

*Operating Manual*

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**KODAK**  
**EKTARAPRO III**  
**Slide Projector**

# Important Safety Instructions

When using your projector, always follow basic safety precautions:

1. Read and understand all instructions before using this equipment.
2. Operate this projector with 110- to 125-volt 60 Hz current only. Incorrect voltage can cause projector malfunction. (See page 3 for Models III BR and III ABR, which feature a multi-voltage selector.)
3. Close supervision is necessary when any appliance is used by or near children, or others who may not understand the need for these precautions. Do not leave the projector unattended during use.
4. Be careful not to touch hot parts. For lamp replacement, allow the module to cool before touching the lamp and the surrounding area. Do not place the lamp module on heat-sensitive surfaces.
5. Do not operate your projector if the cord is damaged or if the projector has been dropped or damaged (see "How To Obtain Service" on page 30).
6. Position the cord so that it is not tripped over, pulled, or placed in contact with hot surfaces.
7. If an extension cord is necessary, use a cord with a current rating at least equal to that of the projector. Cords rated for less amperage than the projector may overheat.
8. Always unplug the projector from the electrical outlet before cleaning and servicing and when it is not in use.
9. Allow the projector to cool before storing.
10. Do not immerse this equipment in water or other liquids.
11. Do not disassemble this projector. Use a qualified service technician when service or repair is required. Incorrect reassembly can cause electric shock the next time the projector is used.
12. Use only safety electrical low-voltage (SELV) devices.
13. The use of an accessory attachment not recommended by the manufacturer may increase risk of damage.
14. Keep the air-flow vents unobstructed.

**Save These Instructions**

# Overview

## FRONT RIGHT

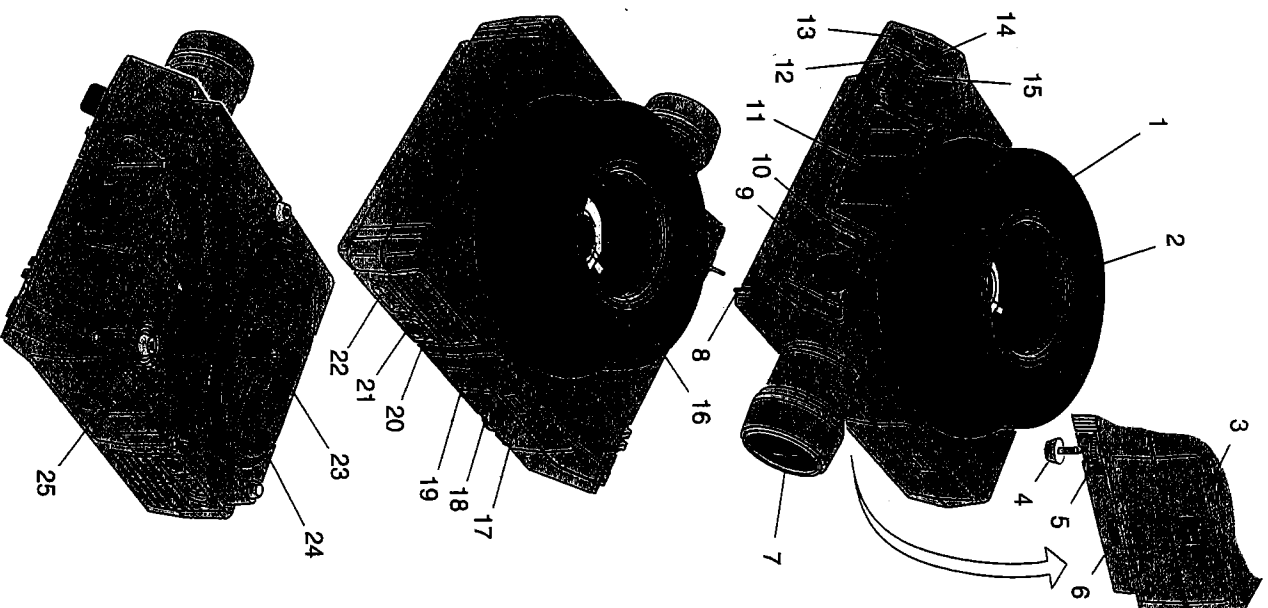
- 1 - Tray
- 2 - Lock Ring
- 3 - Storage Compartment/Remote
- 4 - Elevating Foot
- 5 - Elevating Adjustment Wheel
- 6 - Elevating Foot Release Button
- 7 - Lens
- 8 - Viewer (Model ATS)
- 9 - Focus Knob
- 10 - Autofocus (Models A, AMT, & ATS)
- 11 - Select Bar
- 12 - Timer (Models AMT & ATS)
- 13 - Reverse
- 14 - Forward
- 15 - Power/Fan/Half Lamp/Full Lamp

