

FULLY AUTOMATIC SLIDE PROJECTOR 5005

electronic

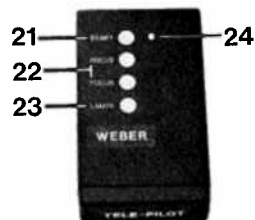
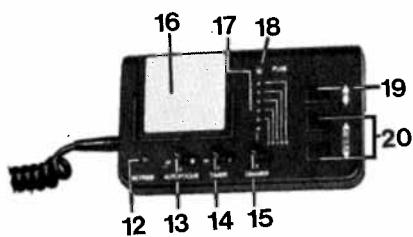
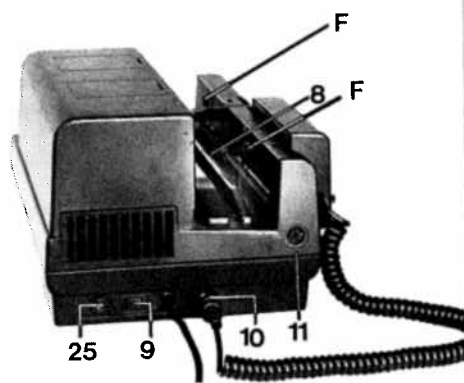
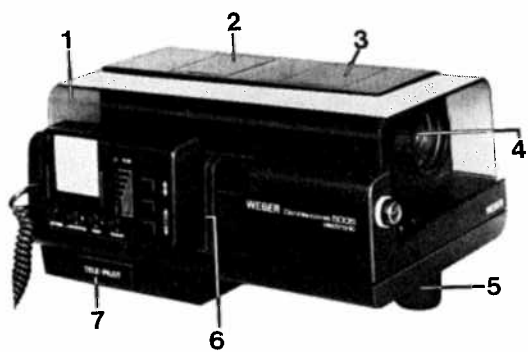
AUTOFOCUS

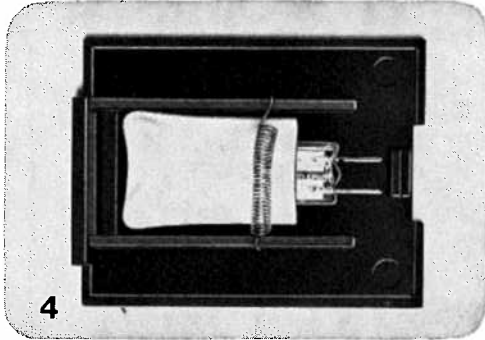
INFRARED

Operating Instructions

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Operating elements

F Guide pins

① Cover

② Lamp compartment

③ Spare lamp compartment

④ Lens

⑤ Elevation adjustment

⑥ Slide changer

⑦ Infrared remote control

⑧ Magazine shaft

⑨ Power switch

⑩ Remote control socket

⑪ Tape recorder socket

⑫ Pilot light

⑬ Slide previewer ON
and AUTOFOCUS OFF

⑭ Automatic slide advance (timer)

⑮ Dimmer

⑯ Slide previewer

⑰ Lamp intensity LEDs

⑱ Full-light LED

⑲ Slide change forward/reverse

⑳ Focusing control

㉑ Slide change forward/reverse

㉒ Focusing control

㉓ Full-light button

㉔ Battery pilot light

㉕ Fuse

Infrared remote control

Detach the infrared remote control pressing slightly upward. After use, insert it completely into the shaft, with its control buttons up.

The transmitter has 4 buttons and a red LED indicator.

The buttons control the following functions:

Start: Brief pressure — slide change in forward

Long pressure — slide change in reverse

Focus: Focusing in forward/reverse

Lamp: Full lamp intensity

Each time a button is operated the red LED should light up. If it fails to light up, replace the battery.

