SUPER 8 ADAPTER
KEYS FOR REGULAR 8
KEYS FOR SUPER 8

CHECKING BEFORE OPERATION (#1)

Raise the take-up arm (6) and supply reel arm (17) towards the arrow until they stop (#1).

CHECK THE OPERATIONAL VOLTAGE SHOWN ON THE PLATE UNDERNEATH THE STAND (9).

Press the OFF button (3) and insert the cord into the power supply cord socket (25) and then the other end of the lead into the power source.

Press the FORWARD button (2) and then the LAMP button (1).

After assuring that both operate correctly, press the OFF button.

CHANGE-OVER OF SUPER 8 & REGULAR 8 (#2 & 3)

Before threading the film, check the type of the film to be projected. For Super 8, press down the selector knob (23) and then the film-type indicator (11) on the front cover (10) will indicate SUPER automatically. This single action will set the projector ready to thread Super 8 film.

For Regular 8, raise the selector knob, and remove the Super 8 adapter (16). The supply reel spindle (15) is designed to accept reels of both Super 8 and Regular 8, but a removable Super 8 adapter is additionally attached to the spindle.

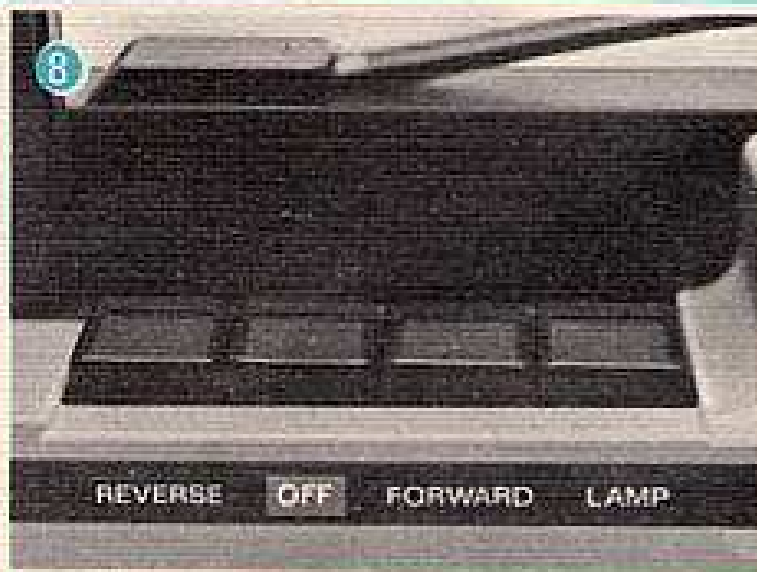## AUTO-THREADING OF FILM (#4, 5, 6, & 7)

Mount the supplied empty 400 ft. auto-reel on the take-up spindle (5), and a reel of film on the supply reel spindle. Be sure that the perforated edge of the film is towards you, and the keys of the spindle snap into the slots in the reel. Fold the clip over (#4).

Trim the end of the film using the film cutter (8) with one perforation over the small pin (#5).

Press the FORWARD button to start the motor and then insert the trimmed end of the film into the film gate (#6).

DST & IQDST: The built-in auto looper will correctly form and size the loop. Only when the loop slips during projection, press down "F" side of the loop former (14).

OTHER MODELS : As soon as the end of the film engages with the lower sprocket, press down "F" side of the loop former and release it immediately (#7). If the lower film loop is lost, fluttering of the pictures will occur. In such case, repeat depressing the loop former until the picture becomes steady again.

REVERSE | OFF | FORWARD | LAMP

SWITCH (♯8)

A fool-proof push button system is adopted in order of REVERSE, OFF, FORWARD and LAMP (♯8). This system is so designed to permit the pressing of either FORWARD or REVERSE at any one time and then LAMP. The buttons will be restored to their original positions when the OFF button is pressed.