## BACK RIGHT

- 16 - Tray Release Latch
- 17 - Lamp Module
- 18 - Raised Index Mark
- 19 - Reading Light Cover
- 20 - Standby Light (Model E Plus)
- 21 - Special-Application Receptacle
- 22 - Remote Receptacle

## BASE

- 23 - Power Cord
- 24 - Power Cord Retainer
- 25 - Leveling Foot



## Introduction

Take the time to read the instructions in this operating manual to become familiar with your KODAK EKTAGRAPHIC III Slide Projector and how to operate it properly.

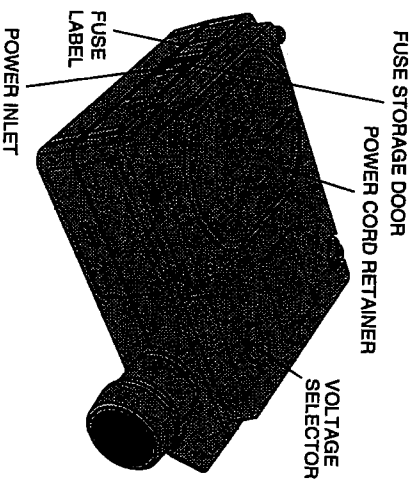
## Operation

### Startup

#### Models III BR and ABR Only

**IMPORTANT!** Before you turn on your new KODAK EKTAGRAPHIC III BR or ABR Slide Projector, it is critical to set the voltage selector to the proper setting. Use the proper fuse for the voltage selection. See the fuse label on the back of the projector.

The **voltage selector** on the KODAK EKTAGRAPHIC III BR or ABR Slide Projector is located on the base of the projector. Using a small object, such as a coin, you can set the **voltage selector** for the proper voltage (100, 115, 130, 220, 230, and 240 V).



## *Operation*

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EKTAGRAPHIC III BR and ABR Slide Projectors have a sensing capability to automatically set the proper power cycle (50 or 60 Hz). This eliminates the need to manually change the two-position switch included on models manufactured before November 1996. These projectors are shipped with a detachable power cord that is packaged separately (not wound on the **Power Cord Retainer**).

A spare fuse is provided. The fuse is located in the small, pull-out storage door below the **Power Inlet**. Simply pull the door with your finger. Remove the spent fuse with a small object (e.g., pencil tip) by pushing the fuse up and removing it from the receptacle. Press the spare fuse into the receptacle and close the storage door.

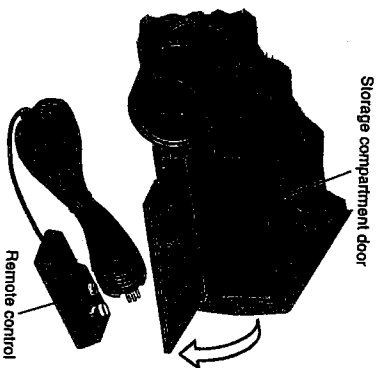
**IMPORTANT!** The EKTAGRAPHIC III BR and ABR Slide Projectors are supplied with a 3-wire grounding power cord to comply with UL122 (USA) and CSA222 (Canada) safety and electrical standards. We urge you to provide a permanent, properly installed 3-wire receptacle as the source of power for this projector. For advice and assistance, call a licensed electrician or your local power company.

When used outside the United States of America, please use a proper adapter that ensures grounding and polarization.

