





A silent projector for all 8 mm. film formats

Capsule instructions

- 1 Plug in the projector, after checking the line (mains) voltage and frequency.
- 2 Swing up the cover and take it off.
- 3 Flip up the reel arm. First place the universal reel supplied on the reel spindle, then the full super-8 or single-8 reel, with the adapter sleeve. (With standard-8 film, place the reel on the spindle without the sleeve.)
- 4 Turn the function selector to AUTO THREADING .
- 5 Feed the head end of the film into the threading slot until it is caught by the threading mechanism. The threading mechanism will do the rest.
- 6 Turn the function selector to the FORWARD WITH LAMP position .



This apparatus must be earthed.

The equipment should be disconnected from the mains when not in use.

Live parts inside — disconnect from mains before removing the cover.


Important: When operating the projector, do not obstruct the air stream emerging from the ventilation slots.

VALID FOR UK ONLY!

IMPORTANT: The wires in the mains lead are coloured in accordance with the following code:

Green-and-yellow:	Earth
Blue:	Neutral
Brown:	Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:

The wire which is coloured green-and-yellow must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol  or coloured green or green-and-yellow.

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

The apparatus must be protected by a 3 A fuse if a 13 A (BS 1363) or another type of fused plug is used.

Your new movie projector, the Eumig R 2000, enables you to view your films the easy, modern way, on the bright built-in screen, without fuss or bother, as soon as you get them back from processing or at any other time, even in broad daylight.

It offers you tomorrow's projection convenience today — convenience coupled with versatility:

- Two projection modes in one compact unit: Table-top viewing plus wall-screen projection. Flip the rear-projection mirror out of the way and you get a big 5-ft. wide picture on the screen even at 6½ ft. projection distance. For greater throws, your dealer will sell you the time-tested Eumig Vario-Eupronet zoom lens. Just switch lenses and you're all set for auditorium-style projection.
- Four flickerfree slow-motion speeds — 12, 9, 6 and 3 fps. in addition to the normal 18-fps. projection speed, and all this both forward and reverse. Plus freeze-frame projection.
- Fast forward and reverse also through the film channel.
- Built-in tripping contact for simultaneous starting (and stopping) of a cassette recorder for background music.
- ● ● These and many other features add up to sheer viewing pleasure.
Have fun!

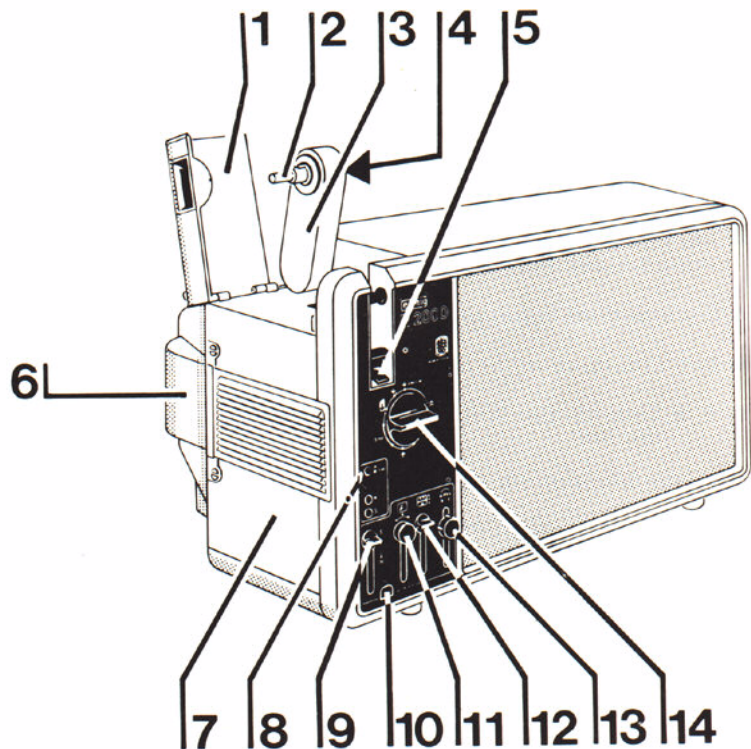
Contents:

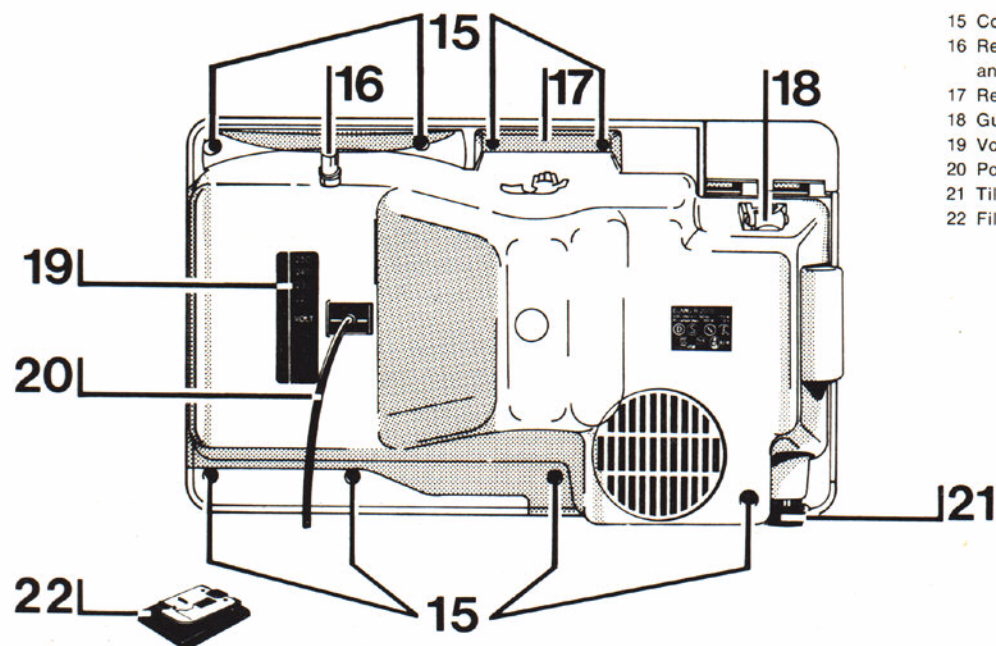
Before you plug it in . . .	4	Direct reel-to-reel rewind	10
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Thumbnail description

- 1 Cover
- 2 Reel spindle
- 3 Reel arm
- 4 Retaining button
- 5 Threading slot
- 6 Hinged mirror
- 7 Lamp cover
- 8 Indicator lamps
- 9 Film-format selector
- 10 Sync-cable outlet
- 11 Focusing knob
- 12 Framing lever
- 13 Slow-motion knob
- 14 Function selector





- 15 Cover mounting screws
- 16 Reel-spindle adapter sleeve and empty-reel holder
- 17 Recess for carrying handle
- 18 Guide roller
- 19 Voltage selector
- 20 Power cord (mains lead)
- 21 Tilt control
- 22 Film trimmer

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Accessories supplied:

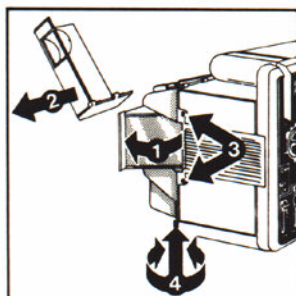
- Power cord (mains lead)
- Operating instructions
- Warranty card
- Universal film reel (AS 18) 790 0320/5
- Reel-spindle adapter sleeve 718 3414/0
- Film trimmer 790 0340/0

You'll never have to grope for the film trimmer if you mount it right on the projector. But pick a spot where no film trimmings can drop into the projector. The film trimmer has a self-adhesive base. Just stick it on, after peeling off the protective covering.

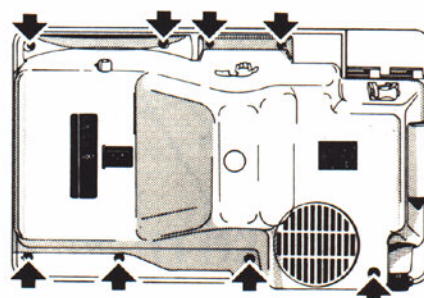
Before you plug it in . . .

... make sure that your house current (AC), voltage and line (mains) frequency (60 or 50 Hz. or cycles) are as shown on the rating plate on the projector.

