



Compound Microscope Parts & Functions

Complete Labeled Diagram Guide for Students



DETAILED
DIAGRAMS



EASY TO
UNDERSTAND



BOOST
YOUR LEARNING



PERFECT FOR
STUDENTS

Eyepiece (Ocular Lens)

Magnifies the image for viewing.

Revolving Nosepiece

Holds objective lenses and rotates to change magnification.

Objective Lenses

Primary magnifying lenses of different powers.

Stage Clips

Secures the slide on the stage.

Iris Diaphragm

Regulates the amount of light passing through the specimen.

Illuminator (Light Source)

Provides light for viewing the specimen.

Body Tube / Head

Holds the eyepieces and aligns the optical path.

Arm

Supports the upper parts; used to carry the microscope.

Stage

Platform to hold the slide in place.

Coarse Adjustment Knob

Moves the stage up or down for rough focusing.

Fine Adjustment Knob

Fine-tunes the focus for a sharp image.

Base

Provides stability and supports the microscope.





 ① Eyepiece



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② Eyepiece Tube



② Eyepiece Tube

Holds the eyepiece (ocular lens) and maintains the correct optical distance between the eyepiece and the objective lenses.



Precision Alignment

Ensures proper optical axis alignment



Durable Construction

High-quality metal body for stability and longevity



Optimal Light Path

Maintains clear light transmission to the eyepiece



③ Objective Lenses



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④ Nosepiece







⑤ Adjustment Knob



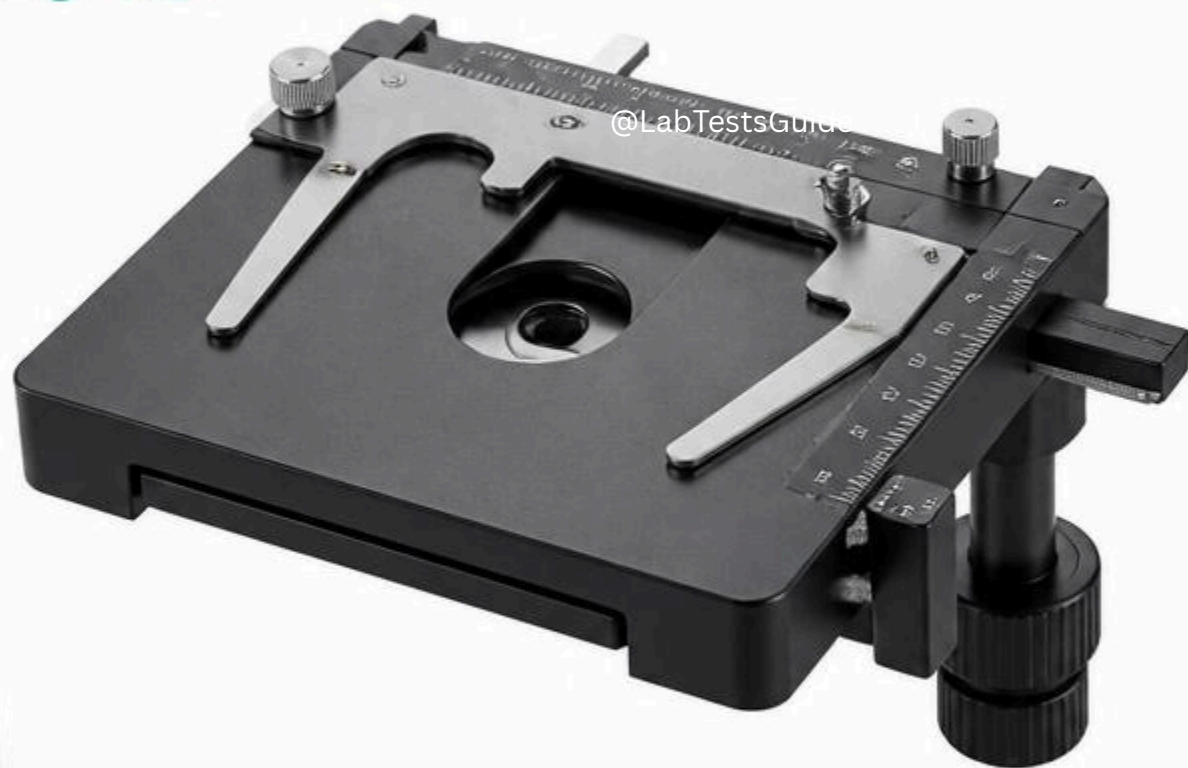
Adjustment Knob Assembly

The Adjustment Knob Assembly consists of **Coarse Focus Knob** and **Fine Focus Knob**.

-  **Coarse Focus Knob**
Moves the stage up or down rapidly for general focusing.
-  **Fine Focus Knob**
Provides precise, small adjustments to achieve a sharp, clear image.



⑥ Stage





 ⑦ Stage Clips



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8 Aperture



💡 ⑨ Illuminator



💡 10 Condenser



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4 6 10



⑪ Diaphragm (Iris)



Iris Diaphragm

The iris diaphragm is located in the condenser assembly beneath the stage. It consists of adjustable blades that open or close to control the amount of light passing through the specimen.

Adjusting the iris diaphragm helps optimize contrast, resolution, and depth of field.



⑫

Condenser
Focus Knob




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13 Light Switch



★ ⑭ Brightness Adjustment

 15 Diopter Adjustment



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 16 Stage Controls

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Head



Head

The head houses the optical components that connect the eyepieces to the objectives.

- Binocular eyepieces (WF10X/22)
- Prism housing for light path
- Diopter adjustment rings
- 360° rotatable design



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Base

Solid, heavy support platform



Built-in illuminator housing

Power system area



Base