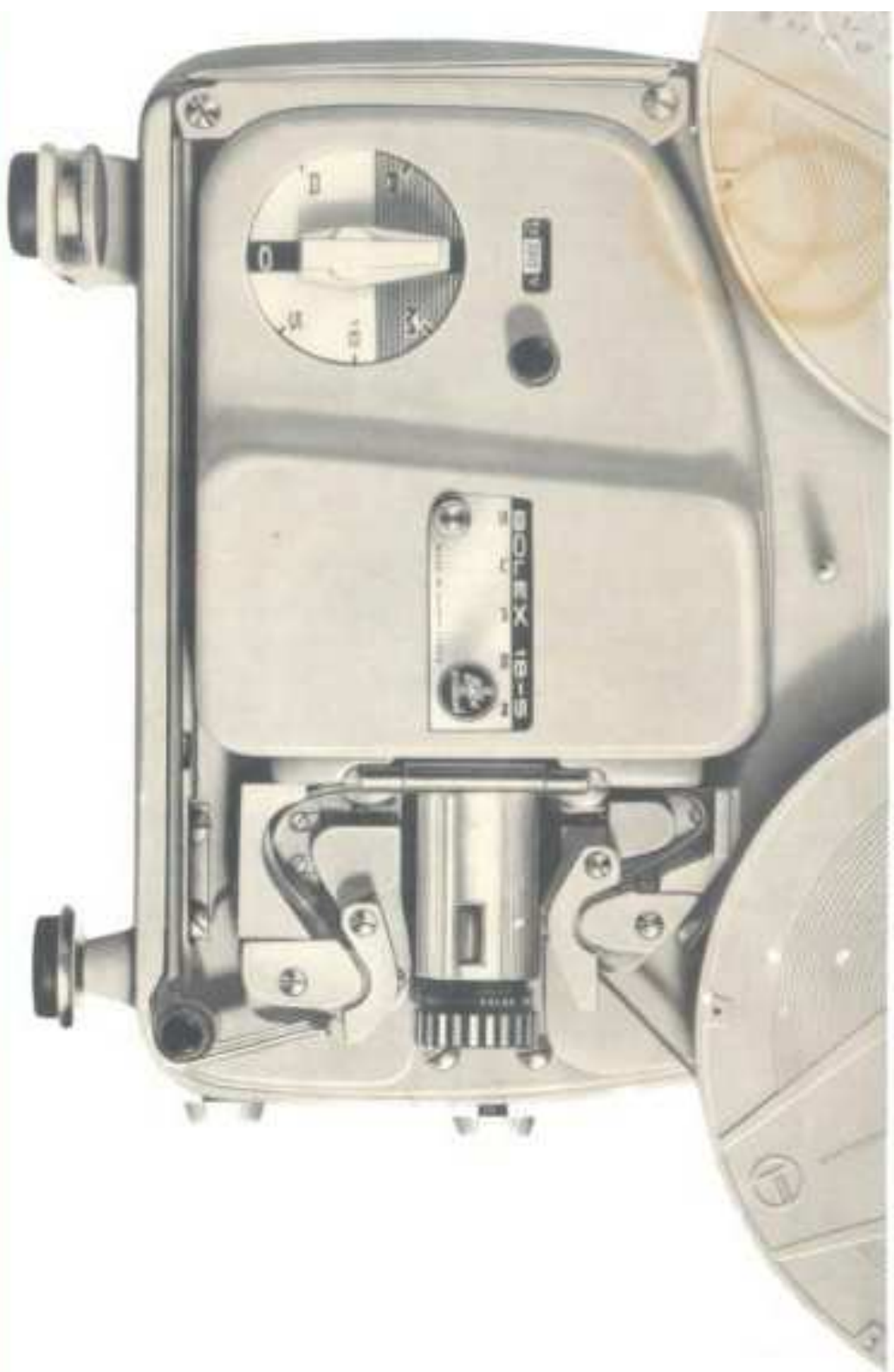


I N S T R U C T I O N S F O R U S E



# BOLEX

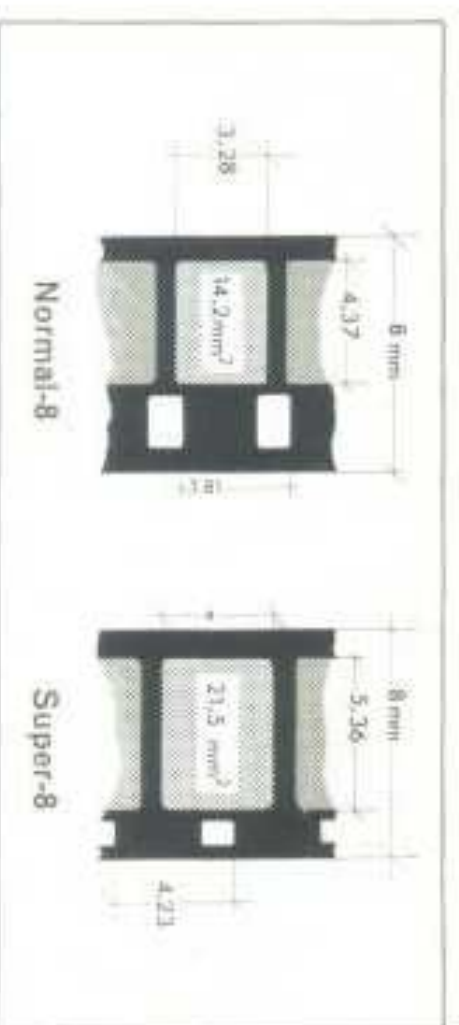
S U P E R 8 m m

# 185-5

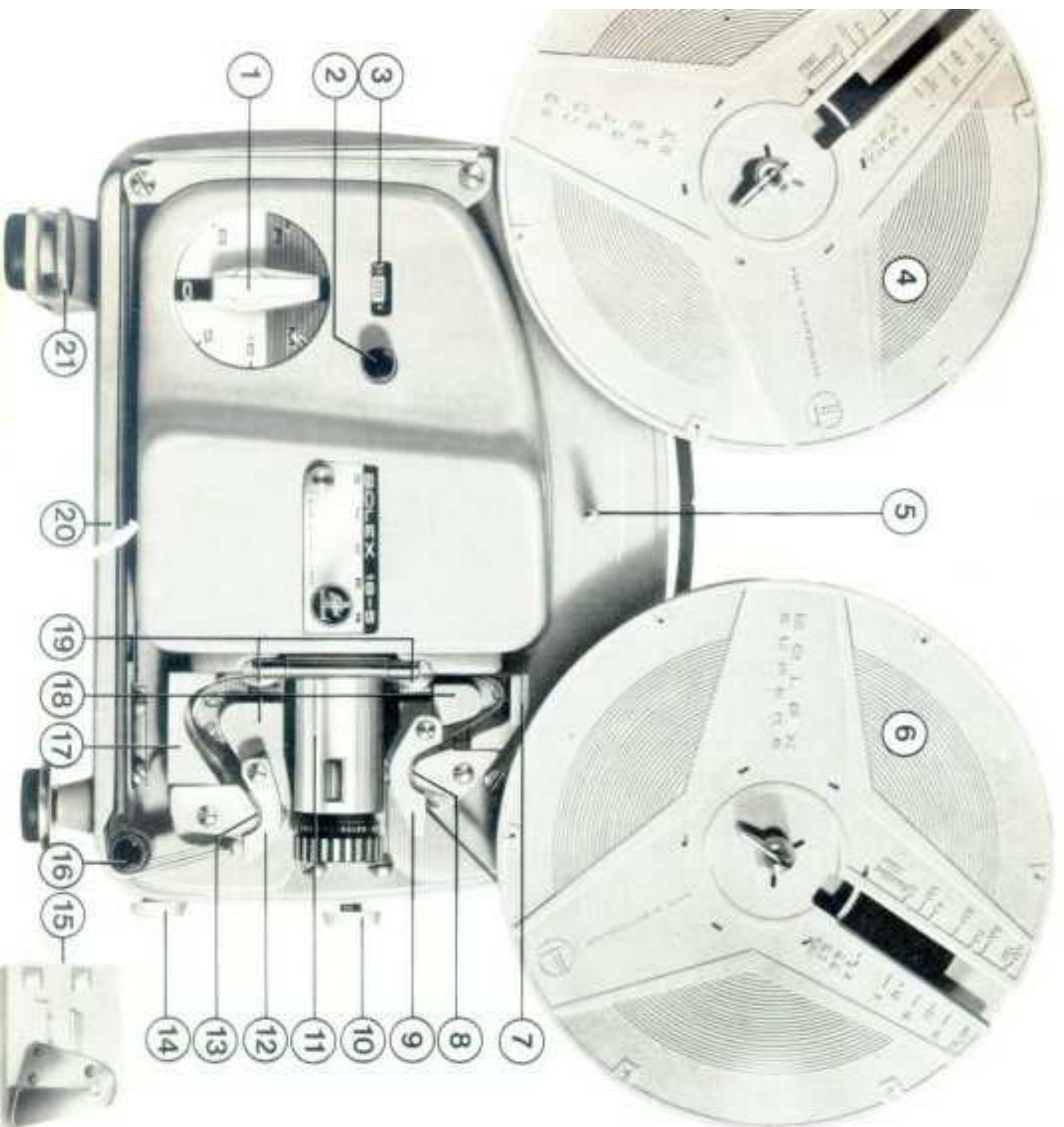


Your Bolex 18-5 Super projector combines the benefits of a proved formula with those of a new film format - Super-8. Super-8 frames have an image area which is  $1\frac{1}{2}$  times larger than that of normal 8 mm film. This increase in area gives an appreciable improvement in picture brightness and 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 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.

