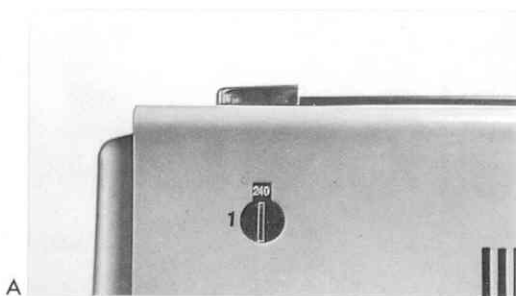


RANK ALDIS Tutor 2 SLIDE AND FILM STRIP PROJECTOR



Operating Instructions



A



B



C



D

1 Mains Connection

Before plugging the Tutor 2 Projector into the wall outlet check that the voltage selector 1 is set to the mains voltage supply.

* For connecting plug to mains cable and replacing fuse see appendix.

2 Setting Voltage Selector

Insert suitable screwdriver or coin into slot and revolve voltage selector 1 until required voltage appears in window as shown in photograph A which is set for 240V.

3 Setting Up Projector

Place projector on flat horizontal support (table, projection stand, etc.) the position of picture on the screen can be adjusted by screwing elevating feet 2.

4 Connect to Mains Supply

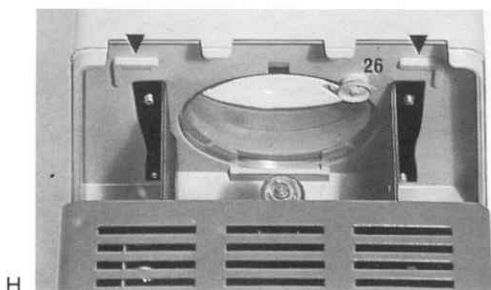
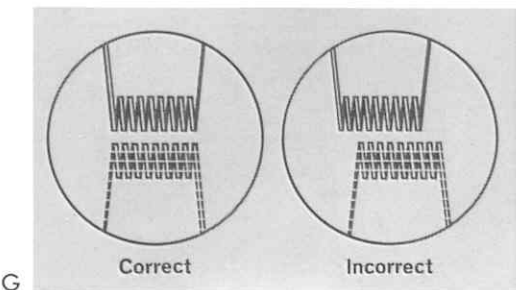
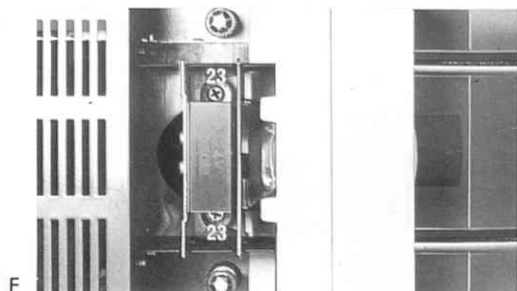
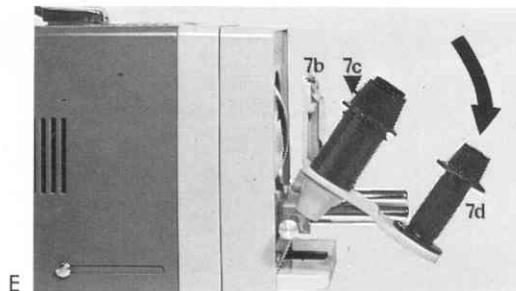
Insert the projector mains cable socket 3 into the input plug 4 as shown in photograph B. Switch on the projector by moving the on-off switch 5 to the side to expose red dot on switch.

5 Fitting Slide Carrier 6 and Indexing Film Carrier 7

Rotate front section 12 of projector to normal position as shown in key diagram. Slacken thumb screws 9 and move lens carrier 8 to end of bearer bars 10. Hook slide or film carrier over bearer bars as in photograph C and D and locate against front face of projector. Tighten thumb screw 11 on side of slide or film carrier. Position lens carrier as required on bearer bars 10 and tighten thumb screws 9 on lens carrier 8.

