WILSONWERKS

ARCHIVES

How to Use Your Bell & Howell® SUPER-QUIET Slide Cube™ Projector

Model 991
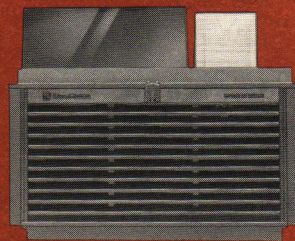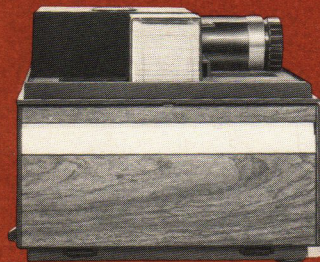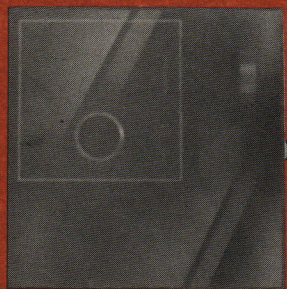
IMPORTANT: *Please read these instructions carefully before operating this unit.*

The Slide Cube™ Cartridge—A Unique Concept In Slide Projection and Slide Storage
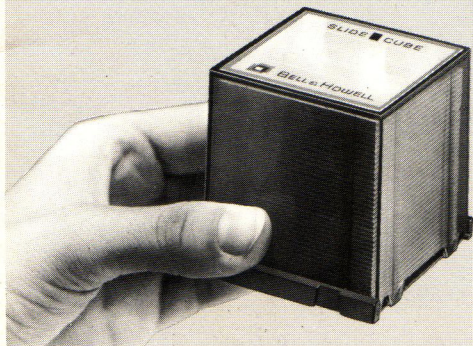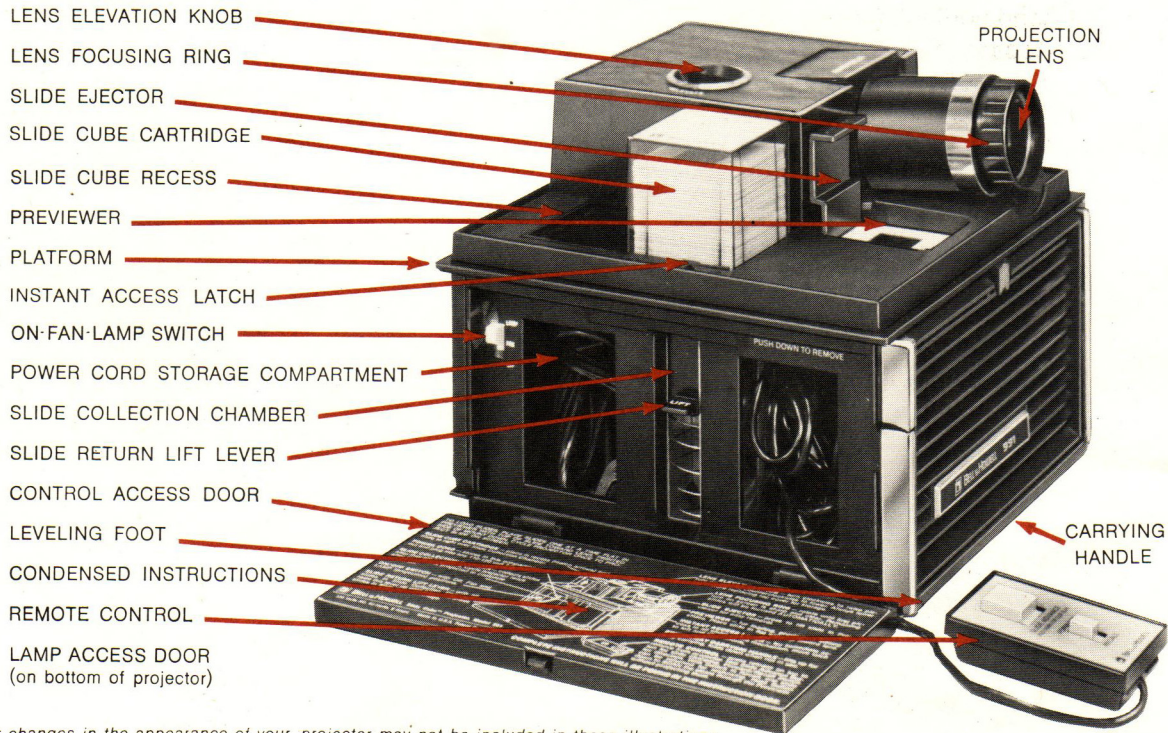

Welcome to a new world of slide enjoyment! Your new Bell & Howell projector is the very latest in precision, styling, and innovation. And with the revolutionary Bell & Howell Slide Cube Cartridge, your slides can be kept in a compact storage space in exact order, ready for instant slide shows. Bulky slide trays are now a thing of the past!