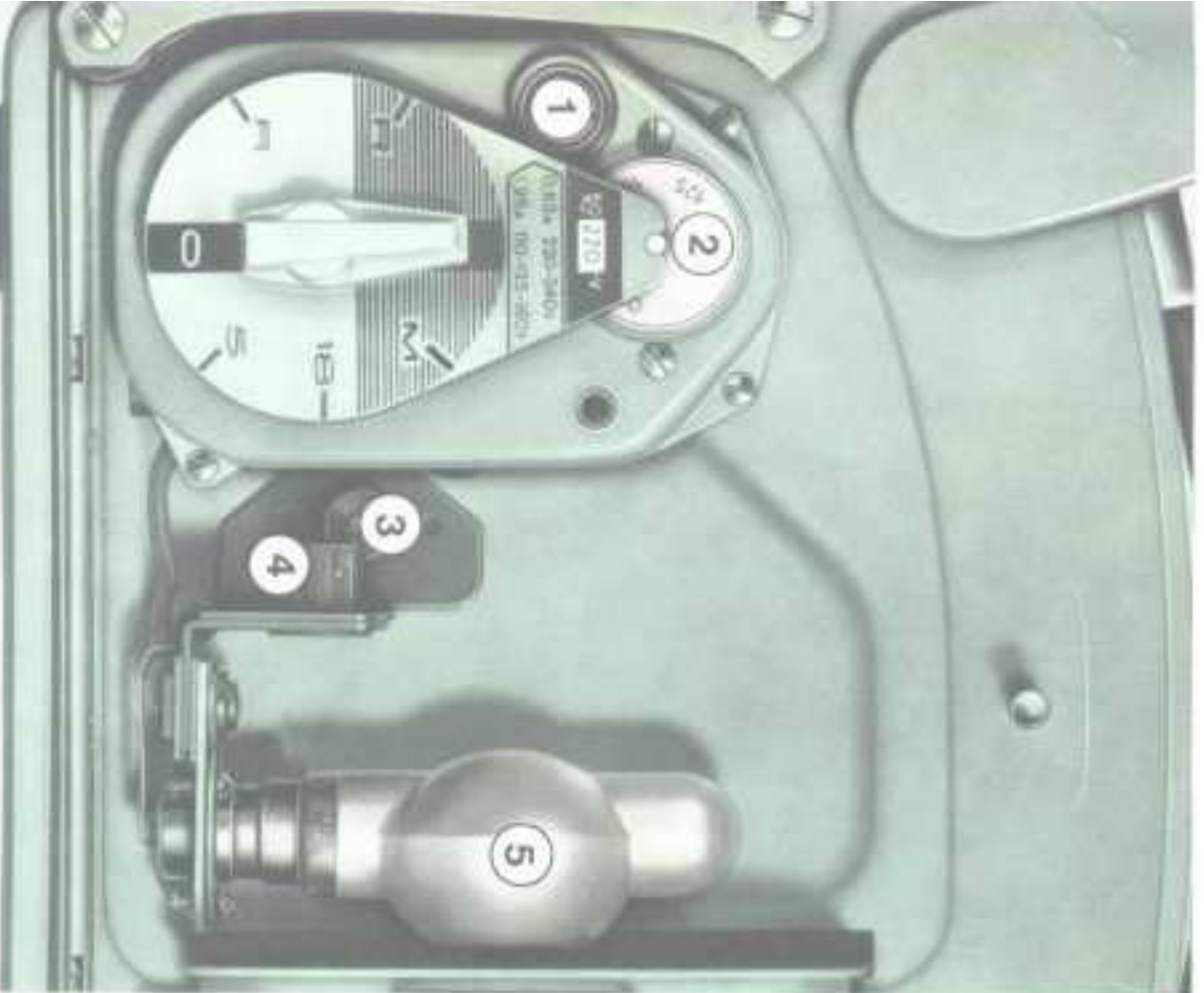


Only Super-8 film can be used in your Bolex 18-5 Super projector. This film is supplied on spools which have a larger center hole than normal 8 mm spools.



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 and threading switch
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.



There are two versions of the Bolex 18-5 Super projector.

**1st version**

For 50 cycles AC current.

Voltage selector for 110 - 125 - 160 - 220 - 240 V.

**2nd version**

For 60 cycles AC current.

Voltage selector for 110 - 117.5 - 125 V.

1. Fuse
2. Voltage selector
3. Control for vertical centering of lamp
4. Control for horizontal centering of lamp
5. Lamp

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

Approximate picture sizes at varying screen distances:

Distances	Lenses			
	15 mm	20 mm	25 mm	35 mm
8 ft.	34 × 25°	25 × 19°	20 × 15°	—
10 ft.	42 × 32°	32 × 24°	25 × 19°	18 × 13°
15 ft.	64 × 48°	48 × 36°	38 × 29°	27 × 20°
20 ft.	85 × 64°	64 × 48°	51 × 38°	36 × 27°
25 ft.	107 × 80°	80 × 60°	64 × 48°	45 × 34°
30 ft.	128 × 96°	96 × 72°	77 × 58°	55 × 41°
40 ft.	—	128 × 96°	102 × 77°	73 × 55°
50 ft.	—	—	128 × 96°	91 × 69°

For optimum viewing conditions it is recommended that the audience should not be seated closer to the screen than 2½ times the width of the projected picture — and preferably in front of the projector.

## Setting up the projector

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.**

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,



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

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.



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

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, the fuse should be 1.25 Amp. For higher voltages, it should be 0.63 Amp. A spare fuse is attached to the lamp house cover. Then replace the lamp house cover.

