



ZEISS IKON

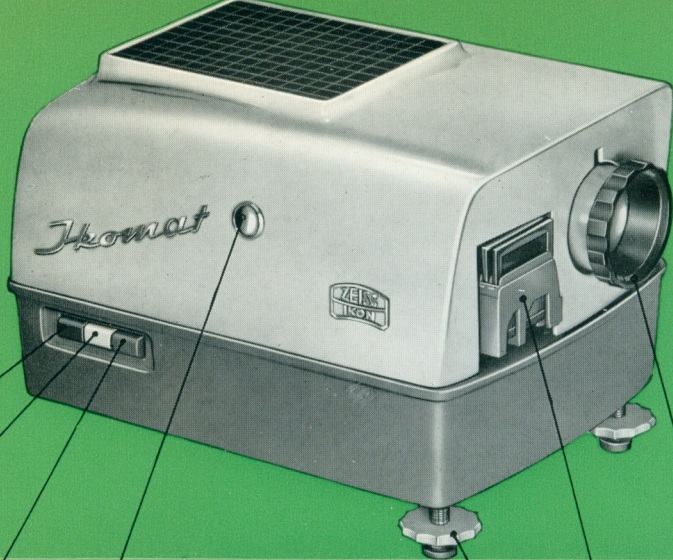
INSTRUCTIONS FOR USING THE ②



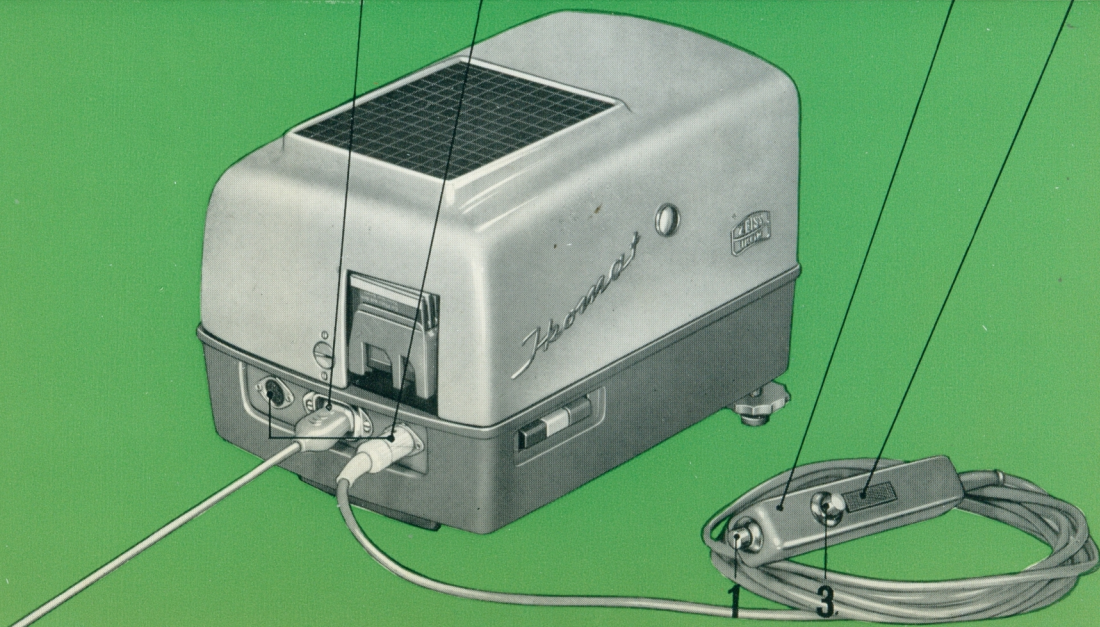
Ikomat



We know that you have been longing to show your slides to all your family and friends. With the IKOMAT, this long-cherished wish is now about to be fulfilled. Your very first slide show must of course be a success: although the IKOMAT is by no means difficult to operate, it would be wise to familiarize yourself with its use beforehand. Operating this ZEISS IKON slide projector is very simple, even at the first attempt; however, if you want your IKOMAT to remain a source of lasting pleasure, you must handle it correctly. Do therefore curb your impatience and read these instructions first. The illustrations provided will make it easy for you to follow the explanations of the various operations, and within a very short time you will have mastered the art of giving a perfect slide show.



