

How to use your
Bell & Howell
AUTOload
8mm
PROJECTOR

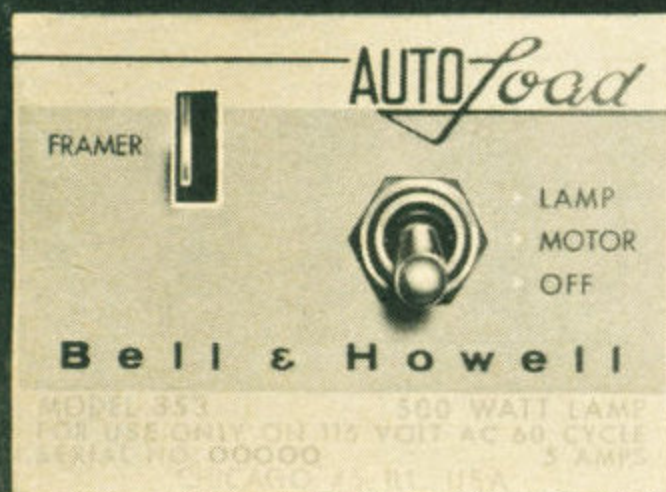


finer products through imagination

IMPORTANT

Use the self-addressed card on the booklet cover to register your projector with Bell & Howell. Registration of serial number offers these advantages.

- Initiates the Bell & Howell Guarantee. (It is void unless your projector is registered with Bell & Howell.)
- Entitles you to free correspondence counsel from our Personal Service Department at any time.



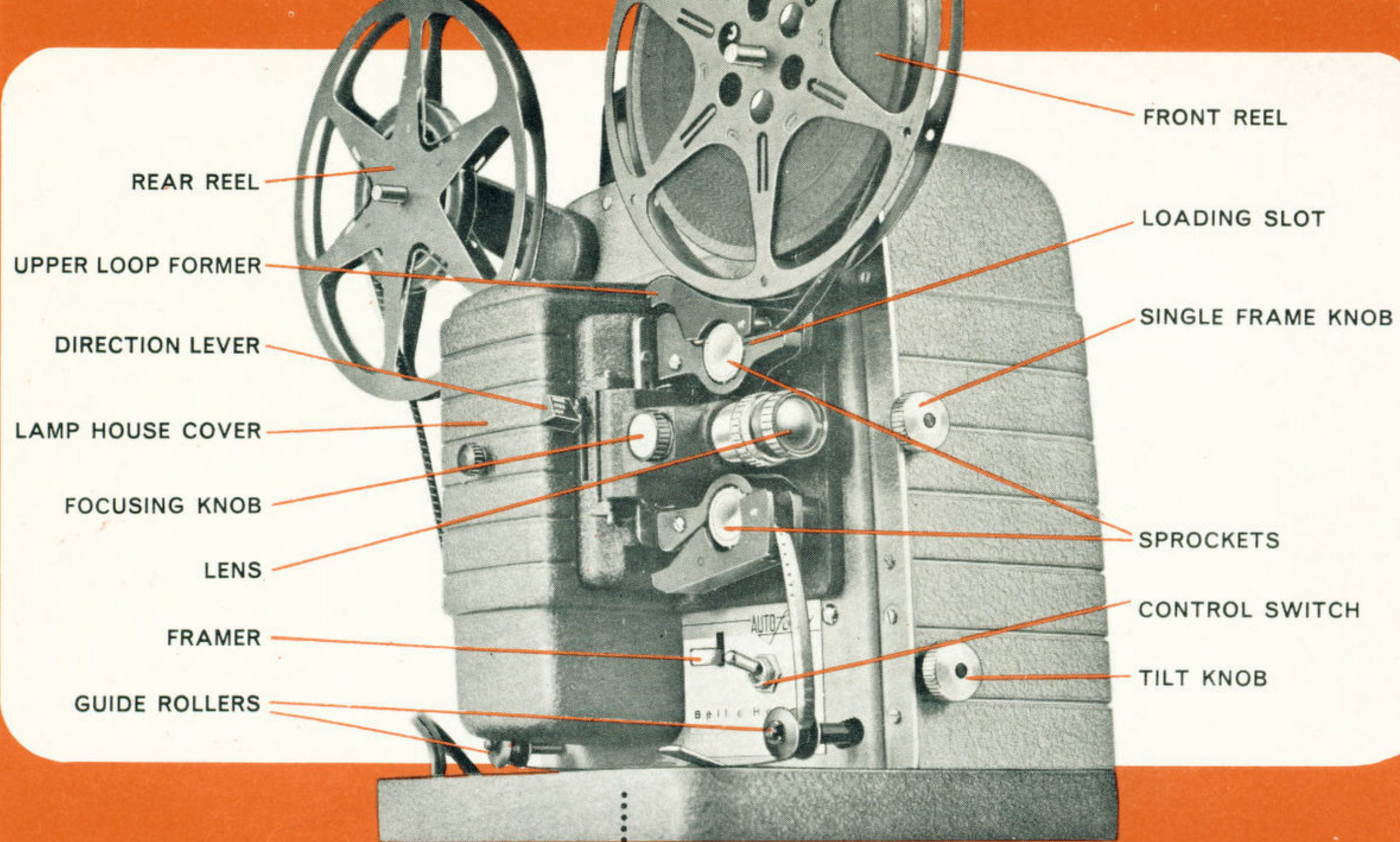
LET'S LOOK AT YOUR **AUTOload** PROJECTOR

Your Auto-Load projector is another remarkable Bell & Howell invention. It's so quick to set up, so simple to operate. In less than 3 seconds it *threads itself automatically*. Now you don't have to open lens gates, thread sprockets, worry about misformed loops. Take a few seconds to familiarize yourself with other outstanding features of your Auto-Load and see why it's the world's easiest to use 8mm projector:

- SHARP f/1.6 LENS projects your movies in thrilling detail.
- GEAR-DRIVEN REEL ARMS swing out for fast, convenient setup.
- 400-FOOT FILM CAPACITY for full half-hour shows.
- STRAIGHT LINE OPTICAL SYSTEM provides brilliant illumination.
- REVERSE to repeat favorite scenes.
- CLUTCH for still picture operation.
- LOOP SETTER lets you re-store lost film loops without interrupting your show.
- PERMANENTLY LUBRICATED—never needs oiling.

PLUS THIS FEATURE WITH FILMOVARA MODEL

- FILMOVARA LENS fills your 40-inch screen perfectly—at any distance from 11-feet to 15-feet with one “zoom” adjustment.