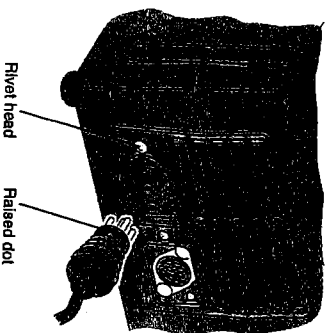
Although the Models III BR and ABR are approved to the standards of UL and CSA, they are not intended to meet approval in all countries worldwide.

**Models A,  
AMT and ATS**

Open the **storage compartment** and remove the remote control.

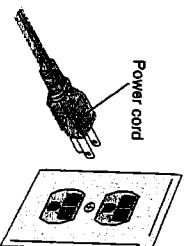


Plug the 5-pin cable remote connector into the remote-control receptacle, aligning the **raised dot** with the metallic **rivet head**.



This receptacle also accepts plugs for accessories, such as Kodak dissolve controls.

Plug the **power cord** into a grounded outlet with 110- to 125-volt 60 Hz current only.



## Operation

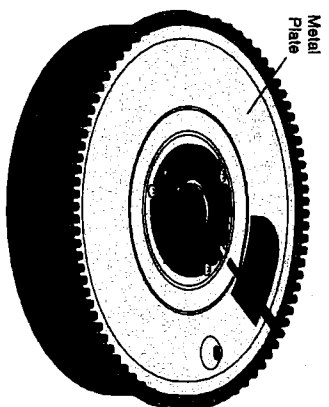
### Loading the Slide Tray

A KODAK EKTAGRAPHIC Universal Slide Tray is designed to hold up to 80 slides. Be sure that your slide mounts are in good condition; frayed or bent mounts may fail to drop into the projector. A variety of slide trays are available with capacity up to 140 slides. See your dealer in Kodak products for a complete list of Kodak trays and accessories.

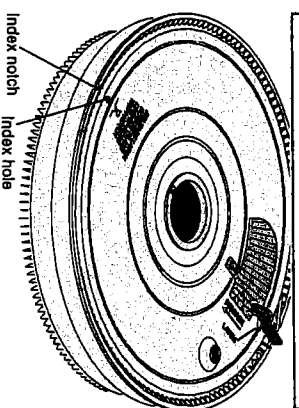
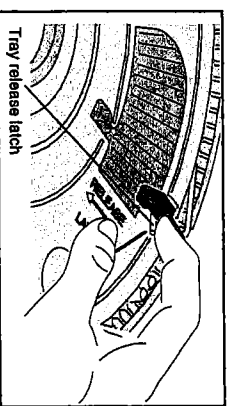
**Note:** Do not attempt to project slides mounted with sticky or loose tape.

Place the tray over the center post of the projector. Align the "0" slot with the gate index; the tray will drop into position.

If your **80-slide tray** does not drop easily, rotate the metal plate on the bottom of the tray until it locks into position. For a **140-slide tray**, secure the lock ring, invert the tray, and align the **index hole** with the **index notch**. Slide and hold the **tray release latch** in the direction of the arrow, and turn the bottom plate until the index hole and notch align. Then release the latch.