1 2 3 4 5 6 7 8 9 10 11





Controls and components of the IKOMAT

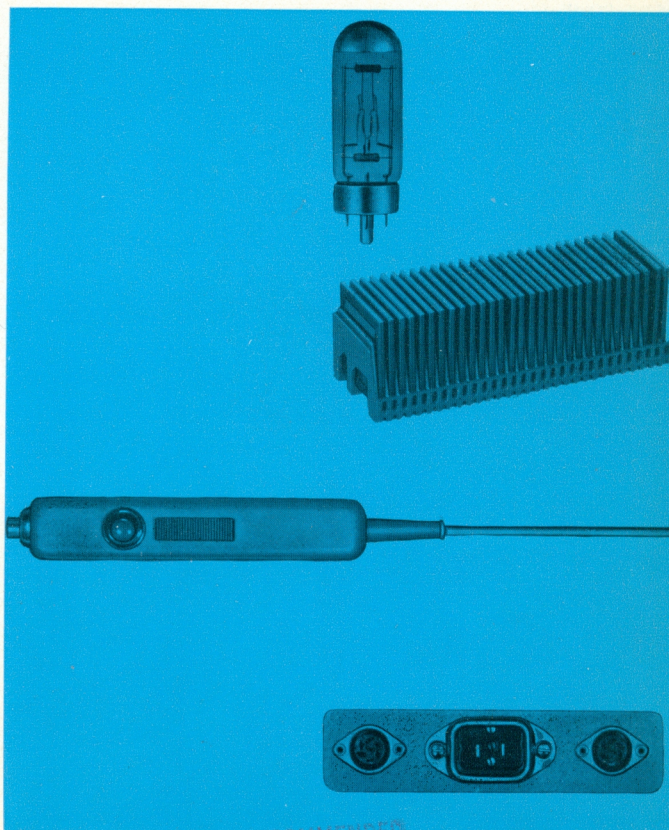
- 1 Key for reverse slide changing
- 2 On/off switch
- 3 Key for forward slide changing
- 4 Window with magnifier for slide-sequence observation
- 5 Mains connection
- 6 Sockets for remote-control and interval-impulse connection
- 7 Elevation adjustment
- 8 Slide magazine
- 9 ZEISS IKON f/2.5, 100 mm DIATAR lens
- 10 Remote control
- 11 Sliding switch for remote-control focusing

The below-mentioned figures refer to the illustration on page 12

- 12 Sliding lever for freeing the magazine
- 13 Lamp adjustment screw
- 14 Concave mirror
- 15 Motor shaft
- 16 Condenser lens

The special merits of the IKOMAT

- 1 Optional use of 300- or 500-watt lamps without altering the projector.
- 2 Completely safe cooling system even when using 500-watt lamps. Highest possible protection of slides and lamp.
- 3 High-speed ZEISS IKON DIATAR projection lens.
- 4 Use of standard magazines holding 30 or 50 slides.
- 5 Remote control by 12 ft. cable.
- 6 Switch for advancing or reversing the magazine, operated by hand or remote control. Repeat projection of slides already shown.
- 7 Smooth-operating remote-focusing control, working backwards and forwards, built into the remote-control switch.
- 8 Slides are automatically pre-conditioned to projection temperature; glassless slides no longer pop out of focus.
- 9 No protruding controls or components. All operations performed invisibly inside the protective housing.
- 10 Two connection sockets running in parallel are provided for simultaneous connection of the remote-control switch and an interval-impulse unit (DIATAKT). The remote control can be used to adjust focusing independently of the interval-impulse unit.



U.S. MFRD. LAMPS RECOMMENDED
120V 500W (G.E.-DAK)
120V 300W (G.E.-CWD)
500W LAMP FURNISHED WITH THIS
IKOMAT PACKED SEPARATELY. CHECK
PACKING MATERIAL CAREFULLY

The logo consists of the word "ZEISS" in a serif font above the word "IKON" in a similar font, both contained within a stylized, rounded rectangular border. The logo is centered within a white circle, which is itself centered on a solid blue rectangular background.

ZEISS
IKON

Setting-up the projector

The IKOMAT can only be operated on AC mains current. You must make sure that your mains supply is of this voltage by checking the electric meter in your home; AC current is clearly denoted by the symbol \sim . Place the projector on an even surface: the air vent in the base of the projector must remain open to permit free circulation of air. Adjust the height of the projector so that the lens is in line with the centre of the screen.

You can now connect the projector to the mains. Plug the remote-control cable into one of the two sockets (6) at the back of the projector (fig. 1). Press the white key (2); the projector is now switched on (fig. 2). Direct it on to the screen and adjust the height of the projector, if necessary, by turning the milled screws (7) (fig. 3).

If now the remote focusing of the lens is set to the centre of its operation range by means of the sliding switch (11) on the remote control (10) (the hook above the lens mount should be in line with the housing), the IKOMAT is ready for your first slide show (fig. 4 and 5).

