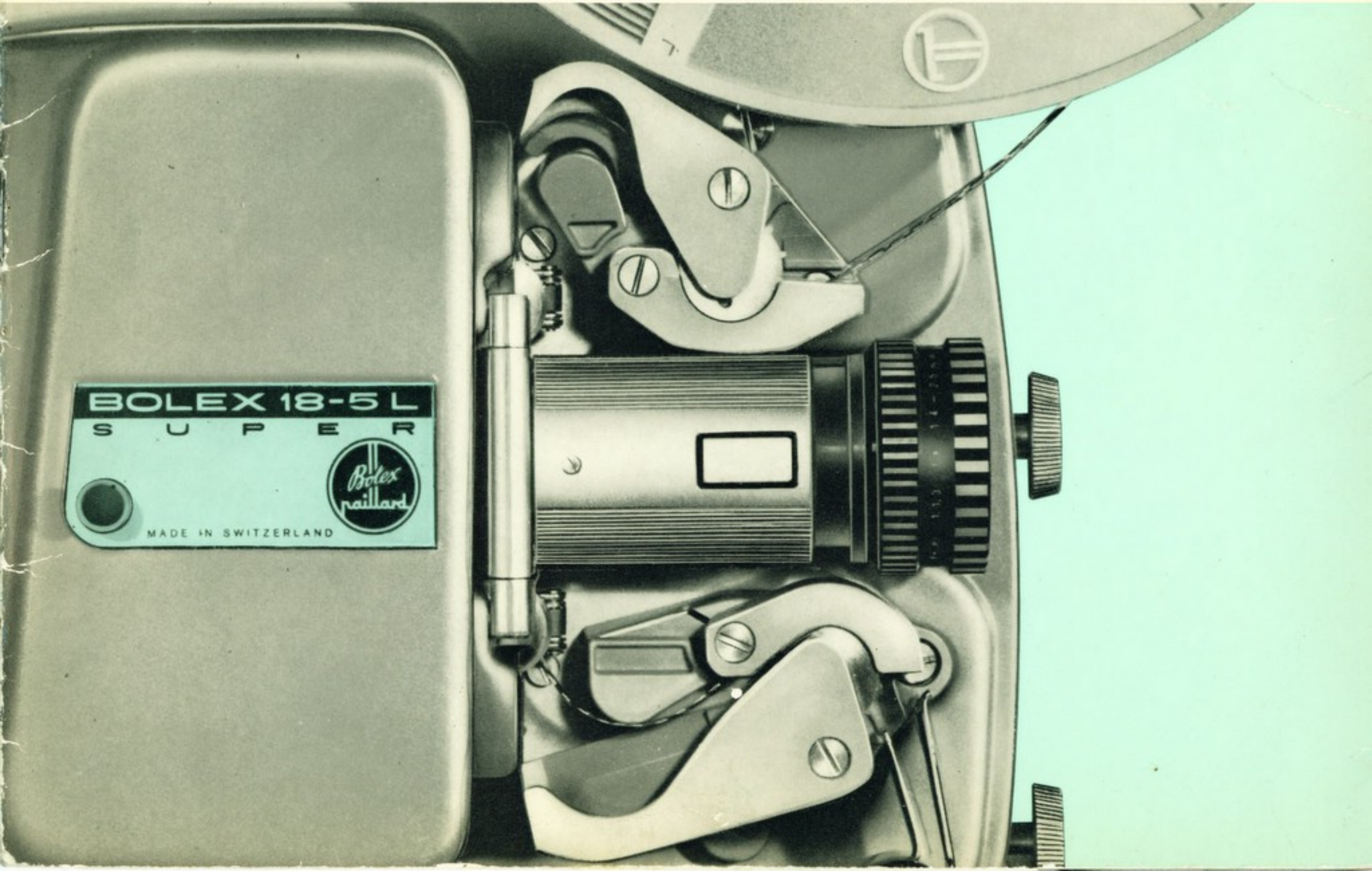
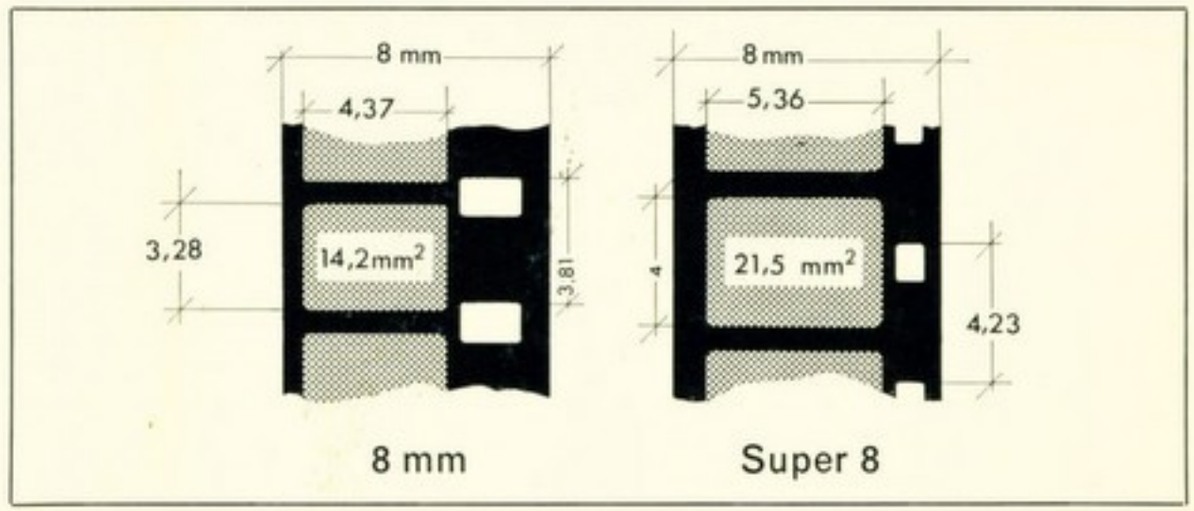
BOLEX 18-5 L SUPER

INSTRUCTIONS FOR USE

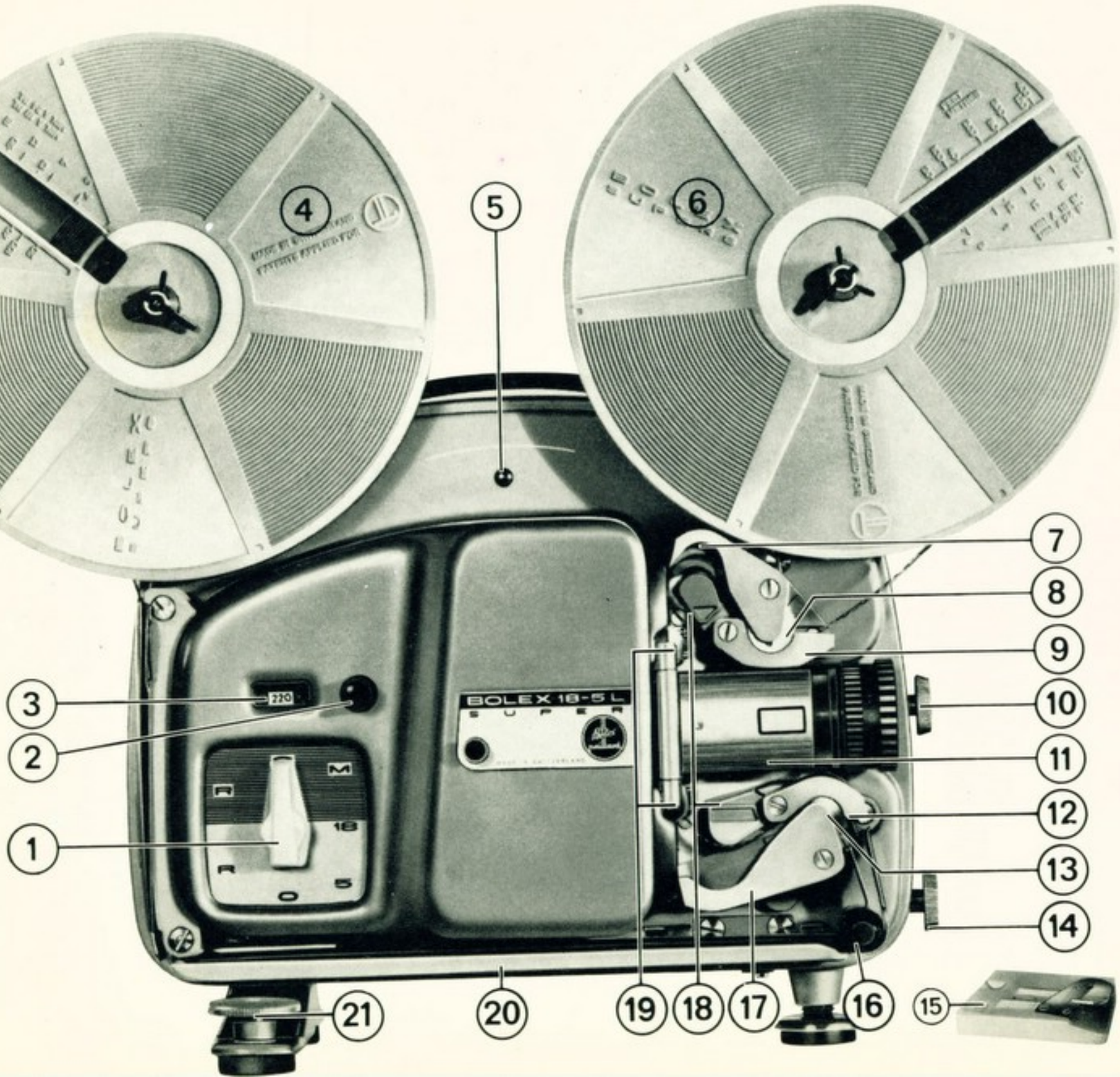


Your Bolex 18-5 L Super projector combines the benefits of a proved formula with those of a new film format—Super 8. Super 8 frames have an image area which is 1 ½ times larger than that of normal 8 mm film. This increase in area gives an appreciable improvement in picture brightness and sharpness. In addition, the projector has a fully automatic threading system, which makes its operation easier for you and ensures maximum protection of your films.

