When the show must go on.

SUPER SLIM SLOT LOAD

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.
2. Close supervision is necessary when any equipment is used by or near children. Do not leave projector unattended while in use.
3. 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.
4. 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.
5. 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.
7. 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.
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
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. Inchng knob
5. Lens
6. Focus knob
7. Framing lever
8. Elevator knob
9. Function switch (SSL-MODELS)
10. Optical/Magnetic playback selector switch (TYPE 2 ONLY)
11. P.A. microphone jack
12. Treble control
13. Bass control
14. Amplifier ON & OFF and volume control
15. 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
1. Lift latch to remove front cover.

2. Raise both reel arms until they snap in place.
3. Set function switch to STOP position.

4. Connect power plug to proper outlet.

5. Switch projector to forward and lamp on.
6. 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**

<table>
<thead>
<tr>
<th>Lens</th>
<th>Distance</th>
<th>3m</th>
<th>5m</th>
<th>10m</th>
<th>15m</th>
<th>20m</th>
<th>25m</th>
<th>30m</th>
<th>40m</th>
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</thead>
<tbody>
<tr>
<td>3.5m</td>
<td>H</td>
<td>0.56</td>
<td>0.94</td>
<td>1.89</td>
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<tr>
<td></td>
<td>W</td>
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<td>5.07</td>
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<tr>
<td>5m</td>
<td>H</td>
<td>0.43</td>
<td>0.72</td>
<td>1.44</td>
<td>2.16</td>
<td>2.88</td>
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**SCREEN SIZE CHARTS IN INCHES**

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<td>40&quot;</td>
<td>43&quot;</td>
<td>46&quot;</td>
<td>50&quot;</td>
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</tbody>
</table>

7. Adjust focus for clean, sharply illuminated screen.

8. 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 auxiliary line output. The 600 ohm (unbalanced) line is available at the speaker jack when using a 3 conductor (stereo type) ¼" phone plug wired as shown.
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

FRAMING CONTROL LEVER

1. Load projector as previously described.
2. Switch function control to forward \( \text{\#} \) and then to lamp \( \text{€} \).
3. If a frame bar is visible slightly adjust the framing lever.

4. Adjust focus for sharp, crisp picture.
5. Wait 2 – 3 seconds for the first scene to appear, then turn on the amplifier.
6. 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 ⚫.

8. 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 ▶️.

3. 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.
4. 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)

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

2. Unscrew the anti-theft screw on the lens holder.

3. The lens can now be removed by turning the focus knob until lens is free.

4. To reinstall the lens, reverse the above procedure. Telephoto and wide-angle lenses can be installed in the same manner.
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.

![Diagram of lamp position adjustment]

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.

4. Exciter lamp. (BRK/4V 0.75A)

![Diagram of exciter lamp]

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.

5. 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.

<table>
<thead>
<tr>
<th>Part No. for USA &amp; Canada only</th>
<th>Part No. for other countries</th>
<th>Descriptions</th>
</tr>
</thead>
<tbody>
<tr>
<td>5100</td>
<td>AC-32021</td>
<td>Halogen Lamp ELC/24V 250W</td>
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<td>5102</td>
<td>AC-32011</td>
<td>Halogen Lamp E/L/24V 200W</td>
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<td>AC-32031</td>
<td>Halogen Lamp EYK/EWG 120V 300W</td>
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<td>AC-40111</td>
<td>Exciter Lamp BRK/4V 0.75A</td>
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<td>F05-6030</td>
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<td>F02-5020</td>
<td>Amp. &amp; Exciter Lamp Fuse 2A</td>
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<td>5460</td>
<td>AC-70211</td>
<td>Microphone</td>
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<td>AH-20201</td>
<td>Anamorphic Lens &quot;C&quot; size</td>
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<td>ACI-33501</td>
<td>Anamorphic Bracket &quot;C&quot; size</td>
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<td>5024</td>
<td>AH-20101</td>
<td>Zoom Conversion Lens &quot;C&quot; size (x 0.75 to x 1.25)</td>
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<td>AH-20111</td>
<td>Zoom Conversion Lens 16-S &quot;D&quot; size (x 0.75 to x 1.30)</td>
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<td>AH-10301</td>
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<td>AH-10401</td>
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<td>AH-10501</td>
<td>Lens 75.0 mm (3&quot;&quot;) F1.8</td>
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<td>AH-10601</td>
<td>Lens 100.0 mm (4&quot;&quot;) F2.2</td>
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<td>322-12181</td>
<td>332-12181</td>
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<td>322-11872</td>
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<td>Shutter Pulley assy 50/60 Hz 24FPS standard</td>
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<td>322-11862</td>
<td>322-11862</td>
<td>Shutter Pulley assy 50 Hz 18/24FPS optional</td>
</tr>
</tbody>
</table>
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
  - Fuse 2 amp, Exciter lamp and amplifier
- Zoom lens attachment (Continuously variable from 38mm (1-1/2") to 65mm (2-1/2") with standard prime lens)
- Additional lenses
- Shutter pulley assy
  - P/N 322-11852 60HZ sound & silent
  - P/N 322-11862 50HZ sound & silent
  - P/N 322-11872 50/60HZ sound
- Motor pulley assy
  - P/N 322-12401 60HZ sound & silent
  - P/N 322-12501 50HZ sound & silent
  - P/N 322-12101 50/60HZ sound