PROJECTION LENS (♯9)

For zooming, ROTATE the ring (for LV models with f/1.5 20-32mm lens, SLIDE the lens-barrel back and forth) until a suitable size picture is obtained, and then rotate the focusing knob (19) to make the picture on the screen sharp and clear.

The running speed can be adjusted by turning the speed control (7) in either direction. By turning the speed control in the direction of "F", it will increase the speed while turning towards "S" will reduce the speed. The standard running speed is 18 frames per second for Super 8 and 16 frames for Regular 8, but this may be adjusted to the natural action speed of the picture projected.

If a film frame line appears in the picture during projection, rotate the framing knob (13) until the picture is properly centered on the screen.

ELEVATION DEVICE

Place the projector on a table of suitable height so that the projection lens is opposite the center of the screen.

When the image area is not centered vertically on the screen, rotate the elevation wheel (21) in either direction.

When repetition of a portion of the film or reverse projection is desired, press the OFF button, and then the REVERSE (4) and LAMP buttons.

When an unusual rattling noise or fluttering of the pictures occurs, press down "R" side of the loop former. This is to form the upper film loop properly.

RAPID REWINDING (#13)

Attach the end of the film directly to the empty reel on the supply reel spindle and give the reel at least one turn counterclockwise. Press the REVERSE button. For rapid rewinding turn the speed control fully in the "F" direction. Number 13 shows the projector ready for rapid rewinding.

STILL PROJECTON (#14)
(ZRS, DST, IQZRS, & IQDST)

Press the still button (22) fully down for "still projection". Still projection should not be continued for more than 50 seconds for any single frame. Still projection is available during all modes of projection.
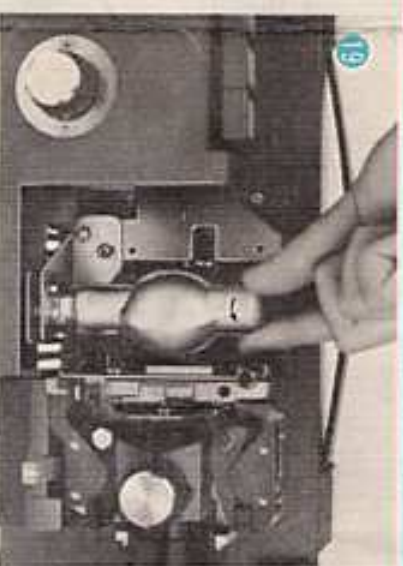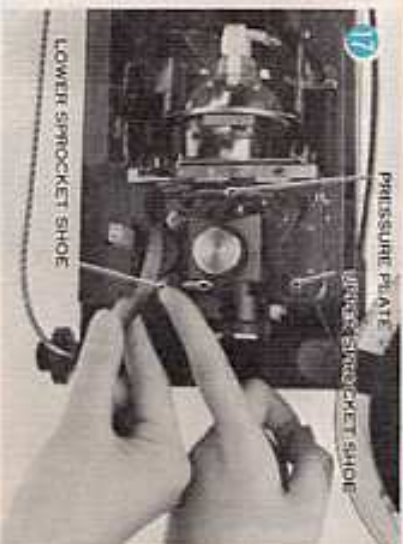
DST & IQDST: After still projection, RELEASE the button and it will return to its original position.

ZRS & IQZRS: After still projection, LIFT the button back fully to its original position.

SLOW & STEP MOTION PROJECTION (#15) (DST & IQDST)