Sturdiness, exceptional picture quality, instantaneous and flicker-free slow motion, ease of operation and long life for your films—these are the undisputed advantages of the Bolex 18-5 L Super projector. The result of extensive research and rigorous testing, your projector represents an impressive technical achievement. The quality of its performance and the precision for which all Paillard products are renowned assure perfect projection for many years to come.

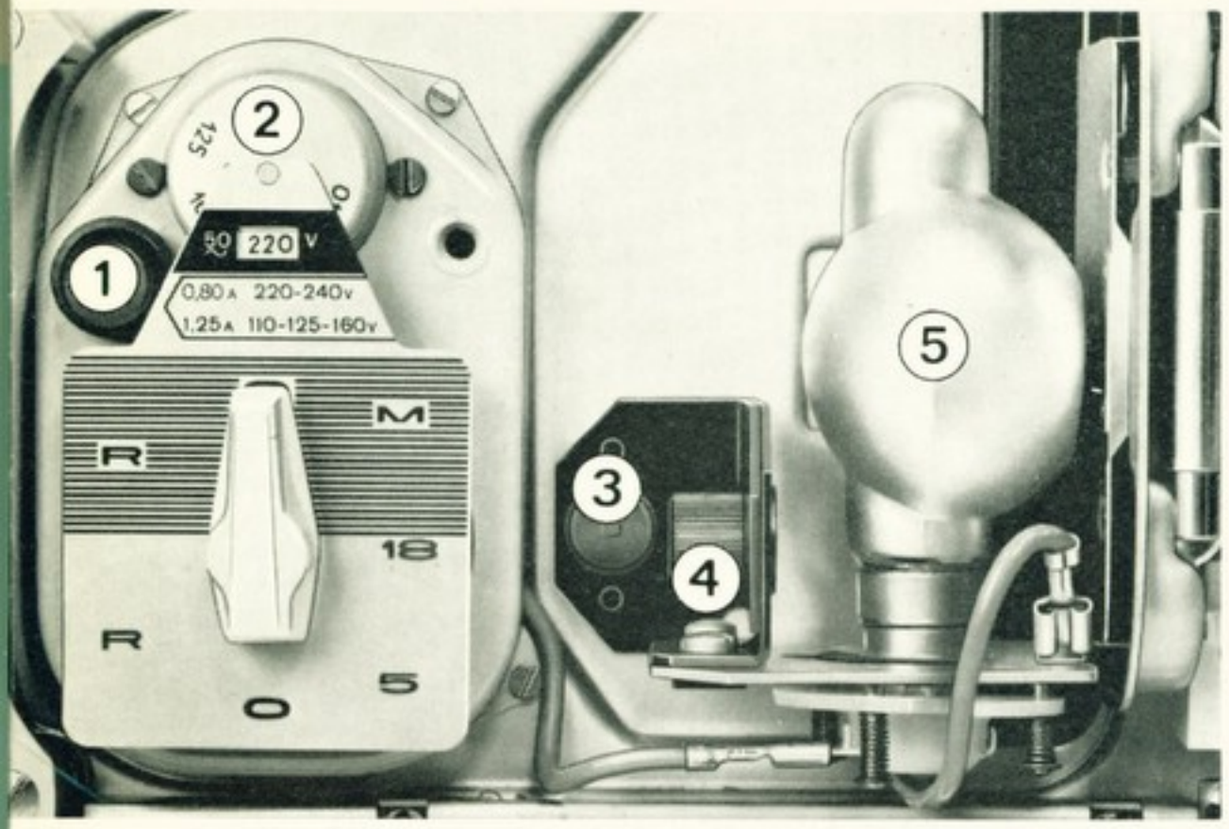


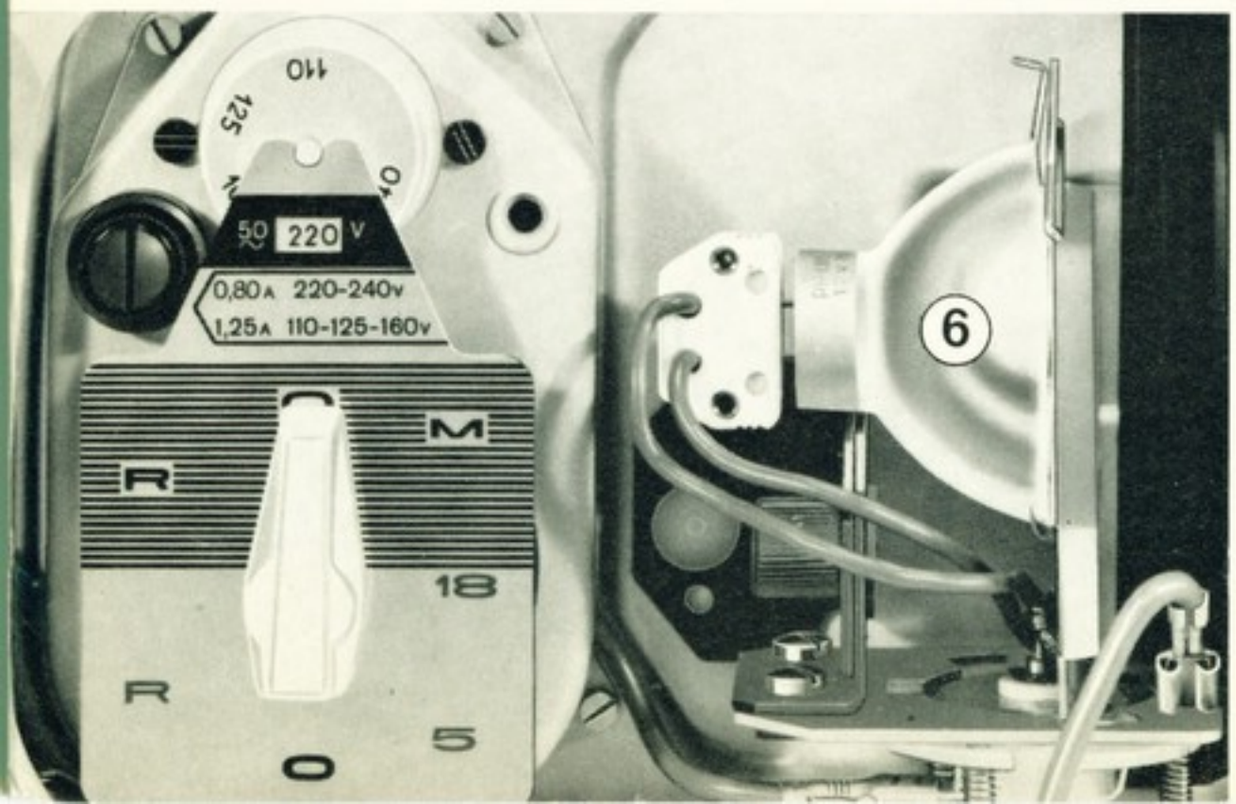
Only Super-8 film can be used in your Bolex 18-5 L Super projector. This film is supplied on spools which have a larger center hole than normal 8 mm spools.



1. On-off, reverse, and speed switch.
2. Retaining screw for lamp house cover.
3. Voltage indicator.
4. Rear spool.
5. Rewind guide post.
6. Front spool.
7. Upper loop former.
8. Upper sprocket.
9. Upper sprocket shoe.
10. Inching knob.
11. Lens holder and lens.
12. Lower sprocket shoe.
13. Lower sprocket.
14. Framing control knob.
15. Film cutter (stored inside the front cover).
16. Height control.
17. Lower loop former.
18. Guide arms.
19. Gate.
20. Film guiding channel.
21. Levelling control.

We reserve the right to make slight modifications.





The possibility of using either the standard lamp or the 12 V/75 W halogen lamp with its incorporated cold mirror allows you complete freedom to adopt the colour temperature best suited to the different films you project.
The new halogen lamp provides intense light throughout its considerably increased life. It also ensures even greater protection for your films.

1. Fuse.
2. Voltage selector.
3. Control for vertical centering of lamp.
4. Control for horizontal centering of lamp.
5. 12 V/75 W standard lamp with round bulb.
6. 12 V/75 W halogen lamp with incorporated cold mirror.
   (Mounting the two lamps on page 8.)

The Bolex 18-5 L Super is outstandingly versatile and this is especially due to the comprehensive range of Paillard-Bolex Hi-Fi lenses (see inside back cover).

Approximate picture sizes, in inches, at varying screen distances

Dist. of projection	Focal Length			
	14 mm	20 mm	23 mm	25 mm
7 ft.	30 × 22	21 × 16	19 × 14	17 × 12
10 ft.	45 × 34	31 × 23	28 × 21	25 × 19
13 ft.	60 × 45	42 × 31	37 × 28	33 × 25
17 ft.	75 × 56	53 × 40	46 × 35	42 × 31
20 ft.		63 × 47	56 × 42	50 × 38
27 ft.		84 × 63	74 × 56	67 × 50
33 ft.		105 × 79	93 × 69	84 × 63
40 ft.			111 × 84	101 × 76

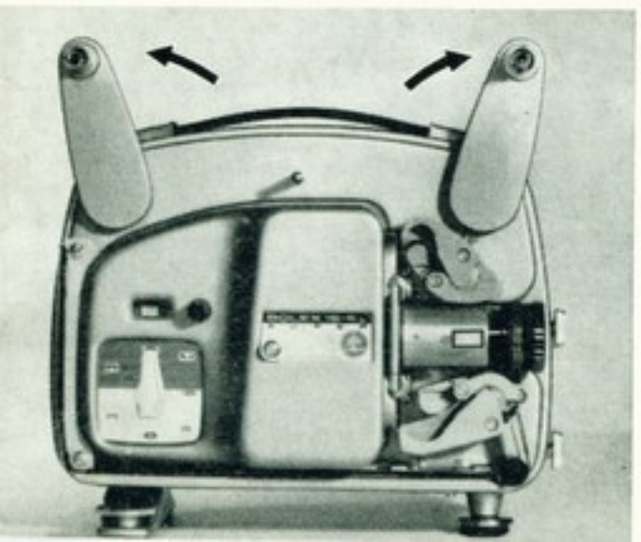
For optimum viewing conditions it is recommended that the audience should not be seated closer to the screen than 2 ½ times the width of the projected picture—and preferably in front of the projector.