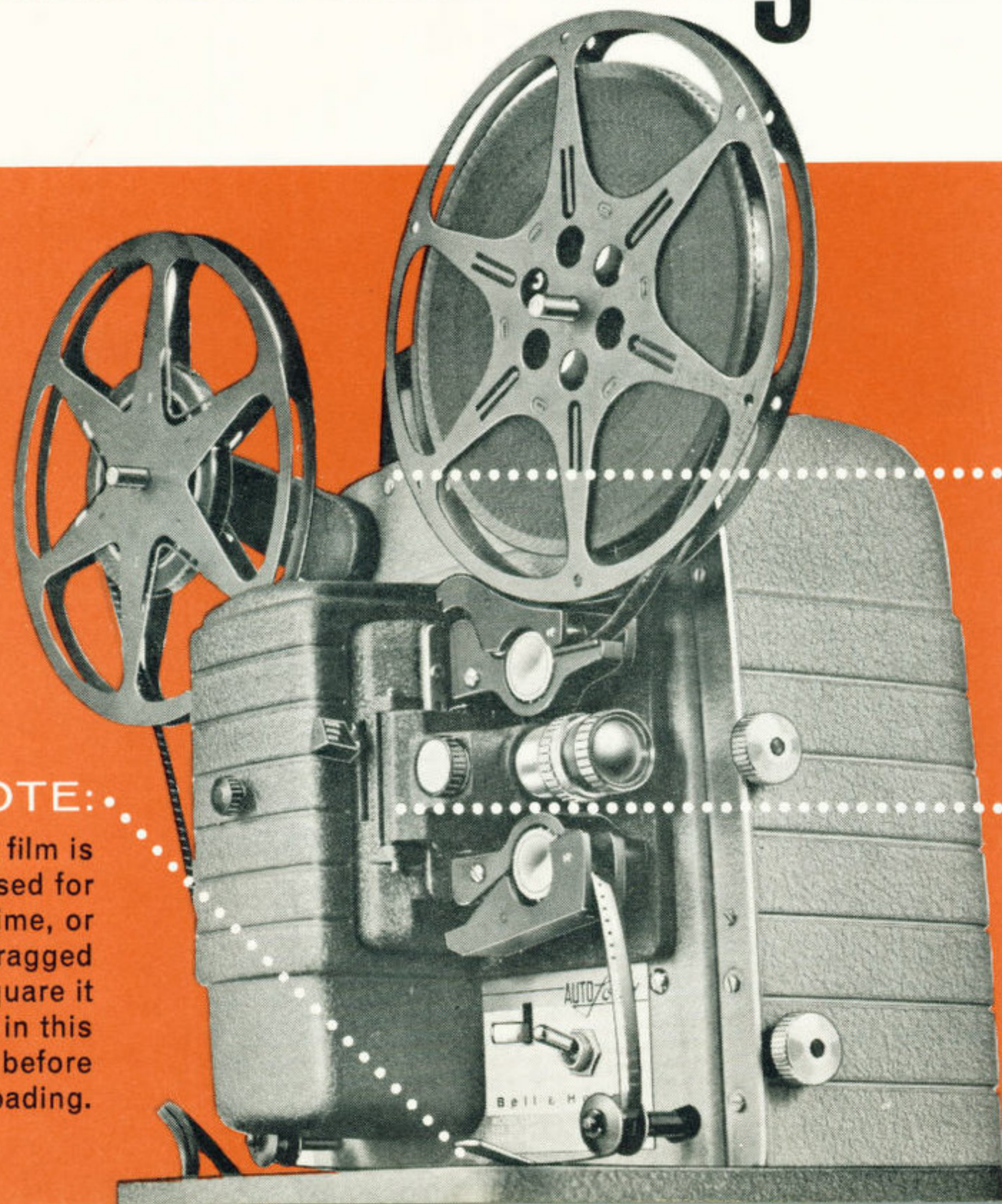


NOTE:

All models of the Auto-Load projector operate similarly. The main difference between them is the type of lens they use. Models come equipped with either the standard 1-inch projection lens, or the all-new Filmovara Zoom lens.

MOVIES ARE EASY TO SHOW WITH YOUR **AUTOload**

WHEN YOU FOLLOW THESE **3** SIMPLE STEPS:



1 **SETTING UP IS FAST AND EASY**
Set up your projector and screen. Swing out the reel arms and snap the reels in place.

2 **THREADING IS AUTOMATIC**
Flip the Direction Lever to "Forward", the Control Switch to "Motor". Press down the upper Loop Former and slip the film into the threading slot. ZIP—the film is threaded automatically.

3 **SIT BACK AND ENJOY THE SHOW**
Run about 2-feet of film through—enough to engage onto rear reel. Flip the Control Switch to "Lamp." Tilt projector and focus lens.

NOTE:

If your film is being used for the first time, or has a ragged end, square it off in this cutter before loading.



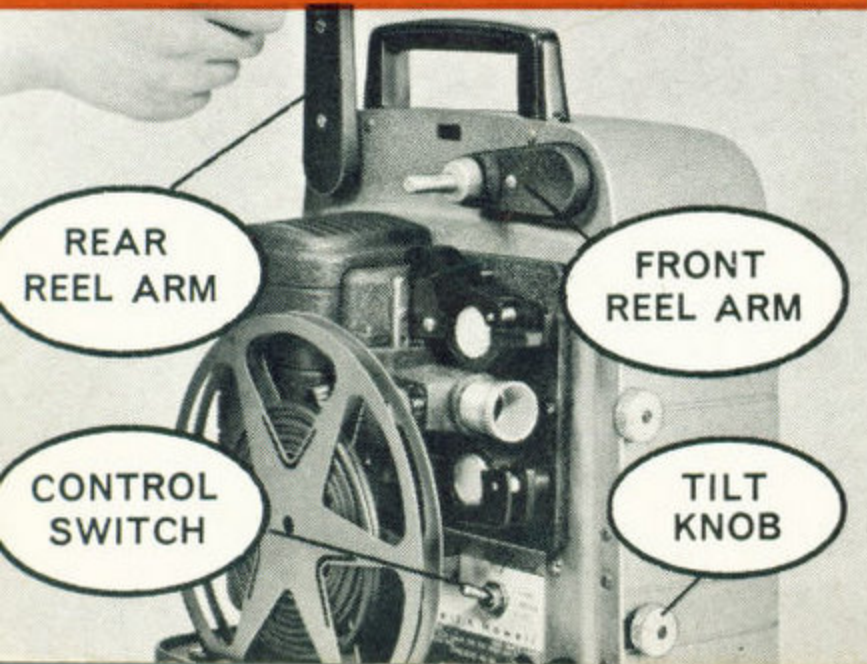
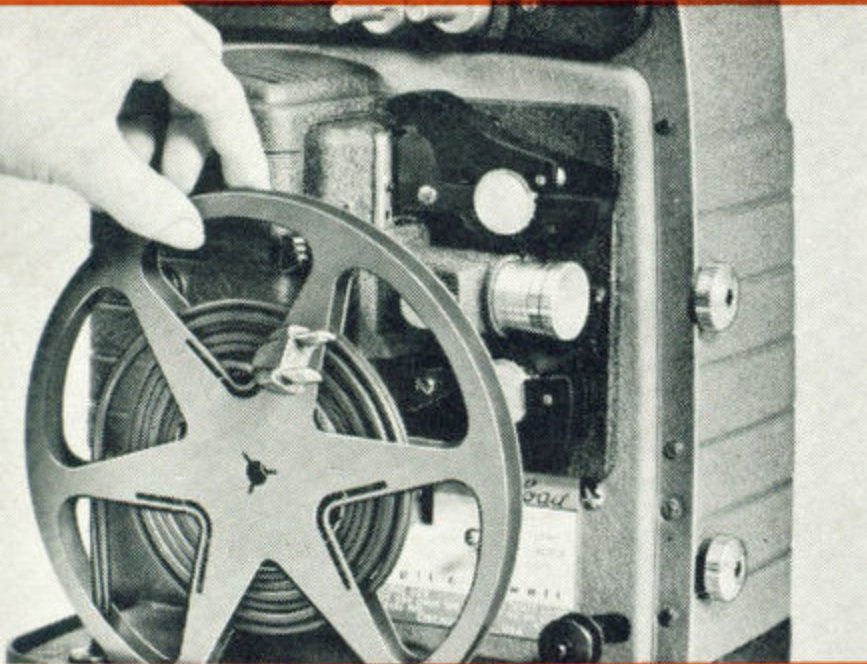
SETTING UP IS FAST AND EASY