6 Loading the Film Strip

The film strip should be loaded so that the matt surface faces forward with the image inverted. Insert the end of the film beneath the spring clip on the feed/take-up spool 7a and wind the film onto the spool. Increase the space between glass plate 7b and 7c by pressing feed/take-up spool 7d as shown in photograph E. Pass the free end of the film between glass plates 7b and 7c round the indexing drum 7e and onto the spring clip on take up spool 7d rotate spool 7d gently until the teeth on the indexing drum 7e locate in the holes on the film.



7 Framing the Picture

Reposition the lens carrier 8 as required and switch on projector. Position the first frame correctly on the screen by rotating the framing knob 7f anti-clockwise as shown in key diagram.

The filmstrip may now be transported in either direction by rotating one of the feed/take up spools 7a or 7d correct framing being obtained in the positive 'click' positions. Two 'clicks' are required to index a film of standard 24mm x 36mm exposures.

For projecting a film with half frame 18mm x 24mm exposures one 'click' is required to index film. The half frame mask 7g should be inserted in the space provided immediately behind glass plate 7b and the rotating front 12 moved through quarter of a turn to bring the format right way up on the screen.

8 Fitting the Lens

The standard 85mm and 100mm lenses 15 are retained in the lens carrier 8 by means of a spring and helix and may be fitted by a pushing or screwing action. Focusing is achieved by rotating the lens by the toothed edge until the picture is sharp.

9 Changing the Lamp

Disconnect the mains supply from projector. Unscrew the four main cover screws 16 by about one turn only. Slide the main cover 17 towards the rear of the projector thus exposing the lamphouse. Remove the lamphouse top 18 by lifting at the rear to disengage from retaining spring. Lift out reflector 19 by sliding upwards and remove the lamp 20. Insert replacement lamp 20, 24V 250W using the cardboard sleeve provided and seat the lamp perfectly in the socket. Replace reflector 19.

Note: Do not touch the bulb with your bare fingers; use the cardboard sleeve provided.

10 Adjusting the Lamp

The lamp can then be adjusted by placing the pinhole slide 21 in the slide carrier and moving pinhole slide 21 into showing position. Place the lens 15 in position and fit lens cap 22, switch on lamp and adjust screws 23 shown in photograph F until image of lamp filament seen on the lens cap is approximately as shown in diagram G. After completing the adjustment switch off projector and replace lamphouse top 18 by dropping front end into position under bosses as shown in photograph H and pressing rear end under retaining spring. Slide main cover 17 to forward position and tighten all four main cover screws 16 firmly.



K



J

11 Maintenance and Care

Maintenance and care may be confined to occasional cleaning of the optical system with the aid of a soft brush or clean lint free cloth. Remove the lamp as described under "Changing the lamp" paragraph 9, remove aspheric condenser 24 by sliding upwards. Heat absorbing filter 25 may be removed by rotating clip 26 shown in photograph H until clear of filter and allowing top to tilt out of position for removal.

The front condenser 27 may be removed by firstly removing any attachment and lens carrier 8 from bearer bars 10 and inserting a screwdriver into the cut-out in the rotating front and lightly levering the clip 28 out of the retaining groove, see photograph K and removing front condenser 27.

The indexing film carrier 7 requires no attention except for regular cleaning of all surfaces that come into contact with the film.

APPENDIX

Connection of plug to mains cable

If a plug is not already fitted and where standard 3-core cable with brown, blue and green/yellow covered wires is fitted proceed as follows:

Connect the brown and blue covered wires to the live terminals on a suitable plug.

Brown to 'L' and blue to 'N'.

The green/yellow covered wire marked "earth" is to be connected to the earth terminal normally marked 'E'.

If the cable has wires to the old standard, i.e. red, black, and green, connect as follows:

Red to 'L', Black to 'N', Green to 'E'.

