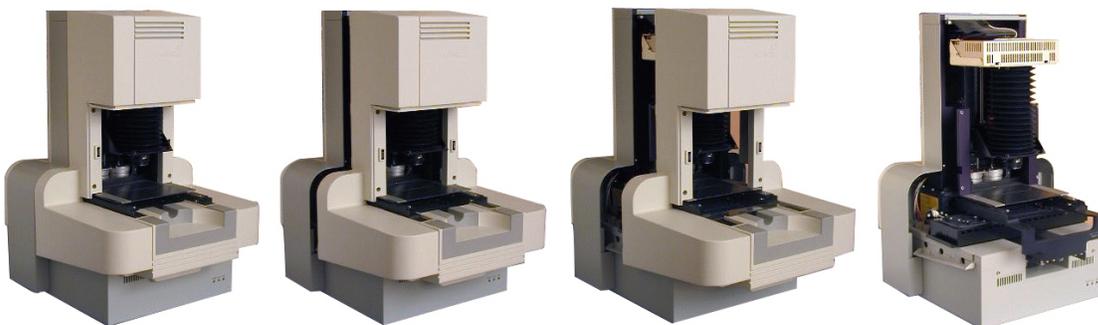
The following is the procedure for lubricating the drive shafts for the stepper table (film advance) and the lens and camera board on the LS-45. This will eliminate any noises during scanning and hopefully allow the components to achieve the correct positions and produce proper focus.

1. Set film format selection to 35-portrait.

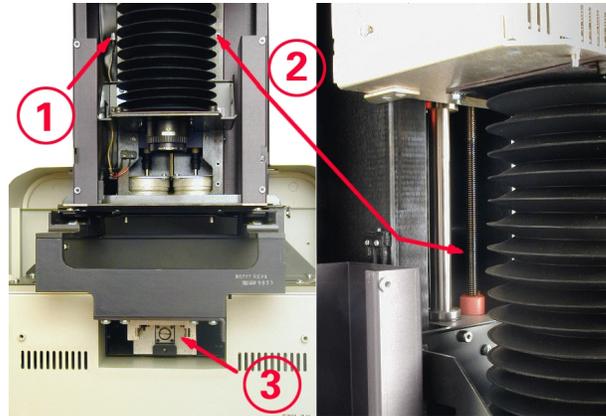
2. Power off the scanner, remove the front cover and then remove the six (6) screws which secure the front part of the scanner housing.



3. Remove the front part of the scanner housing from the scanner.



4. Locate the 2 screw shafts (1,2) behind the bellows (left and right) at the rear of tower assembly.



5. Lubricate these 2 shafts with a small amount of TEFLON GEL LUBRICANT PASTE (Radio Shack part number for the Teflon lubricant is cat. # 64-2326)

6. Locate the screw shaft (3) under the stepper table. Turn the slotted screw head on the end of this shaft until the stepper table moves away from you and exposes the entire screw shaft (4-5 inches).



7. Put a small amount of the TEFLON LUBRICANT on the head of a flat head screwdriver and apply it to the screw shaft inside the housing near the other end where the shaft goes into the bearing.

8. Replace the cover and set scanner to self diagnostic mode which will run motors back and forth to spread out the lubricant. (Remember to record previous settings to aid in resetting the scanner after you are done). Run the scanner in diagnostic mode for about 20-30 minutes to ensure proper lubrication.

The diagnostic mode is set using the **3 switch DIP switch** (not the 5 switch one). Move **switch 2** (the middle one) to the opposite position to enable diagnostic mode. For full details of mode settings refer to the pages 26-27 of the "**LS-45 Owner's Manual**" and pages 9-12 of the "**Lamp Installation.pdf**" in the files section.

9. Reset the dip switches to the previous settings appropriate for the interface being used, (SCSI or GPIB).