The compact design of your Auto-Load makes it exceptionally easy to set up. To get your show started, just place your projector on a firm stand or table. To open, merely press down on the small button on top of the case and tip the cover off.

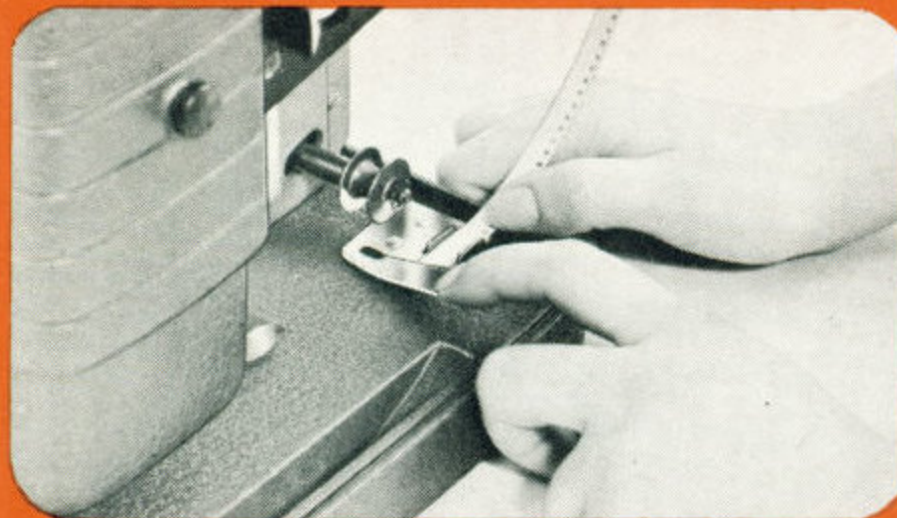
Lift out the reel and unwind the line cord. Plug the cord into an outlet supplying 105-130 volt 60 cycle alternating current only.

Swing up the front and rear reel arms until they snap into the open position. (After you've completed a show, fold the arms down by applying pressure.) Snap the empty reel on the rear reel arm spindle and the full reel on the front reel arm spindle. Your film should unwind from the front reel in a clockwise direction.

Set up your screen and flip the Control Switch to "Lamp" position. If the frame of light is too high or too low, tilt the front of the projector with your left hand. At the same time, loosen the Tilt Knob until the leg drops down. Tighten the knob when the frame of light is centered on your screen. Flip the Control Switch down to turn projector off.



TIPS ABOUT AUTOMATIC THREADING



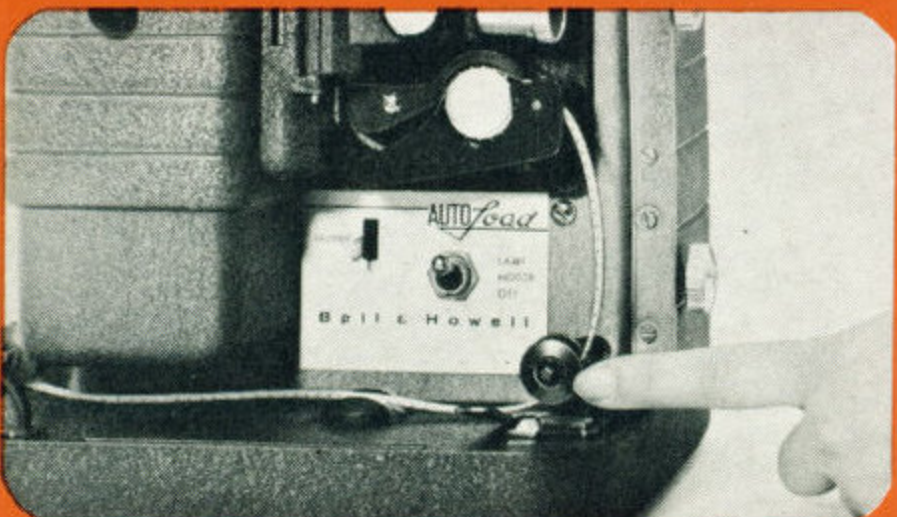
1

If your film is being used for the first time, or has a ragged end, square off the white leader end in the cutter on the base of the projector.



2

Always press down the Upper Loop Former before inserting film into the threading slot. If the Loop Formers are left open, the film will only thread itself as far as the first sprocket.



3

After the sprockets have automatically threaded themselves as described on the following page, flip the front Guide Roller as you pass the film under it.



