

KODAK
CAROUSEL
PROJECTOR
MODEL

550

features

Jamproof • Design of this projector, with the slide tray on top, insures jamproof operation. Even though a bent or broken slide may “hang-up” in the gate, the slide tray can always be lifted off and the defective slide removed.

Round Slide Tray • Placed upright on top of the projector, the tray accommodates 80 slides. Tray accepts 24 x 36-mm, 28 x 40mm, and 1½ x 1½-inch slides in cardboard, glass, metal, or plastic mounts of 1/10 inch thickness or less. Slide-identification numbers are molded on the tray. The lock ring fits on top of the tray and keeps slides from spilling. Ring is removable for loading or editing during projection.

Automatic Timer • Projector shows slides for 5-, 10-, or 20-second periods. Split-second intervals between slides eliminate long dark-screen periods.

Forward or Reverse Semiautomatic Changing • Depress the forward (FWD) or reverse (REV) button at the rear of the projector; slides are power-changed in the desired direction.

Remote Changing and Focusing • Twelve-foot, remote-control cord (furnished) changes slides (forward or reverse) by simple push of a lever—even when projector is set at “automatic” interval. One or more 25-foot, remote-control extension cords (available from your dealer) can be added to the twelve-foot cord. Focusing wheel permits movement of the lens forward and back for away-from-the-projector focusing.

Showing Single Slides • Insert slide into projector gate. Depressing the select button retrieves slide from gate.

Select-o-matic • Select-button operation lets you show any slide in the tray at any time.

Minimizes Focus-Shift • Special, built-in duct circulates temperature controlled air over every slide, “treating” each before projection.

Brightness-Selector Buttons • Depressing HIGH or LOW button provides a choice of 500- or 300-watt brilliance for different projection conditions.

Handy Elevation and Focusing Controls • Finger-tip elevation knob and focusing knob work smoothly, never need lubrication. Elevation from 0° to 9°.

Big, Sharp Pictures • Kodak Projection Ektanar Lens, 5-inch f/3.5, lets you focus as close as 4 feet from the screen. Gives brilliant, needle-sharp pictures. This lens and the available 3-, 4-, 5-, and 7-inch lenses, and the 3¼- to 6¼-inch zoom lens cover your projection requirements.

Compact • The Kodak Carousel Projector is only 5½ inches high, 12½ inches wide, and 13 inches long. It weighs less than 20 pounds.

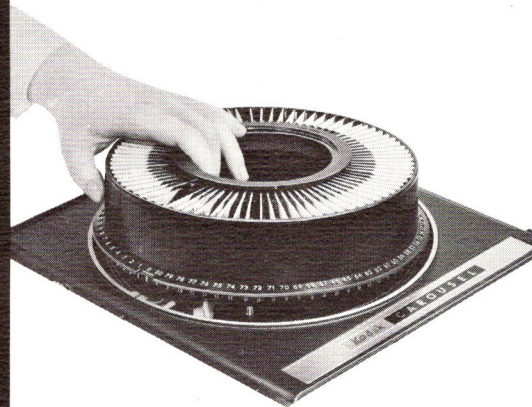
Carrying Handle • The carrying handle is attached near the front of the projector. Cover of slide-tray box can be used as built-in screen.