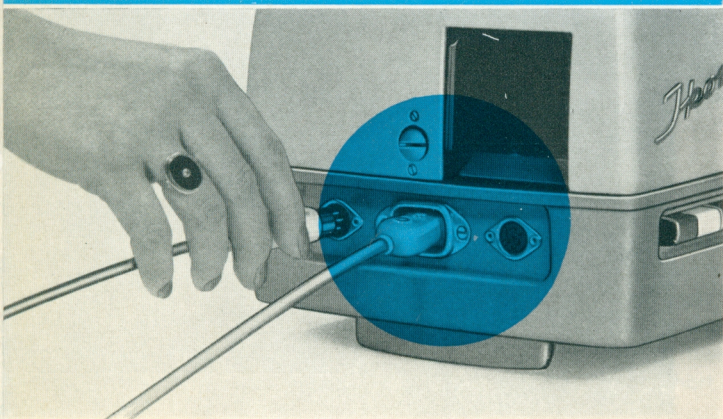


fig. 1

fig. 2

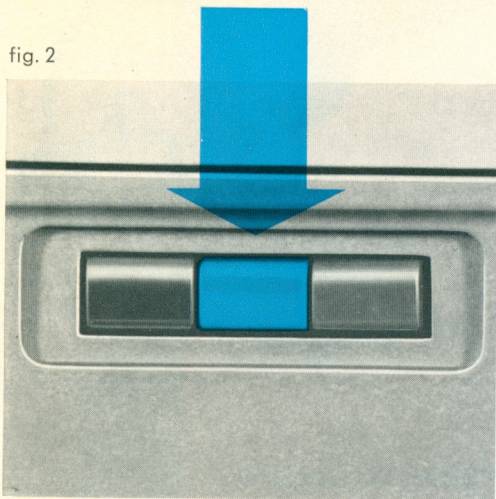


fig. 4

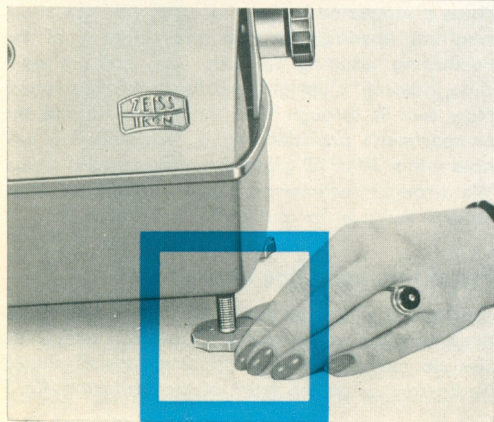
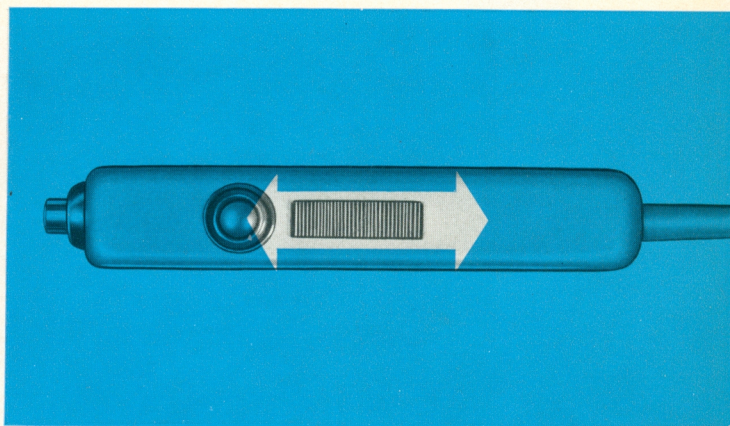


