

OWNER'S INSTRUCTION MANUAL

16mm Sound Projector

SUPER SLIM SLOT LOAD

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When the show must go on.

SUPER SLIM SLOT LOAD

морек	OPTICAL	SOUND	COVER SPE.	LAMP TYPE	HI-LO LAVE SWITCH	CONTROL	POWER.	WEIGHT.	WEIGHT	SIZE	INCHES	SIZE.	WW
est-o	×			ELC/EJL 263W/24V	×	electronic pudi button	25W	31.5	14.2	14,48	11.8x8.5	365 X	2004200
ESU!	×		×	- "	×	-	144	33.3	15.1	14.4%	11.889,3	355X	300+203
ESL 2	×	×.	× .	39.	×	_	144	No.				-14	
SSLO	×			390	×	BOTARY SWITCH	250%	29.1	13.2	14.4X	11,2 × 0.1	365X	300×205
SSL-1	×		×	(1) (N)	×	400		32.7	14.6	14.4×	11.8×9.3	365×	3008235
551.2	×	×	×	S 100	×		100	100	- 3	1.2		100	-50
55L-0L	×			EYK/EWG 300W120V		100	15W	24.5	11.1	14.6%	11,868.1	108X	200×206

Simple Operation Easy Maintenance Trouble-Free Use

This Operator's Manual is easy to read, informative and helpful.

Please read it carefully. Before you try it your way, please try it our way.

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IMPORTANT SAFEGUARDS

When using your EIKI 16mm projector, basic safety precautions should always be followed, including the following:

- 1. Read and understand all instructions.
- Close supervision is necessary when any equipment is used by or near children. Do not leave projector unattended while in use.
- Care must be taken as burns can occur when changing lamp.
 Use lamp ejection lever provided to avoid possibility of burns from a hot lamp.
- Do not operate projector with a damaged cord or if projector it has been dropped or damaged — until it has been examined by a qualified service technician.
- Do not let the cord hang over edge of the table or counter or touch hot surfaces.
- 6. If an extension cord is necessary, a cord with a suitable current rating should be used. Cords rated for less amperage than the projector may overheat. Care should be taken to arrange the cord so that is will not be tripped over or pulled.
- Always unplug projector from electrical outlet when not in use. Never yank cord to pull plug from outlet. Grasp plug and pull to disconnect.
- 8. Let projector cool completely before putting away. Return cord to cord storage space provided when storing projector.
- 9. To protect against electrical shock hazards, do not operate this projector in the rain or when wet.

IMPORTANT SAFEGUARDS (cont'd)

- 10. To avoid electric shock hazard, do not disassemble this projector, but refer to a qualified service technician when service or repair work is required. Improper repairs or reassembly can cause electric shock hazard when the projector is used subsequently.
- 11. Do not remove lamphouse cover when projector motor is running.
- 12. Observe the caution plate on rear cover "DISCONNECT POWER SUPPLY BEFORE OPENING".
- 13. Do not look directly at an operating lamp with unprotected eyes.
- 14. Observe the caution plate inside of lamphouseing. "DISCONNECT POWER BEFORE REPLACING LAMPS".

SAVE THESE INSTRUCTIONS

SPECIFICATIONS

Power Requirement: Models available from 100 to 240VAC 50 or

60Hz

Power Consumption: 430 to 470 watts

Lamp: ESL/SSL models use ELC, 250 watt 24 volt

lamps

SSL-OL models use EYK or EWG, 300 watt

120 volt lamps

Hi-Low Lamp Switch: All models except SSL-OL Exciter Lamp: 4 volt 0.75 amp type BRK

Exciter Lamp: 4 volt 0.75 amp type BRK

Lens: 50mm (2") F, 1.2 6 element 160 lines center

resolution standard

Film Speed: 24 frames/second standard sound speed

Shutter: 2 or 3 blade optional

Reel Capacity: 2000' (600m)

Controls: Rotary switch models SSL- and SSL-OL,

electronic touch control model ESL

Still Picture: All models except SSL-OL

Amplifier: All solid state

Power Output: 25 watts RMS, 8 ohm load, models ESL &

SSL 15 watts RMS, 8 ohm load, model SSL-

OL

Tone Controls: Bass and Treble

Frequency Response: 50 – 7000Hz

Aux Line Out: 600 ohm un-balance, all models except SSL-

OL

Microphone Input: Low impedance, un-balanced

Speakers: 10 x 15cm (4 x 6") built in rear cover speaker.