simple steps to show slides on screen

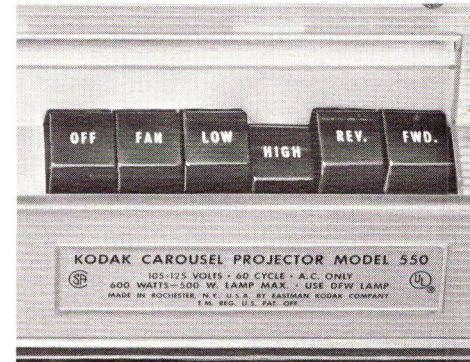
1 Set up the projector



2 Seat loaded slide tray

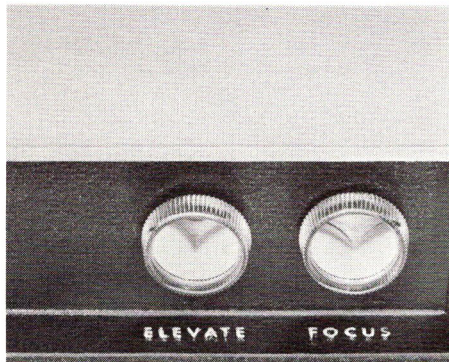


3 Depress either the HIGH button (500-watt illumination) or the LOW button (300-watt illumination)





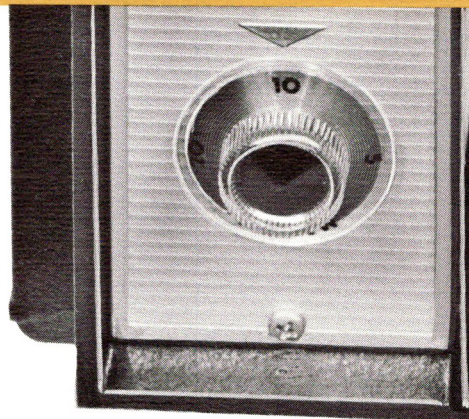
4 Elevate the projector



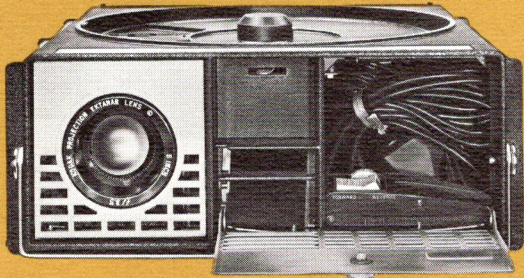
5 Set automatic timer at **MANUAL** and momentarily depress the forward (**FWD**) button to put the first picture on the screen; then focus the picture



6 Set automatic timer at 5, 10, or 20 (seconds)



setting up



POWER CORD

Place the projector on a table, with the carrying handle away from you. Swing the handle downward as far as it will go so that it will not interfere with the lens. Open the door of the cord compartment and remove the power cord and the remote-control cord (if it is to be used). A spare projection lamp can be stored in the compartment.

POWER SUPPLY

Plug the socket end of the power cord into the 2-prong, power-cord receptacle on the back of the projector; plug the other end of the cord into a 105- to 125-volt, 60-cycle, a-c electrical outlet. If the voltage of your electric supply is not known, ask your electric service company.

SCREEN AND SEATS

Because slides may be either horizontal or vertical, a square screen is most convenient. It should be large enough for easy viewing by everyone present and should be at the same level as (or higher than) the projector.

For best results, the rear row of seats should not be further from the screen than six times the longer dimension of the projected picture. Place the seats as close as possible to both sides of the beam thrown by the projector. The picture appears most brilliant and life-like when you are seated near the projector beam.

Distance in Feet from Projector Lens to Screen

Long Dimension of Projected Picture	35mm (24 x 36mm)						828 (28 x 40mm) Slides and 1 $\frac{5}{8}$ -inch sq. Super-Slides					
	3-inch Lens	4-inch Lens	5-inch Lens	7-inch Lens	Zoom Lens at 3 $\frac{3}{4}$ "	Zoom Lens at 6 $\frac{1}{4}$ "	4-inch Lens	5-inch Lens	7-inch Lens	Zoom Lens at 3 $\frac{3}{4}$ "	Zoom Lens at 6 $\frac{1}{4}$ "	
40"	8	10	13	18	10	16 $\frac{1}{2}$	9	12	16	9	15	
50"	9	12	15	21	12	20	11	14	19	11	18	
60"	11	15	19	27	14 $\frac{1}{2}$	24	14	17	24	13	22	
70"	14	18	23	32	17	28	16	20	29	15	25	
84"	16	21	26	37	20	33 $\frac{1}{2}$	19	24	33	18	30	

KODAK PROJECTION ZOOM LENS, 3 $\frac{3}{4}$ -to 6 $\frac{1}{4}$ -inch, f/3.5

This zoom lens lets you vary the size of the projected image so that it fills the screen without your having to move either the projector or the screen. Also, if you wish, you can enlarge any part of the picture on the screen.

USING THE ZOOM LENS

1. Focus the picture on the screen by turning the focus knob back and forth.
2. Slide the lens barrel forward or back until the picture fills the screen.
3. At some projection distances it may be advisable to refocus the picture on the screen by turning the focus knob for maximum sharpness.