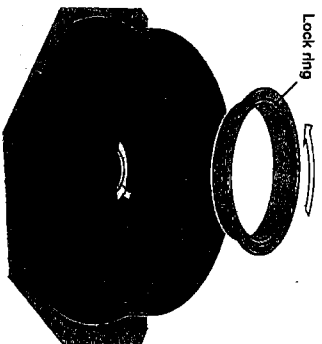
80-Slide Tray



140-Slide Tray

**Front-Screen  
Projection**

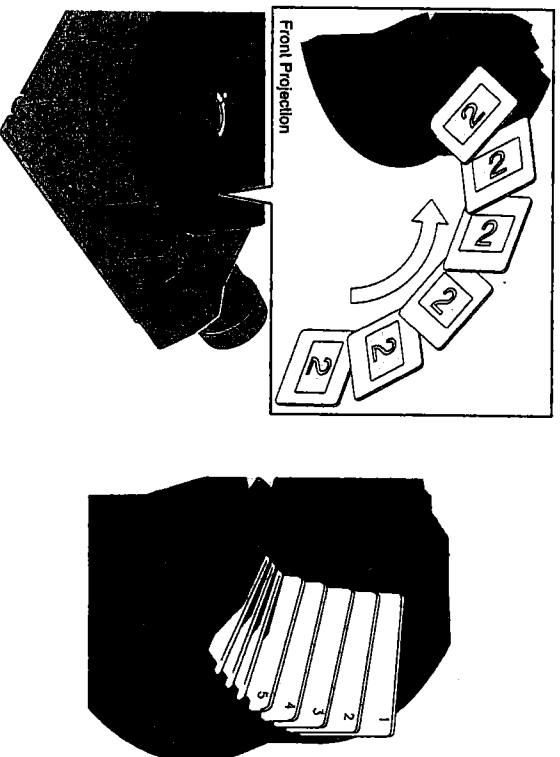
Remove the **lock ring** by turning it *counterclockwise* and lifting it off.



Check each slide's orientation (horizontal or vertical), and arrange them in the order you wish to show them. *Then turn the slides upside down.*

Number each mount in the upper right-hand corner of the film's shiny side.

Insert your first slide into the first slot in the tray so that the number is visible on the outer circumference of the tray. Insert your second slide in the second slot with the emulsion (dull side) facing your first slide, and so on.

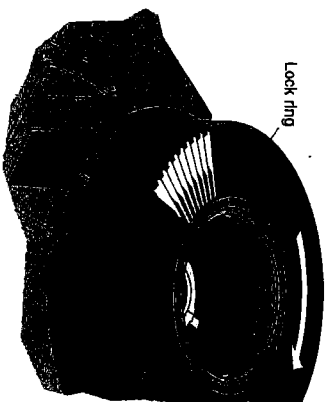




## Operation

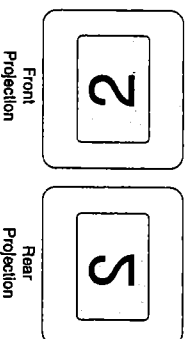
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Replace the lock ring by turning it *clockwise* until it is secure.



## Rear-Screen Projection

You can easily adapt a show from front- to rear-screen projection. Remove each slide from the tray and *turn it around* (keeping the slide upside down). This will give the projected slide a mirror image on the screen.



Insert your first slide back into the first slot in the tray. The number is now visible in the *inner* circumference of the tray.

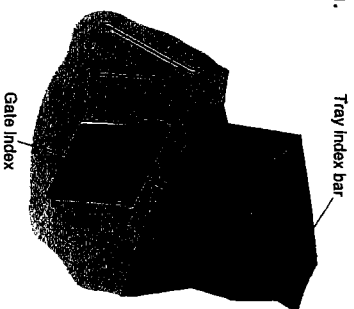
Replace the lock ring by turning it *clockwise* until it is secure.

## With a Dissolve Control

When you use a dissolve control, put your slides into two trays (one for odd- and one for even-numbered slides).

### Tray

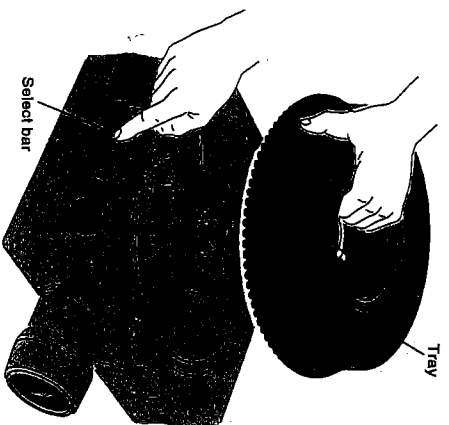
Place the loaded slide tray on the projector. Align the **tray index bar** with the **gate index**. The tray will drop into position.



### Removing the Tray

To remove the slide tray:

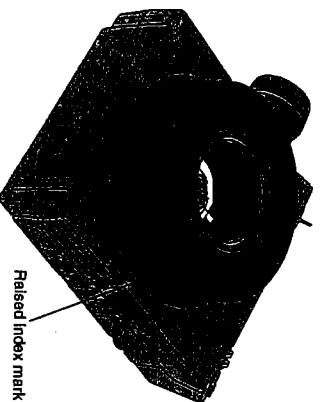
- press the **select bar** all the way down
- align the **tray index bar** with the **gate index**.