2, 12.5cm (5") speakers in front cover on

optional models

Wow & Flutter: Better than 0.2% weighted

Elevation. 13° maximum

Operating Temperature

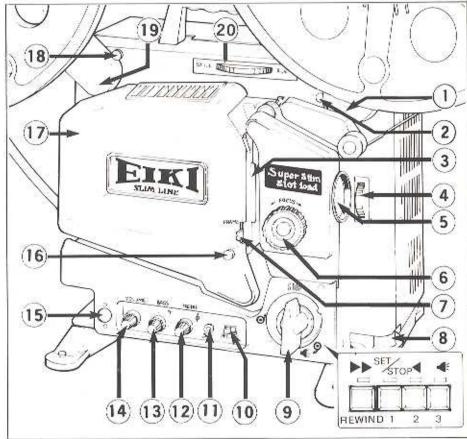
and Humidity: +5°C to +40°C

20% to 90%

Weight: (25 to 33 lbs)

11 to 15kg

MAIN PARTS OF THE PROJECTOR

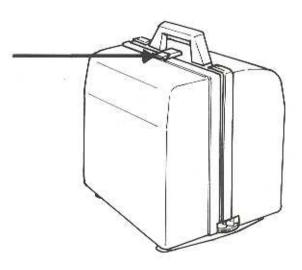


- 1. Supply arm
- 2. Supply arm lock button
- 3. Film gate
- 4. Inching knob
- 5. Lens
- 6. Focus knob
- 7. Framing lever
- 8. Elevator knob
- 9. Function switch (SSL-MODELS)
- Optical/Magnetic playback selector switch (TYPE 2 ONLY)
- 11, P.A. microphone jack

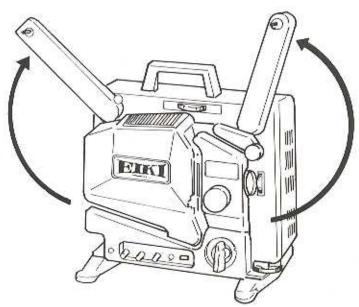
- 12. Treble control
- 13. Bass control
- Amplifier ON & OFF and volume control
- Remote control jack (ESL-MODELS)
- 16. Lamp house cover screw
- 17. Lamp house cover
- 18. Take-up arm lock button
- 19. Take-up arm
- 20, Still picture clutch

SETTING UP THE PROJECTOR

1. Lift latch to remove front cover.



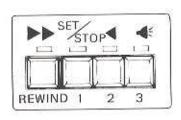
2. Raise both reel arms until they snap in place.



3. Set function switch to STOP position.

ESL-MODELS



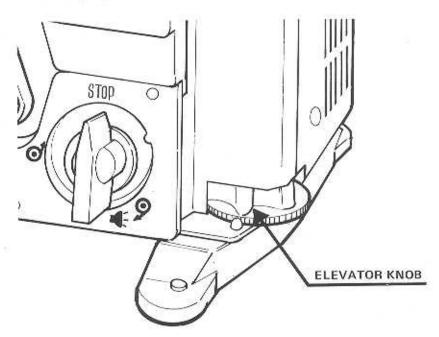




4. Connect power plug to proper outlet.



5. Switch projector to forward and lamp on.



 Position projector for the appropriate size image as desired. Adjust elevator knob to achieve the required image height. (See chart below for appropriate lens, distance and screen size.)

