EMO

ELMO CO., LTD.

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8mm DUAL PROJECTOR

Open this flap of your instruction booklet

assure success at your very first show. new Elmo FP-H projector.Familiarity with these parts will This will allow quick reference to the working parts of your Keep this flap open as you read through the instructions.

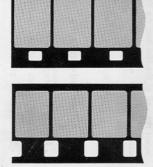
Contents

whichever type of film you are projecting. 8mm film. Before using it, be sure it is adjusted to accept Your Elmo FP-H will accommodate both Super 8 and regular Important

for smooth, brilliant projection of either type film. changeover mechanism of the Dual-8 will position the projector it is not followed, serious damage to the film will result. differently than in ordinary 8mm film. The push-button the sprocket holes smaller, and by positioning the perforations projector is illustrated by these two drawings. When compared larger in picture frame area. This is accomplished by making with ordinary type 8 mm film, Super 8 is approximately 50% The reason for the selective sprocket system of the Dual-8 The procedure, which is described on page 8, is simple. If

Super-8 film

Ordinary film







Features

Two projectors in one

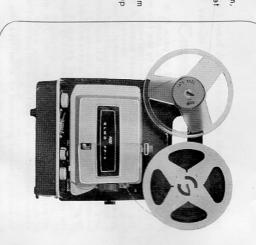
Super 8 films with the Elmo single-action Selective Sprocket You can enjoy instant movie projection of ordinary 8 mm,

Fully automatic film-threading

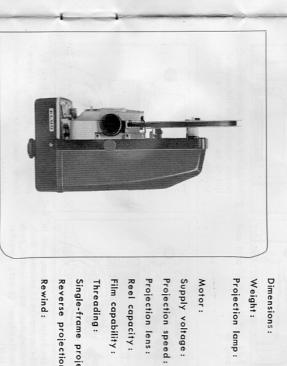
reel. will be threaded automatically and carried to the takeup Insert the end of the film into the threading slot, and the film

ω Other advantages

- Reverse and single frame projections
- Adjusted speeds and fast rewinding
- Sharp brilliant pictures



Specifications



Weight: Dimensions:

DFG type

120v, 150W, with built-in reflector.

5.8kg 12.8 pounds

 $10''\times13''\times7''~25\times33\times18.5cm$

Series motor

Supply voltage: 115v-120v, 50/60cycle

Projection lens: F1.3, 20mm

variable from 12 to 24 frames/second

Reel capacity: 400 feet

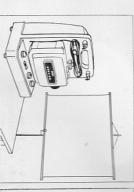
Threading: Film capability: automatic to takeup reel Super 8 or regular 8mm

Single-frame projection: yes

Reverse projection: yes

automatic, high speed

Condensed operating instructions

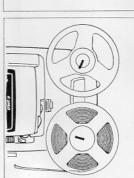


Place the projector on a stand or table at a suitable distance from the screen.



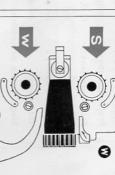
plug in . Take out the power cord and

ω



Attach the Auto Reel to the rear takeup spindle and the reel of film to be shown to the front

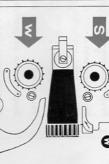
spindle.



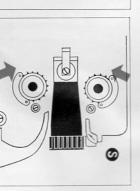
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4-A Open the lamp house cover, and 4 open both sprocket shoes by means of the orange release knobs; pull up on the upper knob and push down on the lower knob.

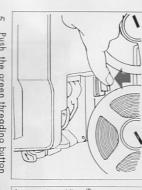
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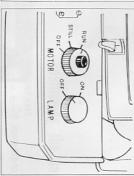
4-B B For Super 8 projection, push in 4 the upper (red) sprocket shaft. For regular 8mm projection, push in the lower (black) sprocket shaft.



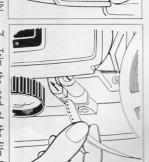
4-C Close the sprocket shoes by knobs back in to their original positions. pushing the orange release



Push the green threading button 0



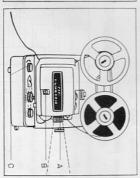
Turn the motor switch to RUN.