The condensed instructions on the Control Access Door of your projector are intended as reminders only. Read this complete book for detailed instructions.

Open this flap as you read through the book so the projector illustration and part names will be available for easy reference.

Here are the important parts of your projector. You'll want to be familiar with them as they are referred to throughout this book.


LENS ELEVATION KNOB

LENS FOCUSING RING

SLIDE EJECTOR

SLIDE CUBE CARTRIDGE

SLIDE CUBE RECESS

PREVIEWER

PLATFORM

INSTANT ACCESS LATCH

ON·FAN·LAMP SWITCH

POWER CORD STORAGE COMPARTMENT

SLIDE COLLECTION CHAMBER

SLIDE RETURN LIFT LEVER

CONTROL ACCESS DOOR

LEVELING FOOT

CONDENSED INSTRUCTIONS

REMOTE CONTROL

LAMP ACCESS DOOR
(on bottom of projector)

PROJECTION LENS

CARRYING HANDLE

PUSH DOWN TO REMOVE

LIFT

Minor changes in the appearance of your projector may not be included in these illustrations.

2

Setting Up The Projector

Place the projector on a firm, level surface. Position the screen just far enough away to fill the area with the picture—about 10 feet for 35mm slides and a 40″ screen, about 12 feet for a 50″ screen. With 126-size slides, the distance would be 2 to 3 feet more. Open the **Control Access Door,** pull the **Power Cord** out of its compartment, and plug it into any 110-120 volt AC 60 Hertz outlet.

Your projector can be operated with the **Remote Control** in its storage position—or you can remove it by pressing down on the latch at the top of the control and pulling it out. Note that the cord should be coiled and placed in the recess when returning the **Remote Control** to storage. Check that the platform in the **Slide Collection Chamber** (see illustration at right) is down. Push down if needed.

Slide the **Power Switch** to LAMP to turn the projection light on. Using the light, align the projector with the screen. Turn the **Lens Elevation Knob** to center the light vertically (turn clockwise to raise the lens, counter-clockwise to lower). The switch's center FAN position turns just the cooling motor on so you can cool the projector, if desired, before putting it away for storage. This feature also lets you cool the lamp before replacing it.
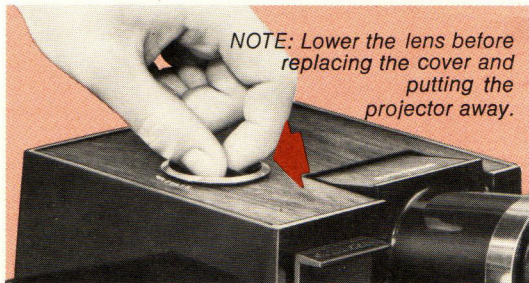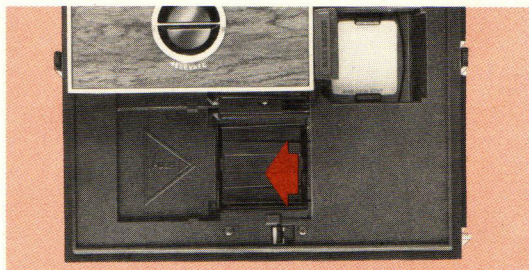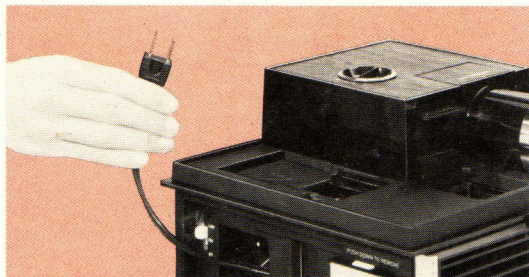
NOTE: Lower the lens before replacing the cover and putting the projector away.