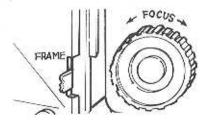
SCREEN SIZE CHARTS IN METERS

Distance Lens		Эm	5	10	15	20	25	30	40
38mm	le W	0.56	0.94	1,89 2,53	2 84 2 80	3.79 5.07	9.74 5.34	5.69 7.61	7,58 10,15
50	H	0.43	0.72 0.96	1.44	2.16 2.89	2.88 3.86	3.60 4.82	4.32 5.79	5.70 7.72
65	H	0,33	0.55 0.74	1,10	1 66 2 22	2.21 2.96	2.77 3,71	3.32 4.46	4.43 5.93
76	H	0.28	0.63	0.94 1.26	1.42	1.89 2.53	2,37 3,17	2 84 3.80	3.79 5.07
100	H	0.21	0.36	0.72 0.96	1.08	1.44 1.93	1.80 2.41	2.16 2.89	2,88

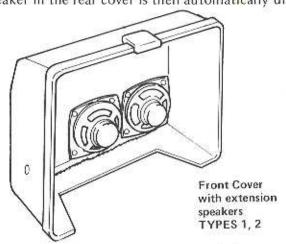
SCREEN SIZE CHARTS IN INCHES

O stance Lens		8:	10	32	15	20	25"	30*	39	40	45"	60	601	761	100.
#37)	H	2'2"	2.9	3'4" 4'5"	4°2" 5°7"	5.7° 7.5°	6'11" 9'4"	8'4"	937						
1.57	71	1757	1'10" 2'5"	2'2"	2'9" 3'8"	3'8" 4'11"	4'7" 6'2"	5.7° 7.6°	6'6" 6'6"	7.5° 10.0°	84 113	914" 1215"			
2.0"	HW		1.4"	1'8"	2'1"	3.8	3'5" 4'8"	4'2' 5'7'	4'10" 6'6"	5°7′′ 7′5′′	6'3' 8'5'	6711" 9'4"	8'4" 11'3"	10'5" 14'0"	13'11 18'9"
3.0**	H		7000	- Names A		77000	3.1	29	3'3" 4'4"	3.9.	4°2° 5'7°	4'7'' 6'2	5'7" 7'5"	6111" 9'4"	9'3" 12'6"
4.0"	HW						1'8" 2'3"	29	2'5" 3'3"	2'9" 3'8"	3.1.	3'5'' 4'8''	4°2′′ 5′7′′	5°2"	8111 9141

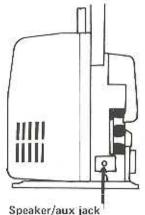
7. Adjust focus for clean, sharply illuminated screen.

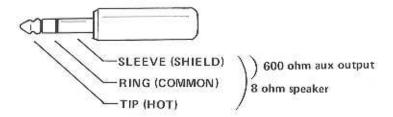


When desired projection position and screen image size has been achieved, stop projector. 9. For larger groups the extension speakers located in the front cover (1, 2 types only) may be placed near the screen and plugged into the jack marked "speaker" located on the left of the projector. The internal speaker in the rear cover is then automatically disabled.

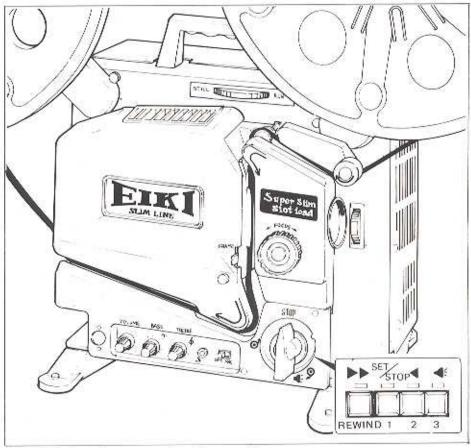


10. For additional sound reinforcement the projector may also be connected to an external amplifier via the low level auxilliary line output. The 600 ohm (unbalanced) line is available at the speaker jack when using a 3 conductor (stereo type) 1/4" phone plug wired as shown.



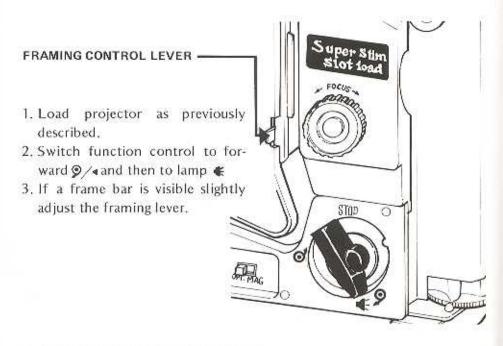


LOADING INSTRUCTIONS

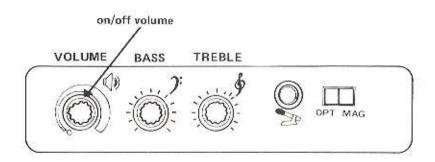


- 1. Switch function control to Stop position.
- 2. Hold the film by the fingertips, beginning at the first guide roller, pull the film along the slot following the direction of the arrows.
- 3. Attach the end of the film to the take-up reel and wind a couple of turns in the clockwise direction.

