

# USE AND CARE OF SWIFT M26 STEREO MICROSCOPE

SWIFT INSTRUMENTS, INC.

[www.Swiftoptical.com](http://www.Swiftoptical.com)  
877-967-9438



[www.Swift-MicroscopeWorld.com](http://www.Swift-MicroscopeWorld.com)  
800-942-0528 Toll Free  
760-438-0528 International  
[info@swift-microscopeworld.com](mailto:info@swift-microscopeworld.com)

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## THE USE AND CARE OF YOUR SWIFT STEREO M26

### FEATURES OF YOUR SWIFT M26 STEREO MICROSCOPE

**OPTICAL SYSTEM** — No mirrors are used in Swift optical systems; only the highest quality prisms. All optical surfaces are hard coated to reduce reflection and increase light transmission.

**EYEPIECES** — Your M26 Stereo Microscope is corrected to a standard mechanical tube length of 160mm. This means any of the many Swift eyepieces may be utilized.

The M26 Stereo Microscope has an easily adjusted interpupillary control to space the eyepieces exactly the proper distance apart.

**FOCUS CONTROLS** — The focus knobs are located on both sides of the microscope and may be used with either hand.

These coarse focusing controls allow a sensitive adjustment of the focus on the specimen to permit ease of use; this mechanism is provided with strong stops to prevent the rack and pinion from disengaging at either end of the focus range. When either limit is reached, the clutch system will slip to prevent damage to mechanical parts.

The incident illuminator is used for opaque specimens. Note that the entire contrast plate is illuminated which prevents shadows and more evenly exposes the specimen.

All wiring is of the three-wire, grounded system and includes a molded plug, meeting the requirements of the most critical electrical and safety codes, and is tamper-proof.

### OPERATING YOUR SERIES M26 STEREO MICROSCOPE

1. Place the specimen onto the contrast plate.
2. View through the eyepieces and rotate the focus controls to image the specimen sharply in the field of view.

3. Grasp the eye tubes and move them either closer together or farther apart, to see one field of view.
4. Addressing microscope from the rear, close your left eye and adjust the diopter ring on the left eye tube to bring the image of viewing with the right eye only.
5. Close your right eye and, while viewing with the left eye only, adjust the diopter ring on the left eye tube to bring the image of the specimen into sharp focus.  
The optical system is now adjusted to your particular vision.

### SERVICE

The bulbs in the illuminators are 3W, 12V. Reorder Swift MA2614 bulb for replacement.

The focus tension adjustment is unique and exclusive, and is easily adjusted by using Swift Wrench No. MT202. This wrench fits the tension collar found on the focusing controls, between the knob and upright support. A clockwise turn of this collar moves it toward the upright support and increases tension, while a counter-clockwise turn moves the collar toward the knob and decreases tension.

### CLEANING

Eyepieces should be cleaned as often as necessary to maintain them in good condition. Clean the eyepieces by brushing away dust particles, using a soft, camel's hair brush, then moistening the lens by breathing onto it. Wipe the lens carefully with a good quality lens tissue folded several times. If dirt or other foreign matter still remains, it may be necessary to use a mild solvent such as Xylol. Note, the lens tissue should be moistened, not saturated, with Xylol for cleaning, after which the lens should be dried, also with a good quality lens tissue.

Painted surfaces should be cleaned frequently with mild detergent and a soft cloth.

## TROUBLE SHOOTING

- A. PROBLEM ..... the image goes out of focus of its own volition.  
CORRECTION . use Swift Wrench MT202 to tighten the tension collar found on the spindle of the focus controls.
- B. PROBLEM ..... unable to adjust your eyes to see one image.  
CORRECTION . look to infinity, or at a distant object, then quickly view through the Stereo Microscope.
- C. PROBLEM ..... the focus knobs slip at either upper or lower limits of travel.  
CORRECTION . this is normal. A unique slip clutch is built in to prevent damage to precision gears. This is activated at both upper and lower limits of travel.

Your Swift M26 Stereo Microscope is designed to function satisfactorily with only ordinary maintenance. The instrument should be periodically serviced by a qualified, authorized service technician, who will clean, relubricate and perform routine adjustments at that time. Unauthorized personnel should never disassemble lens assemblies or other precision components. For information regarding service, contact your authorized Swift dealer or write to: Swift Instruments, Inc., Scientific Instrument Division, P.O. Box 562, San Jose, California 95106.

Telephone: (408)293-2380

Fax: (408) 292-7967

## SPECIFICATIONS FOR STANDARD MODEL

Magnification: 20X

Eyepiece: Paired Widefield 10X-Field of view 10 mm

Objective: Paired 2X Slide insert type

Working Distance: 70 mm

Stand: Plain without illumination or incident and trans-base illumination 12V, 3W with stage clips

## PARTS AND ACCESSORIES

MA2609 W15X Eyepieces, pair

MA2610 W10X Eyepieces, pair

MA2611 1X Objectives ..... must be factory installed

MA2612 2X Objectives ..... must be factory installed

MA2614 12 Volt, 3 Watt Bulb

MA2615 Stage Clips, pair

MA2616 Eyeshields, pair

MA2617 B&W Contrast Plate

MA2618 Frosted Stage Plate

P-1 Screw to secure eyepiece