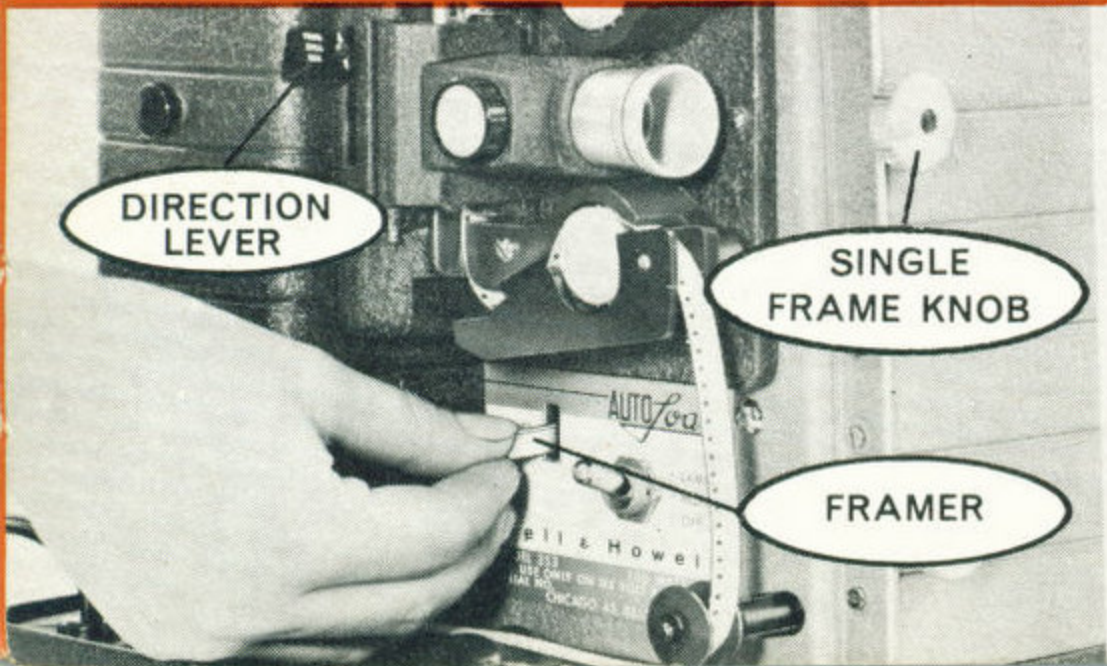
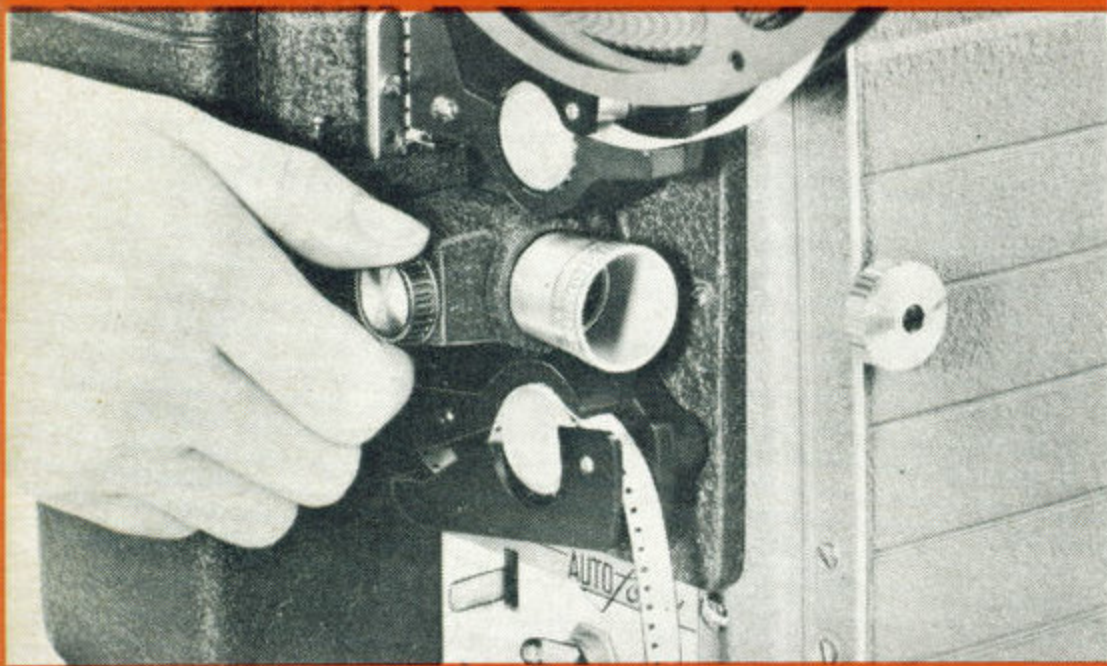
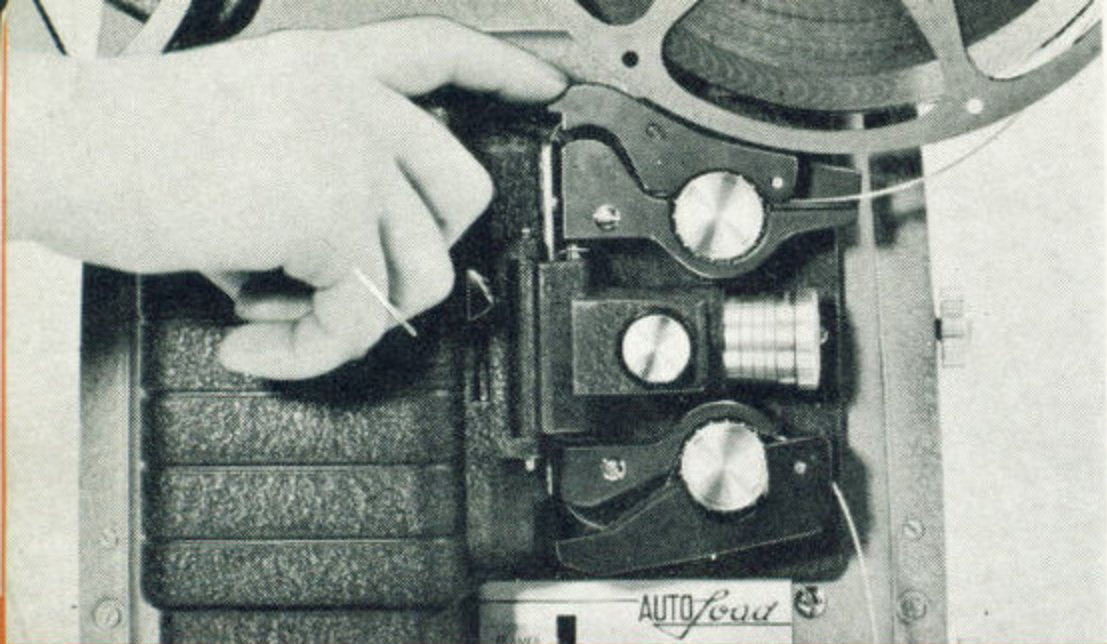
HERE'S ALL THERE IS TO IT . . .

To automatically thread your projector, first flip the Direction Lever to "Forward", the Control Switch to "Motor". Then, depress the Upper Loop Former.

Now slip the film end into the threading slot as shown. The projector does the rest—automatically. Let about 2 feet run through the automatic threading mechanism and turn the Control Switch off.

Lead the film under the front and rear Guide Rollers, up and around the rear reel. (With Bell & Howell reels all you have to do is press the film against the inside of the reel, turn it one revolution and you're ready to show movies.)

Once you've mastered the simple instructions above, you'll be able to completely thread your Auto-Load and engage the film onto the rear reel without stopping the mechanism. As you do this, film tension will trip the front Guide Roller and automatically release the film guides.



AUTOMATIC LOOP SETTER

If your film has a torn perforation, or a poor splice, it may cause your projector to lose its loop. When this happens, you'll hear a noticeable clicking sound and your picture will flutter on the screen. To automatically restore the lost loop without interrupting your show, simply press down the Upper Loop Former and immediately release. (To restore the loop while operating in "Reverse", it is necessary to flip the front guide roller also.) You can reset the loop without turning the projector off.

PUTTING ON A SHOW

With your projector set up, turn off the room lights. Flip the Direction Lever to "Forward" and the Control Switch to "Lamp". Then, focus the lens.

FOCUSING

If your picture is out of focus, rotate the Focusing Knob slowly until your picture is sharp. To focus the Filmovara projection lens see next page.

FRAMING

If your picture is cut off at the top or bottom, move the Framing Lever up or down until your full picture appears on your screen.