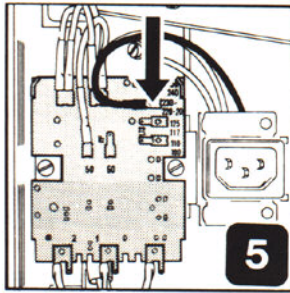
To change the projector operating voltage (Caution: First unplug the power cord)



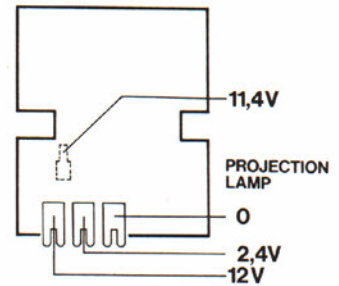
- 1 Flip the hinged mirror out of the way.
- 2 Remove the cover.
- 3 Loosen the screws with a coin and take off the lamp cover.
- 4 Turn out the tilt control slightly. Remove the rear panel after loosening the eight mounting screws.



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5 Pull off the red female connector and push it onto the proper terminal lug. Momentary line-voltage surges in some localities may cause the projection lamp to burn out faster. Where this is observed, it is recommended that the red female connector be pushed onto the terminal lug corresponding to the next-higher voltage level (i.e. 127 V instead of 117 V in the United States and Canada, 230 V instead of 220 V elsewhere). This will extend the life of the lamp at the expense of slightly reduced light output.

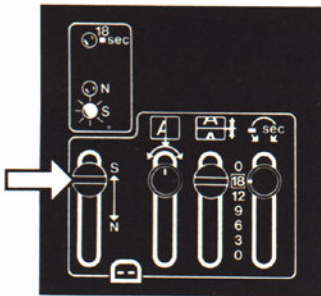


6 Replace the rear panel and lamp cover.

To change the line frequency:

If your projector is a universal model with provision for frequency adjustment, follow the directions given on the inside of the rear panel.

Selecting the film format



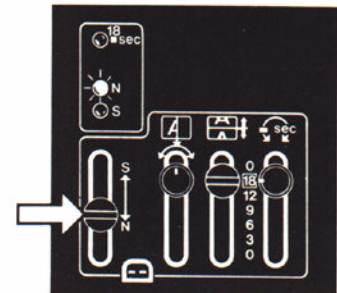
Super-8 or single-8 film:

Push the film-format selector lever up. During projection, the blue indicator lamp will light up. Use the adapter sleeve for the reel spindle.

Standard-8 film:

Push the film-format selector lever down. During projection, the amber indicator lamp will light up. Pull the adapter sleeve off the reel spindle.

Note that with standard 8 the picture will not fill the entire screen due to the smaller film format.



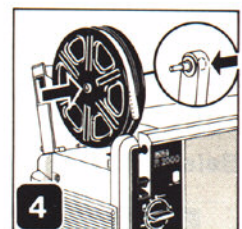
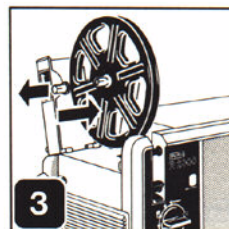
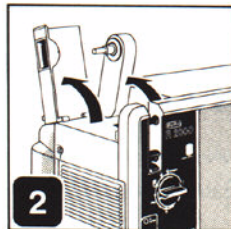
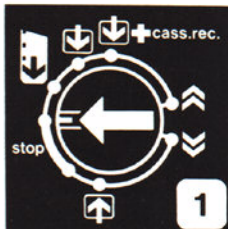
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Getting ready for a film presentation

To take full advantage of automatic shutoff and fast rewind through the film channel, splice a 20-inch length of leader to the head and tail ends of your film (unless it was returned to you from processing with a leader attached). For smooth operation of the automatic threading mechanism, trim the leading edge of the leader squarely with the film trimmer and curl the first few inches clockwise, making sure that there are no creases.

The automatic shutoff device will work only if the tail end of the film is secured to the feed reel. The Eumig AS 18 universal film reel which comes with the projector and is also available separately (Ordering No. 790 0320/5), is provided with the necessary film-retaining means.

Be sure to turn the function selector to OFF (stop) before plugging the projector in.



1 Plug the power cord into an outlet.

2 Swing up the cover and take it off. Flip up the reel arm until it snaps in.

3 Pull the adapter sleeve off the reel spindle. Place the universal reel supplied on the spindle, pushing it against the stop and then turning it until it snaps in.

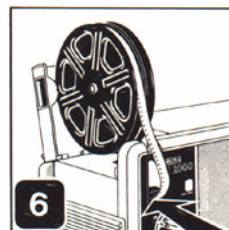
4 Press the retaining button on the reel spindle. At the same time push the full reel onto the spindle and turn it until it snaps in. (With super-8 and single-8, first place the adapter sleeve on the spindle, then the reel.) The perforated edge of the film must be on the left, viewed from the front. Films wound the wrong way must be rewound twice for projection.