You can then lift off the tray.

### Raised Index Mark

This feature allows you to coordinate tray starting positions for multiple-projector presentations. For an 80-slide tray in the zero position, the **raised index mark** is at slot 20. If you start with slide 6, it will align at slot 26. For a 140-slide tray in the zero position, the index mark is at slot 35. So, if you start with slide 12, it will align at slot 47.

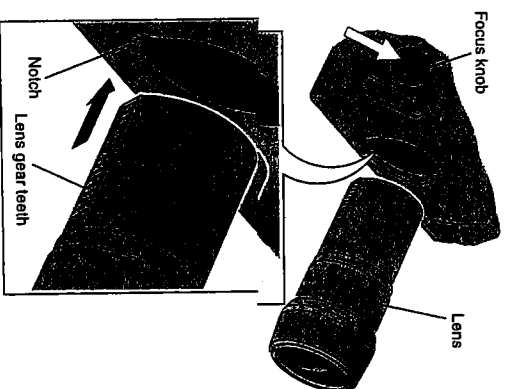


## Operation

### Projecting Your Slides

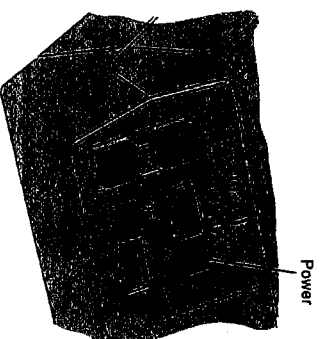
#### Lens

To insert a **lens**, push the **focus knob** up and position the **lens gear teeth** on the lens barrel with the **notch** on the projector.



#### Lamp

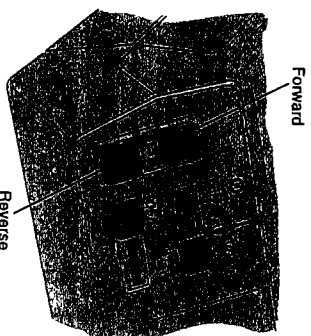
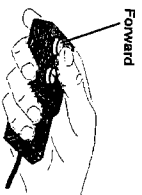
Slide the **power** switch to half lamp (for longer lamp life) or lamp (for maximum brightness).



You may want to keep a *spare* KODAK EC Lamp Module (CAT 831 3587) handy in case the lamp burns out during a presentation. Replacing the entire module makes the change quick and easy. (See Maintenance on page 23 for instructions on changing the lamp module.) See your dealer in Kodak products to order this module.

**Forward and Reverse**

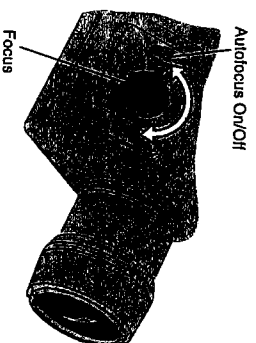
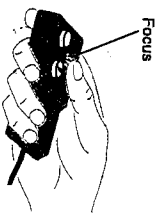
Press the **forward** button on the projector or the remote control to project the first slide. To change slides, briefly press the **forward** or **reverse** buttons.



English

**Focus**

Focus your first slide using the **focus** knob on the projector or the **focus** button on the remote control.



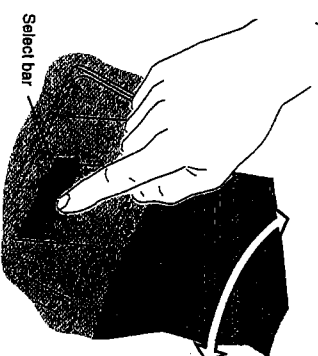
**Autofocus**  
(Models A, AMT, and ATS only)

With **autofocus on**, the projector automatically focuses each slide, after you **focus your first slide manually**. Turn autofocus **off** if glass slides make the autofocus motor run continuously.