fig. 3

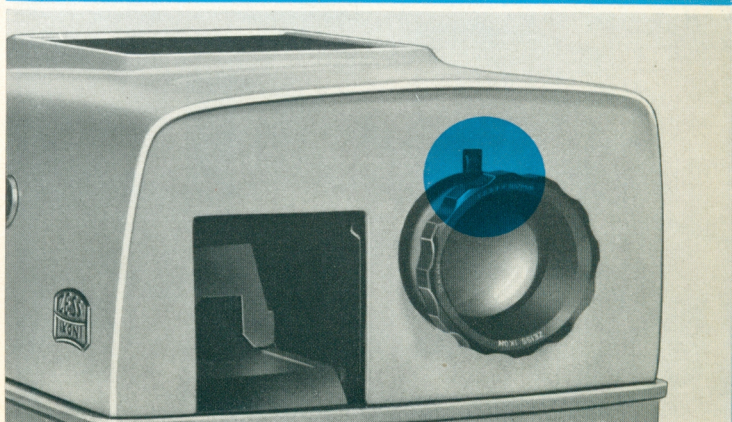


fig. 5

fig. 7

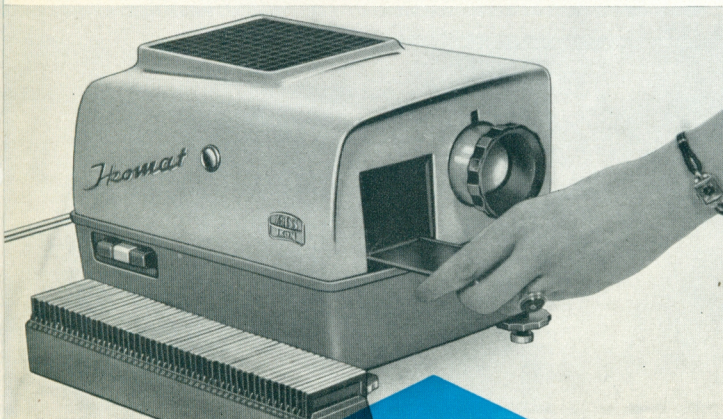
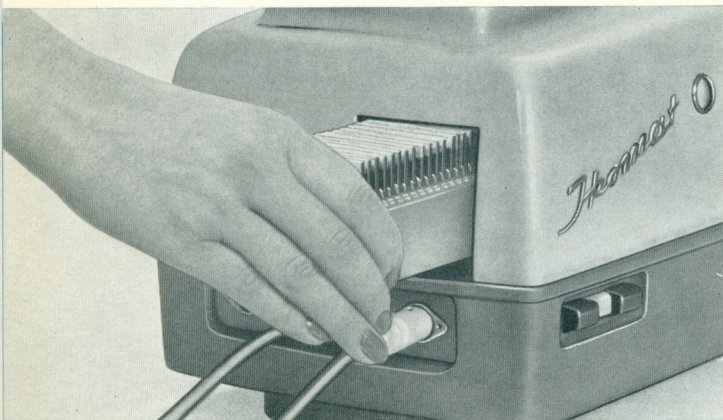


fig. 8

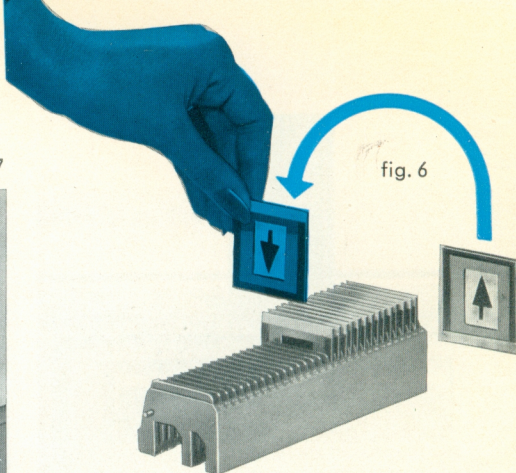


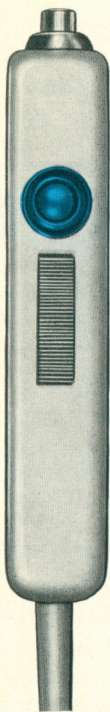
fig. 6

Loading the magazine

Place a magazine in front of you, with the slide-insertion openings on top and figure 1 of the numbering pointing towards you. Pick up each slide, holding it upright and the right way round. Now turn it through 180° and insert it into the compartments provided (fig. 6). The magazine will hold either 30 or 50 glass- or card-mounted slides. We strongly recommend the use of special slide mounts suitable for automatic projection.

Projection and slide changing

The loaded magazine should be pushed gently into the magazine tunnel until it comes to a stop. With 50-slide magazines the magazine support should be hooked on to the front of the projector (fig. 7 and 8).



Press the green key (3) on the projector housing or the green button on the remote-control switch (fig. 9): the first slide will then appear on the screen. Turn the knurled ring on the lens mount for fine focusing (fig. 10).