SLIDE TRAY

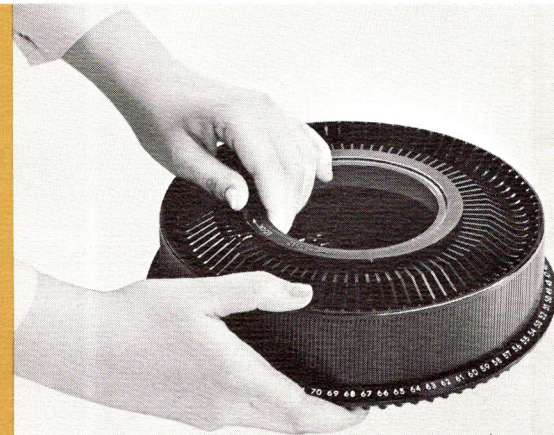
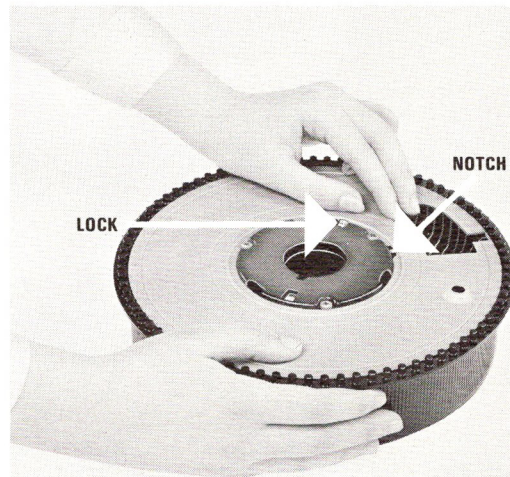
Furnished with the projector is a slide tray that holds 80 slides. The tray accepts 35mm (24 x 36mm), 828 (28 x 40mm), and 1 $\frac{5}{8}$ x 1 $\frac{5}{8}$ -inch slides in cardboard, glass, metal, or plastic mounts of 1/10 inch thickness or less. Slides mounted with *loose or sticky tape or mounts that have sharp glass corners are not recommended for use in the slide tray*. Slide-identification numbers are molded onto the tray. As the tray revolves, the number of the slide being shown will be opposite the gate index on the projector.



LOADING SLIDE TRAY

Check to be sure that the LOCK on the bottom of the tray is engaged in the NOTCH in the metal slide-retainer. If it is not, turn the retainer until the lock engages the notch in the retainer.

Remove the lock ring from the top of the tray by turning it in the direction of the arrow marked UNLOCK; then lift off the ring. Insert a slide in each open slot in the tray, with the top of the picture down and the bordered side of each cardboard-mounted slide (or the emulsion side of a glass, metal, or plastic-mounted slide) facing toward



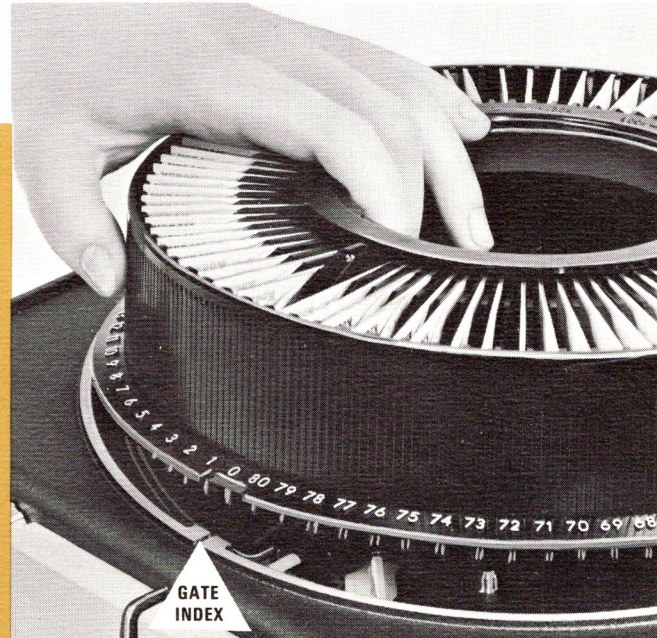
the next lower number; for example, the bordered (or emulsion) side of slide No. 2 should face toward slide No. 1; No. 6 should face toward No. 5, etc.

Replace the lock ring, turning it in the direction of the arrow marked LOCK until the detented action can be felt at least once or twice and the ring is secure on the tray.

