

Scigen

## CONTENTS: Oil A Oil B Grease G

This kit contains special low-temperature lubricants blended lubricants and grease for routine maintenance of all microtomes.

## Microtome Lubrication Kit 5029



Page 1

### Introduction

The Microtome Lubrication Kit contains three special low-temperature lubricants: Oil "A", Oil "B", and Grease "G." Apply Oil "A" daily (as described below). Apply Oil "A," Oil "B," and Grease "G" whenever the Microtome is cleaned or sterilized (as described below). Proper use of these lubricants will increase sectioning accuracy and extend instrument life.

**CAUTION:** Use of any other lubricants may cause damage that would require factory service.

### Shipping Caps

Remove and discard the shipping caps on the Oil "A" and Oil "B" bottles and replace them with the supplied dropper caps. The dropper caps have replaceable white plastic covers. Note that the tips of the dropper caps do not need to be cut or punctured — the correct size hole is already present.

### Adding Xylene to Oil "A"

Note the fill line on the back of the Oil "A" bottle. Add xylene to the Oil "A" bottle until the level reaches the fill line on the bottle.

### To ensure optimum microtome operation:

- Ensure that all operating personnel follow the procedures and intervals for cleaning and lubrication contained in this instructional.
- Keep the gear shield in place while the instrument is in use.
- Lubricate the Microtome after any sterilization process (as described in the section Cleaning and Lubricating the Microtome (Periodically)).

**WARNING: ASSUME THAT THE MICROTOME IS CONTAMINATED WITH PATHOGENS. USE UNIVERSAL PRECAUTIONS.**

### Lubricating the Microtome (Daily)

In day-to-day operation of the Microtome, apply Lubricant Oil "A" daily to maintain an even cutting action. You may need to lubricate more frequently depending upon use of the Microtome. The only way to determine this need is through ease of Microtome usage.

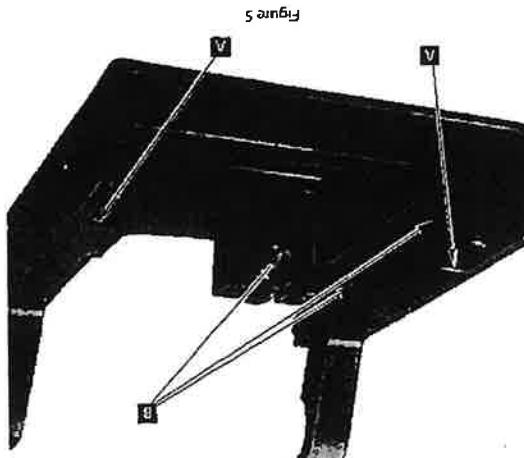


Figure 5

10. Retract the Gear Shield, Anti-Roll Brake Assembly, and Chuck Knob on the Microtome. Observe that the adjustment will severely damage the Microtome. Failure to observe this caution will severely damage the Microtome. Failure to threads when reinserting the Top Slider onto the Microtome. Failure to

CARE! Be extremely careful to prevent damage to the lead screw nut

Page 7

Page 2

### WARNING: REMOVE THE DISPOSABLE BLADE FROM THE BLADE HOLDER.

1. Lower the Chuck to its lowest position exposing the vertical gibs. (It is NOT necessary to remove the top slider from the Microtome for this procedure.) The "gibs" are the two vertical walls against which the Chuck travels vertically.
2. Apply several drops of Oil "A" onto the V-edge surfaces of the Chuck gibs (Figure 1). Be sure to apply Oil "A" to both sides, left and right, front and rear.

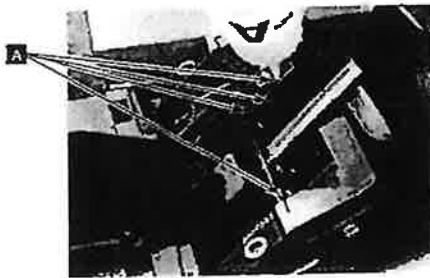
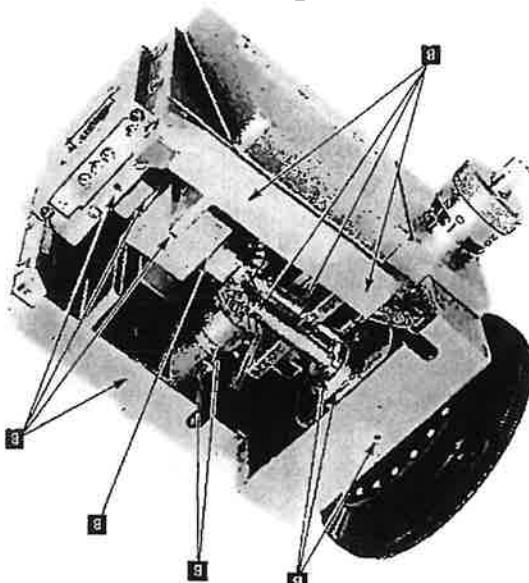