**Random Projection**

For random projection of any slide in the tray:

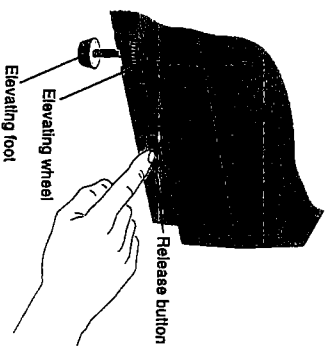
- press and hold down the **select bar**,
- rotate the tray to the desired slide, and
- release the select bar.



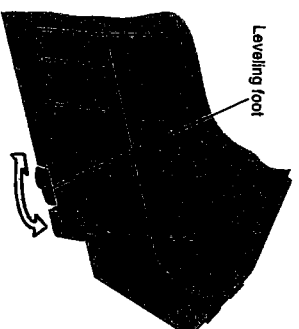
## Operation

### Screen Image

Use the **elevating foot** to horizontally center the projected image on the screen. To release the foot, press the **release button**, while lifting the front of the projector to the desired height. Use the **elevating wheel** to make fine adjustments.



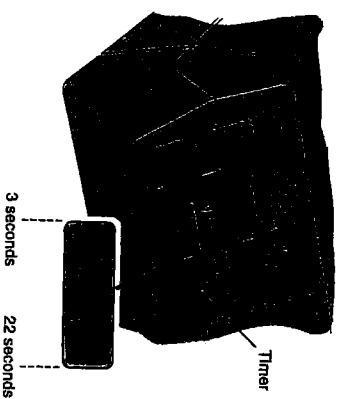
If the image is not level, make an adjustment by turning the **leveling foot** at the rear of the projector.



### Timer (Models AMT & ATS only)

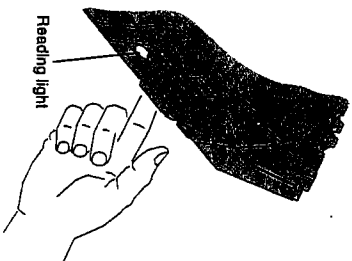
To time your slides, use the **timer** switch for slide changes from 3 to 22 seconds.

To interrupt the timer, press either the forward or reverse button. For manual operation, slide the timer switch to Off.



## Reading Light

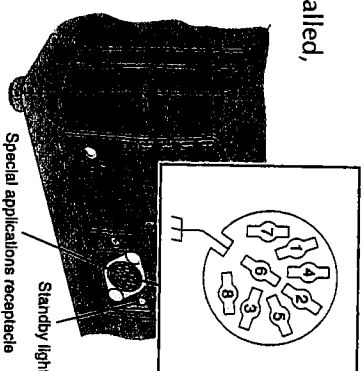
To illuminate a small area for reading, lift the reading light cover while the projector lamp is on.



A glowing **standby light** indicates a "ready" condition.

## Standby Light (Model E Plus only)

- In a dissolve program, it indicates that
- both projectors are receiving power
  - both power switches are set at fan
  - both projection lamps are properly installed, not burned out, and ready
  - both standby lights are operational
  - all thermal fuses are functional



## Special-Application Receptacle

The **special-application receptacle** allows additional external control and programming capability. It provides 22.5 V low-voltage power isolated from the main power line.

- Use this receptacle for:
- automatic "return-to-zero" devices (models A and E Plus)
  - a low-voltage power supply
  - a dark shutter switch

The receptacle accepts 8-pin plugs and DIN-type plugs with 3 or 5 pins at 180°. (See Appendix A for contact identification descriptions.)