NOTE: If you wish continuous-repeater operation, addition of a title slide, or darkening of the screen after the showing of 80 slides, see page 12.

PLACING SLIDE TRAY ON PROJECTOR

Put the loaded slide tray on the projector so that the hole in the center of the tray fits over the center post on the top of the projector; then revolve the tray slowly until the identification number "0" is opposite the GATE INDEX on the projector. Push the tray down into operating position on the top of the projector. If the slide tray does not fit, see "Loading Slide Tray."



operation

PROJECTION LAMP

With the automatic timer set at **MANUAL**, turn on the projection lamp by depressing either the **HIGH** button (500-watt illumination) or the **LOW** button (300-watt illumination).

Momentarily depress the forward (**FWD**) button to put the first slide into viewing position.

ELEVATION

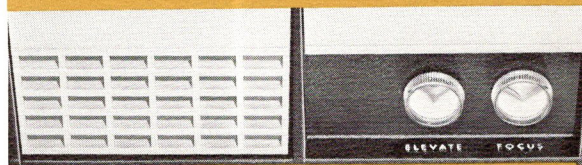
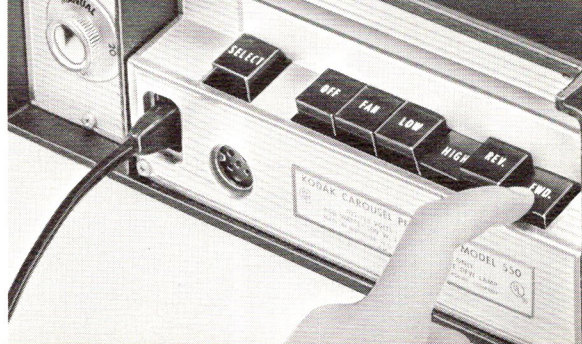
To center the projected image on the screen, elevate the projector by turning the **ELEVATE** knob. Level the projector, if necessary, by turning the **LEVELING WHEEL**. If the cover of a slide-tray box is used as a preview screen, it should be about 4 feet from the projector.

FOCUS

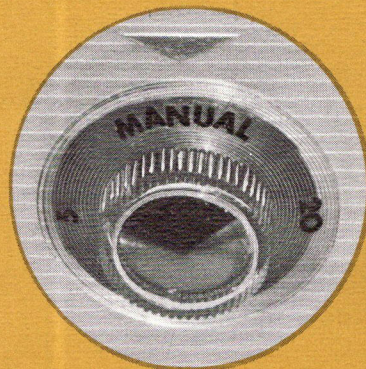
Focus the picture on the screen by turning the **FOCUS** knob back and forth.

AUTOMATIC TIMER

The automatic timer has four settings—**MANUAL**, 5, 10, and 20 (seconds). With the timer set at 5, 10, or 20, the slide-changing mechanism is actuated automatically and the slides are shown on the screen for the number of seconds indicated by the automatic timer.



LEVELING WHEEL



FORWARD (FWD) AND REVERSE (REV) BUTTONS

Set the automatic timer on MANUAL and then momentarily depress the forward button, to advance the slide tray, or the reverse button, to reverse the slide tray. Holding either button depressed will advance or reverse the slide tray for scanning.

REMOTE CONTROL

A remote control having both a rocking-type lever for advancing or reversing the slide tray and a rocking-type wheel for power-focusing the lens, is furnished with the projector. Plug the remote control into the remote-control socket at the back of the projector. The small dot on the plug should be upward when the plug is engaged in the socket. Depress the LOW or HIGH button to turn on the projection lamp. Set the automatic timer to MANUAL. Momentarily depress the front or back of the rocking-type lever to change the slides (in a forward or reverse direction, respectively) at any desired time-interval.

NOTE: The fully automatic operation can be interrupted at any time by use of the forward or reverse button, or the remote control. Momentarily rotating the rocking-type wheel forward or backward causes the projection lens to focus forward or backward respectively.



REMOVING SLIDE TRAY

With the projector turned on, you may remove the slide tray quickly by depressing and holding the SELECT button; at the same time, rotate the slide tray until the identification number "0" is opposite the gate index on the projector. Release the select button and then lift off the slide tray.

SKIP PROJECTION

Depress and hold the SELECT button; then rotate the slide tray until the number of the slide you wish to project is opposite the gate index on the projector. Release the select button; the selected slide will be immediately projected. This permits your showing any individual slide out of sequence.