7 Trim the end of the film leader with the film cutter (see page 9) and insert the end of the film leader into the threading slot.



 ∞ After the film has been carried switch to ON. to the take-up reel, turn the lamp

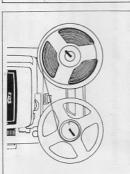


9 Adjust the following, if necessary.

A. Focus (by turning the lens)

B. Framing(with the framing lever)

C. Projection speed (with the speed control)



10 When the complete roll of film film (see page 13) has been projected, rewind the

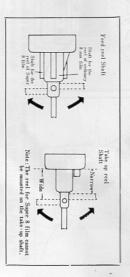
Preparing for projection

Setting up the projector

outlet (the other end is permanently fitted to the Plug the power supply cord into a convenient AC

it into place by flipping down the plastic reel latch put it on the rear spindle of the projector; lock Take the take-up reel from the carton case and





Positioning the selective sprocket system

IMPORTANT

of the projector into the proper position for the film you Before doing anything else, set the selective sprocket system will be projecting:

front (projection lens) edge. 1. Open the lamp house cover by pulling it outward from the

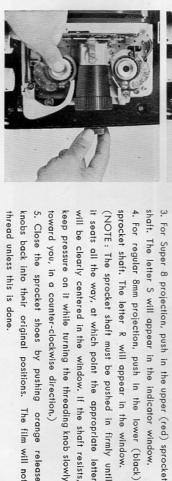
2. Open both sprocket shoes by means of the orange on the lower knob. release knobs; pull up on the upper knob and push down

shaft. The letter S will appear in the indicator window. 3. For Super 8 projection, push in the upper (red) sprocket

it seats all the way, at which point the appropriate letter sprocket shaft. The letter R will appear in the window. (NOTE: The sprocket shaft must be pushed in firmly until 4. For regular 8mm projection, push in the lower (black)

5. Close the sprocket shoes by pushing orange release toward you, in a counter-clockwise direction.) keep pressure on it while turning the threading knob slowly

thread unless this is done. knobs back into their original positions. The film will not



Threading the film

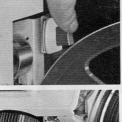
leader or film should be trimmed with the film cutter To insure smooth, automatic threading, the end of

automatic threading system. Push the green threading button down to position the

of the film into the threading slot identified by the now be threaded automatically and carried to the red arrow above the projection lens. The film will Turn the motor switch to RUN and insert the end

Then turn the lamp switch to ON.







Threading button

If any one of the following cases happens, release the threading button in the below mentioned manner;

- · When you depress the threading button by mistake.
- · Before inserting the film into the threading slot, you want to release the threading button.

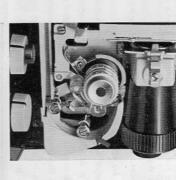
The threading button can be released in the following method:

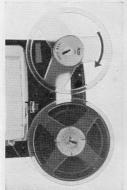
When film is not threaded;

in the direction indicated by the arrow. Open the lamp house cover and press the the roller

2) After the film has been threaded;

done just in the same manner as the above 1). threading button will be released, but it can also be natural force in the direction of the arrow and the Give the film tension by rotating the takeup reel with





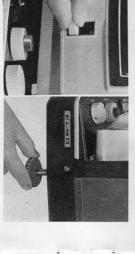
Projection

When the projected image appears on the screen, check the following points:

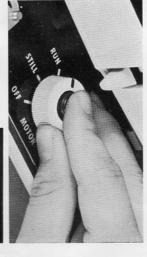
- 1. Focus. Is the image sharp? If not, bring it into focus by turning the lens
- 2. Image Stability. Is the picture smooth and steady, or does it flicker? If it does, adjust the speed control knob until the image is satisfactory. If the film loop provided by the automatic threading system is lost during projection due to an improper splice or other reason, it can be instatly restored

by pushing down on the loop setter. Loss of the loop results in a "jumpy," improperly framed picture accompanied by noisy projection.