STILL PICTURE AND REVERSE PROJECTION

All you have to do to project a still picture with your Auto-Load is push the Direction Lever to the "STILL" position. When projecting still pictures, a safety shutter automatically drops into place to protect your film. If you don't get a picture on your screen, or if the picture is partially blocked, turn the Single Frame Knob slowly.

When you want to reverse action for special effects, or review a scene, just flip the Direction Lever to the "REVERSE" position.

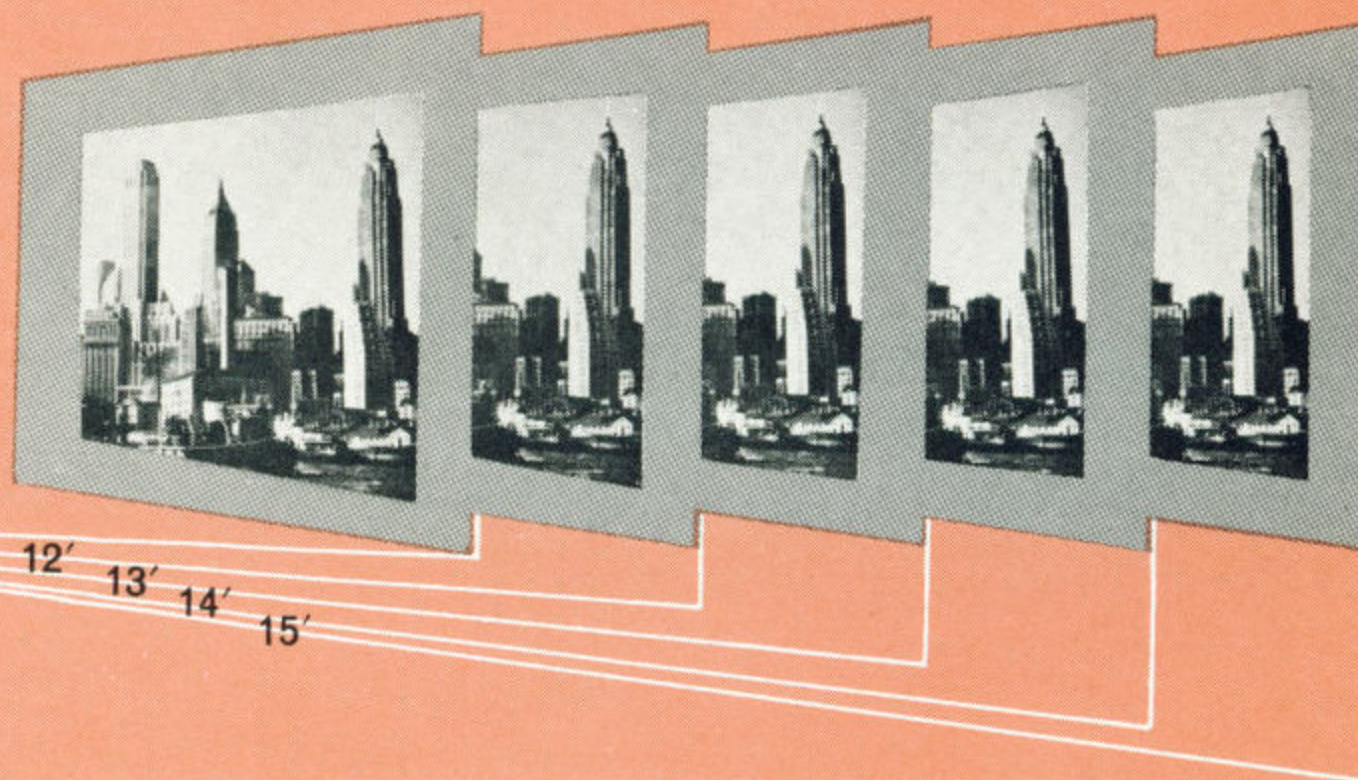
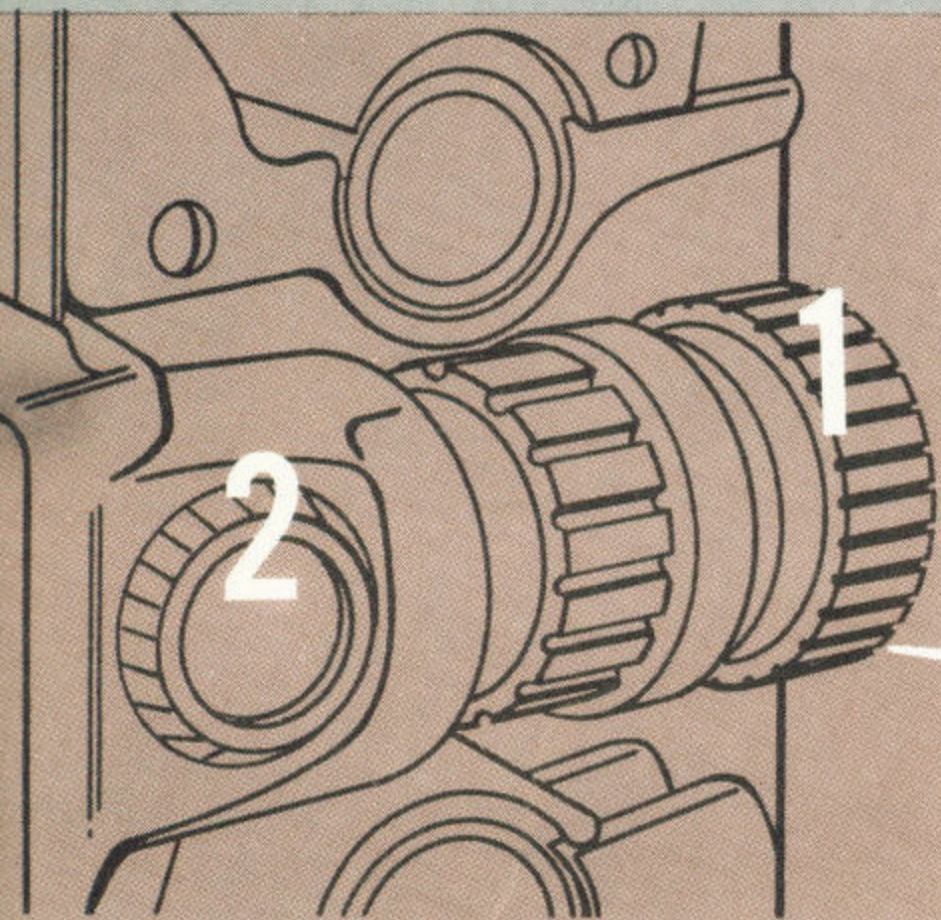
USING THE

Bell & Howell

8mm **FILMOVARA**

PROJECTION LENS

Your new FILMOVARA projection lens lets you project your movies easier than ever before. Now, you simply adjust the lens to get the screen size you want, you don't have to move the projector or the screen. For example, you can project a big picture 40-inches wide—at any distance from 11-feet to 15-feet as shown by the simple steps and diagram below:



1 Merely revolve the front (Black) knurled collar of the lens (1), until your picture fills the width of your screen. Revolving the lens collar inward increases picture size. Revolving it outward decreases it.

