Title: KODAK CAROUSEL/EKTAGRAPHIC Projectors: Troubleshooting

Projector Does Not Operate Slide Fails To Drop Into Projection

Dark Screen Shutter

Projector Will Not Cycle To Next

Projector Cycles Continuously

Uneven Illumination on Screen

Uneven Image Size or Proportion

No Illumination in Projector

Image Angle Is Distorted

Movement of Strange Shapes on

Early or Repeated Lamp Burnout

Focus Trouble Shooting

CAROUSEL/EKTAGRAPHIC Troubleshooting: Projector Does Not Operate

Probable Cause	Possible Solutions
No power to projector	Plug power cord into suitable
	electrical outlet; Set power switch to
Shutdown from overheating due to	Have serviced
improper ventilation (rear air flow	

Slide Fails To Drop

Probable Causes	Possible Solutions
Tray base plate not properly	Align index hole & index notch
	see Trouble Shooting Trays for how
	to align bottom plate
Tray not properly positioned on	Reposition tray on projector
Slide mount warped or frayed at	Straighten mount or remount slide
Projector not level or tilted too high	Set projector on a stand equal with
	center of screen

Projector Not Cycling

Probable Causes	Possible Solutions
Tray not properly positioned	Reposition tray
Slide or foreign object stuck in gate	See Tray Troubleshooting for
	finding a tray jam

Cycle cam, index and/or select	t
lever not functioning *	
* Remove tray, press Forward	
button; should be 3 levers mov	/ing
Elevated too high; should not	Reduce elevation

Projector Cycles Continuously

Probable Causes	Possible Solutions
Voltage irregularity (unplug remote	Use surge suppressor
if connected)	
	Power strip outlet with fuse
Timer engaged (on featured	Turn off timer
If no results, may be a bent or	Have serviced
damaged lever in linkage	
Hot relay in receiver when	Remove IR Remote Receiver and
connected with an IR Remote	replace with wire remote or operate
IR signal may be susceptible to	Turn off fluorescent lighting
high intensity interference (e.g.,	

Uneven Illumination on Screen

Probable Causes	Possible Solutions
Projection lamp not fully seated	Check lamp
Condenser lens not installed or not	Check condenser lens
positioned properly in mount	
Slide mount not seated properly in	Check slide position & slide-mount
projector gate	condition
Shutter hanging partially	Have serviced

Uneven Image Size/Proportion

Probable Causes	Possible Solutions
Gate may be damaged or out of	Have serviced
Key stoning may be occurring	Projector should be positioned
	perpendicularly at a 90° angle to

No Illumination in Projector

Probable Causes	Possible Solutions
Power switch on Off or Fan position	Set switch to Lamp
Contact pins in module may not be	Remove, then reinsert module
connecting	

Lamp not seated in socket	Check lamp
Lamp burned out	Install new lamp
	Note: Wear cotton gloves or use
	soft cloth when inserting new lamp

Image Angle Is Distorted

Probable Causes	Possible Solutions
Projector angle is incorrect	Adjust to 90°
Projector is not level	Adjust elevation feet accordingly

Movement of Strange Shapes

Probable Causes	Possible Solutions
Moisture on glass slides in high	Allow extended warm-up time
humidity environments	
	Store slides with silica desiccant to absorb moisture

Early/Repeated Lamp Burnout

Probable Causes	Possible Solutions
Rapid cooling with fan	Move selector switch directly to
	OFF position following operation
	Lamp should be ANSI approved
	consistent with recommendations in
Faulty lamp. Possibly stored in	Use lamps that have been stored at
excessive temperature conditions	room temperature
or heat sensitive areas	

Probable Causes	Possible Solutions
Internal projector components	Have serviced
allowing irregular voltage	
Restricted air flow ventilation	Air vents should be at least 3 feet
	from an obstruction

KODAK Projector Troubleshooting: Dark Screen Shutter

Probable Cause	Possible Solution
Light transmits onto screen when	Dark Screen Shutter not engaging.
no slide is in gate	Press Select Lever * to block light
	Select Lever is located on top of
	projector rim chassis behind the