Showing Slides Through The Previewer

Here's the easy way to first show your slides and become familiar with your projector. Position yourself at the control side of the projector. Hold the first slide over the **Previewer** and orient it to the way you want it to show on the screen. Place the slide in the **Previewer** recess (the top should be toward the lens). NOTE: The emulsion side of the slide, usually the mount's printed side, should be down.

With the slide in the **Previewer,** check it for proper positioning. If it is incorrect, press down on the **Slide Ejector** to tilt the slide up. Then remove, reposition, and replace it in the **Previewer.** With the **Forward/ Recall Switch** in FORWARD, slide the **Slide Advance** down (and release) to show the slide on the screen. Turn the **Lens Focusing Ring** to focus the FIRST slide—the rest will be focused **AUTOMATICALLY!**

When the first slide is projected, the **Previewer** is ready to accept another. Continue to place slides in the **Previewer** and push the **Slide Advance** to project them. See page 5. To recall a slide that has just been shown, slide the **Forward/Recall Switch** to RECALL, push the **Slide Advance,** then return the switch to FORWARD. NOTE: You can recall just one slide before going back to normal projection. See page 7.
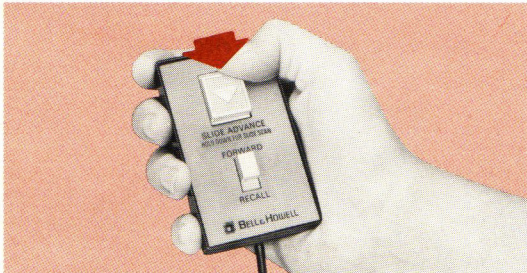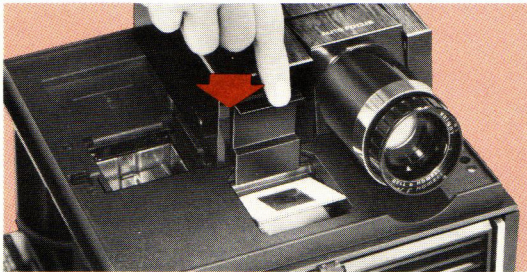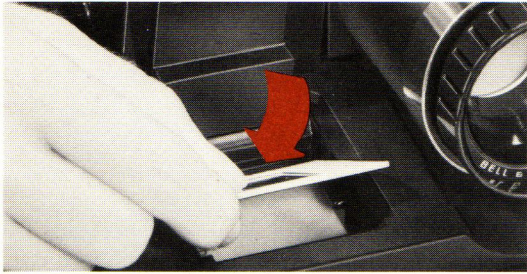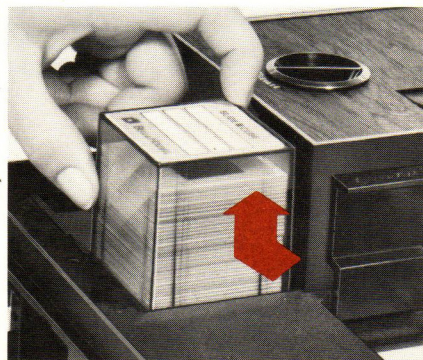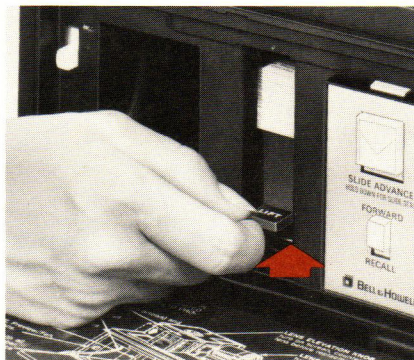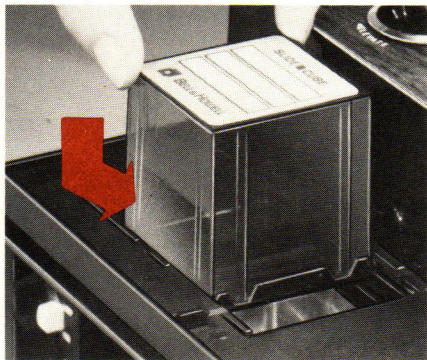
Showing Slides Through The Previewer (continued)

The projector and cartridge accept up to 40 cardboard-mounted slides and fewer plastic-mounted slides depending on thickness (maximum .085″). The lighted slot in the rear of the **Slide Collection Chamber** will be completely covered when the cartridge capacity (less two) is reached. Without a slide in the **Previewer,** push the **Slide Advance** twice to place last two slides in chamber.