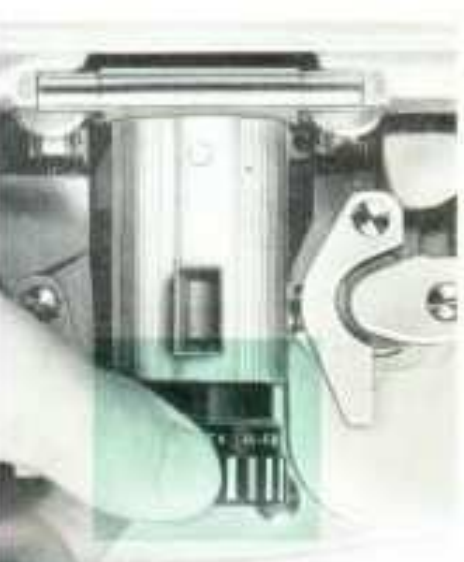
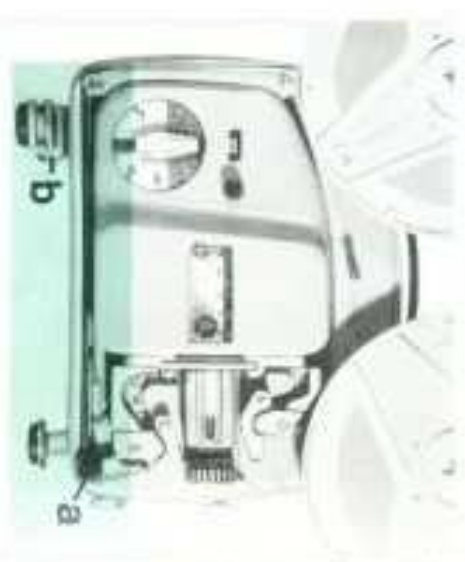


## Before threading the film

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).
4. Turn the lens by its front ring to obtain a sharp outline of the illuminated area on the screen.

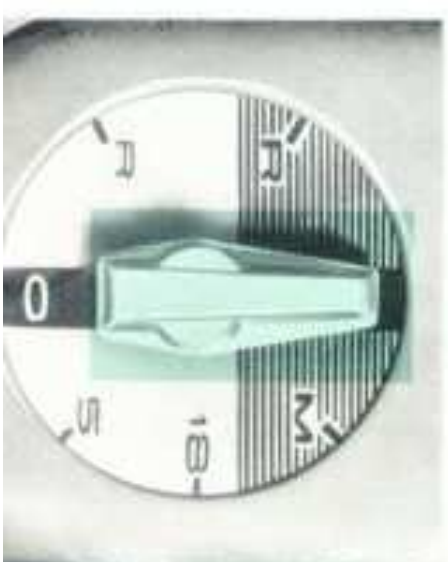


2. Use the short lead for connection to a room or table lamp which will then be switched off automatically when the projector lamp is on. (Room lamp must not exceed 70 watts).
5. Adjust the height control (a) and the levelling control (b) if necessary.



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

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.
4. Insert the leading end of the film into the slot in the upper sprocket shoe.



2. The film should feed from the front of the spool with the perforated edge on the outside.
5. Press the upper loop former switch. This starts the mechanism and the film is automatically fed through the gate and the sprockets. As soon as the leading end of the film has passed through the lower sprocket, stop pressing the switch.

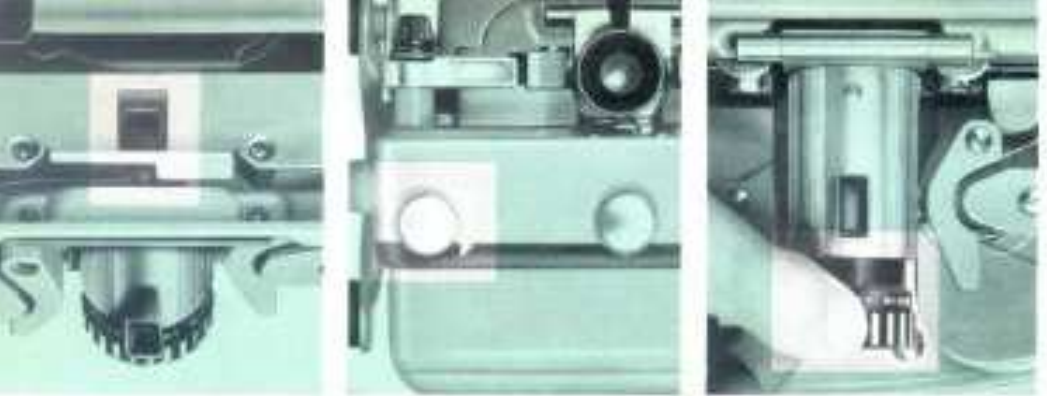


3. If the leading end of the film is bent sharply, try to straighten it. However, in case this is not possible, or the film is even damaged, cut it off between two perforation holes by means of the film cutter stored in the front cover.
6. Start the projector in the forward direction and switch on the lamp. Projection starts and the film is automatically attached to the take-up spool.



