

OPERATING PARTS AND CONTROLS

Parts and identification numbers appearing in this manual refer to the following list and illustrations.

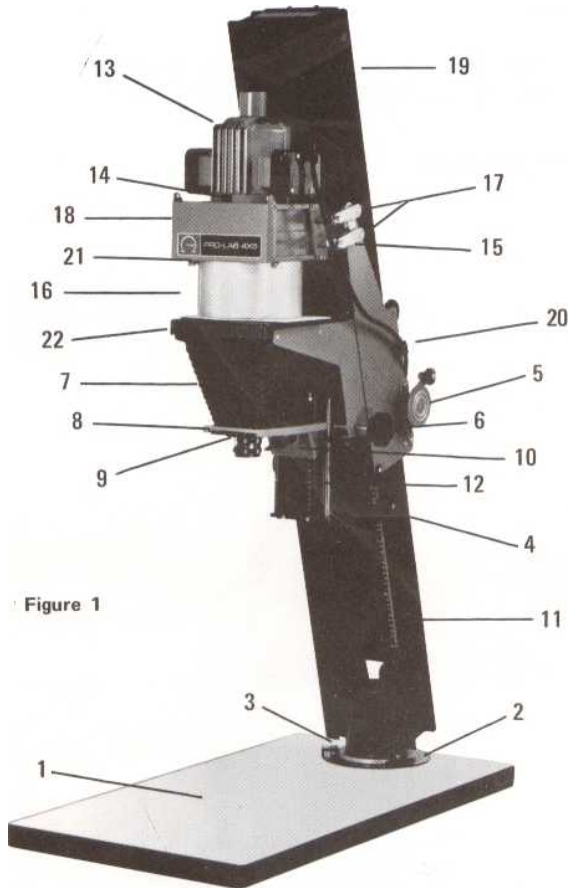


Figure 1

OMEGA D5 ENLARGER

1. Baseboard
2. Baseplate mounting flange
3. Base clamps
4. Carriage lock
5. Elevation Knob
6. Focusing Knob
7. Bellows
8. Lens stage
9. Lensmount and lens plate
10. Bellows locking lever
11. Elevation reference scale (mm)
12. Bellows adjustment reference scale (mm)
13. Upper Part of lamphousing
14. Lamphouse locking screw
15. Lamphouse mounting screws
16. Condenser Holder
17. Lifting levers
18. Condenser Assy. Panel
19. Enlarger Column
20. Cable retaining clip
21. Knurled screws
22. Negative stage

SUPER CHROMEGA D3 DICHROICII ENLARGER

1. Counterbalance springs
2. Cam following wheel
3. Autofocusing track
4. Super Chromega D
Dichroic II Lamphouse
5. Light mode selector
lever
6. Light multiplier
access panel
7. Lamp access cover
8. Filter thumbwheels
(not visible)
9. Filtration readouts
10. Panel support
11. Panel support
thumbscrews
12. Light mode indicator
13. Power Supply
14. Electronic Timer
Model II (accessory)
15. Lens Mount

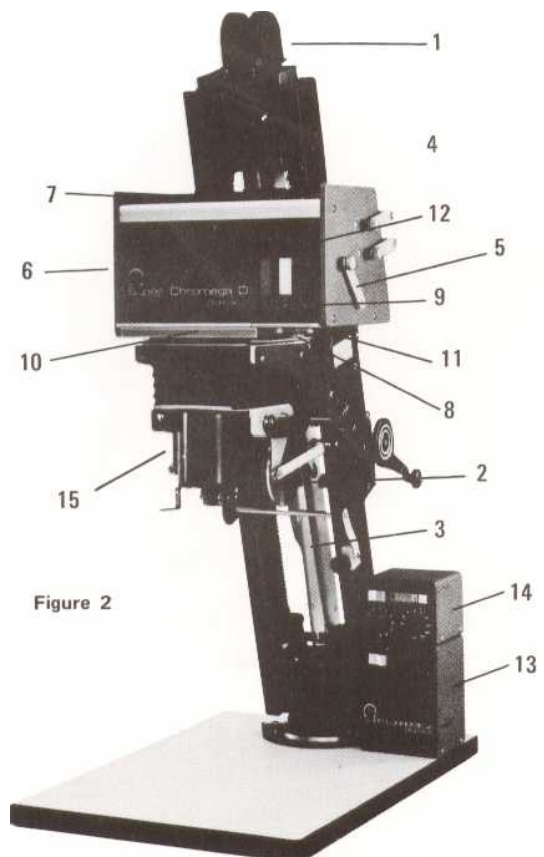


Figure 2

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PREFACE

Thank you for selecting an Omega enlarger or Super Chromega lamphouse. We are confident that this equipment will serve you long and well.

You may be assured that this equipment continues our tradition of engineering excellence and quality which has made Omega the foremost name in fine darkroom equipment throughout the world.

These instructions include assembly and operating information for all Omega and Super Chromega D enlargers. Whether you have purchased a complete enlarger or the Dichroic lamphouse for use with existing "D" type chassis, we urge you to read these instructions thoroughly so you

may familiarize yourself with the correct set up and operating procedure.

