



# FOCUS TROUBLESHOOTING GUIDE

For KODAK EKTAGRAPHIC and CAROUSEL Slide Projectors

The purpose of this Troubleshooting Guide is to isolate the focus problem to one area of the optical path and to determine if your slide projector needs service.

## You will need:

- A good slide
  - With a sharp image known to be in focus
  - As flat as possible, not warped; a glass slide mount is preferred
  - Or use a Kodak target slide (call 1-800-242-2424, ext. 10 to obtain one)
- A flat field lens
- A flat screen or projection surface
- Your projector

Many factors can cause slides to appear out of focus. Some focus problems require service, some, a simple adjustment that you can make. Before you send your projector in for service, eliminate some of the other possibilities that can affect focus.

## SLIDES

Check your slides to see if they are warped or have damaged mounts.

## LENS

Check below to see if you are using the right lens for your application.

**Flat Field:** We recommend using a flat field lens for most general slide projector applications. It presents the sharpest image when used with an assortment of slide mounts. If you do not have a flat field lens to test with, ask your local AV dealer for help.

**Curved Field:** A curved field lens is recommended only for use with open-faced mounts created with an automated cardboard mount machine. This process causes a slight curvature, which is corrected with the curved field lens. This is a special lens for a special purpose and can cause focus problems with slides that are not curved.

## SCREEN

A flat screen or surface should be used for most slide presentations. A curved screen purchased for unique applications should not be used to assess your focus problem.

## TROUBLESHOOTING PROCEDURE

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- 1) Set projector on a sturdy, flat surface about 10 feet from a flat screen.
    - a. Be sure the projector is perpendicular to the screen.
    - b. While testing the focus, do not use the elevation foot; it is important to keep the projector level and not on an angle.
  - 2) Insert your target slide (it is important that this slide be flat, glass-mounted if possible, and contain a sharp image that is known to be in focus. Call Kodak at 1-800-242-2424, ext. 10 if you need a target slide.).
  - 3) Turn on the projector power and lamp.
  - 4) Turn the autofocus *off* if you have that feature on your projector.
  - 5) Focus the center of the slide.
  - 6) Are the 4 corners of the slide in focus?
    - a. If **YES**, the projector and lens are okay and do not need repair.
    - b. If **NO**, continue troubleshooting.
  - 7) Are you using a curved field lens?
    - a. If **YES**, you will need to obtain a flat field lens from your local AV dealer or return your projector to a service dealer for testing.
    - b. If **NO**, and you **are** using a flat field lens, continue troubleshooting.
  - 8) Replace the lamp. Be sure to seat it properly:
    - a. Turn the projector off, unplug it, and let it cool.  
**NOTE: Be sure the projector is cool before proceeding! A hot lamp or module can burn your fingers.**
    - b. Remove the lamp module.
    - c. Lift the lamp release clip and carefully remove the lamp.
    - d. Insert the new lamp.
    - e. Push down on the base to tightly seat the lamp.
    - f. Relatch the clip and push the lamp module back into the projector until it latches.
  - 9) Plug the projector in and project the target slide again, focusing on the center of the slide.
  - 10) If the outer corners of the slide are still out of focus, return the projector to your dealer for service. See service instructions below.
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## IF YOU NEED SERVICE:

Send the projector to the nearest repair dealer. To find the dealer nearest you, go to our Web site at [www.kodak.com/go/projectors](http://www.kodak.com/go/projectors) and click on Service. Or call 1-800-242-2424, ext. 10.

## When returning a projector for service, be sure to include:

- The projector
- The lens
- A sample slide that is out of focus
- A note describing the problem
- Your complete name, address, and phone number

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