EDITING SLIDES—SHOWING SINGLE SLIDES WITHOUT SLIDE TRAY

If this is the first time you have viewed the slides, you may want to edit them as you load them in the slide tray, or you may wish to show single slides.

Set the automatic timer on MANUAL. Insert a slide, correctly oriented, into the slide mechanism. Push the slide down into the mechanism as far as it will go. After



viewing the slide, depress the SELECT button; the slide will be ejected from the gate. Slides of any make or thickness can be shown by this method.

NOTE: If you wish to use an extra slide, for continuous-repeater operation, or a title slide (one is furnished) insert the slide into the gate before putting the slide tray in position. If you want the screen to be dark after you have shown a tray of slides, insert a 2 x 2-inch piece of thin cardboard into the gate before putting on the slide tray. The slide or piece of cardboard will enter the blocked-off space in the slide tray during projection and be returned to the gate when the slide tray is removed.

SELECT BUTTON

Depress and hold the **SELECT** button, at the same time rotating the slide tray in either direction to align with the gate index the identification number of the particular slide you wish to show. When you release the button the selected slide will be "on the screen." Depressing the select button provides instant "editing" of the projected slide.

AFTER THE SHOW

1. If automatic slide-changing is being used, turn the automatic timer to **MANUAL**.
2. Remove the slide tray (identification number "0" at gate index).
3. Depress the **FAN** button; allow the fan to run until the projection lamp has cooled; then depress the **OFF** button.
4. Unplug the power cord. Fold the cord by putting the two ends of the cord together and folding it in about 5-inch lengths. Replace it in the cord compartment. Unplug and replace the remote control (if used).
5. Lower the projector by turning the **ELEVATE** knob counterclockwise.
6. Turn the **FOCUS** knob counterclockwise to retract the lens.

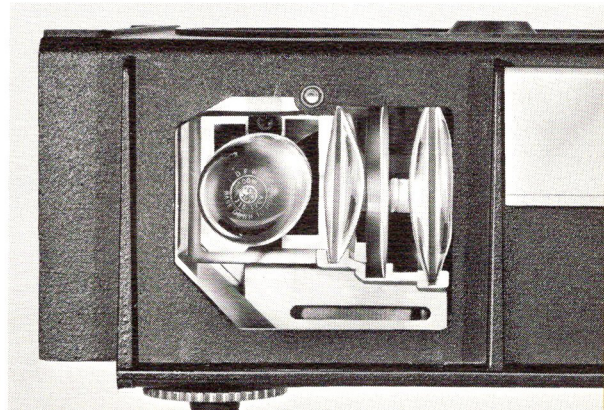
CARE OF THE PROJECTOR

WARNING: After use, always make sure that the power cord is disconnected and that the projection lamp has cooled sufficiently before attempting to disassemble the projector for cleaning or lamp replacement. Cooling can be accelerated by running the fan with the lamp turned off; just depress the **FAN** button.

PROJECTION-LAMP REPLACEMENT

Remove the **OPTICS COVER** by turning the cover screw toward the back of the projector until the cover can be removed from the projector. Remove the lamp by pulling it straight out.

To install a lamp, place the center post of the lamp in



the center hole of the socket; rotate the lamp until the key on the center post locates in its socket slot; then push the lamp in *all the way*. The replacement lamp should be an ASA code DFW lamp (500-watt, 115- 120-volt, T-12 bulb, C-13D filament). Replace and secure the optics cover.

SERIAL NUMBER

Each Kodak Carousel Projector has a serial number stamped on the rear inside wall of the cord compartment. Open the compartment door and make a note of this number for your records.

CLEANING

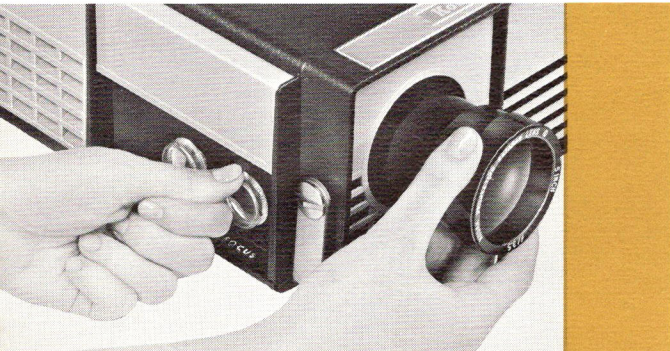
The optical system of your projector must be kept clean if it is to continue to give the best results. Dust or fingerprints on the lenses will reduce the brightness of the picture on the screen and will cause it to appear cloudy or flat.