fig. 9

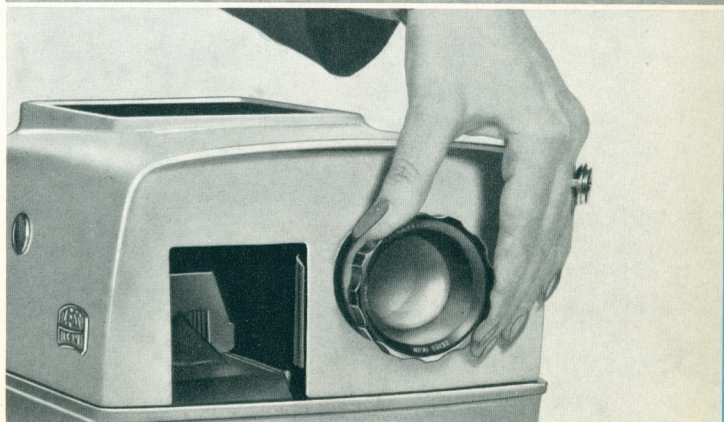
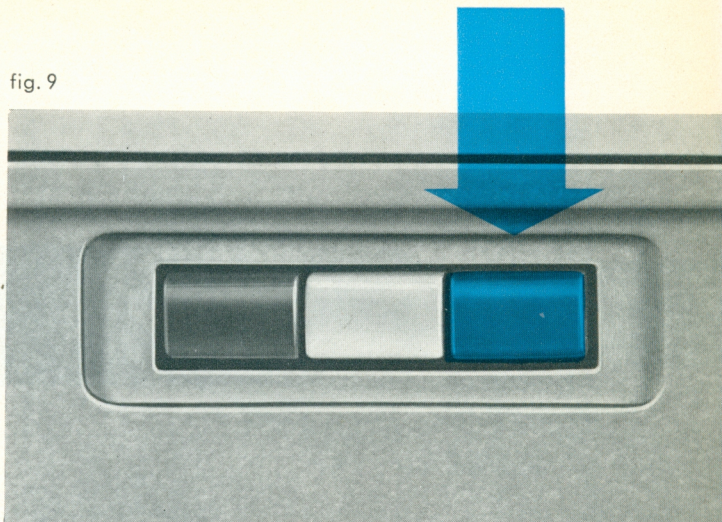


fig. 10

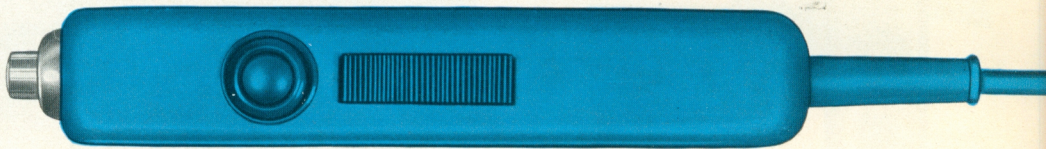
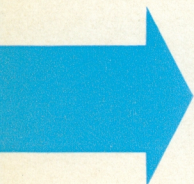
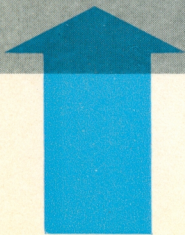
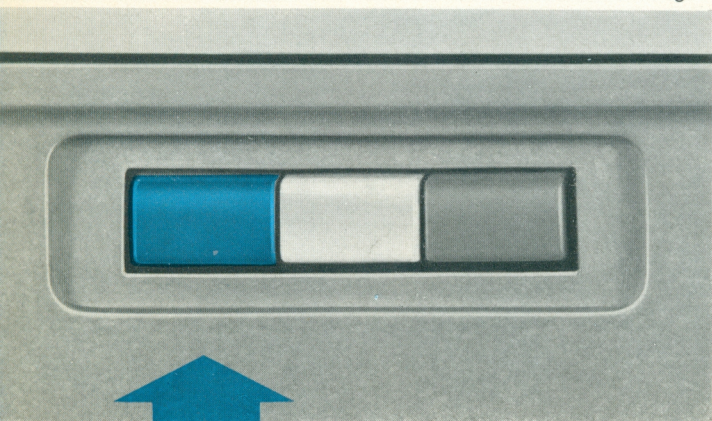


fig. 11



Slide-changing is performed either by pressing the green button on the remote-control switch, or by operating the green key on the projector. When the red button or the red key (1) is operated, the previously-projected slide will appear once again on the screen (fig. 11). Note:

Green key: magazine advances

Red key: magazine reverses.

If necessary, the focusing can be adjusted during projection by means of the sliding switch (11) on the remote-control switch.

The number of the slide in the magazine tunnel can be seen by looking through the magnifying window (4) in the control panel of the projector.

Changing magazines

After the last slide of a fully-loaded magazine has been projected, the magazine can be pulled out of the tunnel from the front. When the magazine has been only partly loaded, the sliding lever (12) on the lower left-hand side of the projector (fig. 12) should be pulled out first. By pressing either the red or the green button or key, the magazine is freed and can be removed by hand, either from the front or the rear. The sliding lever (12) should then be pushed back again.

When showing individual transparencies, note that the sliding lever (12) must first be pulled out and then the green or red key depressed. Insert the single slide into the magazine (note its number) and push the magazine into the tunnel until the number appears in the magnifying window; then the sliding lever (12) should be pressed home. The magazine is then removed as described above.

Automatic projection

The ZEISS IKON DIATAKT impulse control unit (used in conjunction with a tape recorder) makes it possible to project slides automatically at preset intervals, accompanied either by music or a prepared commentary; the projection session can be repeated as often as desired (fig. 13).