Moreover, you are invited to call or write us for technical advice or assistance. Our staff of experts are at your service.

Please be sure to fill out and mail the registration card immediately so that your purchase can be recorded.

Because Omega is dedicated to a policy of continuous product improvement and review, specifications are subject to change without notice.

OMEGA DIVISION
Berkey Marketing Companies

ASSEMBLY

Unpacking

Carefully open shipping carton(s) and check all items against the packing slip. Certain accessories may be packed within cardboard carton supports. Therefore, do not discard any packing materials until you have accounted for every part. We suggest that you retain cartons and inserts in case an occasion for reshipment arises.

Enlargers Are Packed As Follows:

Condenser Enlargers, Standard Chassis - lamphouse, chassis and baseboard in one carton.

Condenser Enlargers, "XL" Chassis -lamphouse, chassis with baseplate and base clamps in one carton, oversize baseboard in second carton.

Dichroic Enlargers - Dichroic lamphouse in separate carton, other components as above, depending on chassis.

MOUNTING CHASSIS TO BASEBOARD

Caution: Before handling chassis, make sure that the carriage lock (Figure 1, Number 4) is tight.

1. Place baseboard on a table top at a convenient working height. Mount the baseplate (packed separately with the chassis) to the baseboard using the Phillips head screw provided, positioning the holes in the baseplate with the holes in the baseboard.
2. Assemble two of the three bolts, clamps and spacers as illustrated in packing diagram supplied with baseplate.
3. Place chassis in position so that base casting is centered in the baseplate with the flange under the clamp assembly. Secure the 3rd bolt and clamp and spacer assembly.

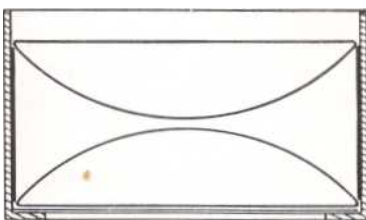
Align the chassis with the center of baseboard and tighten bolts securely with the wrench provided or with a 7/16" box wrench.

NOTE: When bench mounting the enlarger, use the baseplate as a template and drill the required holes in the bench surface. Follow the instructions above, substituting the short bolts supplied with the longer bolts and nuts included. Instructions for wall mounting or use of enlarger floor stand are included with wall mount or stand.

CONDENSER LAMPHOUSE ASSEMBLY

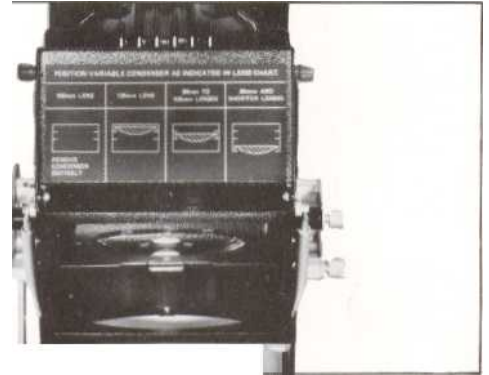
Carefully unpack the lamphouse and condensers from the shipping carton. Separate the condenser housing from the lamphouse by loosening the two knurled screws and turning the aluminum spinning counter-clockwise. Remove the corrugated aluminum spacer found inside the spinning. Proceed as follows:

- a) The fine optical glass condenser lenses are packed in a separate box. Unwrap the lens carefully, handling by the edges ONLY. If necessary, clean with lens tissue or a soft clean towel. Remove the small label on the glass with soap and water, then install the condenser in the condenser housing flat side down.
- b) Replace the corrugated aluminum spacer around the inner edge of the condenser housing, as tight as possible without forcing.
- c) Unpack and clean the second condenser and install it in the condenser housing, curved side down. When properly installed, the condensers will be as illustrated below:



Assembly of 6h"
Condensers

- d) Replace the lamphouse casting on the completed condenser spinning assembly and secure by turning the lamphouse clockwise, then retighten the knurled screws.
- e) Unpack and clean the variable mounted condenser and clean as above. Lift the condenser access panel and slide the variable condenser into one of the three positions (see illustration below).



DV Condenser Lamphouse showing variable condenser placement.

f) Mounting Lamphouse

Place the entire condenser lamphouse assembly on the enlarger film stage and attach it to the lifting lever mechanism by means of the securing knurled screws (Fig. 1, 15). On D-5 enlargers, install the lamphouse line cord in the retainer on the right side frame of the carriage. Then run the line cord behind the handwheel assembly. On D-3 enlargers, run the line cord over the top of the chassis, between the counterbalance springs (Fig. 2, 1).

DICHROIC LAMPHOUSE INSTALLATION

Attaching Lamphouse Levers - D-5, D5XL, and D-3

The D5, D5XL and D3 Autofocus Dichroic models have lifting levers pre-assembled and packaged separately within the enlarger carton. These lamphouse levers slip into the slots at the top of the enlarger carriage, and are secured by metal retainers held in place by sheet metal screws attached to the side frame.