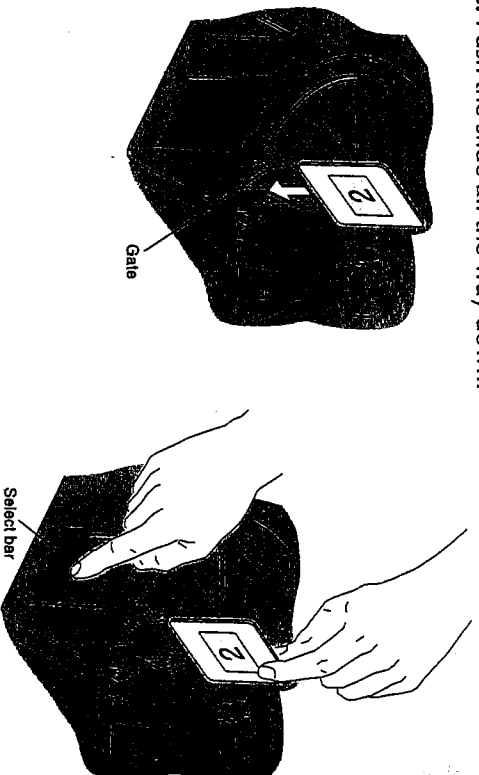
## Operation

**IMPORTANT!** All equipment, cables, and connectors used with the special-application receptacle must be assembled by qualified electronic personnel. All circuits connected electrically to the projector through this receptacle must have a rating of not more than 30 V (rms) and must comply with Underwriters Laboratories, Inc., low-voltage, limited energy circuit requirements.\*

\*UL-122, *Photographic Equipment*, Underwriters Laboratories, Inc., 333 Plingsten Road, Northbrook, IL 60062-2096; CSA Specification C222, Number 118-195 (R1965), *Picture Machines Appliances*, CSA, 178 Rexdale Boulevard, Rexdale, Ontario M9W 1R3 Canada.

## Single Slides

To project single slides, slide the power switch to a half- or full-lamp position. Remove the tray and insert a slide upside down into the projector gate. Push the slide all the way down.



After viewing the slide, press forward, reverse, or the **select bar** to eject the slide.

## Selecting Slide Projection Lenses

When buying a lens, consider features such as focal length (measured in millimetres), aperture (designed as an *f/stop*), and the lens design (curved or flat).

When selecting a lens, remember that the shorter the focal length (i.e., the smaller the *f/number*), the brighter the projected image. Also, a curved-field lens, in combination with cardboard open face mounts from an automated mounting process, provide superior projection quality. A flat-field lens is the best choice for glass-mounted slides.

**Choosing a Curved- or Flat-Field Lens**  
 All ratings are based on proper insertion and orientation of a slide for projection; i.e., emulsion side **toward** the projection lens, slide curve toward the light source.

- For best results with rear-projection applications, use a flat-field lens and glass mounts.
- For best results with duplicated slides, use a flat-field lens.

English

Better = 1  
 Worse = 5

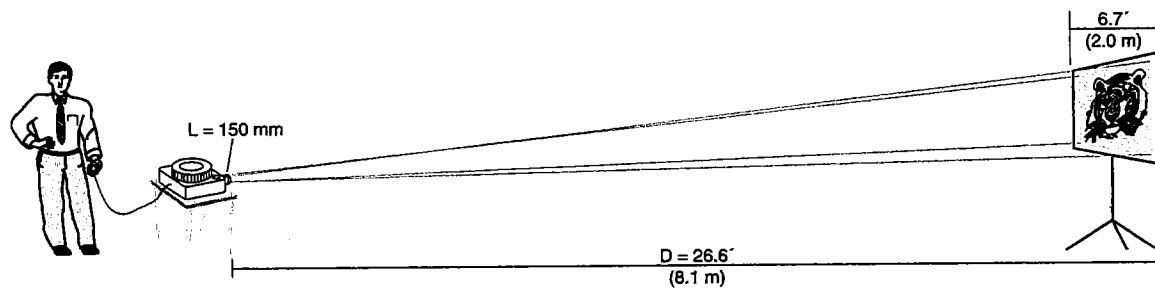
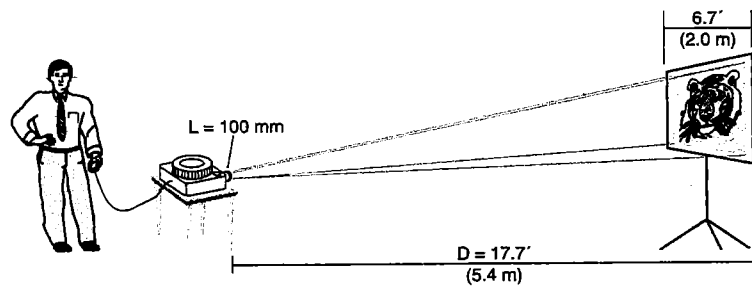
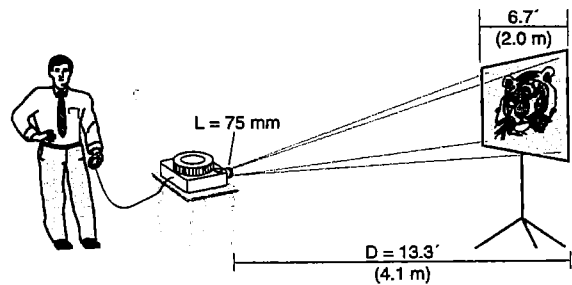
| Lens Type    | Embossed Cardboard* | Non-embossed Cardboard <sup>†</sup> | Glass | Plastic | Mixed (Any type) |
|--------------|---------------------|-------------------------------------|-------|---------|------------------|
| Curved-Field | 1                   | 2                                   | 3     | 4       | 3                |
| Flat-Field   | 3                   | 2                                   | 1     | 2       | 2                |