## Projection

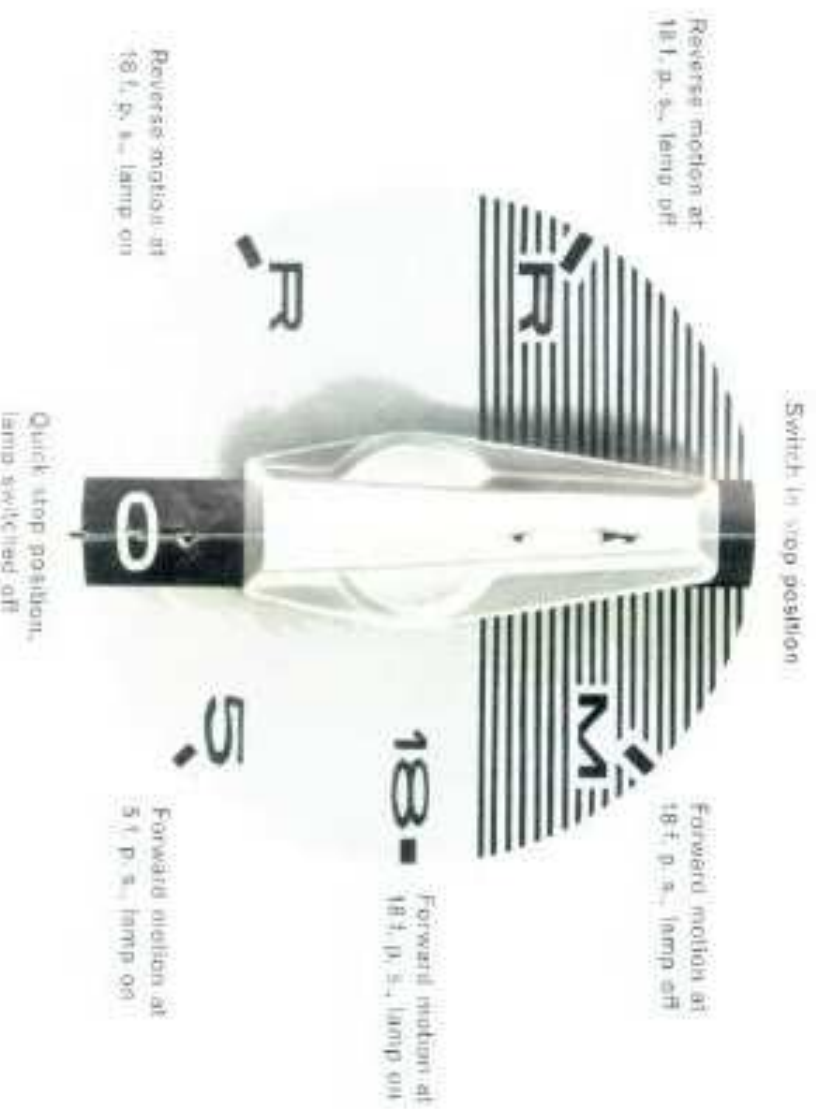
1. Focus the picture on the screen by turning the front ring of the lens.



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 readily carried out at 5 f.p.s.