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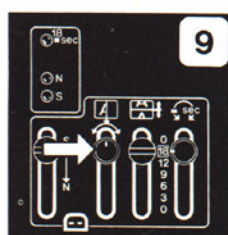
5 Turn the function selector to AUTO THREADING . (The lamp as now being preheated.)

6 Feed the head end of the film into the threading slot until it is caught by the threading mechanism. The rest of the threading operation is fully automatic.



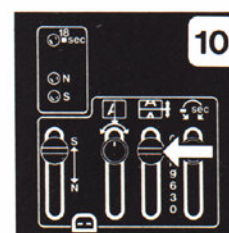
7 Turn the function selector to the FORWARD WITH LAMP position .

8 For reverse projection, turn the function selector past the OFF (stop) position to REVERSE .



9 Bring the picture into focus by means of the focusing knob. Move it up or down for coarse adjustment, then turn it for sharp focusing, whereby the white line above the centre indicates fine focusing.

10 If a "frame" shows on the screen, move the framing lever until the line disappears.



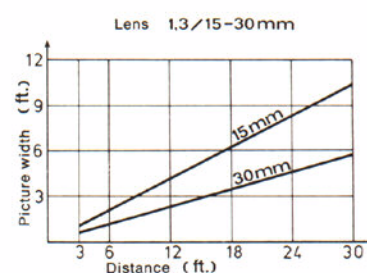
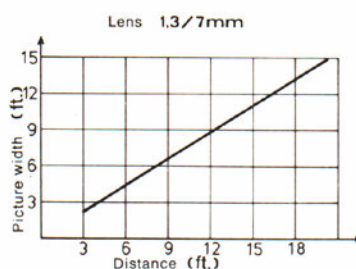
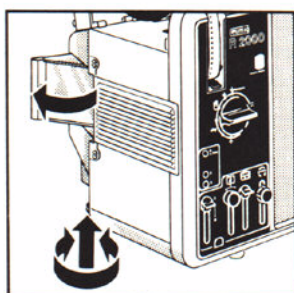
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Changeover to wall-screen projection

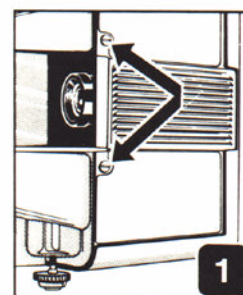
Flip the hinged mirror out of the way and you can use your R 2000 for large-screen projection.

You can raise or lower the picture on the screen by means of the tilt control.

If you wish to change the picture size, replace the f/1.3 7-mm. fixed-focal-length lens supplied with the f/1.3 15–30 mm. Vario-Eupronet zoom lens, available as an accessory (Eumig Ordering No. 612 0206/0).



- 1** Use a coin to loosen the two screws and remove the lamp cover.
- 2** Release the milled-head screw and change the lens. (For further details, turn to the section on "Caring for your projector" on page 11.)
- 3** Re-engage the retaining spring and tighten the lamp-cover screws. Select the picture size by turning the zoom ring and bring the picture into sharp focus with the focusing knob.

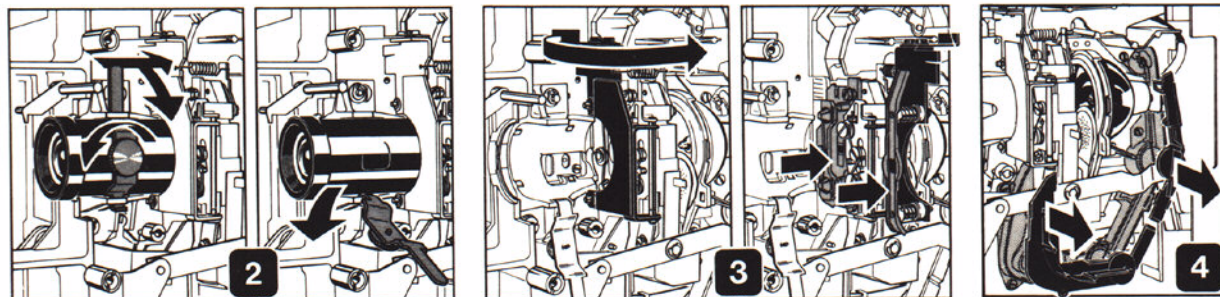


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Caring for your projector

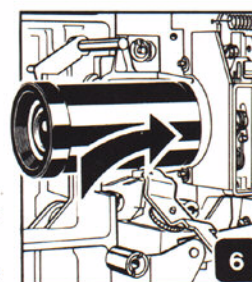
All moving parts of the R 2000 are permanently lubricated and require no attention.