2 If your picture is out of focus, simply rotate the Focusing Knob (2), until your picture is sharp.

PROJECTED PICTURE SIZES WITH

FILMOVARA AND 1 INCH LENS

The Table below shows the projected picture sizes you get at various distances with the Bell & Howell Filmovara and the 1-inch projection lenses.

Projector-to-Screen distance

8 feet
10 feet
11 feet
12 feet
13 feet
14 feet
15 feet
18 feet
20 feet

Minimum Filmovara picture size (inches)

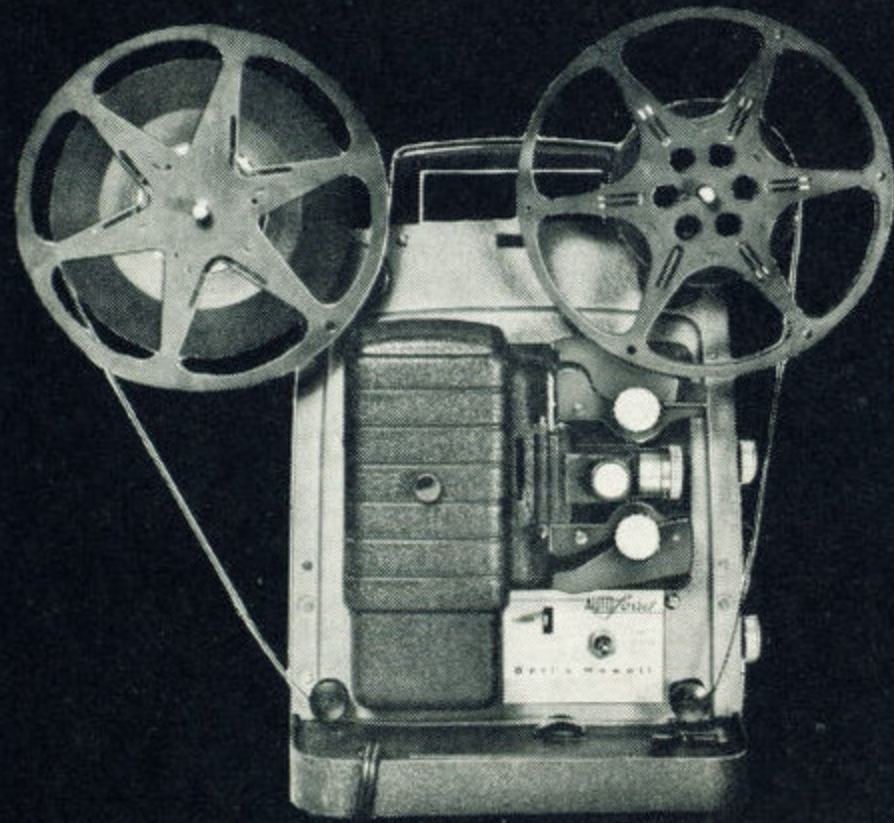
16 x 21
20 x 26
22 x 29
24 x 31
26 x 34
28 x 37
29 x 39
35 x 47
39 x 52

Maximum Filmovara picture size (inches)

21 x 28
26 x 35
29 x 39
31 x 42
34 x 45
37 x 49
39 x 52
47 x 63
52 x 70

1 inch lens picture size (inches)

14 x 18
16 x 22
20 x 23
20 x 26
22 x 28
24 x 31
25 x 33
31 x 40
33 x 44

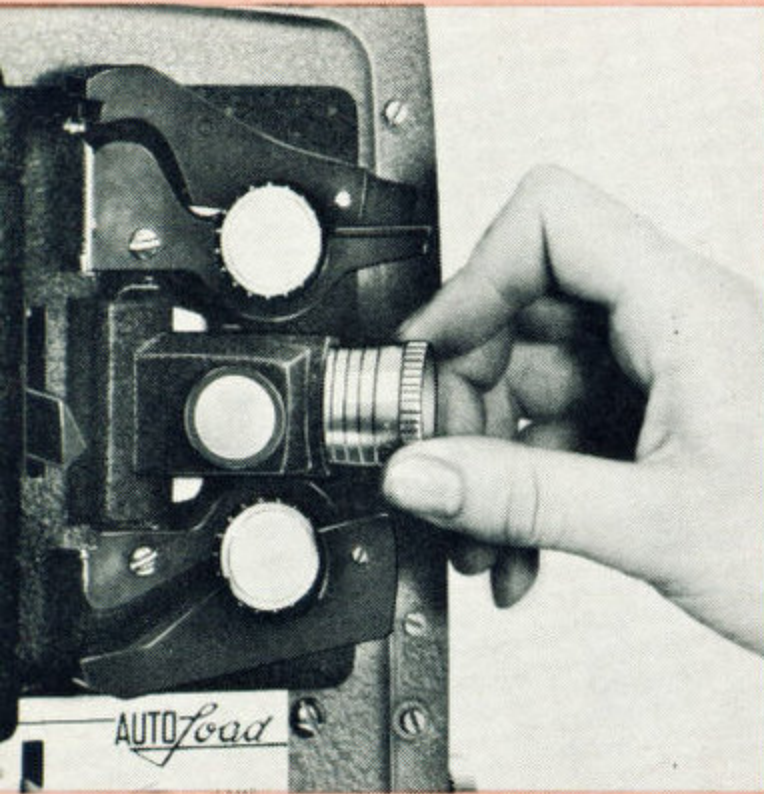


REWINDING

Flip the Control Switch "Off" as the last of your film passes through the projector. To rewind, lead the film from the rear reel, down under the two Guide Rollers at the base of the projector and up onto the front reel. Turn the reel counterclockwise to take up any slack. Place the Direction Lever in "Reverse" and flip the Control Switch to "Motor". After your film is completely rewound place the Direction Lever on "Still" for your next show.