The DIATAKT is plugged into one of the two sockets (6) at the back of the IKOMAT.

fig. 12

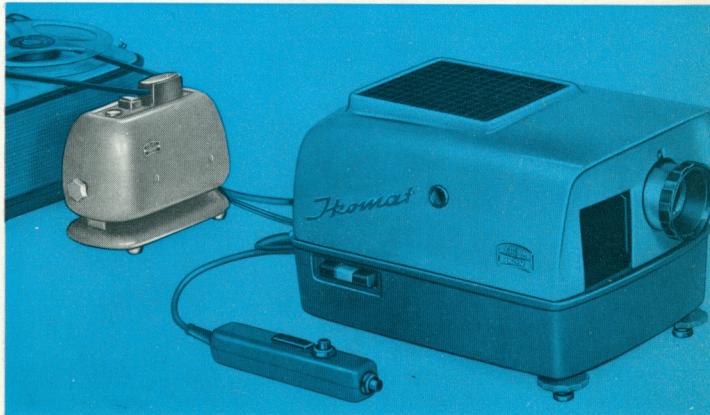
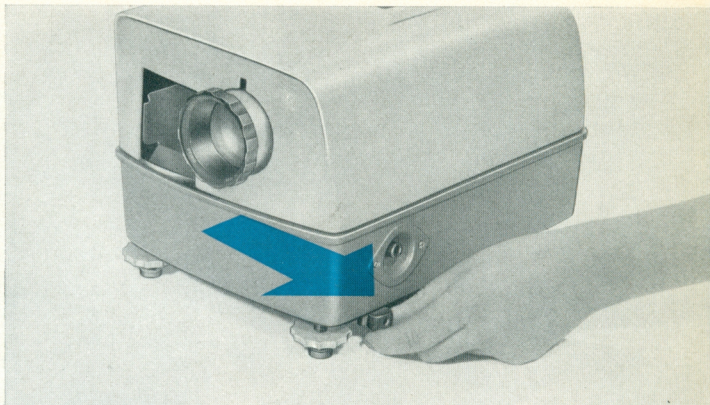
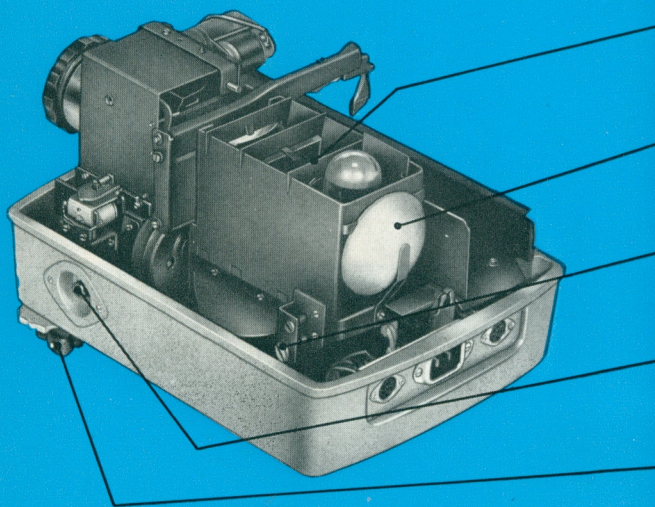


fig. 13

Exchanging the lamp



16

14

13

15

12

Whilst changing the projection lamp, the IKOMAT must not be connected to the mains.

First remove the lens by turning it to the right until it stops, then lift it slightly and remove it (fig. 14). Loosen the locking catch on the back of the IKOMAT (coin slot of screw in vertical position), and remove the housing by lifting it upwards (fig. 15). Then remove the condenser lens (16) and the concave mirror (14), gently lifting the retaining spring (fig. 16).

The lamp, which is firmly seated in its socket, can now be exchanged easily (fig. 17).

When inserting the new lamp, make sure that the lug fits correctly into the recess in the lamp socket. Replace the condenser lens, mirror and projection lens into their respective holders. Do not replace the housing.

U.S. REFD. LAMPS RECOMMENDED
120V 100W (E.E.-GAK)
120V 300W (E.E.-CWD)
SHOW LAMP FURNISHED WITH
IKOMAT PACKED SEPARATELY
PACKING MATERIAL CORRECTLY