Figure 1

### Cleaning and Lubricating the Microtome (Periodically)

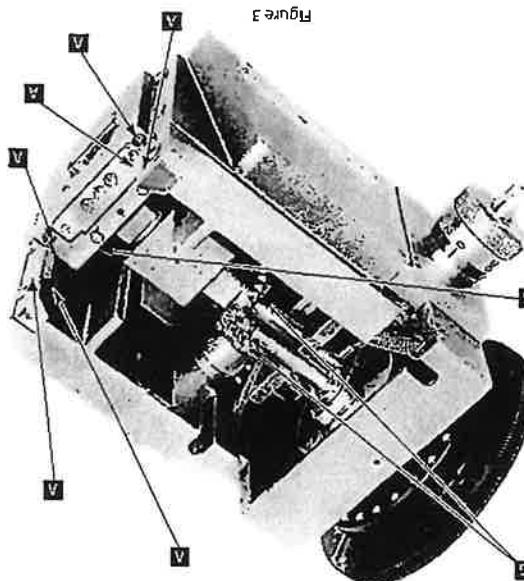
Time intervals for cleaning and lubricating the Microtome vary with frequency of use. However, you must clean and lubricate the Microtome monthly, or more often as needed, and lubricate the Microtome after any sterilization process. To clean and lubricate the Microtome, you must totally remove it from the instrument. Regularly cleaning and lubricating the Microtome is essential for its proper operation and long life.

continued on Page 3



Install the Top Slider back onto the front of the main assembly by reversing steps 1-3. Insert the Top Slider into the main body and slide it until it stops against the lead screw. Do not allow the Top Slider to form a gap with the lead screw. Turn the Coarse Feed Wheel counter-clockwise to engage the Top Slider to the lead screw. Do not allow the Top Slider to form a gap with the lead screw. The lead screw will turn the Top Slider back onto the Top Slider until it stops against the lead screw. Do not allow the Top Slider to form a gap with the lead screw. Turn the Coarse Feed Wheel clockwise to engage the Top Slider to the lead screw. The lead screw will turn the Top Slider back onto the Top Slider until it stops against the lead screw.

9 ଏମ୍ବେ

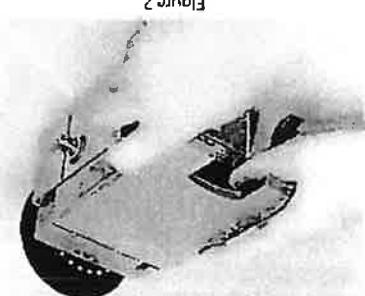


**CALCIUM:** Make sure that Oil B™ enters the 4 lubricating holes in order to oil applicator into the holes and then squeeze the bottle otherwise air bubbles may prevent Oil B™ from reading the bearings.

**HIGH-SPEC:** Place 3 drops of Oil A™ on the front roller surfaces of the clutch and grease the left and right sides of the roller inside the rear of the hub assembly. Place 3 drops of Oil A™ on the front roller surfaces of the front roller assembly. Place 3 drops of Oil A™ on the front roller surfaces of the rear roller assembly. Place 3 drops of Oil A™ on the front roller surfaces of the rear roller assembly. Place 3 drops of Oil A™ on the front roller surfaces of the rear roller assembly.

**HYDRAULIC:** Fill A™ and B™ tanks with 100% mineral oil. Place 3 drops of Oil A™ in the two holes of the vertical gimbals. Also place 3 drops of Oil A™ in the two holes of the horizontal gimbals. Place 3 drops of Oil A™ in the two holes of the horizontal gimbals.

Sage



720

- a. Remove the top front of the intermediate frame the intermediate 35 mm film.
- b. Attach the front of the black cartridge Feed Wheel clockwise (The Top Slider will move sideways) turn the black cartridge Feed Wheel counter-clockwise (The Top Slider will move sideways) turn the black cartridge
- c. Gently slide the Top Slider and pull it towards you to remove it from the lower Microtome assembly (Figure 2).

• Remove the top slider from the Microtome as follows:

1. Lift out the top wheel from the Microtome as follows:
  - a. With the front of the Microtome cold metal
  - b. Turn the wheel clockwise (the Top Slider will slowly move away towards you, automatically turn the black Carter
  - c. Continue to turn the Cages Feed until the Top Slider stops moving.
  - d. Grasp the Top Slider and pull it towards you to remove it from the lower Microtome assembly (Figure 2).

NOTE: Prior to use of the Microtome lift the top of the Microtome lift towards you as follows:

- For cleaning and lubricating
- 100% Alcohol
- Cotton Swabs (use multiple pairs)
- XYlene (or similar Oil - A7)
- For reactivation from cold metal
- Use multiple pairs
- For cleaning and lubricating
- 100% Alcohol
- Cotton Swabs

- Microtome Lubricant
- Xylene (to dilute Oil)
- Cotton Swabs
- 100% Alcohol
- Protective Clothing

Page 3