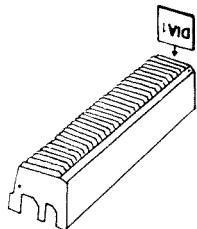
The infrared remote control has an operating range of at least 6m. There must, however, be a visual contact between the transmitter and the slide projector. You best aim the transmitter at the red receiver on the projector.

The battery compartment is located below the cover labelled "tele-pilot". To replace the battery, lift the cover using a coin. Then insert a new 9 V battery and re-close the cover.

How to arrange the slides in the magazine

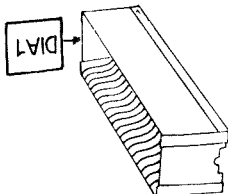
a) Universal magazine

Place the magazine so that the sloping side is at the left and the number 1 at the upper right. Then insert the first slide into the first compartment, true to side but top down (glossy side facing the viewer).



b) Paximat and Revue magazines

Place the magazine so that the open side points to the left and the number 1 is at the upper right. Now insert the first slide into the first compartment, true to side but top down (glossy side facing the viewer).



Caution: For the projection of slides in glass-less mounts (especially those mounted automatically) we recommend the use of special slide trays to ensure proper slide advance.

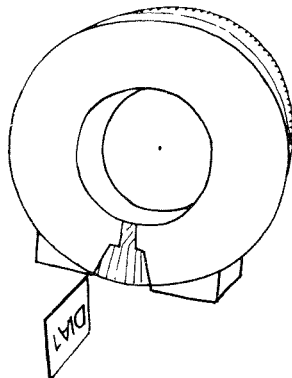
c) Rotary magazine

Place the rotary magazine so that the transparent cover with the slot points forward. The compartment number 1 (numbers marked at the rear) should be vertical and point down.

Now insert the first slide into the first compartment, true to side but top down (glossy side facing the viewer). Check at the rear of the magazine to make sure that the slide is correctly loaded. Then turn the magazine clockwise to continue loading.

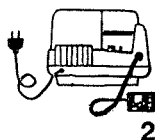
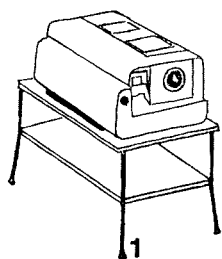
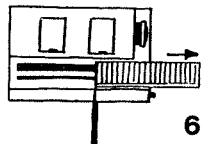
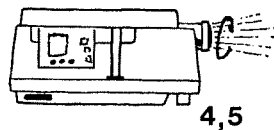
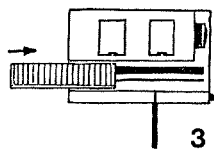
Note: Experience has proved it advantageous to mark the first slide or the first magazine compartment.

Important: Ensure that the rotary magazine is filled completely or evenly.



Brief instructions

- 1 Place projector on a stable support
- 2 Connect projector
- 3 Insert loaded magazine
- 4 Focus
- 5 Start projecting
- 6 After projection, remove magazine and disconnect unit



Detailed description

Setting up the projector

Place the projector on a stable support, preferably on a projection stand. Turn the elevation screw ⑤ to align the unit to the height of the projection screen.

Important: Do not place books under the projector. High inclinations may distort the picture and cause damage to the lamp.

The projector lamp is very sensitive to vibrations and shock, when hot. Therefore do not move the projector during projections.

Connecting the projector

Connect the projector to line voltage. Your automatic slide projector is factory set to 220/240 V. Plug the power cord into a wall outlet and turn the unit on by means of the power switch ②. The cooling fan is now on and all projector functions are ready for operation.

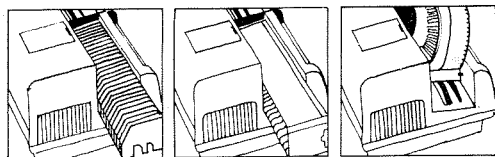
Operating readiness is signalled by the pilot light ⑫. Connect the remote control unit to socket ⑩.

Caution! Do not cover up the ventilation slots!