PROJECTING



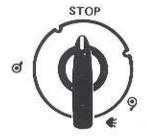
- 4. Adjust focus for sharp, crisp picture.
- 5. Wait 2-3 seconds for the first scene to appear, then turn on the amplifier.
- Adjust the volume and tone controls to the desired level and most pleasing sound.



7. This projector features automatic "film guard." In the event the upper film loop is completely lost as a result of a previously damaged film the projector will stop automatically.

MODELS ESL: The loops will reset automatically, simply press forward ◀ and lamp ≰ to restart the show.

MODELS SSL: Return the function switch to stop. Resetting the loops, then restart the show by advancing the function control to forward ♀ and lamp ≰.



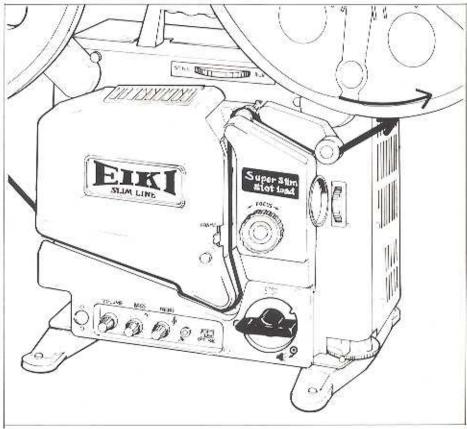


Loss of lower loop will cause the loop restorer to reset automatically without interruption of the show.

REWINDING (MODELS SSL)

Film may be rewound through the slot path, or direct from take-up to supply reel.

1. For in-path rewind, stop the projector before the end of the film trailer.

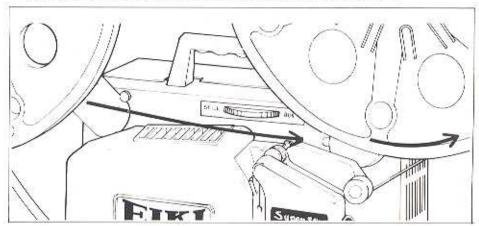


Rotate the function switch to rewind position.

Caution: Do not switch directly from forward to rewind without first stopping the projector at the STOP position.



2. Reel-to-reel rewind. Bring the film directly from the take-up reel and attach it to the supply reel in a counter clockwise direction.



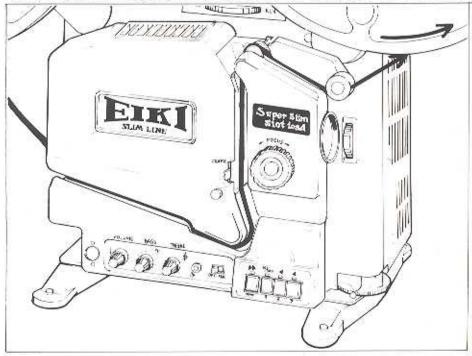
Rotate the function switch counter clockwise to the rewind position.

3. Return the function switch to "STOP" upon completion of the rewind.

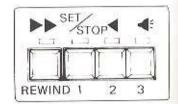
REWINDING (MODELS ESL)

Film may be rewound through the slot path, or direct from take-up to supply reel.

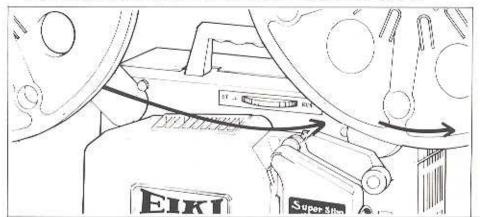
1. For in-path rewind, stop the projector before the end of the film trailer.