fig. 14

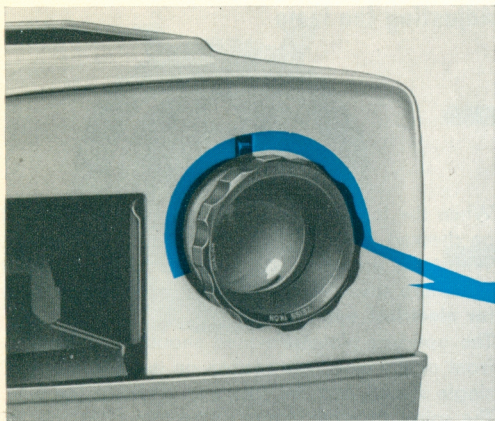


fig. 16

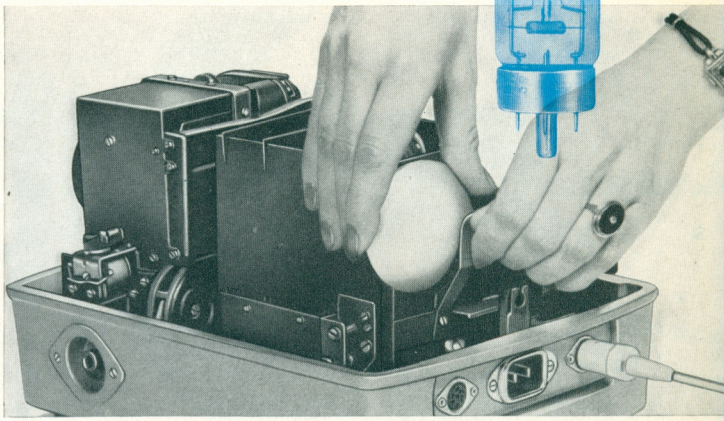
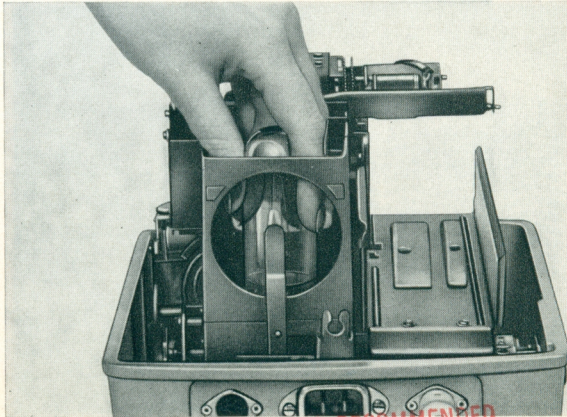


fig. 15

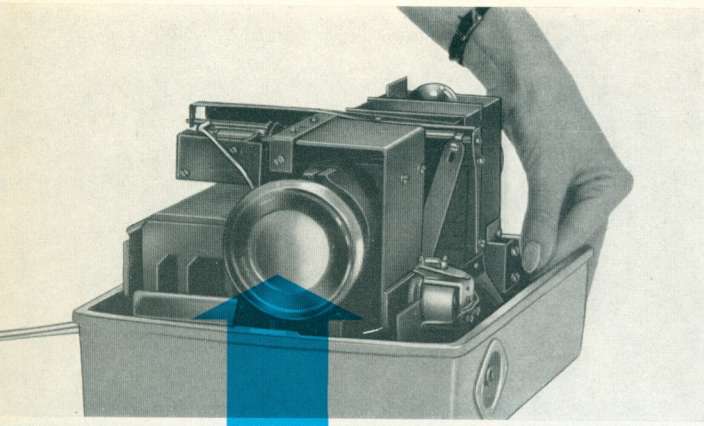


fig. 17



U.S. MFRD. LAMPS RECOMMENDED
120V 500W (G.E.-DAK)
120V 300W (G.E.-CWD)
500W LAMP FURNISHED WITH THIS
IKOMAT PACKED SEPARATELY. CHECK
PACKING MATERIAL CAREFULLY

fig. 18



Adjusting the lamp

When the lamp is exchanged, its adjustment must be checked carefully. First switch on the projector. **Whilst the projector is switched on it is important to adhere strictly to the normal safety precautions for electrical apparatus.**

The aperture-plate provided should be placed in front of the gate (see section on the projection of single slides) and the lens cap fitted to the lens. The spiral filament image of the lamp can now be seen, also its mirror image reflected by the concave mirror; the latter should fit in between the coils of the actual filament image. If the two images should coincide, the lamp must be adjusted until the correct spacing is obtained; for this purpose the knurled screw (13) on the outside of the blower housing should be used (fig. 18 and 19). The filament of the lamp will become overheated and break if the mirror image is directed on to the filament. Moreover, the lamp is particularly sensitive to any vibration during projection and also to excessive tilting of the projector.

All projection lamps have only a limited working life, and a spare lamp should always be at hand. The IKOMAT can be fitted with either a 300- or 500-watt lamp.