Inserting the magazine

Your automatic slide projector accepts four different types of magazines: Universal magazines (Leitz, Kindermann, Agfa, Braun), Paximat magazines and Revue magazines holding 36 or 50 slides. Further, special rotary magazines with a capacity of 100 slides.

Insert the loaded straight magazine completely into the magazine shaft ⑧ (for positioning see below pictures). **Briefly** depress the slide change button ⑯ on the remote control. The slide changer ⑥ then moves the first slide to the film gate where it is projected onto the screen.



When using a rotary magazine, first pull out the slide changer ⑥, place the magazine between the guide pins F in the shaft and then slide the changer back into its original position.

Control panel

The control panel provides for optimum operating convenience. It is either left on the projector or used separately, for remote control.

For stationary use, the panel may be tilted (Fig. 1).

If remote control is desired, remove the panel (pushing it upward). It then allows easy remote control of all functions.

Focusing

Your slide projector has an autofocus feature which automatically focuses during projection. When projecting the first slide, turn the lens ④ manually to the left or to the right until

the projected image is sharp. The electronic autofocus system then automatically refocuses the slides that follow.

The autofocus control may be made inoperative by means of the rotary switch ⑬. This is a very helpful feature when using different types of slide mounts in the magazine.

For manual focusing with the buttons ⑳ or ㉑, proceed as follows:

Press one of the two focusing buttons until optimum sharpness is achieved. If you slightly override the optimum sharpness, press the opposite button momentarily. This will focus the lens in the opposite direction.

Slide advance

You may choose among the following possibilities of changing the slides:

Manual slide changing

For changing the slides manually, pull out the slide changer ⑥ and then reset it to its original position. The just projected slide is thus slid into the magazine, the magazine is advanced one step and the next slide is placed into projecting position.

Note: During manual operation the magazine can only be advanced forward.

Automatic slide changing

The slide change buttons ⑲ and ㉑ allow to change the slides automatically in forward and reverse.

For **forward slide changing** depress the button **momentarily**. This will project the following slide onto the screen.

If you wish to review a slide, depress the button for a **longer time** (1 sec. approx.). This will activate **reverse slide changing** so that the previous slide is projected.

Fully automatic slide advance

The fully automatic slide advance feature (timer) allows to change the slides in infinitely variable intervals of about 5 to 50 secs. The timer is activated by turning the rotary switch ⑭ to the right. The automatic slide change starts with the longest interval. The more you turn the rotary switch to the right, the shorter are the intervals.

Note: If you wish to skip a few slides or remove a partially projected magazine from the shaft, pull out the slide changer ⑥ completely. The magazine is then disengaged and can be freely moved by hand.

Dimmer **sta n.db**

Dimmer

The dim switch ⑮ allows to infinitely adjust the brightness of the projection lamp to compensate for overexposure or to produce interesting fade-in/fade-out effects. The more you turn the switch ⑮ to the right, the brighter will be the lamp. The lamp intensity LEDs ⑰ indicate the amount of light used for projection. If all 6 red LEDs are lit, about 90 % of the available light is used.

Full lamp intensity is reached on turning the rotary switch ⑮ completely to the right. In this case the big yellow "full-light" LED is lit. The "full-light" feature is very helpful for the projection of underexposed slides.

The projector also switches to full lamp intensity when the full-light button ⑮ is pressed.

Note: Before turning the projector on, we recommend to set the dim switch to "0" position and to then fade-up the first slide. At the end of projection, the last slide should be faded out. This gives your slide show a professional touch and spares the audience dazzling light effects. Besides, it allows the lamp to cool more rapidly with the help of the ventilation system and thus prolongs the life of the lamp.

Finishing projection

After projection depress the slide change button ⑨ again and then remove the magazine forward. If the dimmer is set to "0", the ventilation system will cool the lamp rapidly.

Advantage: A cool lamp is less sensitive to vibrations than a hot lamp.

