

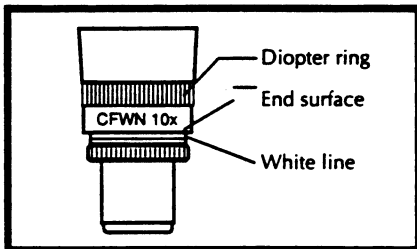
# Five easy steps to set up your microscope.

Ease of operation is designed into every Nikon Microscope. For proper setup and best results, simply follow this five-step checklist.

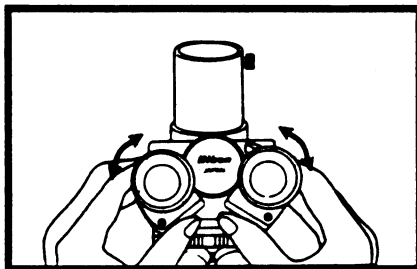
## 1.

### PREPARING THE HEAD

- Before putting a specimen on the stage, turn on the illumination and set it to a comfortable intensity level.
- Rotate the 10X objective into position.



- Rotate eyepiece diopter ring to '0' (white line on CFWN eyepieces). See diagram above.
- Adjust interpupillary distance so both right and left images merge into one.



## 2.

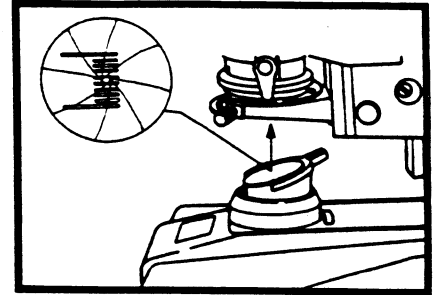
### FOCUSING FOR YOUR EYES

- Place your specimen on the stage.
- Using the coarse knob, focus the 10X objective. Adjust with fine focus on smallest detail visible.
- Position the 40X objective and fine focus.
- Note: If reticle is used, focus reticle. Bring specimen image into focus on reticle. Adjust other eyepiece to match. Skip 4X procedure.
- Switch to 4X objective. Adjust diopters of eyepieces to accommodate.
- Recheck focus at 40X.

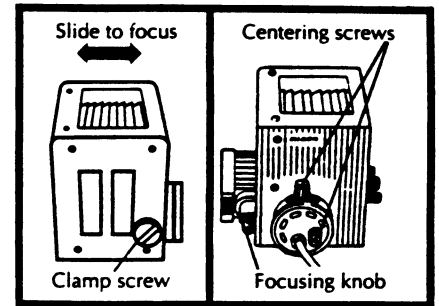
## 3.

### SETTING THE CONDENSER FOCUS

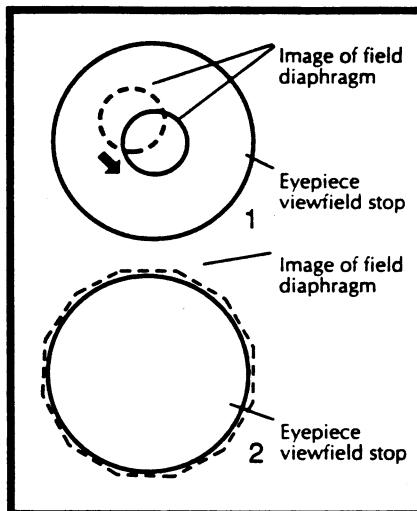
- Using the field diaphragm control ring, close the field diaphragm to its smallest size.
- Bring the image of the field diaphragm into focus with the condenser focus knob.
- Using the condenser centering screws, bring the field diaphragm image to the center of the field of view.
- Diaphragm must be centered before clearing from the field of view.
- Centering must be checked for each objective.



- Focus the filament image until it becomes sharp.
- After illumination is focused and centered, replace the diffuser.



50W Lamphouse HMX-2 Lamphouse



## 4.

### CENTERING THE ILLUMINATION

(NOTE: This step is not required on Labophot 2, Optiphot 2 or other microscopes with pre-centered illumination systems.)

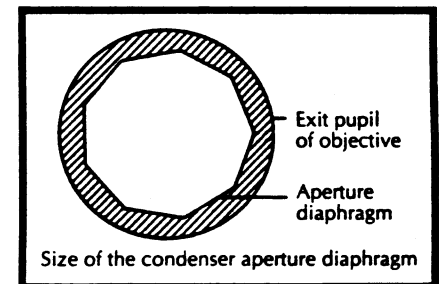
- To focus and center the illumination remove the diffuser.
- Close the aperture diaphragm on the condenser.
- Use a filter (the ND or blue filter) as a mirror to observe the filament image on the underside of the condenser. (For reflected light systems remove an eyepiece and look at image at back of

## 5.

### CONTROLLING CONTRAST AND DEPTH OF FIELD

This last step controls contrast and depth of field with the condenser aperture diaphragm.

- Remove one eyepiece. Look down the tube at the back of the objective.
- Adjust the aperture diaphragm so that it is just inside the opening (about 25% less than full aperture).



# Nikon