



# Loupes

## Owner's Manual

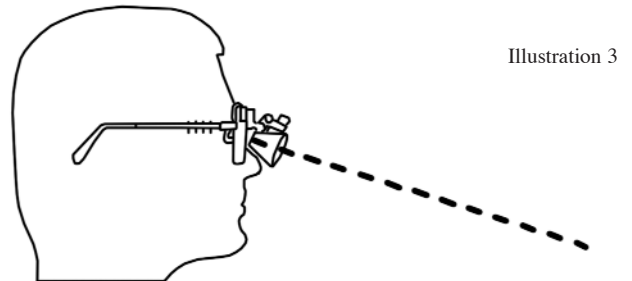
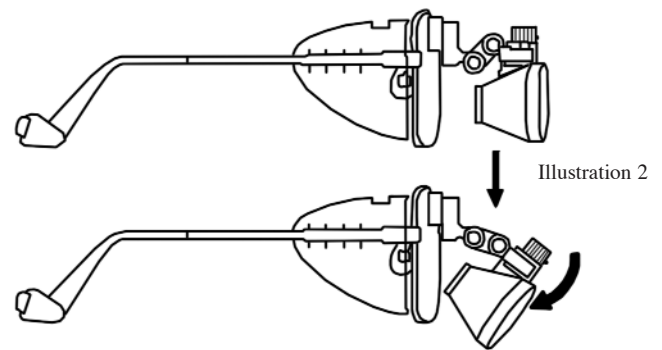
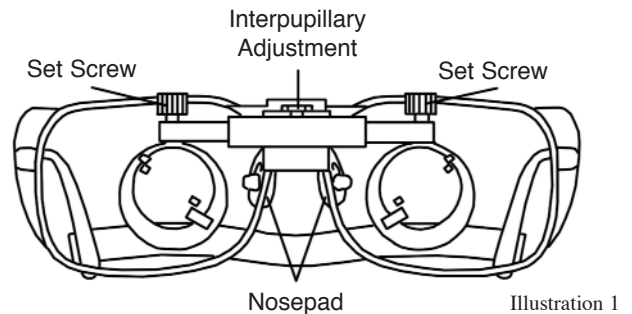


If you require vision correction, use your local optician to place prescription lenses in the eyeglass frames of your loupes. Without prescription lenses, the working distance and depth of field of your loupes could be altered by your uncorrected vision. If you need bifocals, have your distance prescription placed in the top portion and your normal reading prescription placed in the bottom portion of the bifocal. When flipped down, the loupe should align to the lower third of the lens. Overly strong bifocal prescriptions should not be used.

Dentists and other practitioners should have the bifocal set for their appropriate working distance. In exceptional circumstances a straight-top ST-35 or ST-45 bifocal can be used. No other bifocal designs (such as smaller bifocals or progressive lenses) should be considered because they limit peripheral vision and can cause alignment difficulties.

### **ADJUSTING AND WEARING YOUR LOUPES**

1. Check for Optic/Frame Levelness:  
Look at the spectacle frame and hinge. The hinge should be parallel to the edge of the eyeglass frame line. If not, adjust the hinge by flexing it to parallel. It is not uncommon for the optic to shift slightly during shipping. (*Illustration 1*)
2. Angled Hinge Adjustment.  
Adjust the hinge mechanism so that the optics are angled approximately 30 to 45 degrees below a horizontal line. This will allow for the user to look down into the optics while working, keeping an upright posture. (*Illustration 2*)
3. Place the optics on your head, using the supplied head strap for stability: Your loupes are designed to be worn with the snap-on elastic head strap. These are standard adjusting straps.



4. Interpupillary Adjustment. This adjustment is controlled by turning the interpupillary adjustment knob back and forth. Start with the two oculars as far apart as possible and rotate the single knob until the image converges into a circle.

(Illustration 4)

- A. Rotate the interpupillary knob until the two oculars are as far apart as possible.
- B. Position yourself at a comfortable working distance, and focus on a white sheet of paper with small print.
- C. Rotate the interpupillary knob bringing the two oculars together until you see a clean, singular image

5. Working Distance. Your loupes have a preset working distance. Be sure to position yourself back and forth to find the optional distance for your focusing. (Illustration 5)

6. Nosepad Adjustment. The weight of the loupe should be equally distributed across the nosepad. If the nosepad is uncomfortable, flex the nosepad wires until the nosepad conforms to the shape of your nose. Pushing the notepad wires closer together will accommodate a narrower nose and will raise the glasses on your face. Spreading the notepad wires farther apart will accommodate a wider nose, and will lower the glasses.

7. Working Angle Adjustment. The correct operating position for most procedures is with the oculars placed at the bottom section of the glasses. The optics should always be positioned as close as possible to the plastic lenses. This position and angle produces the largest field and magnification.

(Illustration 6)

8. Flip-up Hinge. These loupes are hinged to flip up and down to facilitate magnified and nonmagnified visualization. The flip-up tension is adjusted by tightening the center lock screw in the hinge. The lower lock screw should always be tightened securely, once the working angle has been set.