Install an empty **Slide Cube Cartridge** in the left-hand portion of the **Slide Cube Recess** (match arrows on cartridge bottom and recess) and slide it all the way to the right. This opens the cartridge and positions it over the **Slide Collection Chamber.** Return slides to empty cartridge by raising **Slide Return Lift Lever** (use firm upward movement) all the way to the top until it locks.

Remove the filled cartridge from the projector by sliding it back to the left and lifting it off. Check to see that the platform in the **Slide Collection Chamber** has been pushed back down and is ready for the next slide show. Push it down if necessary. You are now ready to load and show more slides through the **Previewer,** or with a filled cartridge. See pages 6 and 7 for more information.
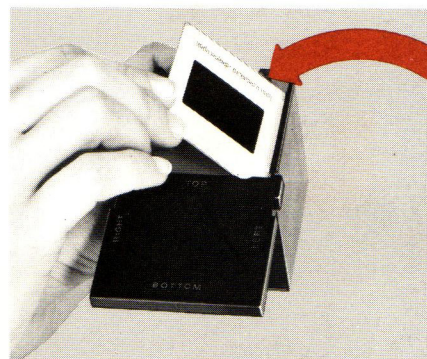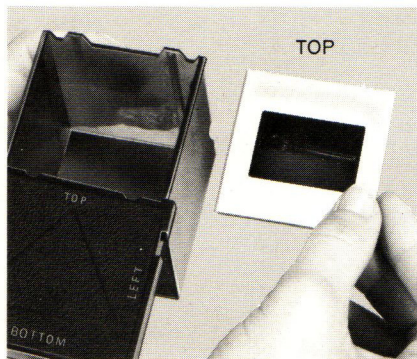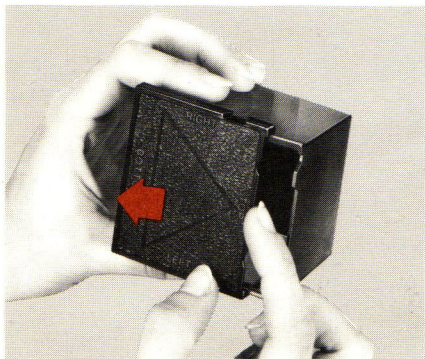
Loading The Slide Cube Cartridge By Hand

There may be times when you wish to pre-load the **Slide Cube Cartridge** by hand instead of loading the slides through the **Previewer.** To do this, first hold the cartridge upside-down as shown and slide the bottom cover to the left. NOTE: The cover does not remove but slides over and stops. The words TOP—BOTTOM —RIGHT—LEFT on cover are a guide to how slides are inserted.

Holding the opened cartridge with the left hand as shown, view the slide to be loaded by holding it with the right hand over a lighted white paper or light surface. Turn it so that you view it just as it should appear on the screen. The emulsion side of the film (usually the printed side of the mount) should be down for the subject's right and left sides to be correct. See the illustration below.

With the slide in its correct position, tip the left side down and flip the right slide over as you drop it into the cartridge. It will be in the cartridge upside-down, but the top and bottom will be correct. Continue to load the cartridge until up to 40 slides are inserted, then close the cover. IMPORTANT: The slides should be inserted in reverse order—the last slide to be shown should be inserted first, etc.

Showing A Full Slide Cube Cartridge

To install a full cartridge, just place it in the left-hand portion of the **Slide Cube Recess,** check that the platform of the **Slide Collection Chamber** is down, then slide the cartridge to the right. Switch the projector on and start the show! Use the cartridge's identification label to list the subjects and the dates. Almost any type of pen or soft marking pencil can be used.

It's not necessary to project every slide in your cartridge. To ''scan'' through your slides to project just the desired ones, hold the **Slide Advance** down until the slide you want moves by the **Previewer—** then quickly release the button. You'll now have your selected slide on the screen. None of the other slides were shown.
This is also a good way to preview a full cartridge quickly.