For normal projection, be sure that the tri-motion lever (20) is set at "NORMAL". For slow and step motion projection, move the lever to SLOW or STEP. The 18 fps film speed will be reduced to 6 fps in the position of SLOW and 2 fps in the position of STEP. These SLOW and STEP motion speeds operate even during reverse projection.
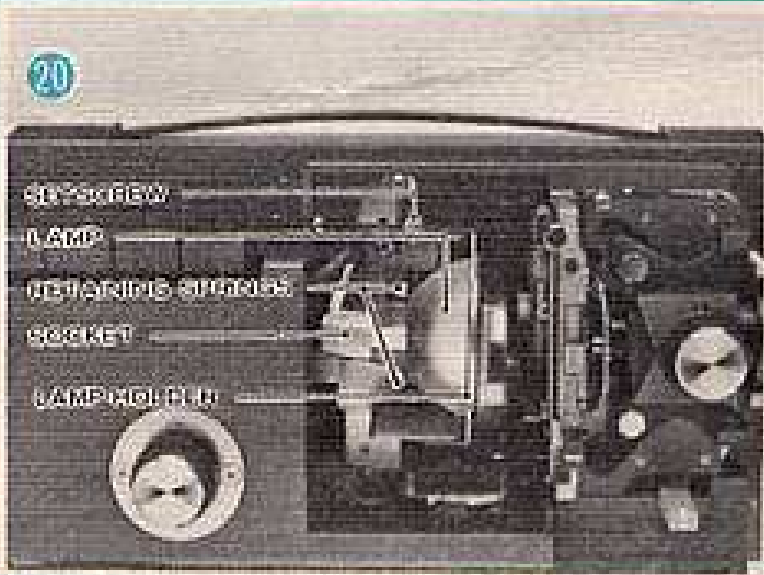
PRESSURE PLATE
UPPER SPROCKET SHOE
LOWER SPROCKET SHOE

REMOVAL OF FILM (#16 & 17)

If either the upper loop or the lower loop fails to keep the proper size constantly, the film will not run smoothly. For such a case, press down "R" or "F" of the loop former so that both loops may be made even. In the event of further trouble, press the OFF button immediately and clear the film from the auto-threading mechanism.

1. Remove the front cover (10) by pulling it straight towards you (#18).
2. Remove the film channel by pulling towards you (#16).
3. Lift the lower sprocket shoe knob and take out the film (#16).
4. Press down the loop former. While holding back the pressure plate, twist the film gently to the right and then pull it out.
5. Press down the upper sprocket shoe knob and remove the film.

REPLACEMENT OF LOW VOLTAGE LAMP FOR LV MODELS (#18 & 19)

Press the OFF button and disconnect the AC power source. Remove the front cover by pulling it straight towards you (#18). The lamp can be lifted out by pressing lightly on the upper part of the lamp and turning it slightly to the left (#19). When placing the new lamp reverse the above procedure.

Labels in photo 20: SET-SCREW, LAMP, RETAINING SPRINGS, SOCKET, LAMP-HOLDER
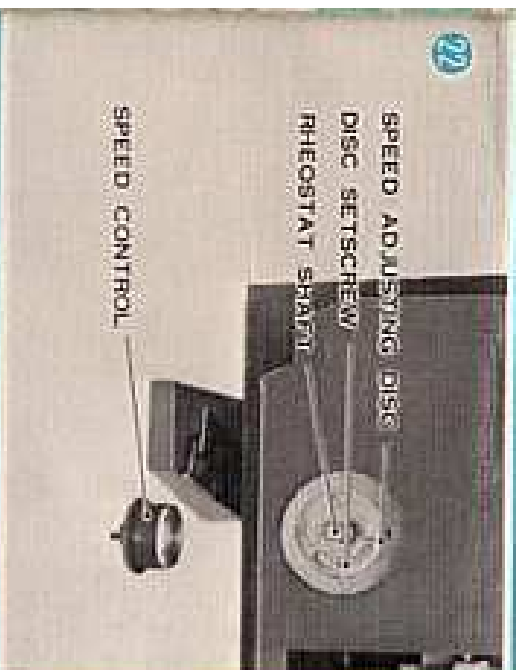
Labels in photo 21: REFERENCE KEY, RECESS

REPLACEMENT OF IQ LAMP FOR IQ MODELS (#20 & 21)

Press the OFF button, disconnect the AC power source and remove the front cover (#18). These models have a base suitable for the Philips halogen lamp 12V 100W or its equivalents readily available everywhere.