After cooling, disconnect the unit by means of the power switch ⑨, pull out the power plug and store the projector away.

Slide previewer

The unit's control panel has a handy slide previewing screen ⑩ for easy previewing of slides when arranging them in the magazine. It is illuminated by means of the rotary switch ⑬.

Important: The autofocus control is out of operation when the slide previewer is on.

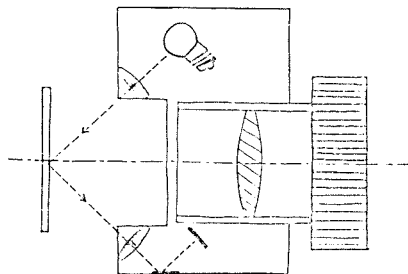
Connecting a tape recorder

Slide shows become more vivid when accompanied by sound. If you connect a tape recorder with a built-in slide-pulse transmitter (such as Philips Recorder N 2229 AV+ control unit N 6401) to socket ⑪, fully automatic slide change and sound synchronisation with the tape recorder is provided. So the whole show will leave a vivid impression. Make sure, however, to study the operating instructions of the control unit.

Additional interesting possibilities for the use of this socket (e.g. dissolve feature) are in preparation.

And that's how the autofocus system works

The slide reflects the beams of a lamp set up next to the lens onto the centre of a double photoresistor. If the slide is not in focus, the light beam moves sideways and the message of the photoresistor changes. Via an amplifier, the given message triggers a motor which adjusts the lens until the projected image is crisp and sharp in focus.



Replacing the lamp

If the lamp is burned out, pull out the power plug and allow the lamp to cool down. Open the lamp compartment ② using a coin and remove the lamp pulling it up vertically (see Fig. 3).

Take a new halogen lamp (24 V, 150 W) with its protective cover from the package and mount it into the holder. Make sure that both contact pins are inserted into the lamp socket. Only then remove the protective cover from the lamp.

It is recommendable to have a spare lamp at hand, in case of an emergency. You may store it in the holder provided in the spare lamp compartment ③.

Open the cover with a coin and insert the lamp with its protective cover into the holder (see Fig. 4).

Caution: Never touch the lamp with your bare fingers.

Note: To make your slide show an even greater success, your fully automatic slide projector has been designed with accessories in mind. You can store them in the spare lamp compartment.

Should a slide jam . . .

. . . the safety clutch immediately stops the slide advance. The ventilation system, however, continues operating to protect your valuable slide.

Now pull out the slide changer ⑥ and remove the slide from the plane of projection. If this is not possible, open the spare lamp compartment ③ with a coin and remove the slide using tweezers.

If necessary, remount the slide in a frame suitable for automatic slide advance.

Care and maintenance

Dust and dirt impair the brilliance and brightness of the projected image. Therefore carefully remove any dust from all optical elements, from time to time. To do so, use a clean, soft hair brush.

In case of malfunction, get in touch with the competent retailer. Make sure that the projector is in its **original packing**.

We cannot be held responsible for transport damages caused by faulty packing.

Technical data

Fully automatic slide projector with quadruple magazine system (Universal, Paximat, Revue and rotary magazines holding 100 slides) for 5x5 cm slides. Autofocus. Integrated remote control (detachable) with spiral cord.

Included functions: Slide previewer, autofocus OFF, electronic dimmer with 6 LEDs, "full light" with yellow LED, timer (5—50 secs.), pilot light signalling operating readiness, forward/reverse slide changing, focusing, 4-channel infrared remote control.

Lens: f 2.8/85 mm, fully coated. Allows attachment of 0.8-1.3 x zoom lens. Halogen lamp 24 V / 150 W, permanently adjusted. Fuse. Power switch. Strong cooling fan. Safety clutch. Replacement lamp holder. Prepared for extras. Socket for tape recorder or other accessories.

The right is reserved to alter specifications and design without prior notice.

MADE IN GERMANY