- 2. Press Rewind Button ▶▶ .
- At the completion of the rewind press Stop, the rewind indicator will flash "red" for a few seconds, during which time all other functions are disabled.



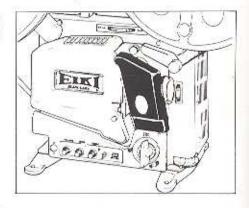
 For Reel-to-reel rewind. Bring the film directly from the take-up reel and attach it to the supply reel in a counter clockwise direction.



REMOVING THE LENS

(WITH ANTI-THEFT SCREWLOCK-U.S.A. only)

 Remove lens holder mechanism cover by pulling out from the top as shown.



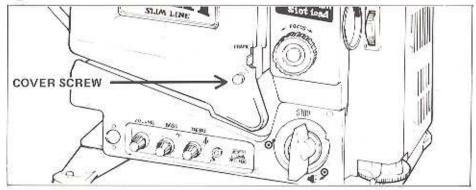
Unscrew the anti-theft screw on the lens holder.



- The lens can now be removed by turning the focus knob until lens is free.
- To reinstall the lens, reverse the above procedure. Telephoto and wide-angle lenses can be installed in the same manner.

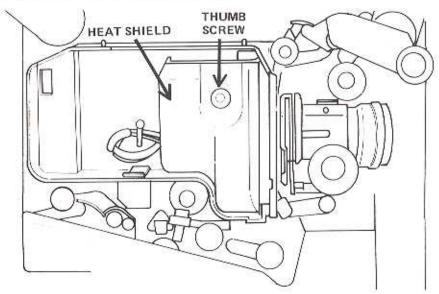
CHANGING LAMPS



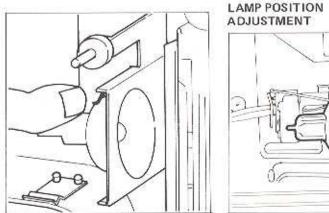


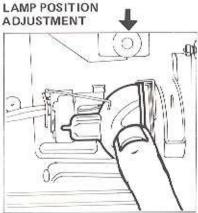
- 1. Loosen lamp house cover screw.
- 2. Lift from the bottom to remove lamp house cover.
- 3. To remove projection lamp: (ELC/EJL) 24V 250W or (EYK/EWG) 120V 300W, Note Label plate for correct replacement lamp.
 - a. Remove black heat shield by unscrewing the black thumb screw and pulling straight out,

(CAUTION, heat shield may be hot)

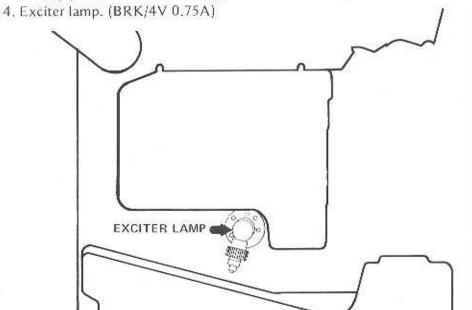


b. Push lamp ejection lever to the left and lamp will come out.



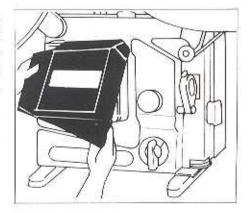


- c. When replacing lamp be sure that it snaps into the socket properly and that the heat shield and cover is re-installed.
- d. For maximum, even illumination it may be necessary to adjust the lamp position to allow for slight variations in lamps.



a. Push in on the lamp and turn counter clockwise to remove.

- b. Insert new lamp with notch on base flange in upper right position. Turn clockwise, and clean fingerprints from lamp.
- To re-install lamp house cover be sure the two pins on top of the lamp house line up with the holes in the cover. Snap closed and tighten the lamp house cover screw.