Probable Causes	Possible Solutions
Lamp position on	Dark Screen Shutter remains
Light visible in rear compartment	
Tray cycles forward but no light	Step 1: Remove tray (may have to
transmits onto screen to view	press lever
slide	while rotating tray to 0-zero
	position)
	Remove a single tray from tray.
	Step 2: Shutter spring may be
	dislodged or missing. Send in for

KODAK CAROUSEL/EKTAGRAPHIC Projectors: Focus Troubleshooting

Focus Troubleshooting

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Slide Not in Proper Focus	Auto focus Runs Continuously
Uneven Edge-to-Edge Focus	
Auto focus Drifts	Auto focus Delay
No Auto focus	
All Slides Have	
Consistent Out of Focus	Slight Out of Focus
Portions Out of Focus	Dark Portions
Some Slides Have	
Same Portions Out Of Focus	Other Factors Affecting Focus
	Behavior (AF & Non-AF
Different Portions Out of Focus	
for Corrective Lens Wearers	

CAROUSEL/EKTAGRAPHIC Focus Troubleshooting: Slide Not in Proper Focus

Probable Causes	Possible Solutions
Slide itself not sharp	Examine slide for proper focus
First slide in tray not properly	Focus center of first slide manually
Slide in different type of mount from	Focus manually
Projection lens improperly installed	Make sure lens is moving when
	turning focus knob

Uneven Edge-to-Edge Focus

Probable Causes	Possible Solutions
Slide itself is not sharp	Examine slide condition
Curved field lens used with glass,	Tray a flat field lens; see Flat Field
plastic, or non-embossed mounts	versus Curved Field Lens under
Curved field lens used for rear	Use a flat field lens

Auto focus Runs Continuously

Probable Causes	Possible Solutions
Using mixed mounts:	Step 1: Turn off Auto focus (Not
	an option w/CAROUSEL or
	Step 2: Adjust focus manually (Not
	an option w/CAROUSEL 4600 or
Cardboard or plastic w/glass	
Multi-aperature (e.g., stereo)	If Autofocus use is necessary, have
	duplicate slides made in same type
	of mount (cardboard or plastic)
Matte surface write-on w/different	
colored backgrounds *	
Ambient infrared light from lamp	Replace lamp. If older model
interferes w/photocell beam	(unpainted metal), replace w/Extra
	Bright Lamp Module (black housing
	assembly) to absorb & control stray

Auto focus Drifts

Probable Causes	Possible Solutions
Excessive curvature or lack of uniformity of film	Pre-warm slides w/projector lamp on for approximately 30 seconds and rotate tray slowly 30 degrees by pressing Select Level and
or	If no results:
Moisture from humidity on slide	turn Auto focus off (if possible) or fine-tune w/remote or
(if prolonged humidity, fungus may have formed)	have duplicates made in open mounts
Projector or screen is subject to vibration	Adjust properly on smooth, flat surface away from other machine

Probable Causes	Possible Solutions
Slides may shift position if mounted	Allow longer pre-warm time before
in less rigid plastic mounts	setting focus on first slide
Fixed focus lens, if used, may be	Reinsert lens correctly
installed backwards*	
* Print information on lens periphery	
should be facing the screen	
Lamp may have a hairline fracture	Rotate lamp 180 degrees. If no
near base scattering IR light	results, replace lamp

Probable Causes	Possible Solutions
Ambient infrared light from lamp	If older model (unpainted metal),
interferes with photocell beam	replace with Extra Bright Lamp
	Module (black housing assembly)
Only occurs when no slide is in gate	Use blanking slides with models manufactured prior to 1/97 *
	or
	Turn off AF (EKTAGRAPHIC
	Internal cut-off switch added to eliminate open gate drifting of auto

No Auto focus

Probable Causes	Possible Solutions
Null needs adjustment or faulty	Have serviced by an authorized

Auto focus Delay

Probable Causes	Possible Solutions
Auto focus trying to adjust for	Use glass mounts
warped mount (if cardboard) or	
excessive curvature and flex in film	
KODACHROME film has a thicker	
base & is less susceptible to	
popping but will not withstand	
projection as well as	
	•