Setting up the projector

Bolex paillard

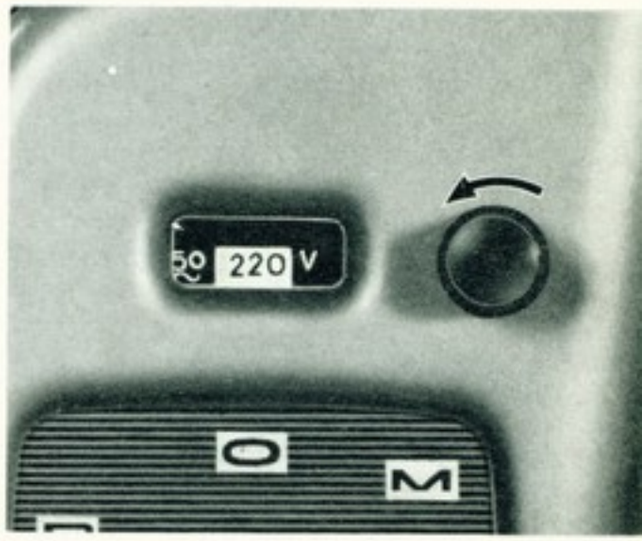
Your automatic projector is very simple to use but, nevertheless, we suggest that you consult this instruction manual before using it for the first time. This will obviate operating errors. **Do not connect to power supply.**

1. To remove the front cover turn the locking knob in the direction of the arrow.

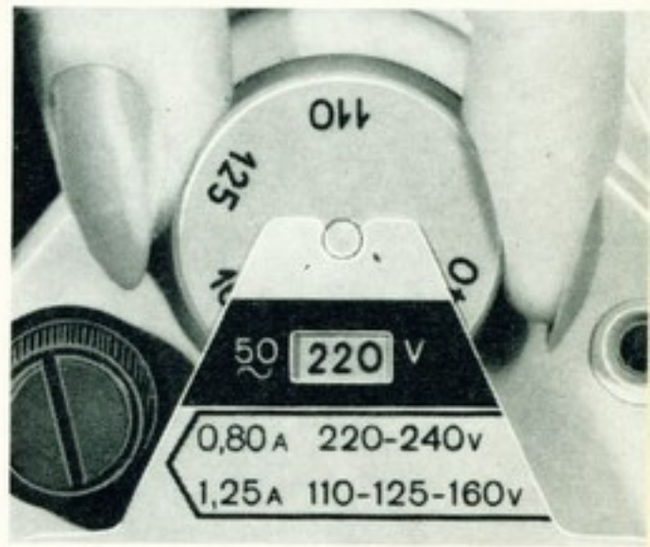


2. Raise both spool arms as far as they go.

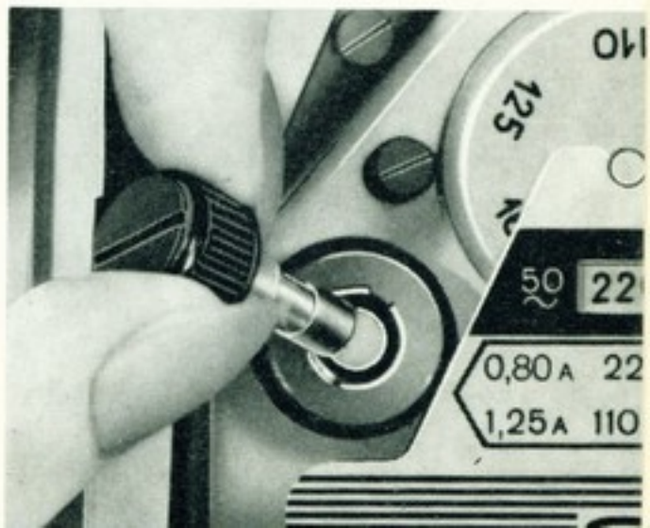
3. Make sure the number appearing in the voltage indicator window corresponds to the mains supply voltage. If it does not: Remove the lamp house cover by means of the retaining screw.



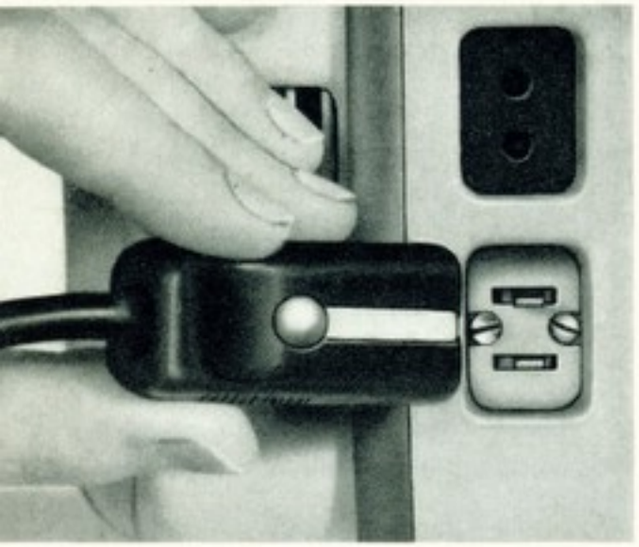
4. Set the voltage selector to the correct voltage. If the actual mains supply voltage cannot be set exactly, use the next highest figure on the voltage selector.



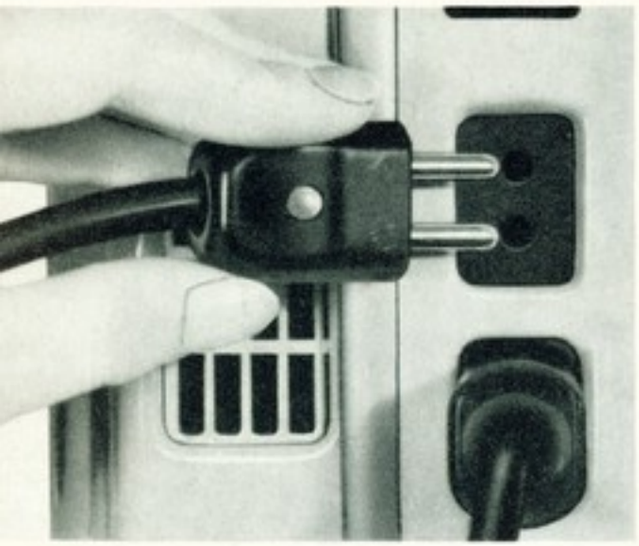
5. Make certain the fuse is the correct type. To remove it, push the fuse holder in and turn it slightly. For voltages up to 160 V, the fuse should be 1.25 Amp. For higher voltages, it should be 0.80 Amp. A spare fuse is attached to the lamp house cover. Then replace the lamp house cover.



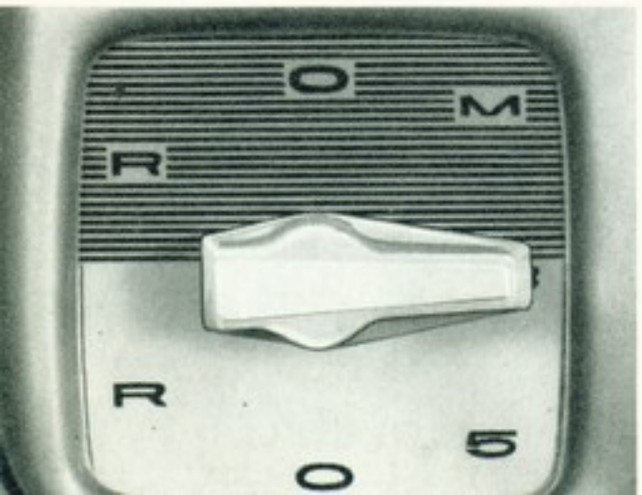
Before threading the film



1. Connect the projector to the power supply. (If the mains lead is not supplied with a mains connection plug already fitted, connect it to a suitable plug in accordance with the instructions given on a label attached to the end of the mains lead).

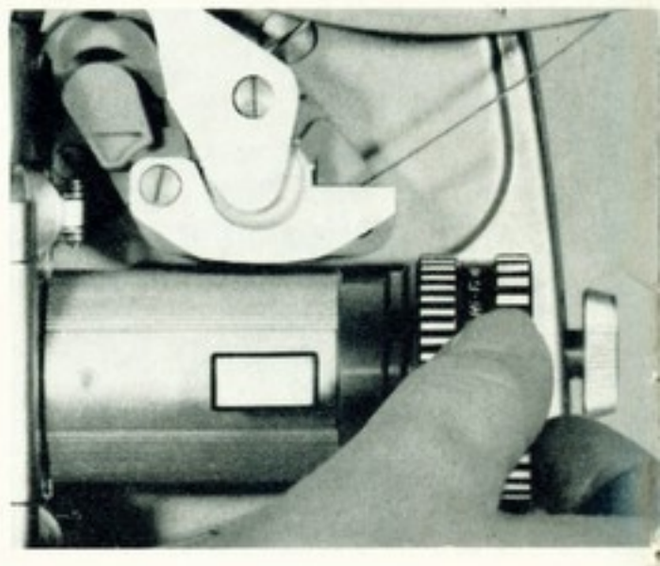


2. Use the short lead for connection to a room or table lamp which will then be switched off automatically when the projector lamp is on. (Room lamp must not exceed 70 watts).