To fit the lamp, plug the two pins of the lamp into the socket, and insert the lamp by guiding the reference key into the recess at the bottom of the lamp-holder. When the lamp is not aligned with the optical axis, adjust the lamp-holder sideways.
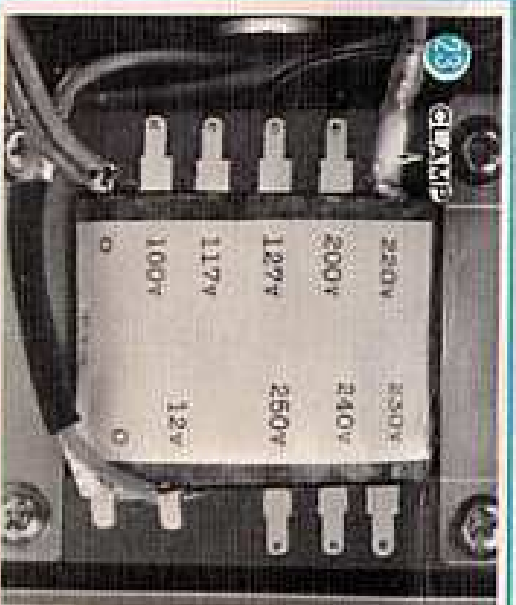
When taking out a lamp, make sure it is completely cooled by running the fan with LAMP button turned off. After cooling, switch off and disconnect the projector from the mains. Push back the socket and retaining springs. The lamp will disengage from the recess of the lamp-holder. Remove the lamp from the retaining springs. Unplug the pins from the socket.

SPEED ADJUSTING DISC
DISC SETSCREW
RHEOSTAT SHAFT

SPEED CONTROL

If the speed is too slow or fast even when the speed control is turned fully to "F" or "S", disconnect the machine from the AC supply. Remove the speed control by loosening the setscrew. Loosen the setscrew on the SPEED ADJUSTING DISC and turn the RHEOSTAT SHAFT or the SPEED ADJUSTING DISC clockwise to increase the speed or counter-clockwise to decrease the speed and then tighten the DISC SETSCREW when the proper speed is obtained. Speed adjustment can also be made simply by changing the position of the setscrew of the speed control itself (#22).

VOLTAGE (#23)

CLAMP

250V 350V
200V 240V
127V 250V
117V
100V 12V
0   0

This projector may be operated on all voltages from 100V to 250V and is set at factory for the voltage shown on the plate underneath the stand (9). If it is necessary to change the working voltage, remove the back cover (26) and shift the clamp to the appropriate voltage tap.

REGULAR MAINTENANCE (#24)