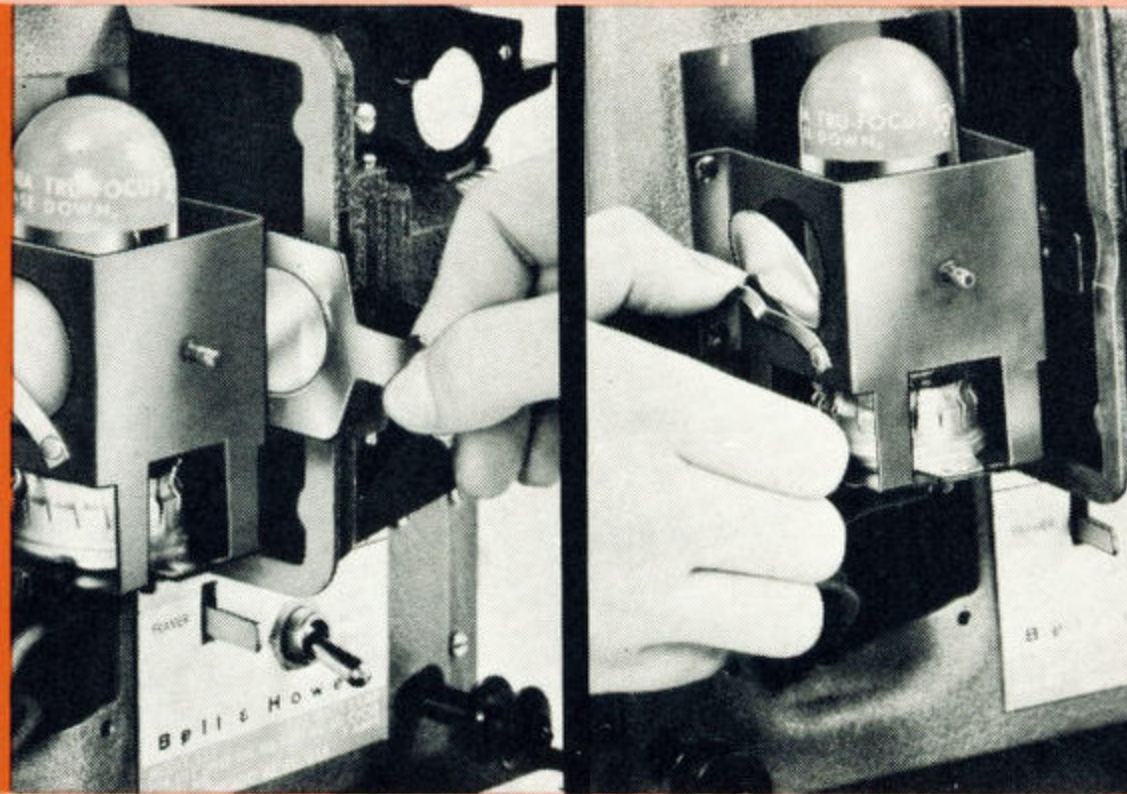
MAINTENANCE

Your projector is lubricated at the factory and requires no oiling by you. However, we recommend that it be cleaned and adjusted periodically by the factory, branch office, or one of our approved service stations.



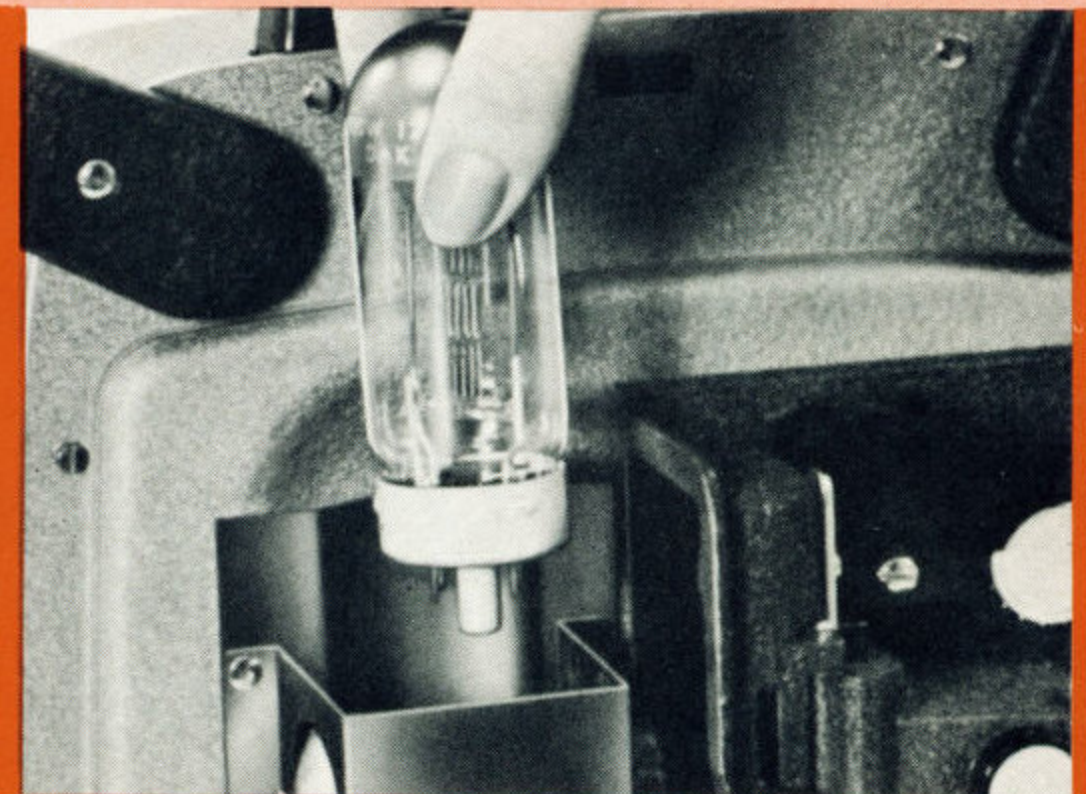
CLEANING THE APERTURE AND FILM CHANNEL

Swing the lens gate out, before each showing. With a small brush or clean piece of cloth, wipe the aperture and film channel. A rubber ear-syringe is useful for removing any dust or dirt which might accumulate within the upper or lower film guides. All film handling parts of your Auto-Load are recessed, your picture area floats in air—adding extra life to your prize movies.



CLEANING THE OPTICS

Pull out on the Focusing Knob to release the projection lens for cleaning. Loosen the lock screw on the Lamp House Cover so the Condenser and Reflector can be removed for cleaning; as illustrated. Wipe each with a lint-free cloth. If there are finger-prints or other marks on the optics, wipe off with a cloth moistened with Bell & Howell Opti-Kleen. After the lens is clean, rotate the Focusing Knob counterclockwise until it stops. Then pull out on the Focusing Knob again and slide the lens back into the lens carrier as far as shown in the first illustration. Never use sharp tools on your projector.



LAMP REPLACEMENT

Turn the control switch to "Motor" and let the projector operate until the lamp is cool enough to handle comfortably. To remove the lamp, grasp the top with your fingers and pull up. The lamp base is similar to that of a radio tube, it is not necessary to twist or turn it to remove. To insert a new lamp, align the center index guide pin of the lamp with the lamp socket by rotating the lamp. Press down to insert. Only use a 500-watt (DAK) projection lamp in your Auto-Load projector.

TIPS

FOR PROJECTING BETTER HOME MOVIES...

Much has been said about the art of taking home movies, but little about the art of showing them. At your next show, give your audience a break by showing your movies under the best possible conditions you can. Some of the following suggestions will help you hold their interest throughout your show.

PLANNING A SHOW...

Planning on having some friends in for a show soon? Then why not have your projector all set up—threaded with film and the lens focused on your screen. (If you don't want your movie equipment out in the open until you start the show, just note the position of your projector and screen. Then seclude them in the nearest closet. You can do this with your Auto-Load even after it is completely set up as it is exceptionally lightweight, compact and easy to carry.) Then when your friends arrive, a flip of the control switch will start the reels rolling without any unnecessary delay.



BRILLIANT ILLUMINATION . . .