The film guides and film channel should be cleaned periodically. With a soft cloth or camel's hair brush, carefully remove any dust and emulsion particles. To gain access to the film channel, pressure pad and film guides, remove the lamp cover. But first turn the function selector to the upper OFF (stop) position and pull out the line (mains) plug.



- 1 Flip the hinged mirror out of the way. Loosen the screws with a coin and take off the lamp cover.
- 2 Release the milled-head screw and swing the lens holder to the right. Lift the lens out of the lens carrier.
- 3 Flip up the pressure-pad holder. Clean the film guides and pressure pad.
- 4 To clean the film channel, remove the two covers.
- 5 Clean the lens with a soft cloth or a camel's hair brush.
- 6 Close the pressure-pad holder and place the lens on the detent pin. When inserting the lens, make sure that the detent notch is seated on the detent pin of the lens carrier.

Occasionally it will be advisable to wipe also the hinged mirror, the inner mirror and the ground glass (screen) with a soft cloth or a camel's hair brush.



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To remove stubborn spots on the ground glass, use Eumig cleaning agent, Ordering No. 790 0394/1. Use this special cleaning fluid also to remove spots from the case and the lens.

CAUTION: Never use a household detergent to clean the ground glass.

Proper film care is important.

Clean your films occasionally with a commercial film cleaner. Store them in dustlight cans in a cool, not-too-dry place.

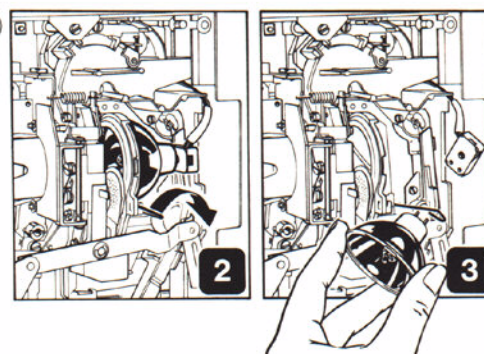
Replacing the projection lamp (only after unplugging the projector)

Replacement type for the R 2000: 12-volt, 100-watt dichroic-reflector tungsten-halogen lamp. Ordering No. 931 004/6.

Nothing lasts forever. Projection lamps are no exception. When yours burns out, you can easily replace it yourself:

(Caution: First unplug the power cord).

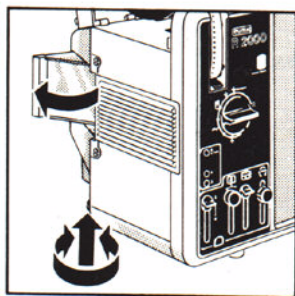
- 1 Remove the lamp cover after loosening both screws with a coin.
- 2 Push up the lamp spring and turn it clockwise to disengage it. Lift the lamp out of the lamp holder.
- 3 Pull off the lamp plug.
When inserting the new lamp, take care not to touch the bulb or the inside of the reflector with your bare hands. If you accidentally do, wipe them with denatured alcohol.
- 4 Push on the lamp plug.
- 5 Raise the lamp spring and push the lamp in contact with the lamp holder into the centering hole in the socket, taking care to locate the centering key in the centering notch.
- 6 Re-engage the lamp spring. Subsequent centering of the lamp unit is not necessary.
- 7 Replace the lamp cover.



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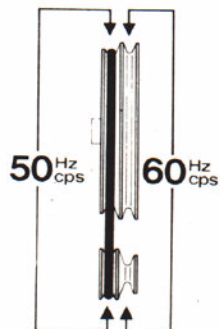
Replacing the drive belt (Ordering No. 738 5420/7)

Move the hinged mirror out of the way.
Turn out the tilt control slightly.
Turn the slow-motion knob to 18 fps. and the function selector to OFF (stop) and pull out the line (mains) plug.



Remove the lamp cover and rear panel. Remove the projection lamp from its holder. Remove the worn drive belt and place the new belt in the pulley groove corresponding to your line (mains) frequency.

Caution: Rotate the fan only in the direction indicated by the arrow as otherwise you will damage the drive. Replace the lamp cover, rear panel and cover.



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