

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.

Doc. No. ZP-MC-0055
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S90014 Series Student Microscopes

Users Guide



4500 Turnberry Dr., Hanover Park, IL 60133
Toll Free: 1-800-955-1177 Fax: 1-800-955-0740

General Maintenance:

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

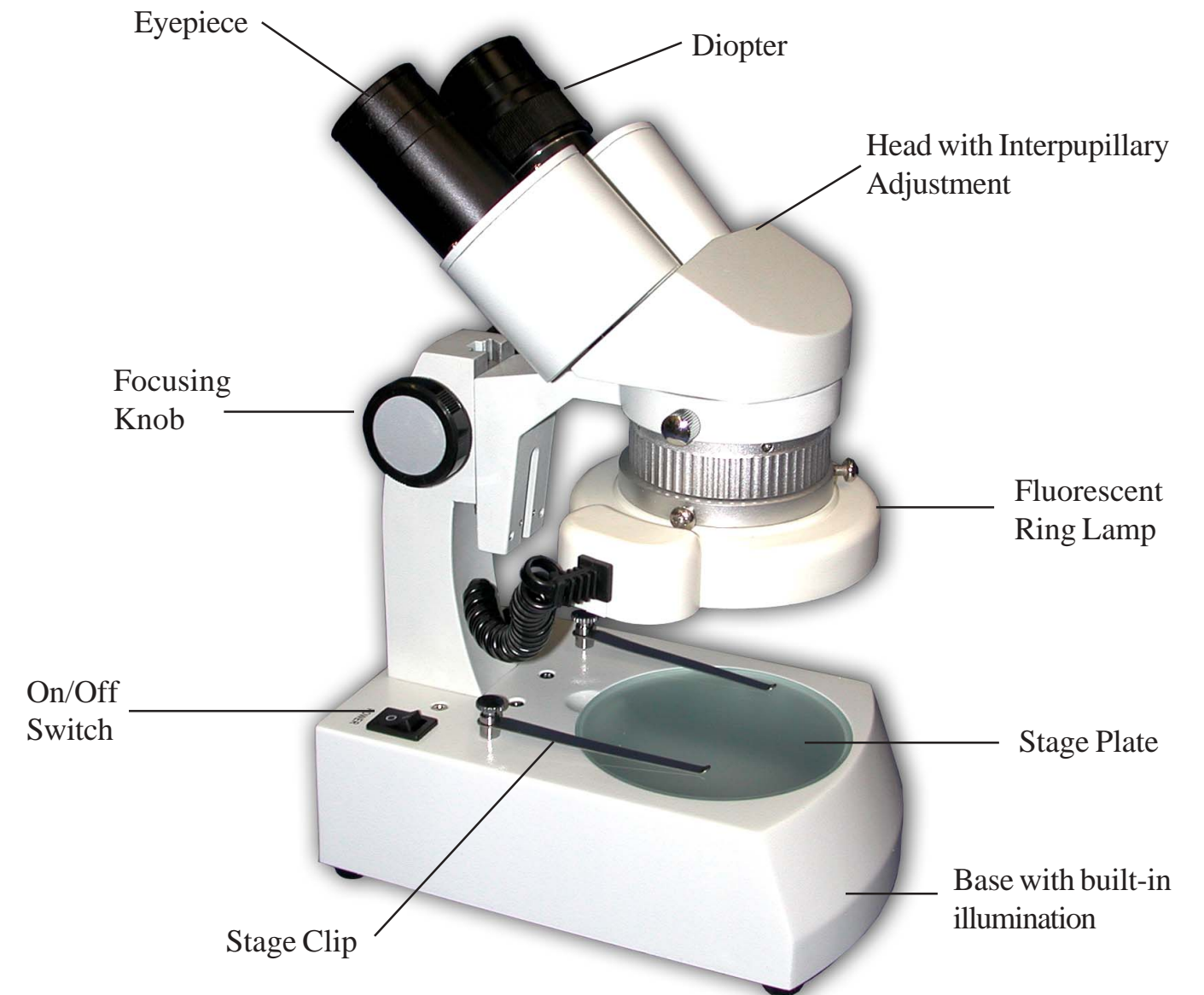
Use filtered air to remove dust particles, and lens cleaner on a Q-tip for lens cleaning.

Replacement Parts:

S68044	12V/10W Halogen Bulb: S90014, B, E
S68035	3.6V LED Bulb: S90014D, H
S68047	110V/5W Ring Lamp: S90014A, C, F, G
S68040	10x Widefield Eyepiece: S90014 series
S68050	Black/White stage plate: S90014 series
S68048	Frosted stage plate: S90014 series

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

S90014A, C, F, G Microscope Nomenclature



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 S90014 series microscopes include 10x widefield eyepieces, and come in a variety of magnification and illumination configurations (see chart below). There are three types of illumination in the S90014 series: Cordless LED, Fluorescent, and Halogen. USB/Analog model S90014G is also available, and includes a separate users guide for the software. LED and Halogen models come pre-assembled in the box and ready to use. Fluorescent models require minimal assembly.

Model#	Objectives	Magnification	Illumination
S90014	1x, 2x	10x, 20x	Halogen
S90014A	1x, 2x	10x, 20x	Fluorescent
S90014B	1x, 3x	10x, 30x	Halogen
S90014C	1x, 3x	10x, 30x	Fluorescent
S90014D	1x, 3x	10x, 30x	LED
S90014E	2x, 4x	20x, 40x	Halogen
S90014F	2x, 4x	20x, 40x	Fluorescent
S90014G	2x, 4x	20x, 40x	Fluorescent
S90014H	2x, 4x	20x, 40x	LED

Assembly (fluorescent models only):

Fluorescent models in the S90014 series include a fluorescent ring lamp. Attach the ring lamp to the objective turret by sliding the lamp over the turret, and securing in place with the 3 phillips (+) screws. Your microscope is now assembled and ready for use.

Three Way Illumination:

All S90014 series microscopes have a 3 way illumination switch. Your choices are:

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

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. There are two magnification settings on your microscope, to change the magnification, rotate the objective turret 90 degrees. 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, or remove the batteries from your microscope before replacing your bulbs! 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.

HALOGEN & LED MODELS: To replace the upper bulb, unscrew 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 to the left, and push the new bulb into the lamp socket.

FLUORESCENT MODELS: To replace the ring lamp, remove the single phillips (+) screw which attaches the lamp to the lamp housing. Pull the lamp straight down, and push the new lamp straight up. Secure in place with the phillips screw. Remove the stage plate to expose the lower bulb. Remove the bulb by pulling straight forward, and push the new bulb into the lamp socket.

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