Consistently Out of Focus

Problem: Consistently out of focus when autofocus engaged but OK when adjusted manually

Probable Causes	Possible Solutions
Faulty photocell or circuit board	Have serviced by authorized
Fixed focus lens, if used, may be	Reinsert lens correctly
installed backwards*	
* Print information on lens periphery	
should be facing the screen	

Portions Out of Focus

Problem: All slides consistently have portions of an image out of focus with or without autofocus engaged

Probable Causes	Possible Solutions
Slide gate may be out of	Have serviced by an authorized
alignment or pressure pads may	technician
Condenser lens is out of	

Slightly Out of Focus

Problem: All slides slightly out of focus with or without autofocus engaged & subject orientation reversed

Probable Causes	Possible Solutions	
Slides mounted with emulsion	ion Have slides remounted with	
facing lamp	emulsion facing the screen	
Loaded without proper orientation	Make sure slides are properly	
	orientated in the tray (number will	
	usually be in the upper right corner	

All Have Dark Portions

Problem: All slides have dark portions and behavior is not consistent with another projector with the same

Probable Causes	Possible Solutions
Internal optical components may be	Clean optics with lens cleaner
condenser lens mirror heat absorbing glass	

CAROUSEL/EKTAGRAPHIC Focus Troubleshooting: Same Portions Out Of Focus

Problem: Some select slides have the **same portions** of an image out of focus with or without autofocus engaged and behavior is consistent with another projector with the same lens

Probable Causes	Possible Solutions	
Original exposure may lack correct	Make certain the camera is working	
focus or depth of field	properly and re-shoot the slide	
Dirt, fungus or foreign matter on	Clean slide Find <damage></damage>	

Different Portions Not Focus

Problem: Some select slides have the **different portions** of an image out of focus with or without autofocus engaged and behavior is consistent with another projector with the same lens

Probable Causes	Possible Solutions
Lens may have aberration in one or	Replace the lens
more elements	

Other Factors Affecting Focus

NOTE: This info applies to AF & Non-AF Projectors

Probable Causes	Possible Solutions	
Environment	Control the temperature, humidity &	
	time allotment for adjusting	
	If slides react more favorably to	
	warmer conditions when presented,	
	the EKTAPRO 80 Slide Tray will	
	retain approximately. 30 percent	
	more heat to expedite popping (into	
Mixed Slides	Don't mix slides with varying base	
	thickness (e.g., KODACHROME &	
	EKTACHROME dupes can be made from both.	
WILLES	thickness (e.g., KODACHROME & EKTACHROME dupes can be	

Flat- Versus Curved-field lenses - Rack Mount Lenses from Kodak

Flat Field Lenses - RECOMMENDED FOR MAJORITY OF APPLICATIONS

Designed to be used with glass mounted slides Used for open frame slides where film is held relatively flat in the mount For mixed glass slides & open-framed mounts, or slides having the emulsion toward the lamp **Curved Field Lenses** compensate for curve of transparency when mounted in open frame, permitting improved center-to-corner shartness on the screen

The curved field lens was made to specifications for open-face mounts in the 1960's and 1970's. Curved field lenses can often be identified by the blue printing on the front of the barrel of the lens. It also can have the letter C in its name, such as EKTANAR-C lens. 102 and 102-152mm are also curved field lenses.

NOTE: Both flat field and curved field lenses can be used in the EKTAGRAPHIC, EKTAGRAPHIC III, and CAROUSEL Projectors

For Slide Type	Flat Field	Curved Field
Open-frame cardboard or plastic	Recommended	Acceptable
Glass-mounted	Recommended	Acceptable
Duplicates, emulsion away from	Acceptable	Not Recommended
KPP open-frame cardboard *	Acceptable	Recommended **
Rear screen projection application	Recommended	Not Recommended
Mixed or unknown	Acceptable	Not Recommended

^{*} Kodak Processing uses an embossed "automated" cardboard mount with a beveled edge

^{**} With flat screen and front