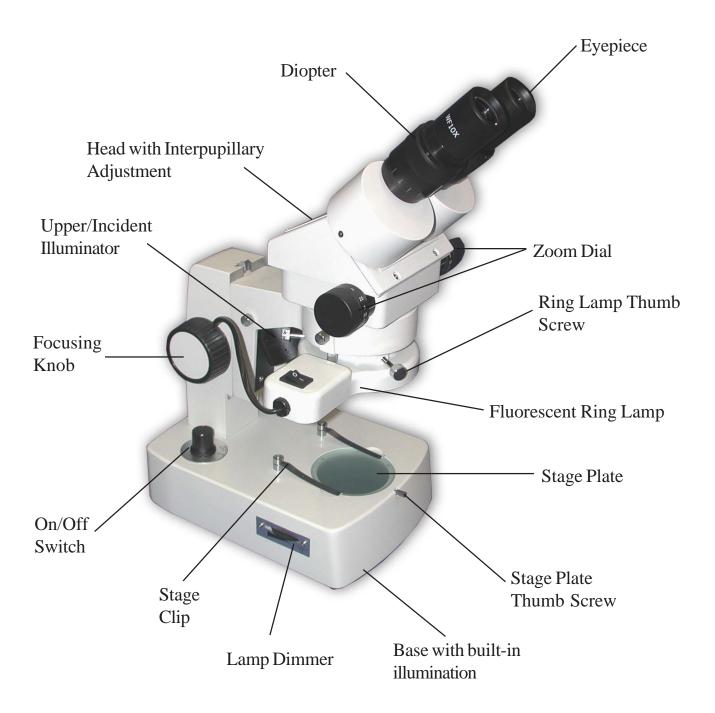
# Student Microscope

# Users Guide



# **S90017 Stereo Microscope Nomenclature**



#### **Warranty Information**

All Fisher Educational Microscopes are warranted to be free of all defects in material and workmanship for a period of 60 months (5 years) from the date of delivery.

#### **Statement of Limited Product Warranty**

The warranty does not apply to any instrument, which has become worn, defective, damaged or broken due to abuse, misuse, and tampering, or unauthorized repairs. Under this warranty, Westover Scientific will repair or replace, without charge to the purchaser, any part, which upon our examination, appears to be defective in materials or workmanship.

#### **Returned Goods Policy for Repair or Replacement Parts.**

Warranty repair is free when the instruments are returned to us prepaid. Domestic return shipment will be made at our expense in a manner similar to your shipment to us. All international shipping charges are to be prepaid.

To return goods for repair or replacement, please contact Westover Scientific Customer Service at 1-800-304-3202 or 1-425-398-1298. Please be prepared to supply the following information:

- . Your name, return shipping address and telephone number
- . Catalog/Model number of the item/s you are returning
- . Serial Numbers if applicable
- . Description of the product's problem or reason for return
- . Date the item was purchased.

The Customer Service Representative will issue you a Return Materials Authorization (RMA) number. Please label the outside of your shipping container with this number.

#### **NOTES**

#### **Introduction:**

This stereo microscope is well designed and sturdily built. It has high quality optics and precision mechanics. The inclined head rotates 360 degrees for comfortable viewing. The S90017 stereo-zoom microscope includes 10x widefield eyepieces, and 0.7x to 4.5x zoom lens for a total magnification of 7x to 45x. The 3 way illumination switch gives you 3 options for lighting your specimen:

- A. Upper and lower lamps on simultaneously
- B. Upper lamp only
- C. Lower lamp only

#### **Assembly:**

Remove the head and eyepieces from the packaging. Slide head into stand, and secure in place by tightening the thumb screw. Remove the eyepieces from protective wrapping, and slide into eyetubes. Slide fluorescent ring lamp onto objective turrect, and secure in place with the 3 ring lamp tumb screws. Your microscope is now ready to use.

## **Using your microscope:**

Turn the microscope on using the on/off switch. Place your sample on the stage plate and look through the eyepieces. Adjust the focusing knob until your specimen is in focus. Adjust the interpupillary distance of your eyepieces utilizing the "folding" motion of the head. Both eyes should be focusing on your sample. If one eye appears out of focus, focus on the specimen with your right eye only. Once in focus with the right eye, close that eye and look at the sample with your left eye. If sample is out of focus, use the diopter adjustment on the left eyetube to bring it into focus. Once this is done, your microscope is ready for use and dioptic differences have been adjusted. Zoom in on your specimen using the zoom dial. The microscope comes with a frosted stage plate, and a black and white stage plate. The frosted plate is used on transparent specimens that light can pass through. Use the black and white stage plate for macro objects that require light from the top. Try viewing your specimen with both sides of the black and white plate to get the best image.

**Lamp replacement:** 

**WARNING: Unplug the microscope from the wall outlet.** Do not touch the new bulb with your bare fingers. Use a tissue or surgical glove. Oils from the skin will lessen the life of your bulb.

To replace the upper bulb, unscrew the cap on the black lamp housing behind the objective turret. Pull the bulb straight out, and push the new bulb into the lamp socket. Remove the stage plate to expose the lower bulb. Remove the bulb by pulling forward, and push the new bulb into the lamp socket.

# **Replacement Parts:**

| S68046     | 12V/10W Upper Bulb              |
|------------|---------------------------------|
| S68036     | 110V/15W Fluorescent Lower Bulb |
| S68042     | 10X Widefield Eyepiece          |
| 12-562-SP1 | Black/White stage plate         |
| 12-562-SP2 | Frosted stage plate             |

To order replacement parts, contact Fisher Education Customer Service at 800-955-1177.

## **General Maintenance:**

When not in use, protect the instrument with the dust cover provided.

Use filtered air to remove dust particles, and lens cleaner on a Q-tip for lens cleaning.

### **NOTES**

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