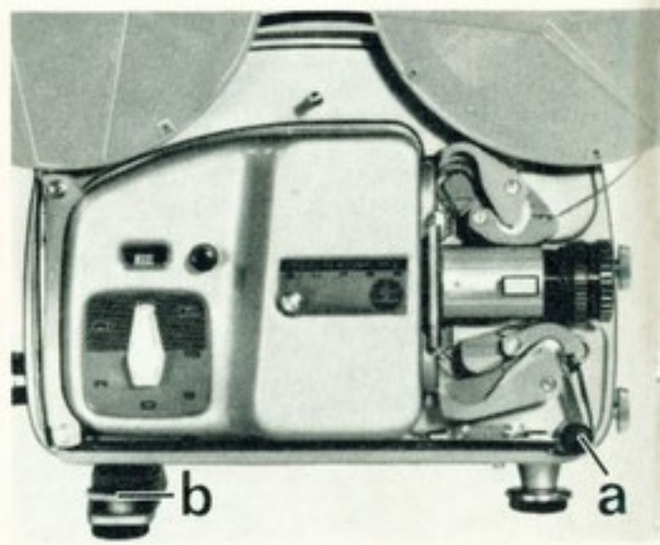


3. Start the projector and switch on the lamp. (Position « 18 »).

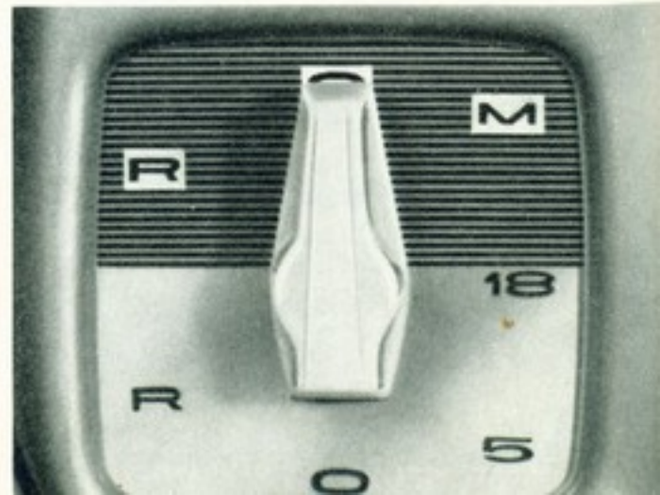
4. Turn the lens by its ring (or by its front ring when using a zoom-lens) to obtain a sharp outline of the illuminated area on the screen.



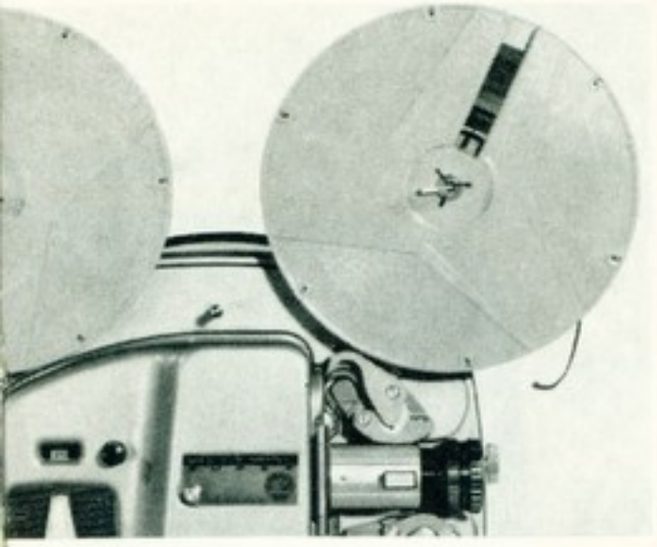
5. Adjust the height control (a) and the levelling control (b) if necessary.



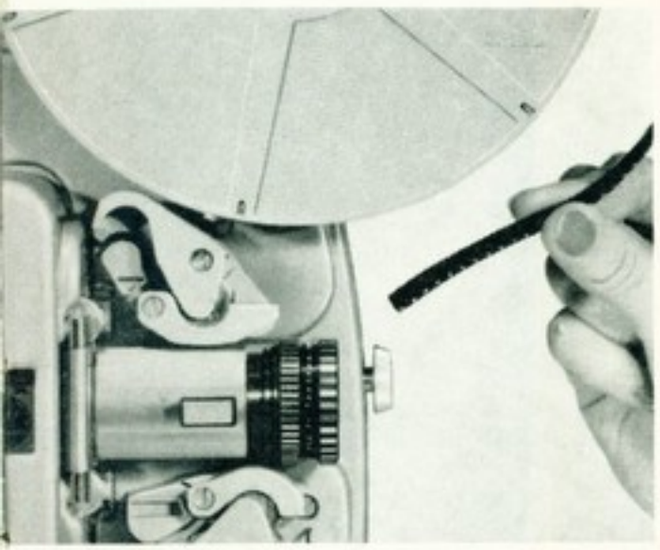
6. Stop the projector.



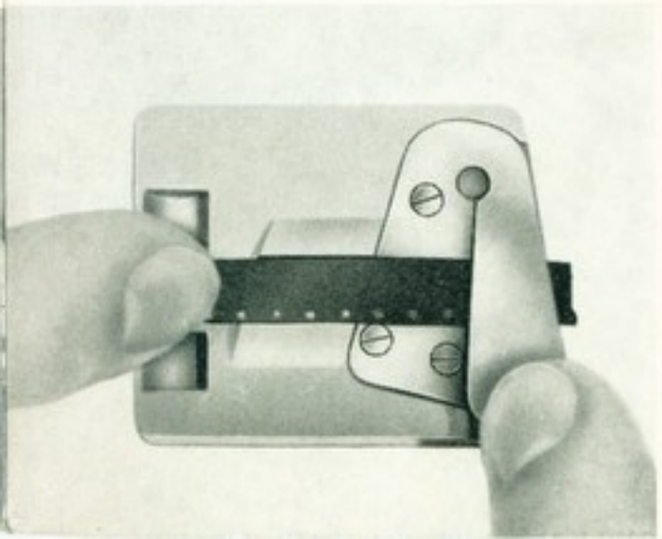
Automatic threading



1. Place the spool with film on the front arm and the empty spool on the rear arm. Fold down the retaining catches. The take-up (rear) spool must be a Bolex spool specially designed to secure the film-end automatically. Maximum spool capacity: 400 ft.



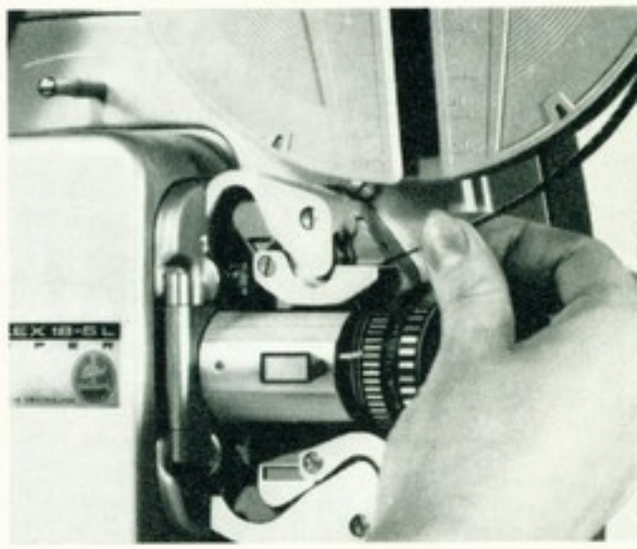
2. The film should feed from the front of the spool with the perforated edge on the outside.



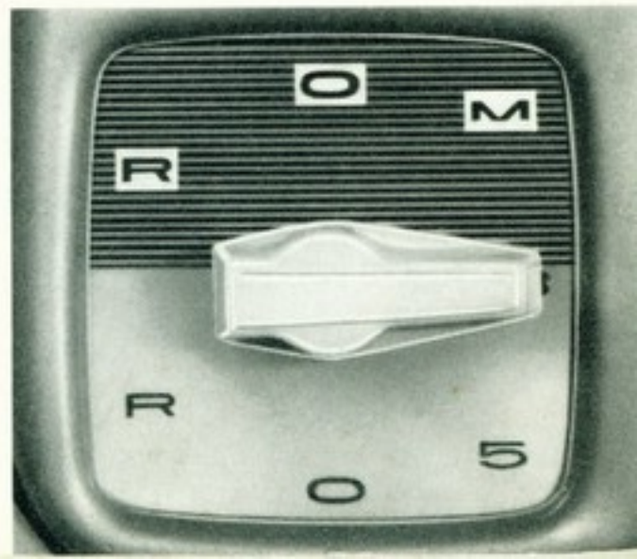
3. If the leading end of the film is bent sharply, try to straighten it. However, in case this is not possible, or the film is even damaged, cut it off between two perforation holes by means of the film cutter stored in the front cover.

4. Set the projector for forward running, lamp off, by moving the switch to « M ».

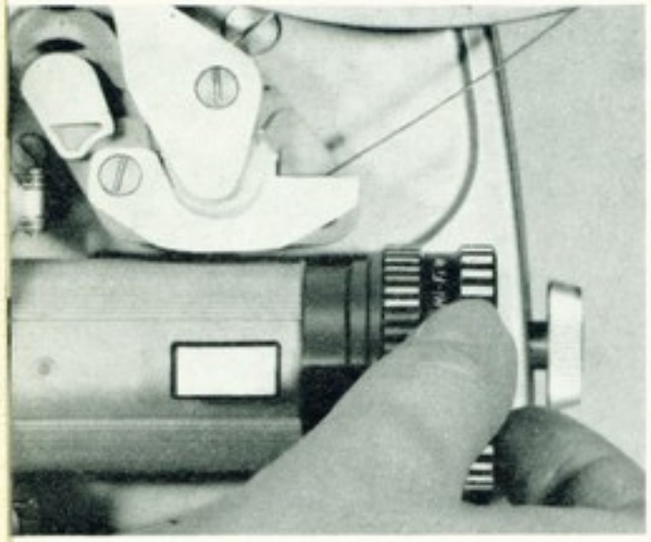
5. Insert the film leader into the slot in the upper sprocket shoe until it is taken up by the sprocket.