Your Slide Cube projector has a ''recall'' feature which lets you bring back and project the slide that has just been shown. To recall a slide, just move the **Forward/ Recall Switch** to RECALL and push the **Slide Advance** down once. When the recalled slide has been projected, return the switch to FORWARD. NOTE: This feature lets you recall just the previously shown slide, not a full series.
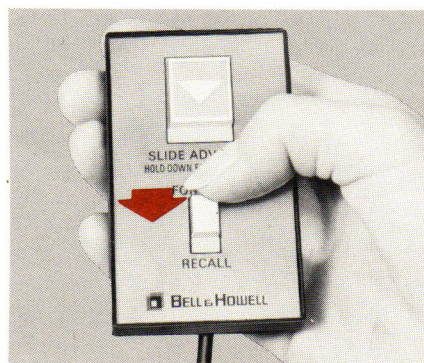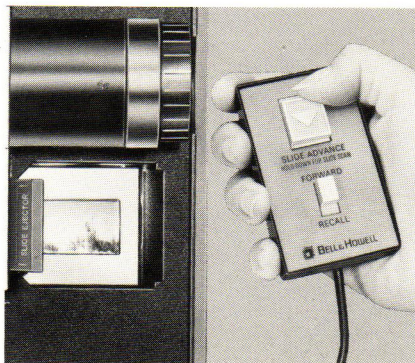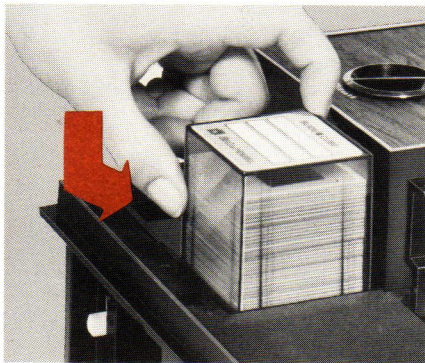
Caring For Your Projector

To install a replacement Quartzline lamp (ASA Code ELH), run the projector with the switch in the center position until the old lamp has cooled THOROUGHLY. Turn the switch OFF, UNPLUG THE POWER CORD, and turn the projector on its side or back. To remove the **Lamp Access Door** (on the projector bottom), move the **Lock Knob** to UNLOCK and lift the door off. Move the **Lamp Ejector Lever** back (toward the socket) until the lamp is partially pushed out, then remove it with your fingers. To install a new lamp, line up the two pins with the two socket grooves, have the back of the reflector under the retaining springs, then push the lamp straight in to seat. Replace and lock the door.

The slide changing mechanism is easily accessible in case of a jam caused by a poor slide. Move the **Instant Access Latch** to the left (rear) and lift the **Platform** up to the vertical position. See page 9 for slide correcting. NOTE: Remove the cartridge before lifting the **Platform.**

Use a soft damp cloth (no solvents) to clean the projector's exposed surfaces and top. The projection lens can be pulled out and cleaned with a soft, lintless cloth. Lens cleaning fluid may be used sparingly. Use a soft brush on the **Reflecting Mirror** if cleaning is needed. **NOTE:** Plastic slide mounts may be damaged if left in the projection position when the projector has just been turned off.

NOTE: The projector's serial number can be found on the Lamp Access Door.

REFLECTING MIRROR
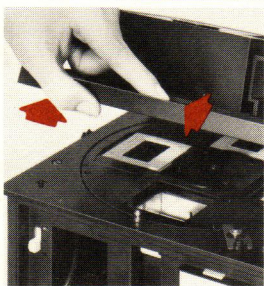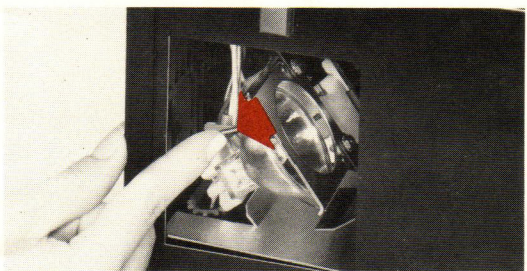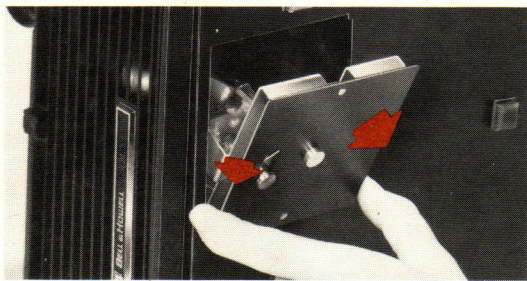
Correcting Slide Mount Problems

Jamming of the slide changing mechanism may occur if the slides you are using have warped or frayed mounts. For efficient and uninterrupted slide shows, always examine your older slides before projecting them for the first time. Bent or warped slides can usually be straightened and it is even possible to correct frayed corners. In extreme cases, remounting is necessary.