3. The cathartone filter projects the film frame excessively, meeting without reducing light in any appreciable manner.



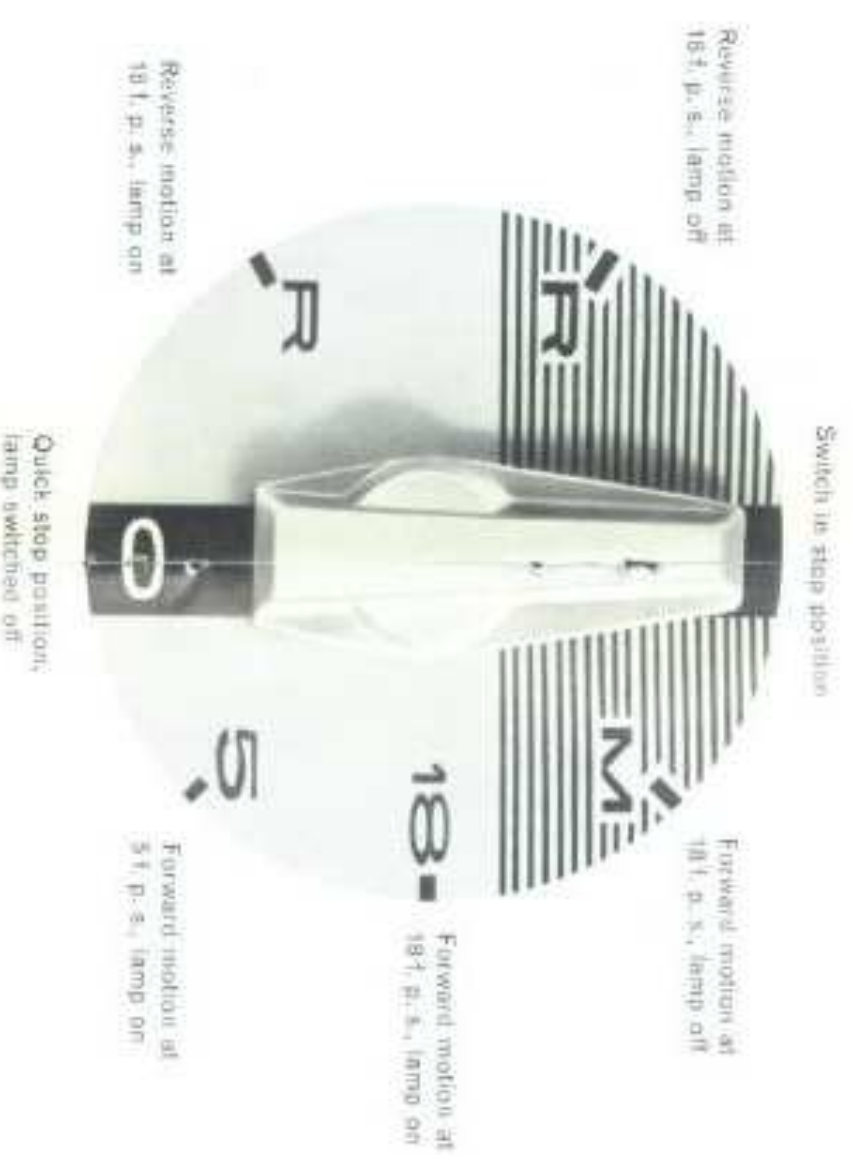


## Rewinding the film

1. Insert the end of the film into the slot in the core of 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.



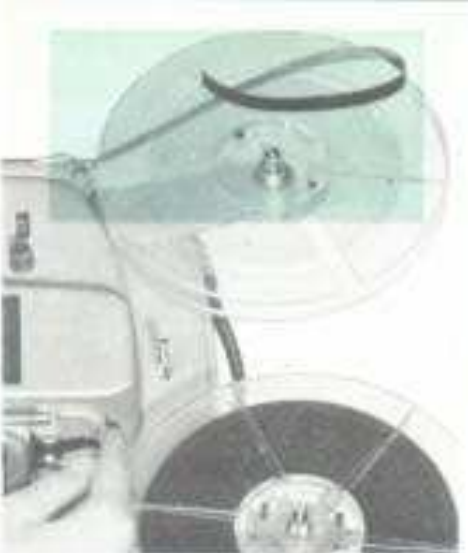
## Special instructions

### Use of an ordinary take-up spool

1. Start the threading operation as usual by inserting the leading end of the film into the slot in the upper sprocket shoe and pressing the upper loop former.