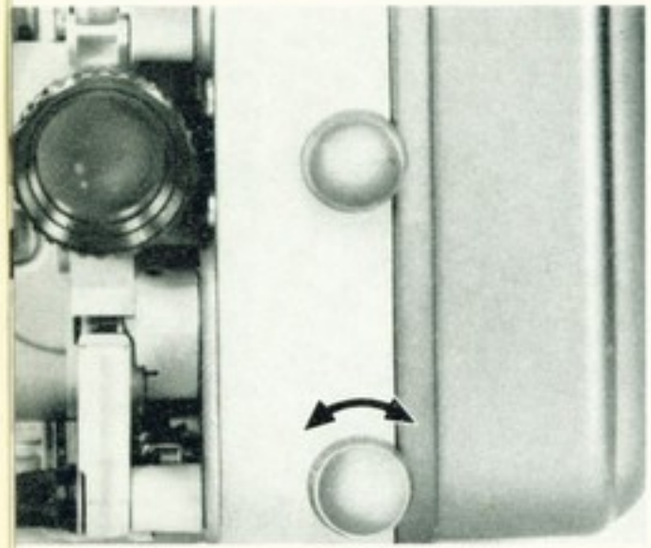
6. When the film has automatically attached itself to the take-up spool, move the switch to « 18 » to turn on the lamp and begin projection.
To stop projection before the end of a film, move the switch to the lower position « O ». Avoid running the film through the projector when the switch is in the « M » position, only used for threading.



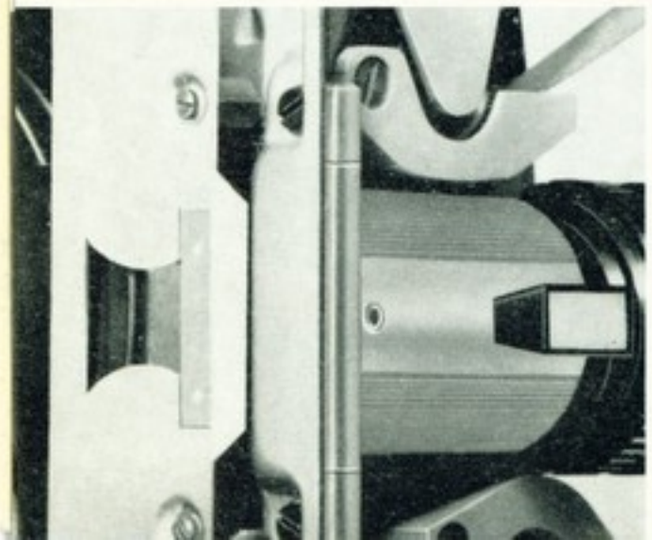
Projection



1. Focus the picture on the screen by turning the ring of the lens (or the front ring when using a zoom-lens).



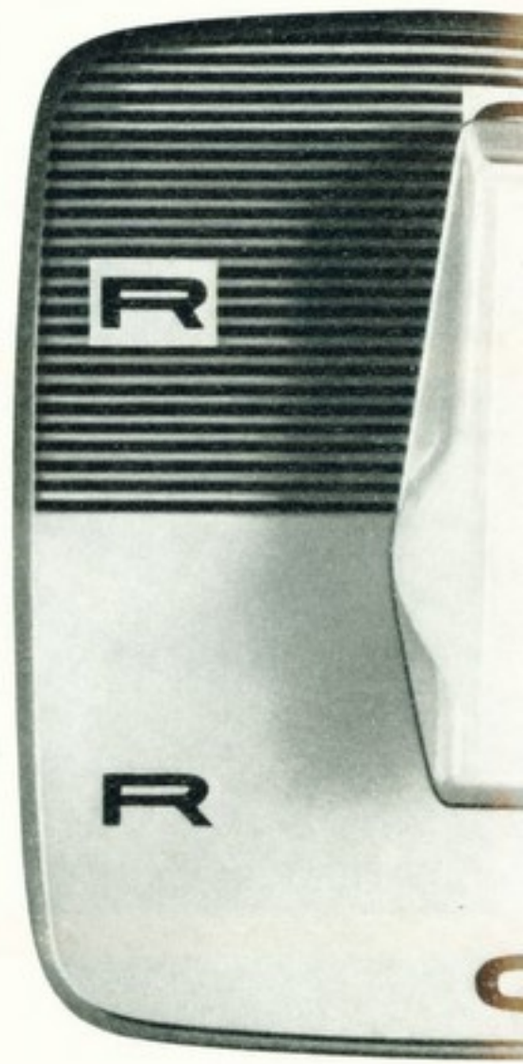
2. If part of a second picture appears on the screen, turn the framing control in either direction until it has disappeared.
These initial operations can be ideally carried out a 5 f.p.s.



3. The catathermic filter protects the film from excessive heating without reducing light in any appreciable manner.

Switch in

Reverse motion at
18 f. p. s., lamp off



Reverse motion at
18 f. p. s., lamp on

Quick sto
lamp sw

top position

Forward, motion at
18 f. p. s. lamp off

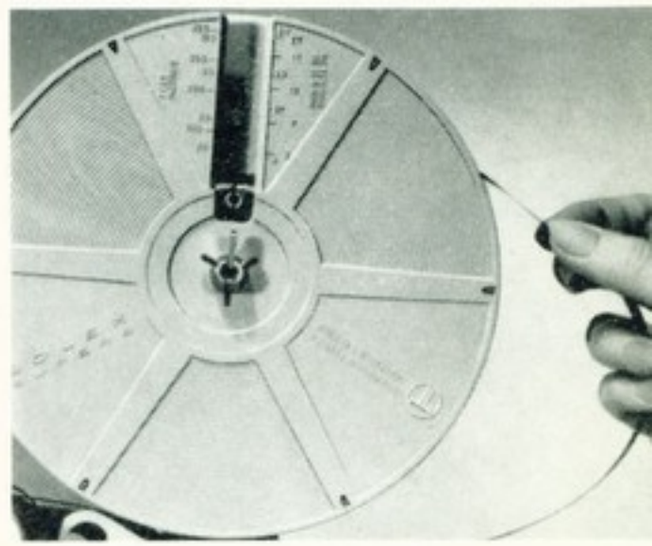
Forward motion at
18 f. p. s., lamp on

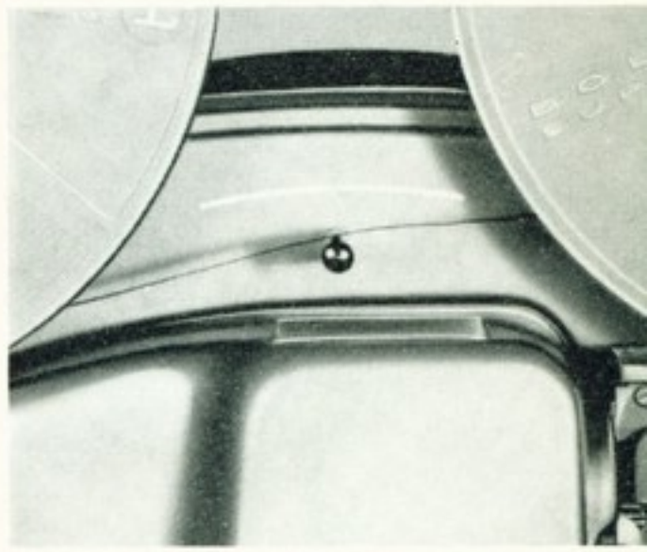
Forward motion at
5 f. p. s., lamp on

position
ched off.