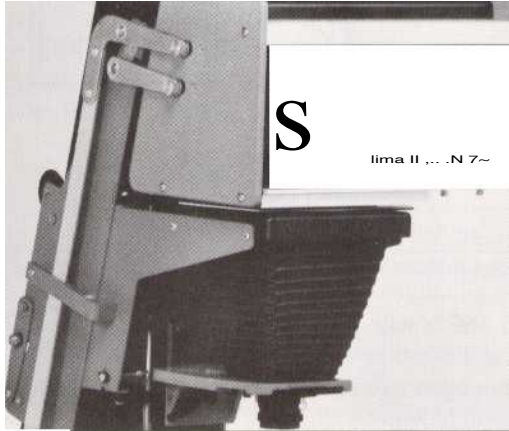
To prevent the carriage from shifting during shipping, a retaining dowel is inserted in one set of cutout slots. Remove this dowel, then install the levers. There are two sets of levers per assembly. One of these sets incorporates the long lifting lever and handle. This handle is on the upper slots for the D-3 and D5 enlargers.

Install the lifting lever assembly without the long lifting lever and handle in the lower set of cutout slots, making sure to position the aluminum bushing and spacer outside of the right side frame.

NOTE: It is easiest to install the assembly if you have someone press in on the carriage side plates while you snap in the levers.

Remove the Phillips head sheet metal screws on each side frame which will secure the metal lever retainers attached to the upper long lifting assembly.

On the D5, the long lever handle is confined by the lever guard at the left side of the carriage assembly. Before lowering the lever assembly in place, turn the long lever so that the black knob on the lever slides down between the space of the guard and side frame (as illustrated below).

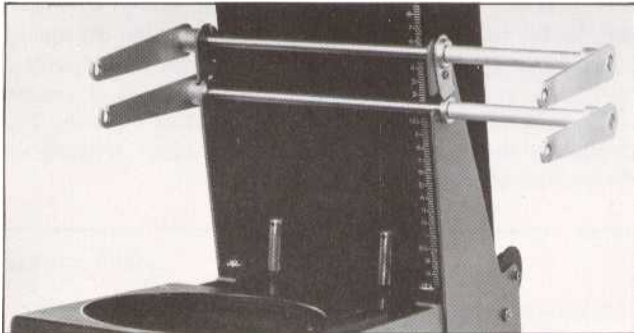


Long lifting lever shown in correct position, under lever guard.

Once the knob is cleared, turn the lever set counterclockwise and install it into the upper cutout slots, making sure that the left retainer and spacer are on the outside of the left side frame, and that the right side retainer, aluminum bushing, and spacer are on the outside right of the side frame.

Then secure the retainer to the side of the frame with the Phillips head screws provided. Make sure to tighten these screws fully, or lamphouse alignment will be difficult.

When properly installed, lever will be shown as below.



Conversion of Existing Chassis

If you have purchased a Dichroic lamphouse only for installation on an Omega D-type chassis you already own, remove the present lamphouse and lifting levers from the chassis.

If you are converting from a Super Chromega acetate filter head, also disconnect the extra booster counterbalance spring mounted on the enlarger carriage. It is not needed with the Dichroic lamphouse because of its lighter weight.

Install the correct lever adapter kit. Full instructions are supplied with each kit.

Mounting Lamphouse

Loosen the four knurled lamphouse mounting screws and rest the lamphouse on the negative stage. Hook the lifting levers under the screws. Tighten the screws, and check that all four screws are fully inserted, so that the knurled heads are flush against the sides of the levers.

Omega D-5

A line cord retainer has been provided on the right side frame of the carriage. Pull the thumb tab to release the strap, then install the line cord through the clamp and secure. Run the line cord behind the handwheel assembly (Figure 1, Number 20).

ALIGNMENT CHECKS, DICHROIC LAMPHOUSE

Raise and lower lamphouse from negative stage by means of the lifting lever and check that lamphouse comes down squarely and remains parallel to negative stage when lifted. If lamphouse "tilts" either front-to-back or to one side, adjust as follows:

NEGATIVE APERTURE ALIGNMENT

With the lamphouse resting on the negative stage and the 4"x5" carrier in place, remove the access panel and light multiplier (see page 2). Check that the bottom cutout of the lamphouse is centered over the filmstage aperture. If adjustments are necessary, loosen the four recessed Phillips head screws at the sides of the lamphouse directly in front of the lifting lever screws. Slide the lamphouse to front or rear, as required, and tighten adjusting screws. Replace multiplier and access panel.

FRONT-TO-BACK ALIGNMENT

If the front of the lamphouse contacts the negative stage first (lamphouse tilts down), place the negative carrier on the front edge of the negative stage and lower the lamphouse. Note that this will force the front of the lamphouse up while you make the adjustment. To do so, loosen the recessed Phillips head screws directly in front of the lifting levers at the side of the lamphouse. The lamphouse will "settle". Tighten the screws, and check alignment. Repeat, if necessary, until lamphouse is parallel with the negative stage.