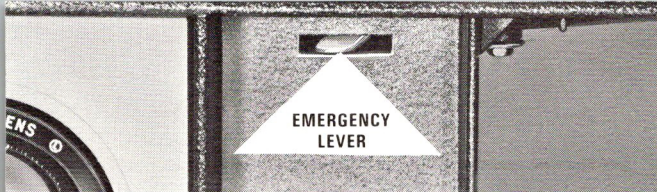
Projection Lens—Turn the focus knob until the lens is out as far as it will go. Carefully push the focus knob downward; at the same time, withdraw the projection lens. With a soft, clean, lintless cloth or Kodak Lens Cleaning Paper, wipe the front and back surfaces of the lens.

Replace the lens by again pushing the knob downward and guiding the lens back into position. The lens should be far enough into its recess that the gear teeth on the bottom of the lens barrel will be engaged by the gear on the focus-knob shaft.

Condenser Optics—Remove the optics cover as described above. Carefully lift out the condenser lenses and the heat-absorbing glass, one at a time. Clean both sides of the condenser lenses and heat-absorbing glass with a clean, soft, lintless cloth or Kodak Lens Cleaning Paper. Be careful not to leave fingerprints on the elements. Replace the condenser lenses and heat-absorbing glass. The small condenser lens fits in the guides nearest the projection lamp, with the flat side of the condenser toward the lamp. The heat-absorbing glass fits in the center guides, and the large condenser lens in the guides nearest the front of the projector. Replace the optics cover.

Emergency Lever—If the slide-changing mechanism should become inoperative because of a defective slide, foreign object, etc, turn the automatic timer to MANUAL and then turn off the projection lamp. Open the cord-compartment door and push the emergency lever toward the cord-storage compartment. While holding the lever in this position, lift off the slide tray. Because the slide tray has





been removed in this manner, the lock on the bottom of the tray is no longer engaged by the notch in the metal slide-retainer, as illustrated on page 8. Turn the retainer until the lock engages the notch in the retainer; then remove the defective slide by pushing the select button. Replace the tray on the projector.

AUXILIARY EQUIPMENT

Slide Trays—Additional slide trays in boxes are available from your dealer. Each box contains a sticker (which may be affixed to the slide tray for identification purposes) and a chart for identifying the slides in the tray.

Slide-Tray Carrying Case—Accepts 3 trays. Has shelf to hold trays securely and separately.

Lenses—Five additional lenses are available for use on the Kodak Carousel Projector, Model 550—Kodak Projection Ektar Lens, 3-inch f/3.5, Kodak Projection Ektanon Lens, 4-inch f/3.5, Kodak Projection Ektanon Lens, 5-inch f/2.8, Kodak Projection Ektanon Lens, 7-inch f/3.5, and Kodak Zoom Lens, 3¾ to 6¼-inch f/3.5 for the Carousel.

Projector Case—A heavy-duty case is available to protect your projector from dust, rain, and scuff-marks.

Extension Cord—A 25-foot extension cord is available to extend the remote-control cord beyond its 12-foot range. Several extension cords can be added to the 12-foot cord.

Kodak Cavalcade Programmer—Programmer with Adapter lets you connect Carousel Projector to a tape recorder . . . tape voice commentary and music, and put “tripper signals” on tape for each slide. In playback, the sound synchronizes with each slide as it appears on the screen, and the “tripper signals” change each slide automatically at the correct moment.



Guarantee

Within a year after purchase, any repairs necessary to this Kodak Carousel Projector due to a defect in materials or workmanship will be made or, at our option, the projector will be replaced without charge. No other warranty or guarantee, express or implied, shall be applicable to this equipment. Nor are we responsible for loss of film, for other expenses or inconveniences, or for any consequential damages occasioned by the equipment.

In case of unsatisfactory operation, the projector should be sent directly or through a Kodak dealer to Eastman Kodak Company or a repair firm authorized by us to make such repairs. It should be accompanied by a description of the trouble encountered and other available information regarding the projector, including the date and place of purchase.

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