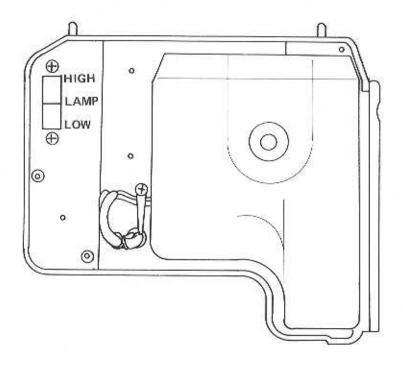


HI-LOW LAMP SWITCH

Models with ELC or EJL 24V lamp are supplied with HI-LOW lamp selection

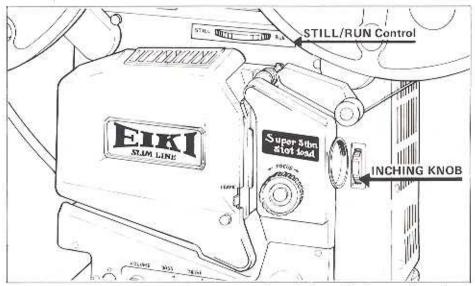
The hi-low lamp switch is located inside the lamp house. To change the hi-low switch it is necessary to remove the lamp house cover as outlined for changing the lamp.

By switching to the low position the lamp will last nearly three times as long as in the hi position.



STILL FRAME OR PAUSE

Models with still-run feature allows the film to be momentarily stopped for discussion at any time while in the forward project mode by switching the still/run control to still.



In the still or pause mode a heat screen is positioned in front of the lamp reducing the image brightness while protecting the film from excessive lamp heat. Should the shutter stop in front of the image, simply rotate the inching knob until the shutter is out of the picture.

RECOMMENDED SPARE PARTS AND ACCESSORIES

When placing an order, using following part Nos. is suggested.

Part No. for USA & Canada only	Part No. for other countrie	Descriptions
5100	AC-32021	Halogen Lamp ELC/24V 250W
5102	AC-32011	Halogen Lamp EJL/24V 200W
5103	AC-32031	Halogen Lamp EYK/EWG 120V 300W
5104	AC-40111	Exciter Lamp BRK/4V 0.75A
F05-6030	F05-6030	Main Fuse 5A
F02-5020	F02-5020	Amp. & Exciter Lamp Fuse 2A
5460	AC-70211	Microphone
5030	AH-20201	Anamorphic Lens "C" size
5425	ACI-33501	Anamorphic Bracket "C" size
5024	AH-20101	Zoom Conversion Lens "C" size (x 0.75 to x 1.25)
5067	AH- 20111	Zoom Conversion Lens 16-S "D" size (x 0.75 to x 1.30)
5059	AH-10101	Lens 12.5 mm (0.5")F1.4
5060	AH-10201	Lens 25.0 mm (1") F1.5
5061	AH-10301	Lens 38.0 mm (1.5")F1.5
5019	ACI-30101	Lens 50.0 mm (2") F1.2 (Standard)
5062	AH-10401	Lens 65.0 mm (2.5")F1.5
5063	AH-10501	Lens 75.0 mm (3") F1.8
5066	AH-10601	Lens 100.0 mm (4") F2.2
5026	AH- 20301	Wide-angle or Telephoto Conversion Lens (x 0.8 to x 1.25)
322-12181	332-12181	Motor Belt
322-12101	322-12101	Motor Pulley assy 50/60 Hz 24FPS standard
322-11872	322-11872	Shutter Pulley assy 50/60 Hz 24FPS standard
Part No. for USA	Part No. for	
& Canada only	other countrie	s <u>Descriptions</u>
322-12401	322-12401	Motor Pulley assy 60Hz 18/24FPS optional
L 322-11852	322-11852	Shutter Pulley assy 60 Hz 18/24FPS optional
322-12501	322-12501	Motor Pulley assy 50 Hz 18/24FPS optional
L 322-11862	322-11862	Shutter Pulley assy 50 Hz 18/24FPS optional

Projection Lamps — ELC/24V 250W If replacement ELC lamp is not available, a 24V-200W EJL lamp may be used. The EJL gives about 20% less light.