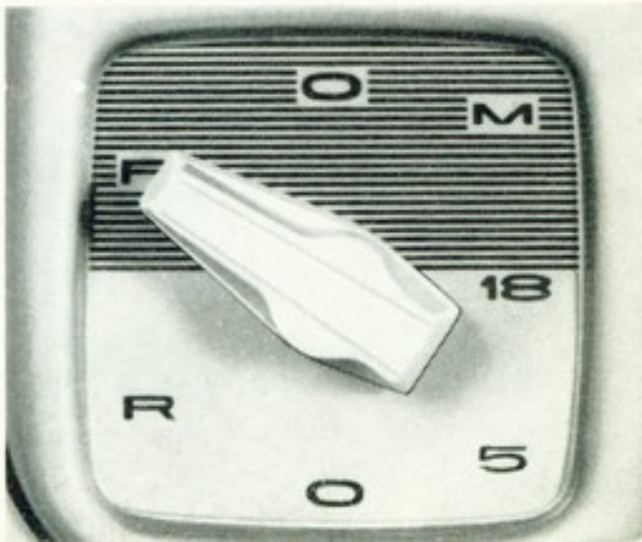
Rewinding the film

1. Insert the end of the film in the front spool.



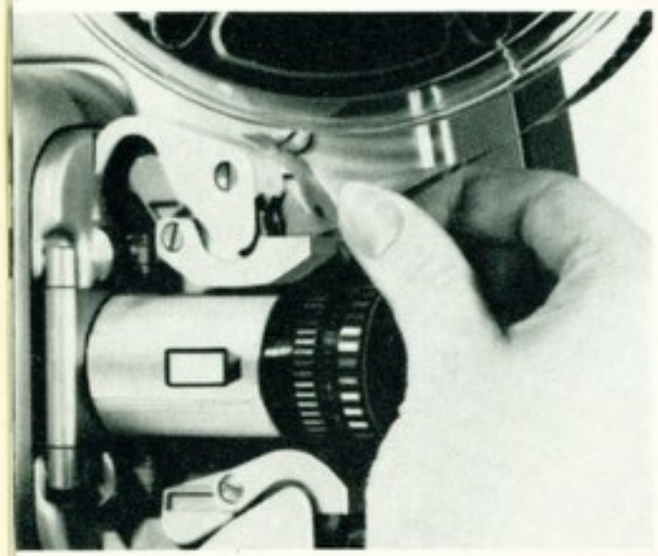


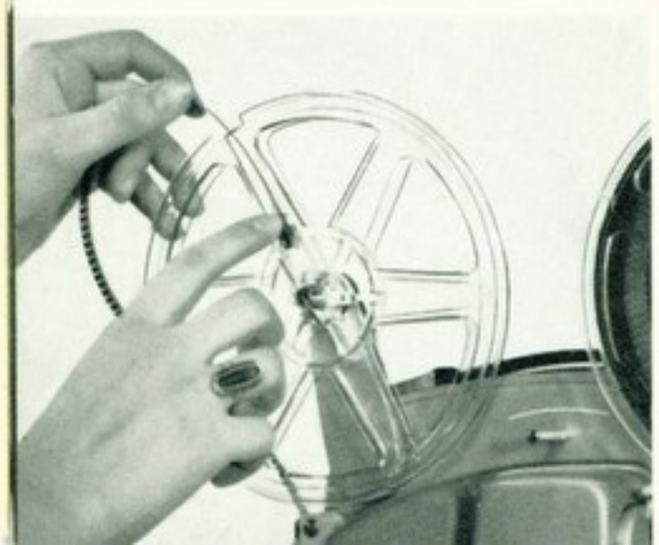
2. Pass the film over the guide post, following the line on the projector.



3. Turn the switch to the reverse/lamp off position.

Special instructions





Use of an ordinary take-up spool

1. Start the threading operation as usual. Set the projector for forward running, lamp off, by moving the switch to « M ».

2. Insert the film leader into the slot in the upper sprocket shoe until it is taken up by the sprocket. Wait until about 1 ft. of film has passed out of the end of the film guiding channel at the rear of the projector.

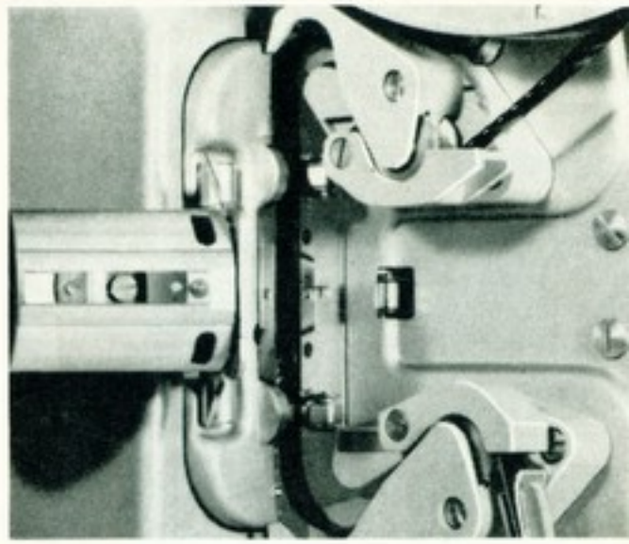
3. Then insert the end of the film into the slot of the take-up spool and turn it clockwise to tighten the film slightly.

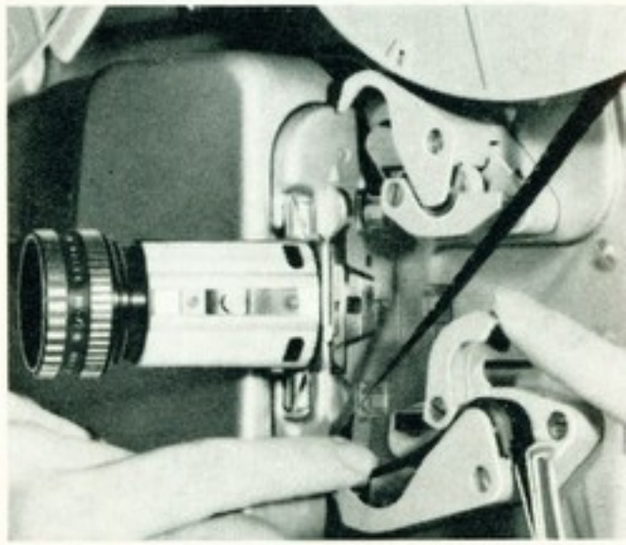
How to remove a partially projected film

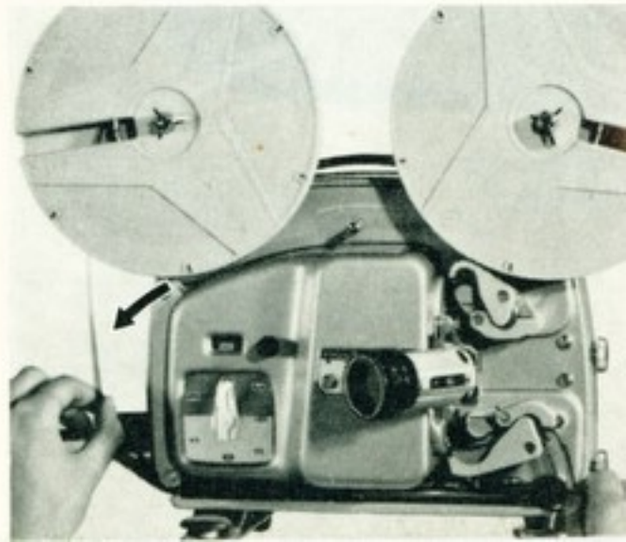
4. If you wish to remove the film before it has been completely projected, first open the lens holder.

5. Then open both sprocket shoes one at a time with the finger and take the film off the sprockets.

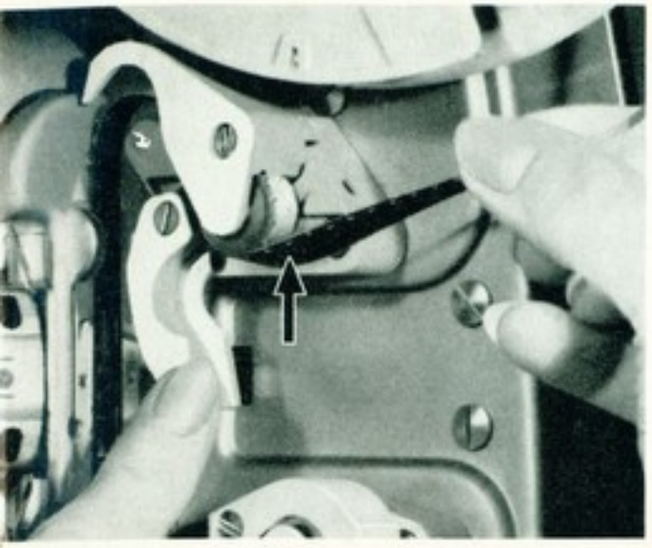
6. Open the film guiding channel and take out the film.



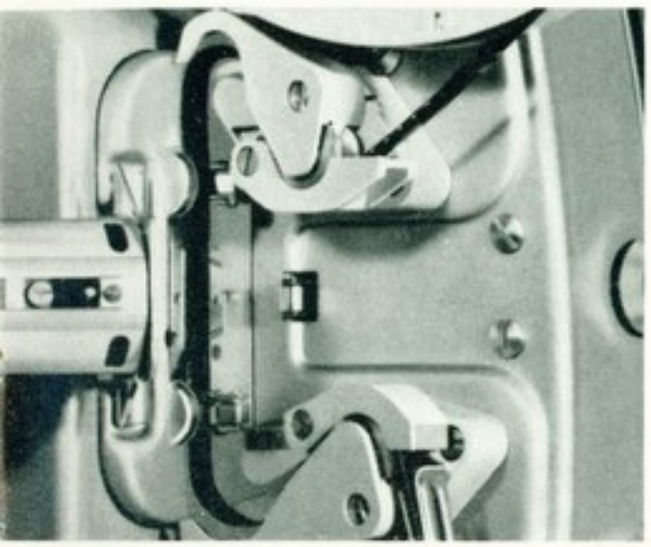




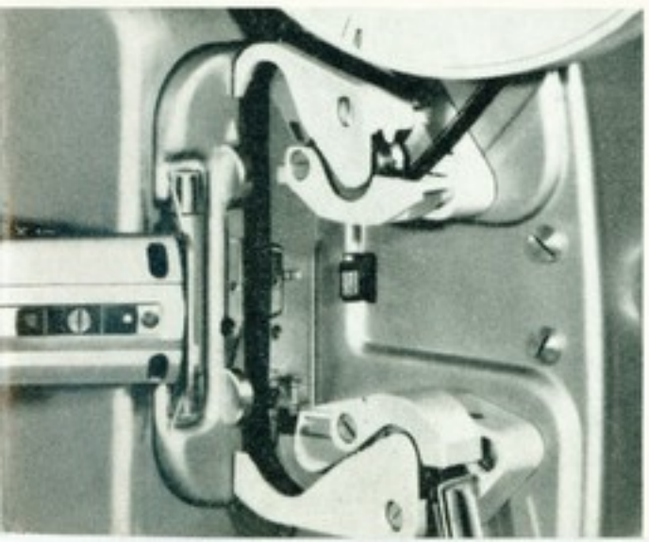
Manual threading



1. Open each sprocket shoe fully one at a time with the finger and insert the film on to the sprocket, making sure that the teeth are properly engaged in the film perforations.