While you're setting up, use a soft cloth and a drop of Bell & Howell Opti-Kleen to wipe off any dust or dirt which might have accumulated on the lens, condenser, or the film channel. This will give you the brilliant illumination you can expect from your Bell & Howell projector, helps protect your film, too.

FULL HALF-HOUR SHOW . . .

You can put on full half-hour shows if you splice your 50-foot rolls of film together on Bell & Howell 400-foot reels. Once your films are joined together in a story telling sequence, they'll be more fun to show. Keep several Bell & Howell 400-foot reels on hand. If you want to stop your show in the middle of a reel, or edit film in the projector, merely open the Loop Formers and lens gate. Carefully slide the film from under the lower sprocket and then from the upper sprocket.

PLAN AHEAD . . .

Lay your films out in the order you plan to show them. Once the show is started don't interrupt by rewinding. After your friends have left, this will only take a matter of seconds.



PROJECTION LAMPS...

Always keep a spare projection lamp handy, in case the one in your projector should burn out during your show. Projection lamps are rated for up to 25-hours use, and will on occasion burn out just as the common light bulb. Only use a 500-watt (DAK) projection lamp in your Auto-Load.

KEEP YOUR FILM SAFE...

To protect your films, keep them in a cool dry place stored in Bell & Howell film cans. You'll have quick reference to any film you want to show, if you write your title on the film can cover.

MAKE YOUR NEXT SHOW EASY TO PUT ON...

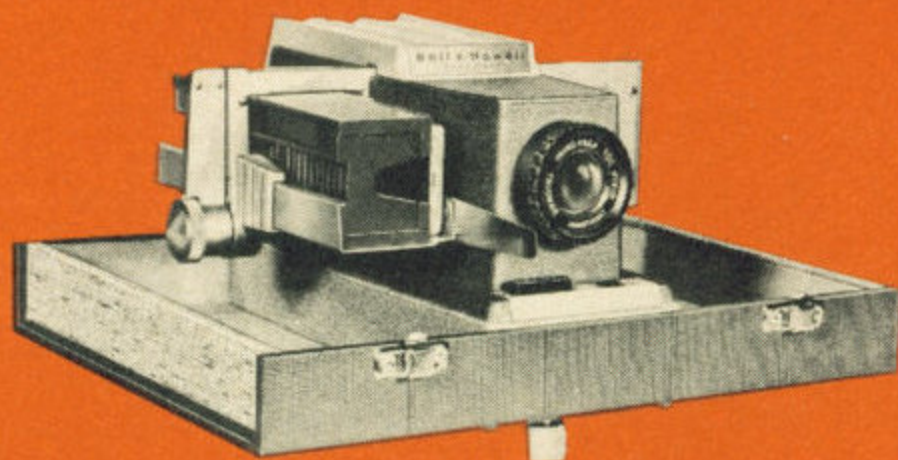
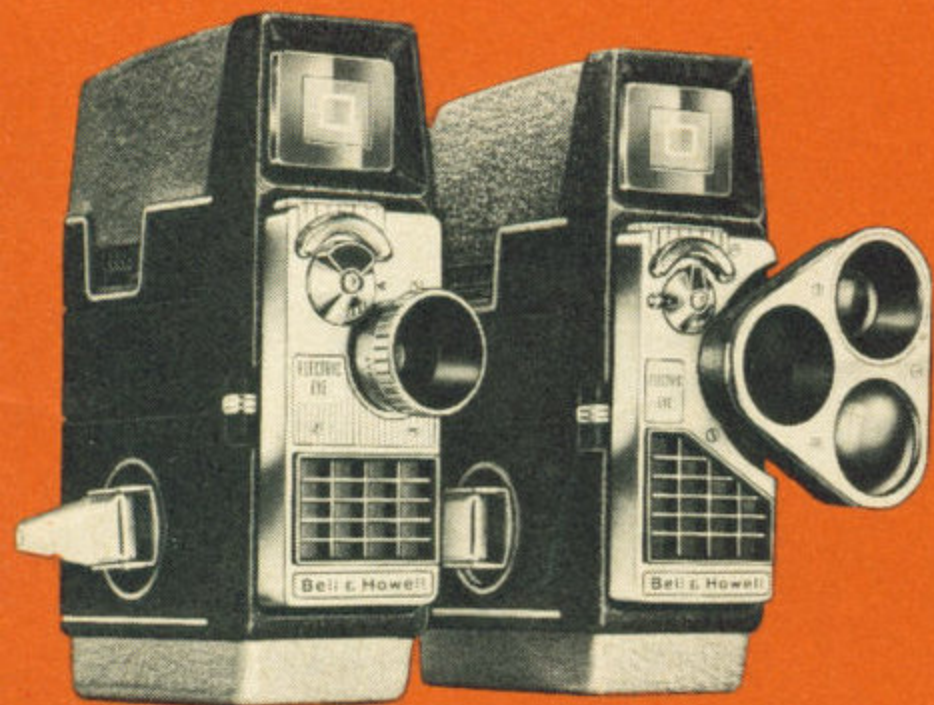
Here's a hint on how to make your next show easier to set up. Before you pack your equipment away, make a mental note as to where your projector and screen were placed when your picture filled the screen. Then when you set up for your next show just place the projector and screen in the same positions and your picture will fill the screen again. Of course this won't be necessary if your projector is equipped with the all-new Filmovara, as this lens adjusts picture size for you.



Bell & Howell *finer products through imagination*

392-393 ELECTRIC EYE CAMERAS

Revolutionary automatic 8mm movie camera in single lens and turret models. Sets lens for you as you shoot. Just sight through the giant picture-window viewfinder—press a button for perfect movies every time.



HEADLINER 706

Brilliant 300-watt illumination—full time blower cooling. Selectron-Semimatic, or Electric Changer—projects all popular 2 x 2, bantam and super slides. Comes equipped with modern luggage type carrying case.

775 TAPE RECORDER

Enjoy the finest in sound fidelity, with this exciting portable. Two large speakers, simple push-button controls. Up to 4 hours recording/playback time. Two speed dual track, high speed forward and reverse. Handsome durable carrying case.





Bell & Howell

GUARANTEE

This new Bell & Howell product is guaranteed to be free from imperfections in both material and workmanship for one year from date of original purchase. Should any part of this equipment be defective, it will be replaced or repaired free of charge (except for transportation), provided the equipment has been operated according to the instructions accompanying it.

No liability is assumed for film which is damaged or is unsatisfactory for any reason and no liability is assumed for interruptions in operation of equipment. This guarantee is void:

- a) If equipment has not been registered with Bell & Howell (please use card supplied);
- b) If equipment has been damaged by accident or mishandling;
- c) If equipment has been serviced by other than Bell & Howell approved service stations;*
- d) If adaptations or accessories other than Bell & Howell have been made or attached.

The foregoing is in lieu of all other warranties express or implied and Bell & Howell Company neither assumes nor authorizes any person to assume for it any other obligation or liability in connection with this product.

**Location of nearest approved service station will be furnished on request.*

Bell & Howell

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