MODELS SSL-0L USE EYK/120V 300W or EWG/120V 300W



Exciter Lamps BRK/4V 0.75 amp



MODELS ESL ONLY
Fuse 5 amp Main Power





Zoom lens attachment

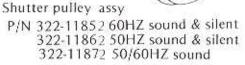
(Continuously variable from 38mm (1-1/2") to 65mm (2-1/2") with standard prime lens)

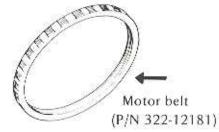
Anamorphic/ Cinemascope lens Requires Bracket



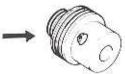


Additional lenses

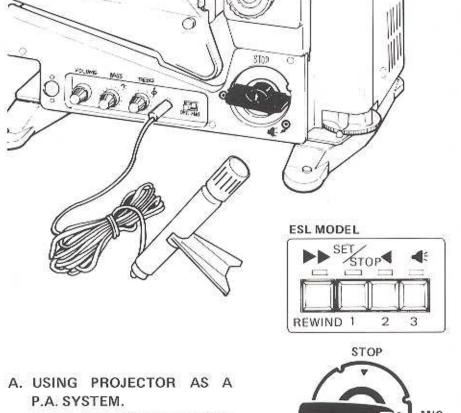




Motor pulley assy P/N 322-12401 60HZ sound & silent 322-12501 50HZ sound & silent 322-12101 50/60HZ sound



SPECIAL APPLICATIONS



To use the projector as a public address system, simply plug an accessory microphone into the amplifier mic jack.



Advance the projector function switch clockwise to the position marked mic. Adjust the volume and tone controls as necessary.

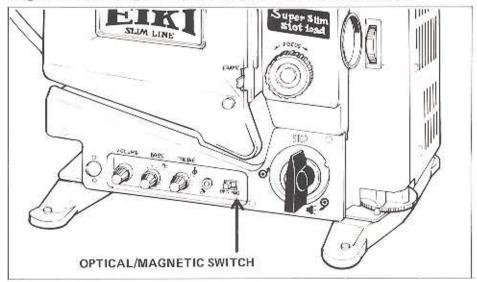
NOTE: It is recommended that the P.A. mic be used with the projector plugged into the external speakers, and that the speakers be located away from the projector.

Models SSL-0L/1L require that the motor runs before the amplifier can be used as a P.A.

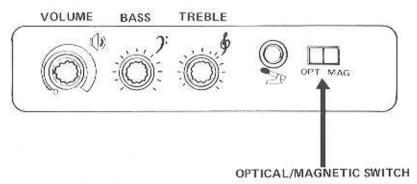
MODELS ESL-1 & 2 require that the stop button be pressed to close the threading mechanism before the mic can be used.

B. MAGNETIC SOUND TRACK PLAYBACK (Models SSL-2, ESL-2 Only)

To reproduce a previously recorded magnetic sound track switch the Opt/ Mag switch to the right, Projector may then be operated as usual.



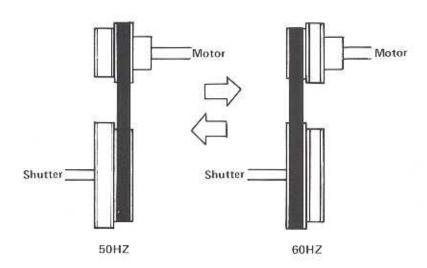
Since the majority of films are optical it is a good idea to return the switch to optical for the next user.



C. 50HZ to 60HZ CONVERSION

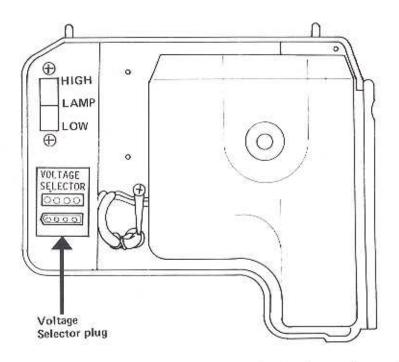
The standard SSL-ESL projector is available as 50HZ or 60HZ sound speed operations. Conversion from 50 to 60HZ or 60 to 50HZ can be accomplished by changing the motor belt.

To allow the projector to be operated at either 50 or 60HZ sound and silent, it is necessary to change the motor pulley.



D. MULTIPLE VOLTAGE APPLICATIONS

In many countries where more than one electrical power source is common, special models with selective voltage requirements are available. To select the appropriate voltage, remove the lamp house cover as indicated in the lamp replacement procedure. In the lower left hand corner of the lamp house is a selector plug.