\* Kodalux Processing Service and other large photofinishers provide consistent quality cardboard mounts. This is important in maintaining reliable focus throughout a presentation. Kodalux mounts have beveled edges around the aperture for pre-heating and "popping" the film. An *embossed* cardboard-mounted slide with a curved-field lens provides high image quality at a low cost.

<sup>†</sup> *Non-embossed* cardboard mounts provide consistent quality cardboard mounts from slide to slide but do not have a beveled edge around the aperture.

**Lens Focal Length/ Projector Distance** Use the illustration on the following page to help determine the lens focal length and projector distance.



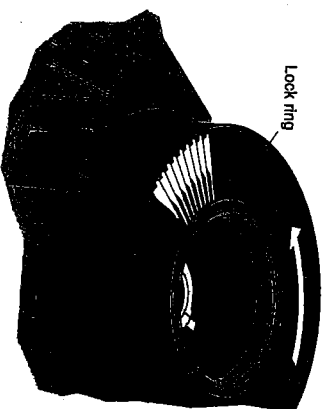


| L      | D     |
|--------|-------|
| 75 mm  | 13.3' |
| 100mm  | 17.7' |
| 125 mm | 22.2' |
| 150 mm | 26.6' |
| 175 mm | 31.0' |
| 200 mm | 35.4' |

## Editing Your Presentation

### Removing the Lock Ring

To add or remove the slides in the tray, you must first remove the **lock ring**. Turn the ring counterclockwise and lift off.



### Removing a Slide

Rotate the tray to the slide you wish to remove. Firmly press and hold down the **select bar** to eject the slide.



### Adding a Slide

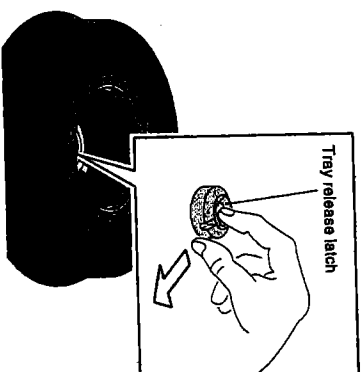
When the lock ring is off, you can add a slide to any empty slot. (See page 7.)

Replace and secure the lock ring.

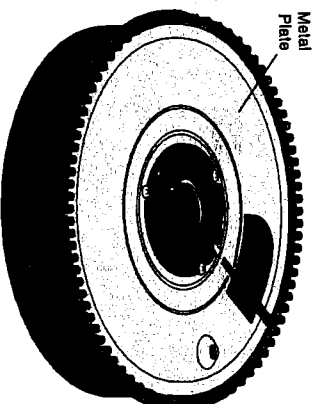
## Clearing a Gate Jam

To remove a defective slide or foreign object stuck in the projector gate, you need to remove the tray.

- Slide the **tray release latch** in the direction of the arrow, and
- with your other hand, lift off the back of the tray.



Rotate the metal plate on the bottom of the tray until it locks into position. (For a 140-slide tray, see page 6.) Put the tray aside.



Remove the slide or object from the projector gate by pressing the forward button or removing the slide manually.

Remount damaged slides to protect your projector and slides from subsequent damage.