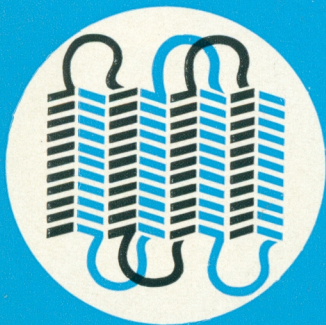
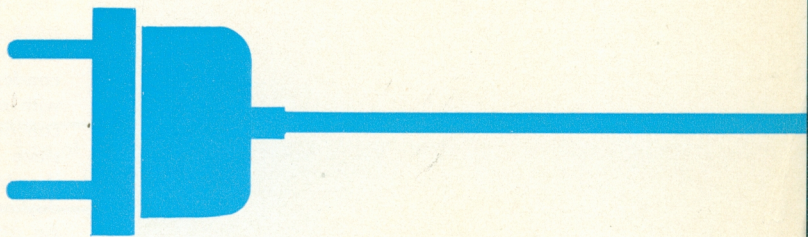
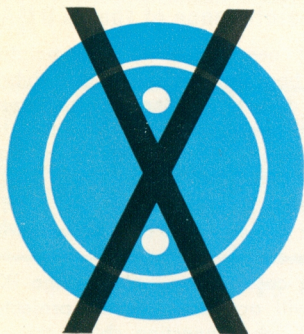


fig. 19



Faults and remedies

Badly-mounted slides and those which are not of standard size may easily cause jamming of the slide transport mechanism. In this event, the projector should be switched off immediately and the connecting cable removed from the mains socket. By lifting the top of the projector housing, you will be able to reach the jammed slide, which should be guided back into the magazine whilst turning the milled motor shaft (15) (fig. 20).

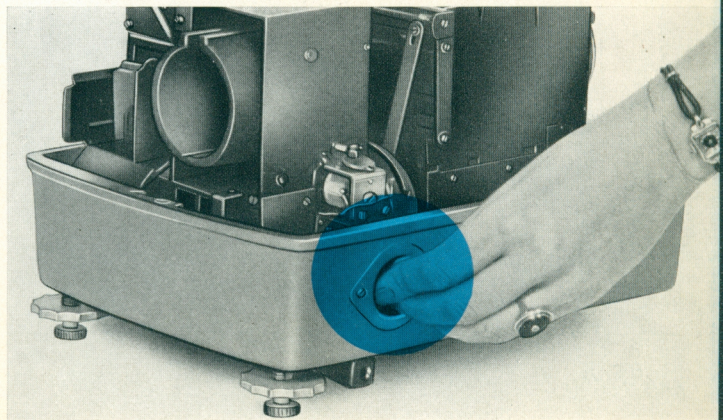


fig. 20



Care and maintenance of the IKOMAT

The IKOMAT needs scarcely any maintenance, since all the bearings are permanently lubricated. All you need do is to dust the glass surfaces of the condenser and the lens carefully from time to time, with an absolutely fluff-free soft linen cloth. The concave mirror must be handled with great care since its surface is silver-coated: do NOT touch it with your fingers! Use only a soft brush for dusting it, never any kind of cloth.

An attractive case is available for the IKOMAT (fig. 21). It will accommodate the projector, the mains cable, one connecting cable, the remote-control unit and four slide magazines.

The case is shock-proof and guarantees safe storage and transport of the IKOMAT. When packing the projector away, make sure that the milled rings of the elevation-adjustment screws are screwed in fully.

Subject to changes in the interest of technical progress.

fig. 21

Screen Image Size

Slide mask in mm.	23 x 35			38 x 38		
Focal length of projection lens in mm.	85	100	150	85	100	150
Projection distance in yards	Size of screen image in feet			Size of screen image in feet		
3	2'5" x 3'7"	2' x 3'1"		3'10"	3' 4"	
4	3'2" x 4'10"	2' 8" x 4'1"		5' 3"	4' 6"	
5	4' x 6'	3' 5" x 5'1"	2'2" x 3' 5"	6' 7"	5' 7"	3'8"
6	4'9" x 7'3"	4' 1" x 6'2"	2'8" x 4' 1"	7'11"	6' 9"	4'6"
7	5'7" x 8'6"	4' 9" x 7'3"	3'2" x 4' 9"	9' 3"	7'10"	5'3"
8	6'5" x 9'9"	5' 5" x 8'4"	3'7" x 5' 6"	10' 8"	9'	6'
9	7'3" x 11'	6' 2" x 9'4"	4'1" x 6' 2"	11'11"	10' 2"	6'9"
10	8' x 12'3"	6'10" x 10'4"	4'6" x 6'11"	13' 3"	11' 3"	7'6"
12	9'7" x 14'8"	8' 2" x 12'6"	5'5" x 8' 3"		13' 7"	9'
14		9' 6" x 14'7"	6'4" x 9' 8"			10'6"
16			7'3" x 11' 1"			12'
18			8'2" x 12' 6"			13'7"
20			9'1" x 13'11"			15'1"

ZEISS IKON

leader in progress