Before projection, clean the auto-aperture plate and the pressure plate with the soft brush supplied. Other main components should also be cleaned and lubricated periodically. To remove the lens, pull it straight out while pulling the focusing knob towards you. First blow any dust particles from the lens surfaces and then gently remove further dirt with a soft lens tissue. To replace the lens, align the slot on the lens barrel with the center of the focusing knob. It is unnecessary to line up with the slot in case of LV models. While pulling the focusing knob towards you, insert the lens fully back into the housing until it locks into position.
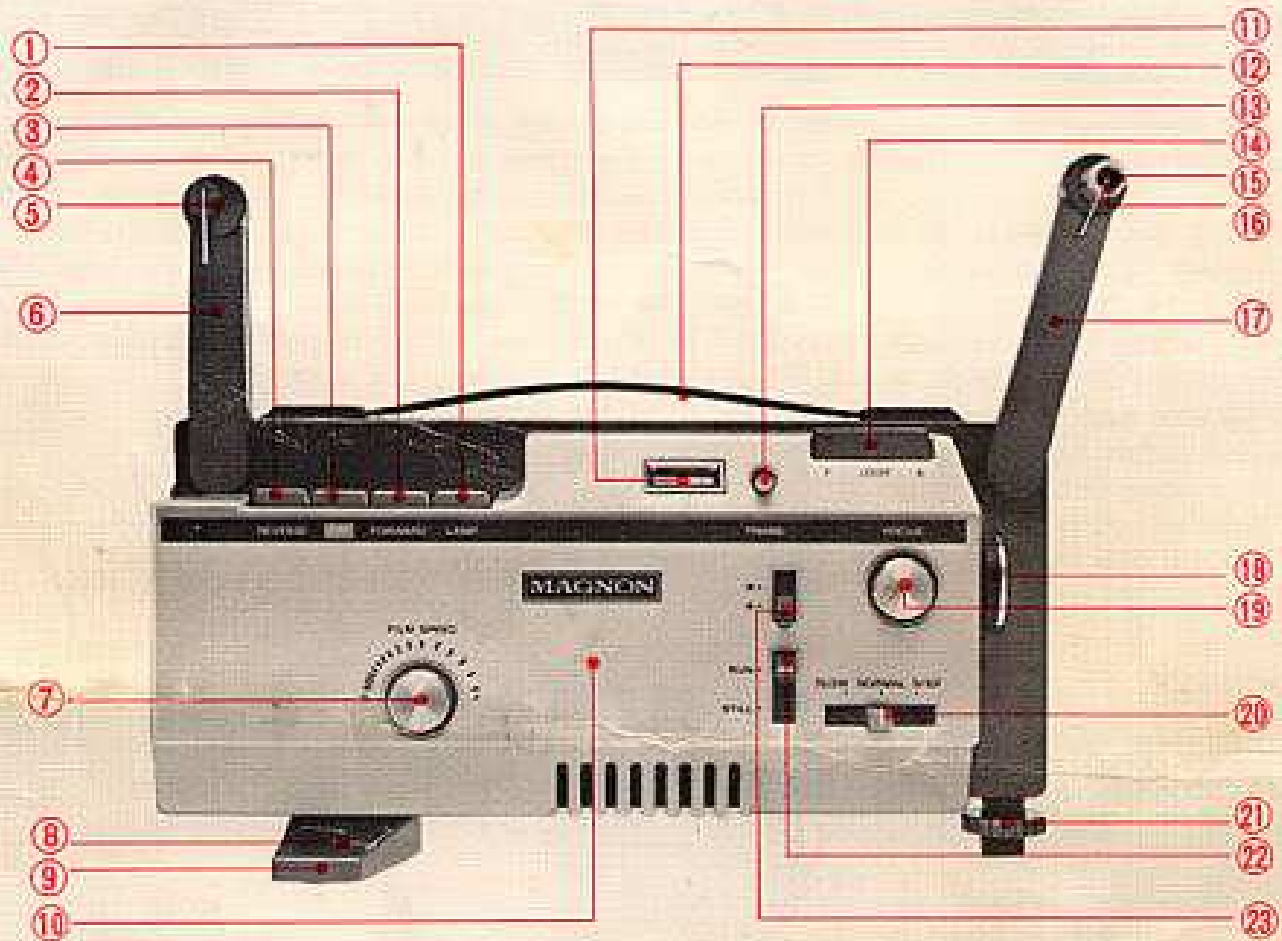
MAGNON 800