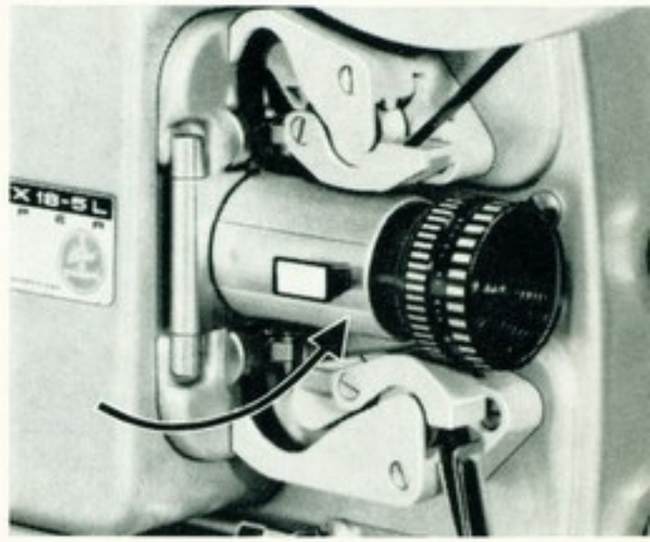


2. The film should form a loop at each end of the gate. Both loops should be evenly distributed between the loop formers and guide arms, without being in contact with either during projection.

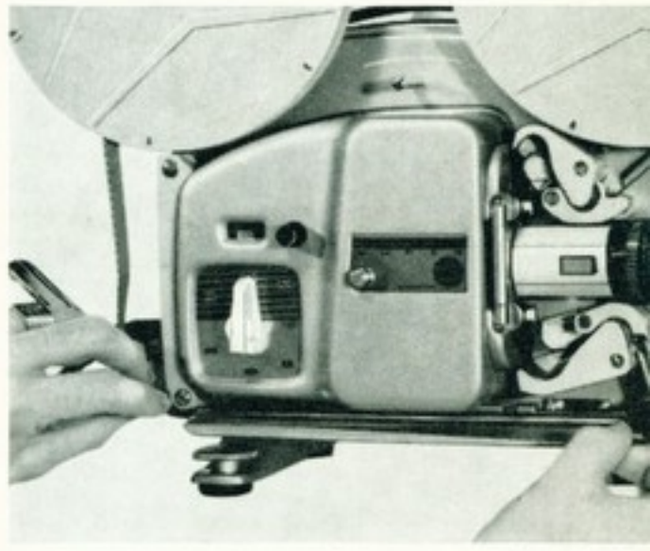


3. By depressing the upper loop-former switch (with the projector disconnected from the mains supply) both loop-formers can be closed to check whether the film is correctly threaded.

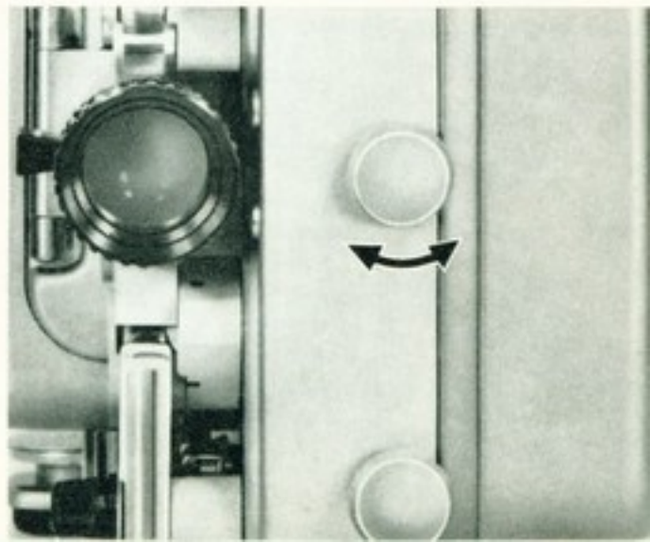
4. Close the lens holder.



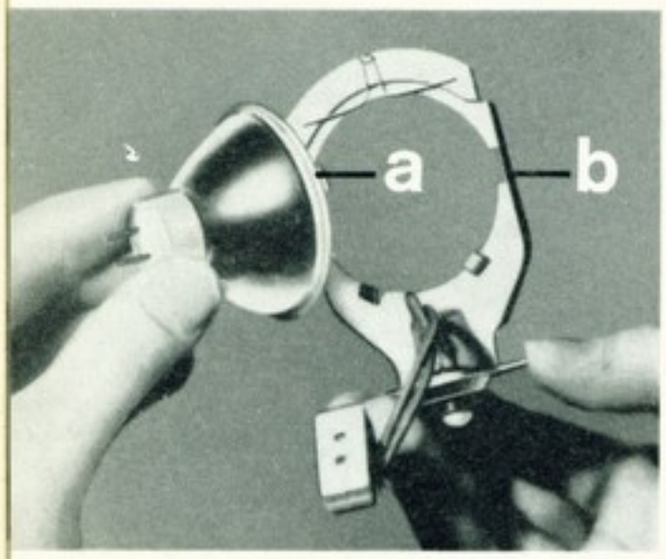
5. Open the film guiding channel, insert the film and attach it to the take-up spool.

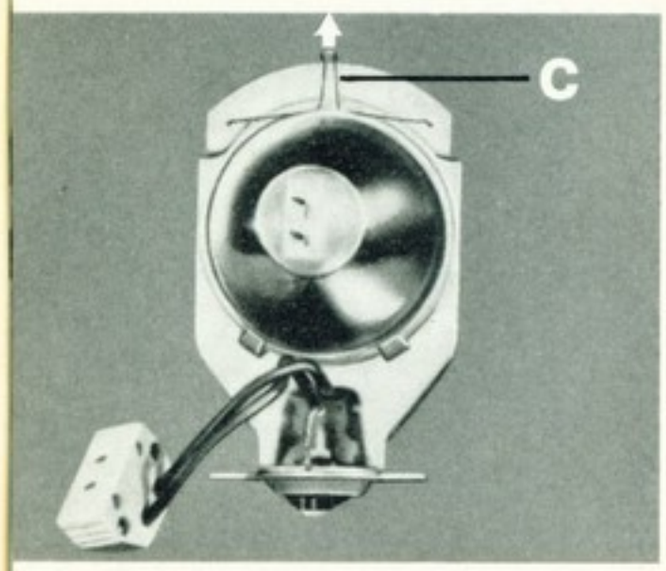


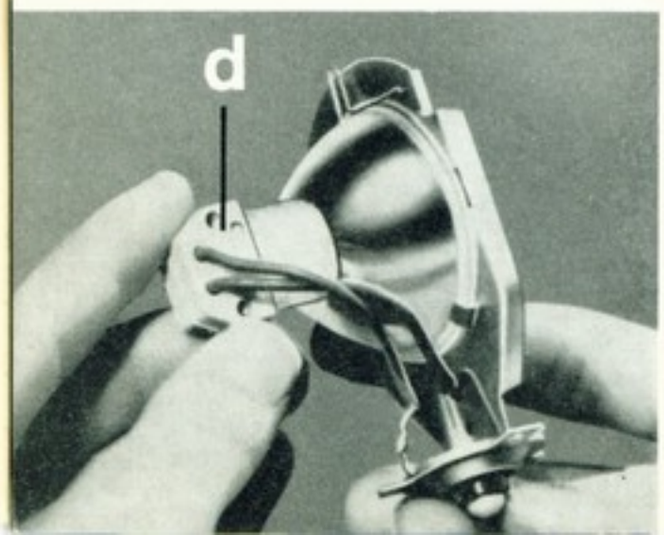
6. Turn the inching knob to insure that the film is positioned, and feeding through, correctly.



Maintenance







Self-lubricating bearings make lubrication unnecessary.
To avoid any risk of scratching the film, it is advisable to wipe the gate, sprockets and film guiding channel, occasionally with a clean, slightly moistened cloth. To clean the film aperture (in the plate on the lens holder) use a brush or a small piece of foam plastic.
The lens should be cleaned with a fine, soft brush, or with special tissues. Never touch the lens surfaces with your finger. The catathermic glass should be free from any trace of grease or dust. To clean it, use a solvent composed of alcohol and ether in a proportion of 50 %.

Mounting and replacement of the halogen lamp

This lamp is quickly mounted on its support, and subsequently on to the projector.

Important. Do not touch the lamp bulb with the fingers.

1. Place the lamp in front of the metal support so that the lug (a) in the mirror is opposite the notch (b) on the support.
2. Engage the mirror in the two lower catches and lift up the spring (c) which locks the lamp in position.
3. Plug in the connector (d).
4. Insert the lamp, mounted in its support, in the projector and ensure that it is correctly positioned and held firmly in place.

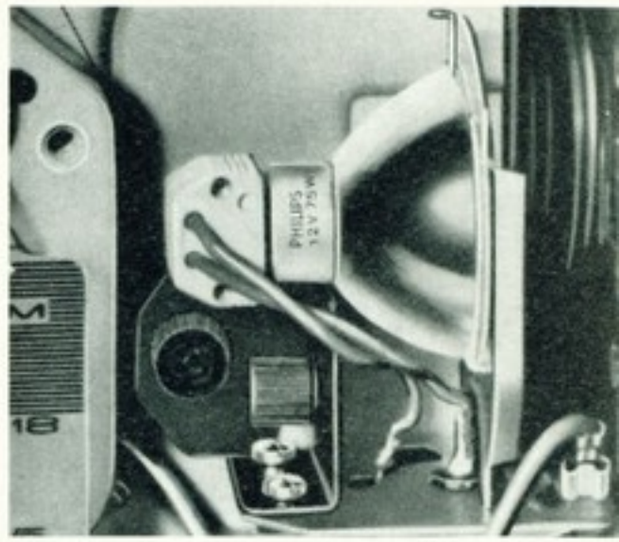
Mounting and replacement of the standard lamp (illustration opposite)

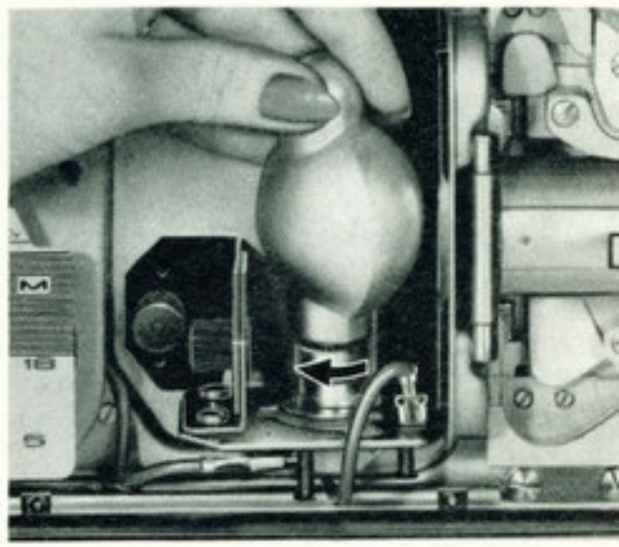
Insert the new lamp by placing the holes at the rear of the flange over the corresponding pins.
Tilt the lamp backwards and then push the front spring loaded pin upwards.