- 3. Framing. Is the entire frame properly projected, without showing a frame line? If not, move the framing lever up or down to correct.
- Image Alignment. If the projected image is not centered vertically on the screen, turn the filling knob until it is properly aligned.



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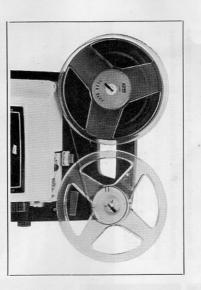
Reverse projection

The projector may be put into reverse operation at any time during projection by following this procedure:

- 1. Turn off the motor.
- 2. Depress the reverse button and, while holding it down, turn the motor switch knob to RUN.
- After completing reverse projection, turn the motor switch to OFF before resuming normal forward projection.

Single frame still projection

During projection, you may wish to stop the movie to show a single frame. This may be done by turning the motor switch to STILL. Sometimes the film will stop in the middle of a frame, or even when the aperture is closed. When this happens, simply turn the threading knob until the full frame is projected on the screen. Since the Elmo FP-H projector has an excellent cooling system, prolonged still projection is possible without harming the film.



After the film has been projected and wound completely on the takeup reel, turn off the lamp and motor, in that order. Because the lamp is adequately cooled during projection, there is no need to leave the motor running for a period of time after the lamp has been turned off.

Rewinding the film

To wind the film back on the supply reel:

- 1. Insert the end of the film into the slot of the \mbox{supply} reel hub.
- 2. Turn the speed control knob to high position.
- 3. Push down the reverse button in the center of the motor switch and turn the switch to RUN.

 The film will be rewound at high speed.

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1. Projector not operate

Check-belt is not broken.

2. Film not transported

Check-sprocket shaft pushed home set for correct film.
end of film correctly cut.
film path is unobstructed.

3. Film not taken up automatically

Check-first film perforation is not damaged. film is not curled.

4. No image on the screen

Check-projection lamp properly seated. projection lamp not blown... lamp switch is on.

5. Image jitters and unusual noises

Check-loops not lost (depress loop setter) film properly spliced.

perforations not damaged.

operating condition. With proper care, it will give you a lifetime of trouble-free service. Follow the simple procedures described on this page and page 16, ō keep your projector in top

Maintenance

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the

projector

Cleaning

Pressure plate

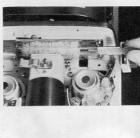
pressure plate holder out. Wipe it gently with a Depress the leaf spring until it points downwards soft cloth and replace it. while slightly pulling the end of it. Then, pull the

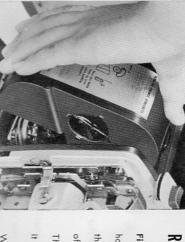
until it stops and then pulling it. Wipe front and Remove the projection lens by turning it clockwise touch it with the fingers. rear surface gently with a soft cloth or soft brush. lens in the reverse order. excessive rubbing of the glass and do not Replace the projection

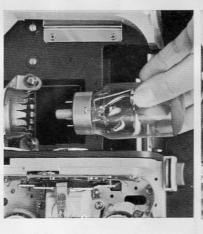
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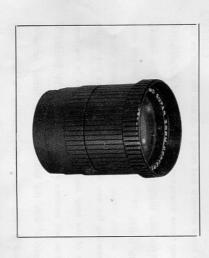




Replacing the projection lamp

of the lamp house disengages from the catch of the projector. it from its socket. Then pull the lamp straight up (without turning it) to remove the lamp house outward and swing it up until the hook on top house cover. To remove the lamp house, pull the bottom of First unplug the power cord. Then swing open the lamp

in the socket with the built-in reflector facing forward, socket. You will position the lamp correctly by placing it use too much pressure—just enough to seat it properly. toward the projection lens. When inserting the lamp, don't four pins of the lamp base with the four holes in the lamp When inserting the new lamp (type DFG) first line up the



Elmo Super Zoom Converter $\times 0.8 \sim 1.25$

By attaching the Zoom Converter, you may vary the size of the image of the screen without changing the projector-to-screen distance.

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