To straighten a bent or warped slide mount, hold it as shown in the illustration to the right. Gently apply pressure to reverse bend the cardboard mount—taking care not to put fingerprints on the film surfaces. Sometimes it is necessary to over-bend the mount to straighten it properly. After correcting one side, check the other sides to see if they require bending.

Slide mounts that have frayed or dog-eared corners may jam in the slide changing mechanism. If the damage to the mount's corners is not extreme, you can cut the corners off with scissors or a sharp knife and the slide will change without further problems. If the mount is badly damaged, remounting is the best correction. New slide mounts can be obtained from any photo dealer.
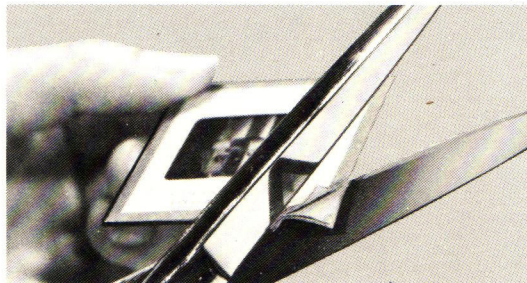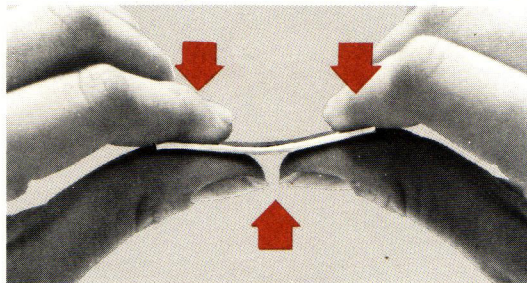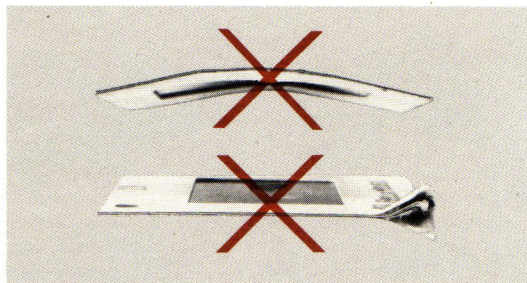
Accessories For Added Enjoyment
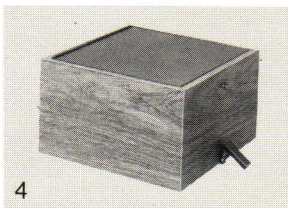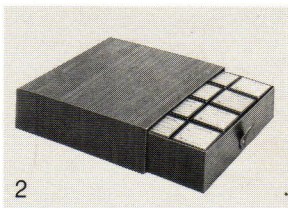
1. **2½" f/3.5 Projection Lens** No. 021249 — designed especially to project 110-size slides, gives a large picture at regular projection distances, also projects wall-size images with 35mm slides.

2. **Slide Cube Cartridge Library Book** No. 072706 — has pull-out drawer, wood-grain styling, index label for shelf storage, comes complete with 16 Slide Cube Cartridges.

3. **Slide Cube Cartridge 3-Pack** No. 072626 — contains three cartridges, stores up to 120 slides, box has space for identification.

4. **Deluxe Storage Top** No. 072801 — complete with nine Slide Cube Cartridges, lets you keep up to 360 slides with the projector.

5. **3" f/3.5 Projection Lens** No. 022561 — gives larger screen images at shorter projection distances with standard slides.

6. **Remote Extension Cord** No. 766274 — extends the remote control up to 25' away from the projector.

Available at your Bell & Howell dealer

**BELL & HOWELL**

DELUXE AUTO-FOLD TABLE

Legs automatically open and close; top size 16" x 19"; has built-in slide viewer; room light and projector power outlets; courtesy light; vinyl teak wood-grain finish; sturdy construction; U.L. and C.S.A. listed.