Motor belt (P/N 322-12181)
**SPECIAL APPLICATIONS**

A. USING PROJECTOR AS A P.A. SYSTEM.

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.

**DISCONNECT POWER CORD**

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.
1. Lens – Clean with soft lens tissue.
2. Film gate and aperture plate –
   a. 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.
3. Film rollers – Clean and wipe dry with isopropyl alcohol.
4. Sound focus lens – Brush or blow off dust and lint.
5. 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 EIKI dealer.
# OPERATOR TROUBLE SHOOTING GUIDE

<table>
<thead>
<tr>
<th>SYMPTOM</th>
<th>CHECK</th>
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<tbody>
<tr>
<td>No power to motor or lamp</td>
<td>1. Be sure projector is plugged in and the outlet has power</td>
</tr>
<tr>
<td>(Pilot lamp not on)</td>
<td>2. Check power cord</td>
</tr>
<tr>
<td></td>
<td>3. Film guard switch not re-set (See projecting instructions)</td>
</tr>
<tr>
<td>Motor runs but film doesn’t advance</td>
<td>1. Motor belt off or broken</td>
</tr>
<tr>
<td></td>
<td>2. Run/Still switch in still.</td>
</tr>
<tr>
<td>Motor runs too fast or too slow</td>
<td>1. Belt not on the correct motor pulley</td>
</tr>
<tr>
<td>Motor runs, film advances, lamp does not come on</td>
<td>1. Function switch not in FORWARD/RUN position</td>
</tr>
<tr>
<td></td>
<td>2. Defective lamp</td>
</tr>
<tr>
<td>Won’t load properly</td>
<td>1. Function switch not in the STOP position (Refer to loading instructions)</td>
</tr>
<tr>
<td></td>
<td>2. Film gate not properly in place</td>
</tr>
<tr>
<td>No sound (Exciter lamp on)</td>
<td>1. Amplifier volume control not turned up</td>
</tr>
<tr>
<td></td>
<td>2. On magnetic playback models make sure switch is in the correct position</td>
</tr>
<tr>
<td></td>
<td>3. Function switch not in position FORWARD</td>
</tr>
<tr>
<td></td>
<td>4. 2 amp amplifier fuse defective</td>
</tr>
<tr>
<td>SYMPTOM</td>
<td>CHECK</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>----------------------------------------------------------------------</td>
</tr>
<tr>
<td>No sound (Exciter lamp not on)</td>
<td>1. Amplifier volume control not turned on</td>
</tr>
<tr>
<td></td>
<td>2. Defective exciter lamp</td>
</tr>
<tr>
<td></td>
<td>3. 2 amp exciter lamp fuse defective</td>
</tr>
<tr>
<td>Poor Sound</td>
<td>1. Check position of volume control</td>
</tr>
<tr>
<td></td>
<td>2. Check position of tone controls</td>
</tr>
<tr>
<td></td>
<td>3. Clean exciter lamp</td>
</tr>
<tr>
<td></td>
<td>4. Check for dirt in the solar cell</td>
</tr>
<tr>
<td></td>
<td>5. Check film. May be defective</td>
</tr>
<tr>
<td></td>
<td>6. Incorrect exciter lamp</td>
</tr>
<tr>
<td></td>
<td>7. Speaker defective</td>
</tr>
<tr>
<td>Poor picture</td>
<td>1. Remove and clean film gate and aperture</td>
</tr>
<tr>
<td></td>
<td>2. Clean lens with a soft tissue, both front and rear</td>
</tr>
<tr>
<td></td>
<td>3. Refocus lens</td>
</tr>
<tr>
<td></td>
<td>4. Film may be defective</td>
</tr>
<tr>
<td>Poor illumination</td>
<td>1. Hi-low lamp switch in low position</td>
</tr>
<tr>
<td></td>
<td>2. Incorrect Lamp</td>
</tr>
<tr>
<td></td>
<td>3. Defective lamp</td>
</tr>
</tbody>
</table>