(Illustration 7)

Illustration 4

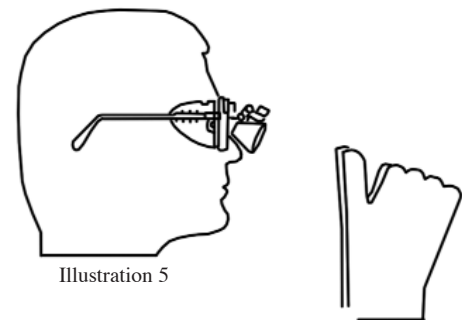
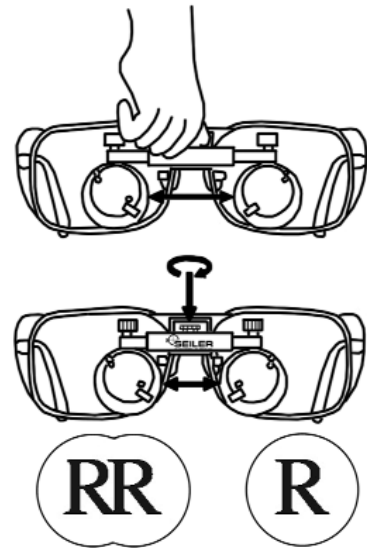


Illustration 5

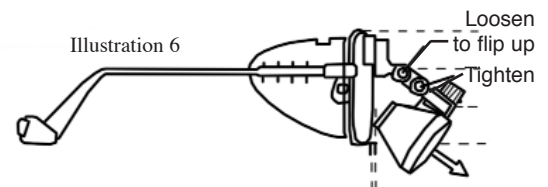


Illustration 6

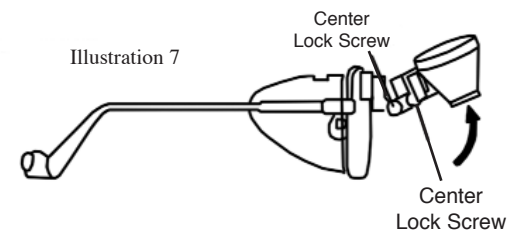


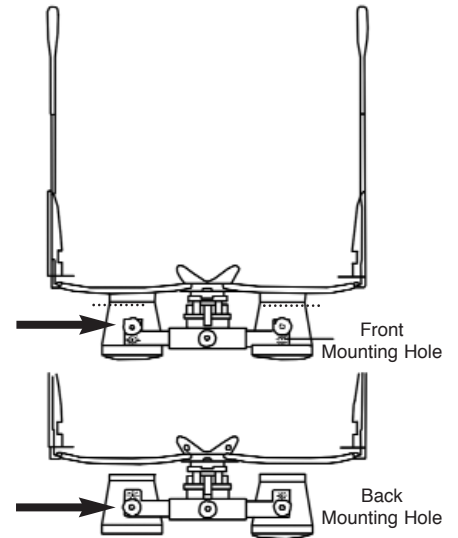
Illustration 7

9. When set properly, your loupes will have one clear circle.
10. Direct Line Vision Repositioning. If a more straight-ahead viewing angle is desired, the optic can be removed to the back mounting holes, adjacent to the current position. This change, combined with repositioning the hinge and locking angle, will produce the desired position.

### **CLEANING**

Optical instruments must be carefully cleaned and protected from excessive exposure to liquids. Your loupes are watertight but not waterproof.

- D. Clean your optics with a moistened 2x2 or other soft cloth. Moisten with lens cleaner or 70% isopropyl alcohol (rubbing alcohol). Dried particles should be carefully moistened with a damp cloth.
- E. Once softened, gently wipe or blow off the debris.



## **WARNING FOR HANDLING OF LOUPES**

- Do not immerse your loupes in water, cleaning solution or cold sterilizing solution.
- Do not spray cleaner directly into the lenses.
- Do not autoclave or chemiclave the loupes.
- Do not use products containing glutaraldehydes.

### **SERVICE AND WARRANTY**

For customers in North America, please return instruments requiring service to a Seiler Technical Service Department listed below.

Seiler Instrument, 170 East Kirkham Avenue, St. Louis, MO 63119

(800) 489-2282 • (314) 968-2282 • Fax: (314) 968-3601 • E-mail: [micro@seilerinst.com](mailto:micro@seilerinst.com) • [www.seilerinst.com](http://www.seilerinst.com)

### **WARRANTY**

Seiler Instrument warrants its loupes to be free of original defects in material and workmanship and to perform in accordance with manufacturer's specifications for a period of two years from the date of purchase. If this instrument or any component thereof is found to be defective or at variance with the manufacturer's specifications during the warranty period, Seiler will repair or replace the instrument or component(s) at no cost to the purchaser if deemed manufacturer defect. This warranty only applies to instruments purchased new from Seiler Instrument or its authorized distributors or representatives. The purchaser must return the instrument directly to Seiler Instrument or an authorized distributor or representative and bear the costs of shipping.

This warranty does not cover breakage or failure due to tampering, misuse, neglect, accidents, modification or shipping, and is void if the instrument is not used in accordance with manufacturer's recommendations or if repaired or serviced by other than Seiler Instrument or a Seiler Instrument authorized representative. No other express or implied warranty is given.