Select the appropriate voltage prior to plugging in the projector. When returning the projector to an area using higher voltage be sure to switch it to the correct voltage before plugging it in.

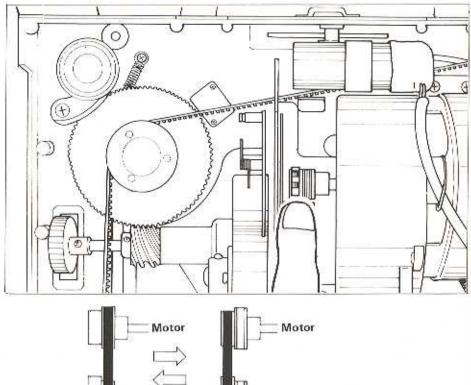
NOTE: This feature not available on Models SSL-0L with the 120V, 300W (EYK) lamp.

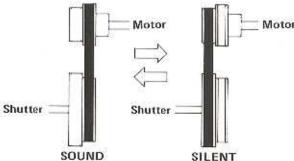
E. SILENT FILM OPERATION

Models fitted with optional two-position motor and Shutter pulleys may be shifted from 24 FPS sound speed to 18 FPS silent by following the steps below.



- 1. Remove the rear cover. Turn inching knob, at the same time guiding the belt, first to the smaller motor pulley, then to the larger shutter pulley.
- 2. To change back to sound speed reverse the procedure. NOTE: 50/60HZ models do not have silent speed.





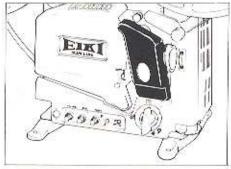
CLEANING AND MAINTENANCE

The EIKI SSL & ESL projector has been designed to provide years of trouble free services.

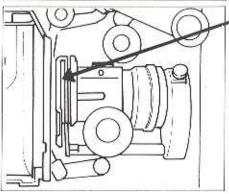
All maintenance such as lubrications and adjustments should be referred to a qualified EIKI service technician.

To keep your projector looking and operating like new the following items should be checked and cleaned by the operator.

- Lens Clean with soft lens tissue.
- 2. Film gate and aperture plate -



 Remove lens holder mechanism cover by pulling out from the top as shown.



- b. Pull film shoe and bracket assembly out from the top.
- c. Brush clean with a soft brush and re-install,
- Film rollers Clean and wipe dry with isopropyl alcohol.
- 4. Sound focus lens Brush or blow off dust and lint.
- Projector Wipe off covers with a damp cloth and keep them closed when projector is not in use.

The front elevated feet should always be up before transporting or storing the projector.

Do not oil or lubricate any part of this projector. Refer to your authorized ELKI dealer

OPERATOR TROUBLE SHOOTING GUIDE

SYMPTOM	CHECK				
No power to motor or lamp (Pilot lamp not on)	Be sure projector is plugged in and the outlet has power Check power cord Film guard switch not re-set (See projecting instructions)				
Motor runs but film doesn't advance	Motor belt off or broken Run/Still switch in still.				
Motor runs too fast or too slow	Belt not on the correct motor pulley				
Motor runs, film advances, lamp does not come on	Function switch not in FOR-WARD/RUN position Defective lamp				
Won't load properly	Function switch not in the STOP position (Refer to loading instructions) Film gate not properly in place				
No sound (Exciter lamp on)	1. Amplifier volume control not turned up 2. On magnetic playback models make sure switch is in the correct position 3. Function switch not in position FORWARD. 4. 2 amp amplifier fuse defective				

SYMPTOM	CHECK					
No sound (Exciter lamp not on)	Amplifier volume control not turned on Defective exciter lamp 3. 2 amp exciter lamp fuse defective !					
Poor Sound	Check position of volume control Check position of tone controls Clean exciter lamp Check for dirt in the solar cell Check film. May be defective Incorrect exciter lamp Speaker defective					
Poor picture	Remove and clean film gate and aperture Clean lens with a soft tissue both front and rear Refocus lens Film may be defective					
Poor illumination	Hi-low lamp switch in low position. Incorrect Lamp. Defective lamp.					

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