OLYMPUS DUO OBSERVATION ATTACHMENT

Attachable to OLYMPUS Microscopes Model FHA, EHA and E

MODEL DO

INSTRUCTIONS

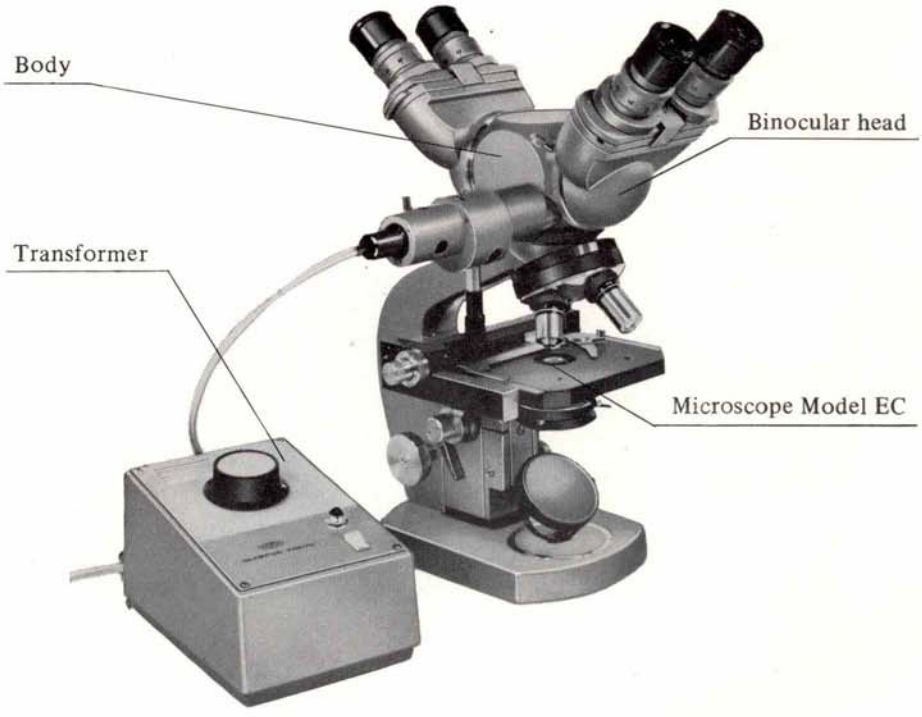
OLYMPUS

I. Standard Set

Body (with projector tube)	1 set
Binocular Head (with dioptric adjustment)	2 pcs.
Eyepiece Bi-WF 10x	2 pcs.
Transformer	1 set
Spare Lamp 6V 5W GE	2 pcs.
Eyepiece Sleeve Cap	4 pcs.

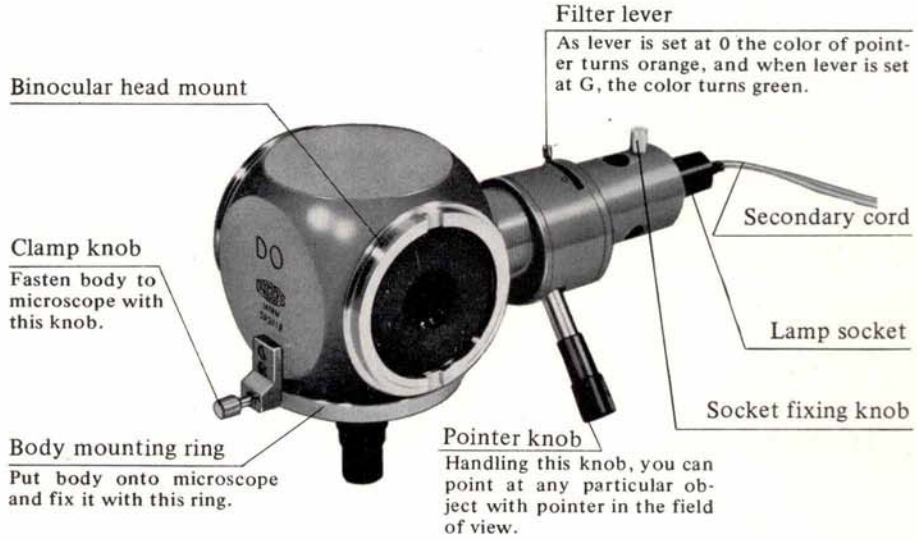
II. Structure

Picture: Model DO mounted on the Model EC OLYMPUS microscope



III. Name of Main Parts

A. Body



B. Binocular head

C. Transformer

IV. How to Assemble

A. Mount the body onto the microscope

1. Remove the viewing head from the microscope.
2. Put the Model DO main body onto the microscope in place of its viewing head, and fasten them with the mounting ring.
   (Take care not to give any damage to the long, slim tube underneath the main body, when you insert it into the opening of the microscope.)
3. Fasten the body to the microscope at your preferable direction with the clamp knob.
   (The body can rotate 360°.)

B. Attach the binocular heads

1. Attach the binocular heads on both sides of the body.
2. Fasten the heads to the body tightly with the clamp knobs, when the eyepiece tubes come uppermost position.
   (Before their attachment, make sure each binocular head belongs to the main body, for there is a fear of cutting off the marginal part of the view field, if a wrong binocular head is attached.)

C. Insert the eyepieces

D. Connect the primary cord to the AC outlet and the secondary cord from the projector to the transformer.

V. How to Use

A. Adjust the mechanical tube length

1. First, the principal observer, looking into the eyepiece, make the following procedures.
   1) Bring the specimen into focus, by handling the coarse and fine adjustment handle on the microscope.
   2) Fit the interpupillary distance between the eyepieces to his eyes.
   3) Turn the dioptric adjustment rings in accordance with the interpupillary distance scale.
      (With this, the mechanical tube length will be adjusted at 160mm.)
   4) Repeat the focusing procedures with the coarse and fine adjustment knob of the microscope, again.
      (If there is a dioptric difference between his eyes, set one of the dioptric adjustment rings to the interpupillary scale, and the other dioptric ring must be focused at the specimen directly, looking at it through the eyepiece.

2. Second, the sub-observer makes the following procedures.
   1) Adjust the interpupillary distance to his eyes.
   2) Fit the scale of the dioptric adjustment ring to that of the interpupillary distance.
      Thus, the mechanical tube length is kept 160mm.
      (If he has a dioptric difference between his eyes, do the same procedures as stated in the principal observer, paragraph 4). If this procedure fails to fit the sub-observer's diopter, turn the dioptric adjustment ring on his side freely to well fit to his diopter.)

B. Use the pointer

1. Switch on the transformer.
2. Choose one of the two colors (green and orange) of the pointer according to the specimen's color.
3. Tune up the intensity of the pointer by means of the voltage adjustment knob.
4. Handle the pointer knob to guide the pointer at any particular target in the field of view. If you rotate the knob on its axis, the pointer moves up and down, and if you run the knob along the slit, the pointer moves to the right and left.

C. Observation magnification

Observation mag. = Objective mag. x Eyepiece mag. x 1.25

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