PROJECTION TABLES

**Large enough to accommodate any slide or movie projector**

Quality construction; top is 16" x 18"; control panel is angled for ease of operation. Three different models available with such convenient features as power and room light outlets; slide viewer; courtesy light; and three way switch. U.L. and C.S.A. listed.
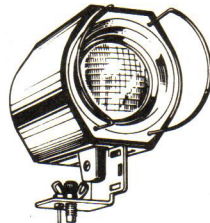
XL MOVIE LIGHTS

Designed for supplemental lighting when using ASA 160 film; 2" sealed beam lamp; 100-watt light output; types for top-mounting or with universal mounting bracket and grip; U.L. and C.S.A. listed.
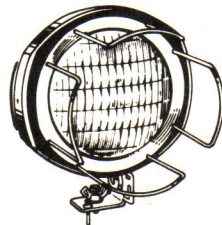
SEALED BEAM MOVIE LIGHTS

Custom designed for use with both ASA 40 and ASA 160 movie films; 250-watt light output; efficient baffle and louvre design for cooling; top-mounting and universal mount types available; U.L. and C.S.A. listed.
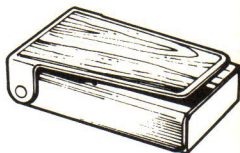
UNIVERSAL MOVIE FILM SPLICER

For super 8 and regular 8mm film; uses dry tape splices (not included); all-metal construction; stainless steel cutter; tape storage compartment; walnut wood-grain trim.

Kenco Products Are Available Exclusively From Your Bell & Howell/Mamiya Dealer

kenco   **KEYSTONE FERRULE & NUT CORPORATION** BURLINGTON, WISCONSIN 53105
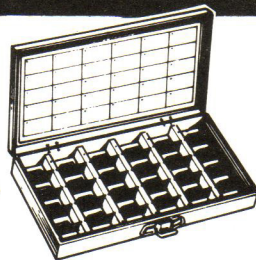
SLIDE FILES AND CASES

kenco

REELS AND CANS
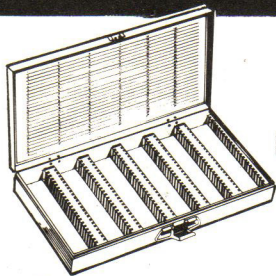
ALL-METAL INDIVIDUAL SLIDE FILE
2 x 2

Metal construction with double hinges and springlock catch assembly; luggage styled; harvest gold finish. Holds up to 300 cardboard mounts (2 mounts in each slot) or 150 glass or metal mounts. Complete with indexing system.
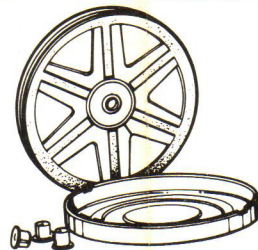
ALL-METAL GROUP SLIDE FILE
2 x 2

Metal construction with double hinges and springlock catch assembly; luggage styled; harvest gold finish. Holds up to 750 cardboard mounts or 450 glass or metal mounts. Complete with indexing system.

PLASTIC REELS AND CANS

For super 8 or regular 8mm film; built-in tape splicing jig; data write-in area; automatic film pick-up for automatic loading projectors; film-end trapping system for automatic rewind projectors; dual 8 adapter.
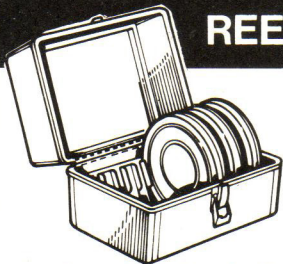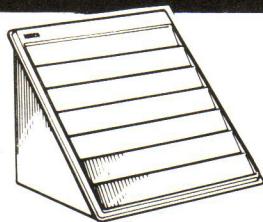
REEL CHESTS

SLIDE SORTER

MOVIE REEL CHESTS

Accepts both plastic and metal 8mm reel and can sets as well as recording tape reels; unique staggered positioning of cans for ease of handling; one-piece piano hinge; sturdy construction; harvest gold finish. Two different sizes 200' and 400'. Complete with indexing system.

ILLUMINATED SLIDE SORTER

Holds 42 2x2 color slides; uses bulbs up to 75 watts; metal construction (except front panel); square viewing panel; folds flat for storage; built-in on/off switch; U.L. and C.S.A. listed.

METAL REELS AND CANS

For super 8 or regular 8mm film; auto-catch hub; harvest gold finish; dual 8 adapter. Also available for 16mm film.

Kenco Products Are Available Exclusively From Your Bell & Howell/Mamiya Dealer

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