Instdual

COMPACT 8mm DUAL MOVIE PROJECTOR WITH MULTI-PROJECTION

1. Lamp Button
2. Forward Button
3. Off Button
4. Reverse Button
5. Take-up Spindle
6. Take-up Arm
7. Speed Control

8. Film Cutter
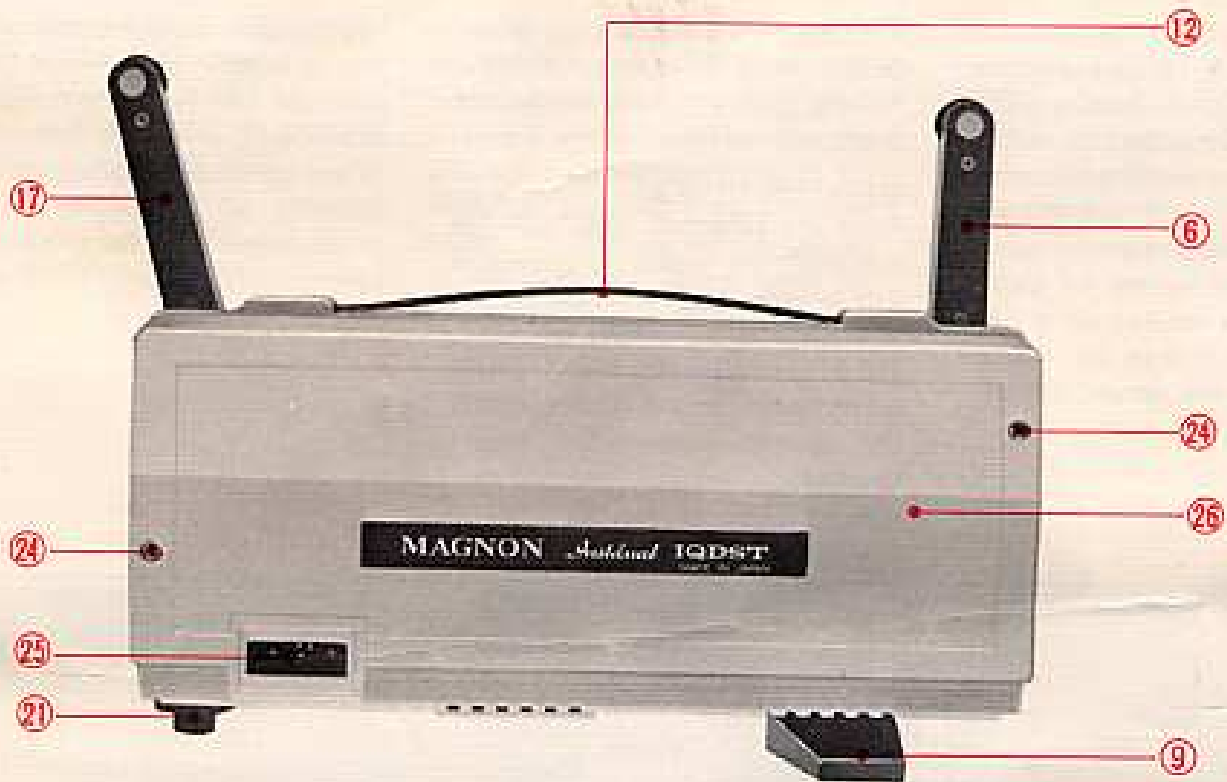9. Stand
10. Front Cover
11. Film-type Indicator
12. Grip
13. Framing Knob
14. Loop Former

15. Supply Reel Spindle

16. Super 8 Adapter

17. Supply Reel Arm

18. Projection Lens

19. Focusing Knob

20. Tri-motion Lever

21. Elevation Wheel

22. Still Button

23. Selector Knob

24. Back Cover Setscrew

25. Power Supply Cord Socket

26. Back Cover

SPECIFICATIONS OF MAGNON 800 *Instdual* 8mm MOVIE PROJECTORS

SERIES	IQ SERIES		LV SERIES		
MODELS	IQDST	IQZRS	DST	ZRS	ZR
Instant changeover w/double toothed sprocket	Yes	Yes	Yes	Yes	Yes
Automatic reel-to-reel threading	Yes	Yes	Yes	Yes	Yes
Manual loop former	Yes	Yes	Yes	Yes	Yes
Built-in automatic loop former	Yes	—	Yes	—	—
Reverse projection	Yes	Yes	Yes	Yes	Yes
Still projection	Yes	Yes	Yes	Yes	—
2 fps step & 6 fps slow motion	Yes	—	Yes	—	—
Projection lens	f/1.2 15.5-30mm	f/1.3 15 - 25mm	f/1.5 20 - 32mm		
Lamp	12V 100W IQ lamp		8V 50W LV lamp		
Variable speed control	12 - 22 fps.				
Transformer	100 - 250V				
Reel capacity	400 ft.				