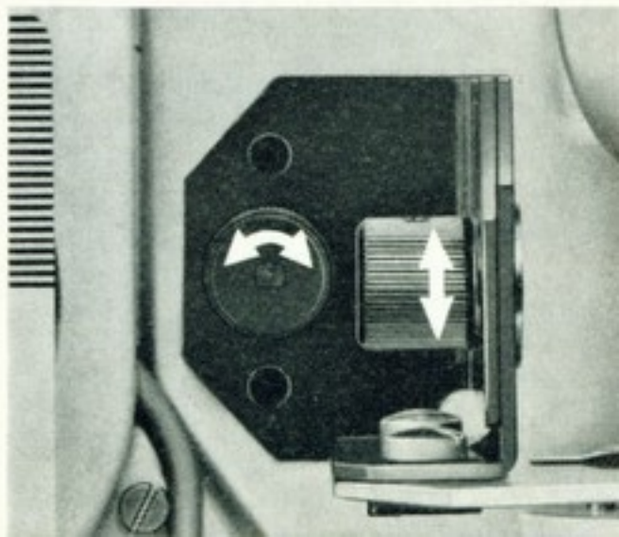
Lamp centering

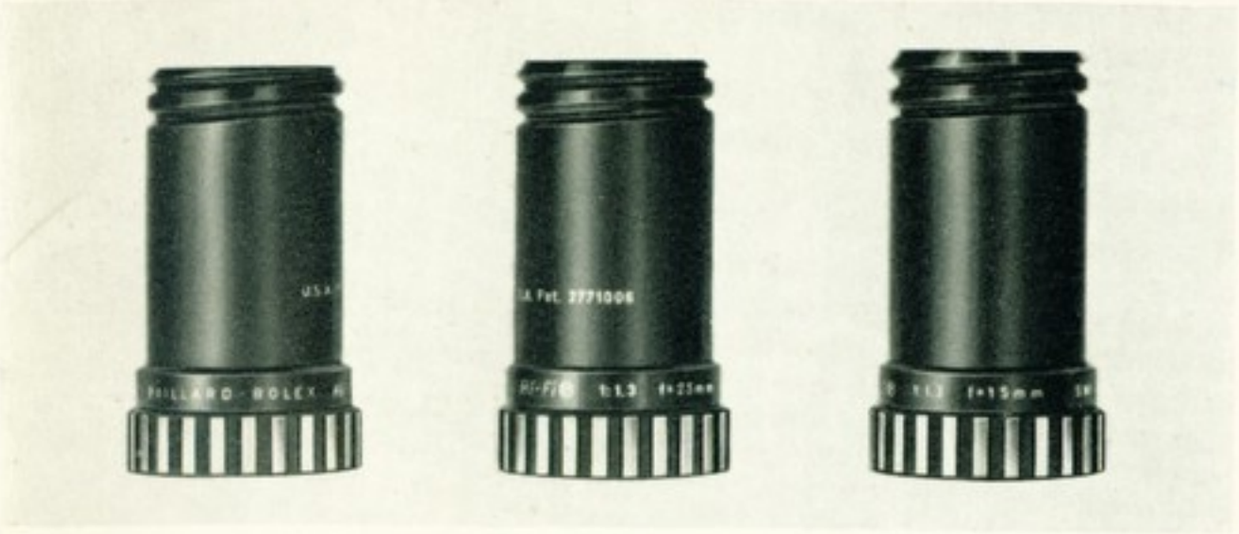
The lamp is correctly centered when the brightness on the screen appears uniform. Before centering make sure that the framing control is in the central position. Centering can be carried out with no danger when the lamp is on.

Horizontal and vertical centering.



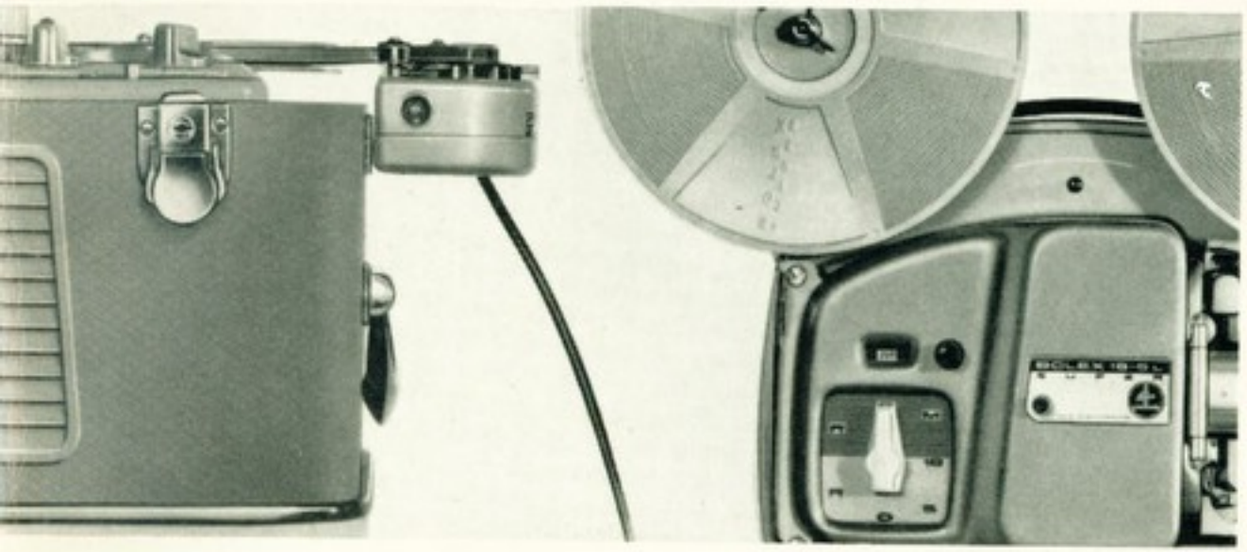






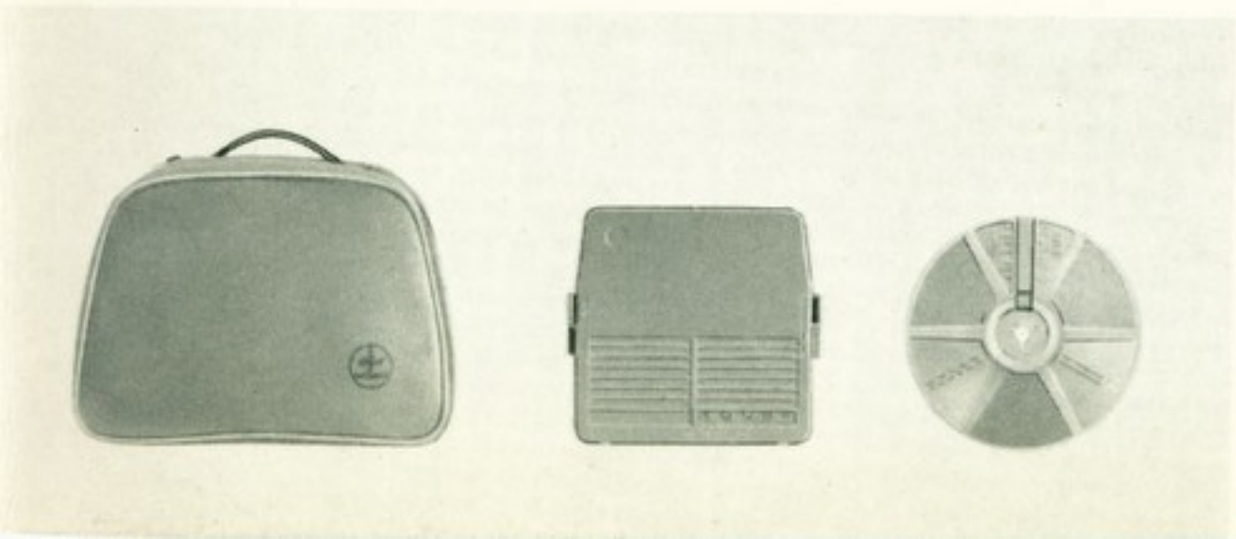
Optical equipment

The Bolex 18-5 L Super projector can be equipped with three different Paillard-Bolex Hi-Fi lenses: two fixed focal length lenses—20 mm f/1.3 and 23 mm f/1.1—and a 14-25 mm f/1.3 zoom lens. All these lenses have an extremely large aperture, which ensures maximum screen brilliance, and they have excellent correction of optical aberrations.



Adding sound to your films

The reasonably quiet operation of the Bolex 18-5 L Super makes it particularly suitable for sound synchronisation. The Bolex Synchronizer 18-5, designed especially for your projector, makes it easy to add sound to your films by means of a regular tape recorder.



Carrying cases and plastic spools

A leatherette zipper case is most useful for carrying your projector, films and other equipment.
Bolex spools of plastic material are light and sturdy. They are designed to secure the free end of the film automatically, and they are also perfectly suitable as feed spools. The spool flange has scales indicating the length of film in feet and meters, and the projection time in minutes.

Important. Do not load Super-8 film on spools for normal 8—the diameter of the center hole is not the same.

Paillard S. A., Sainte-Croix (Switzerland)

ME 215/86 Anglais

Printed in Switzerland