### 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.



2. Continue pressing until about 1 ft. of film has passed out of the end of the film-guiding channel at the rear of the projector.

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



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.

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

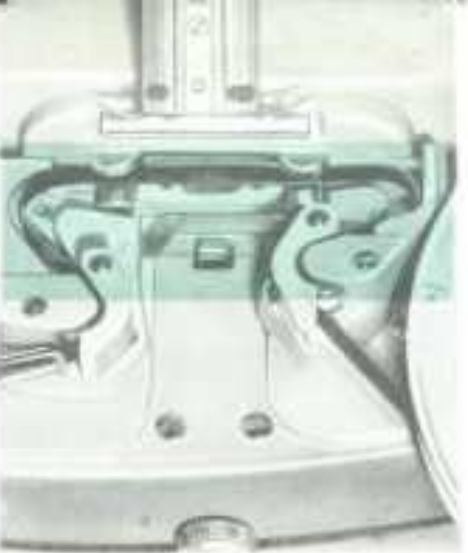


## Manual threading

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.

1. 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.

2. The lens should be cleaned with a fine, soft brush, or with special tissues sold by photographic dealers. 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%.

### Replacement of projector lamp

(Standard equipment: 8 Volt, 50 Watt condenser mirror lamp, with flat front side, Philips Type 13120 C/04).

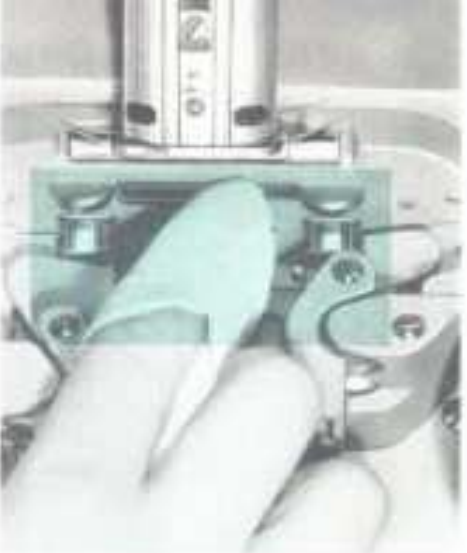
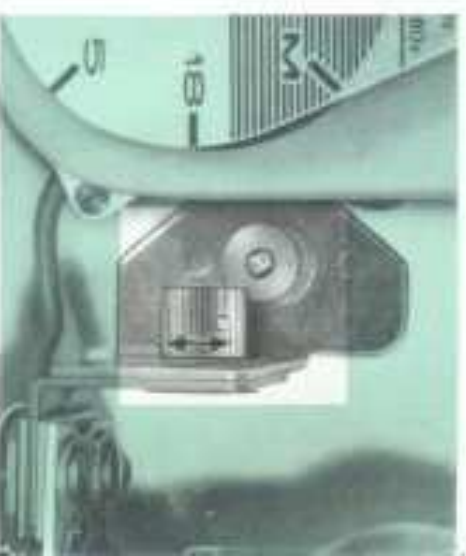
3. Remove the old lamp.

4. 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.

5. Horizontal centering:



5. Vertical centering.



**Optical equipment**

Three Paillard-Bolex lenses are available for your projector. All of them have a relative aperture of  $f/1.3$  and bear the registered name « Hi-Fi » — which signifies high fidelity in the sharpness and colors of the image. Their focal lengths are 15 mm, 20 mm and 25 mm respectively. In addition, a 35 mm SOM-Berthiot  $f/1.3$  lens is available for projection in larger rooms. This lens has to be removed from the lens holder before the front cover can be replaced.

### **Adding sound to your films**

The reasonably quiet operation of the Bolex 18-5 Super makes it particularly suitable for sound synchronisation. The Bolex Synchroniser 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.