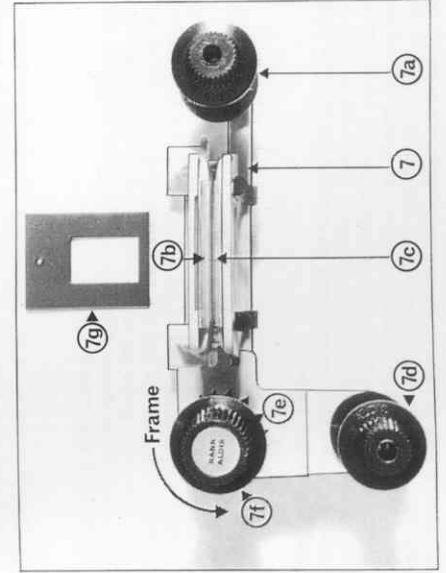
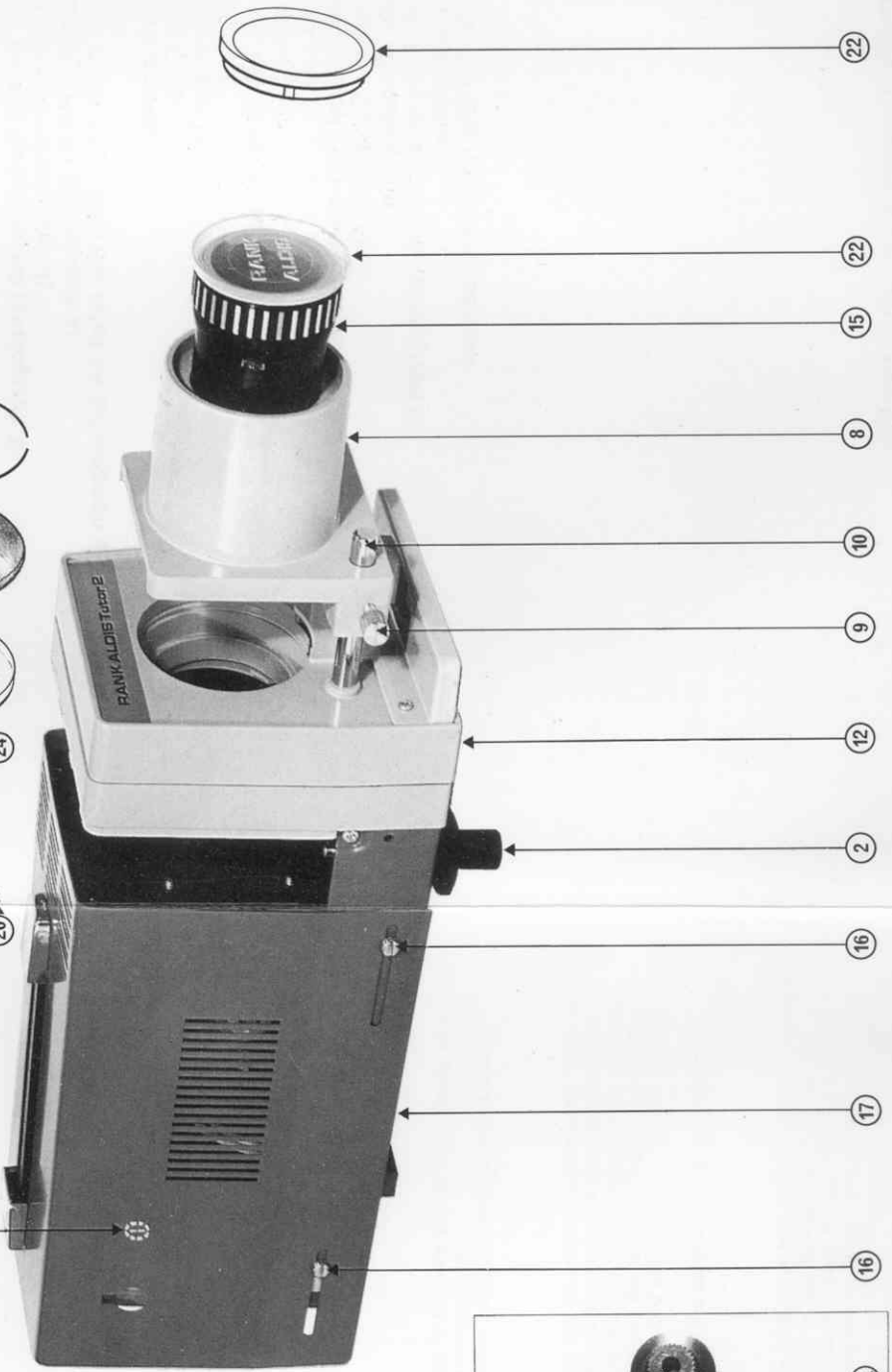
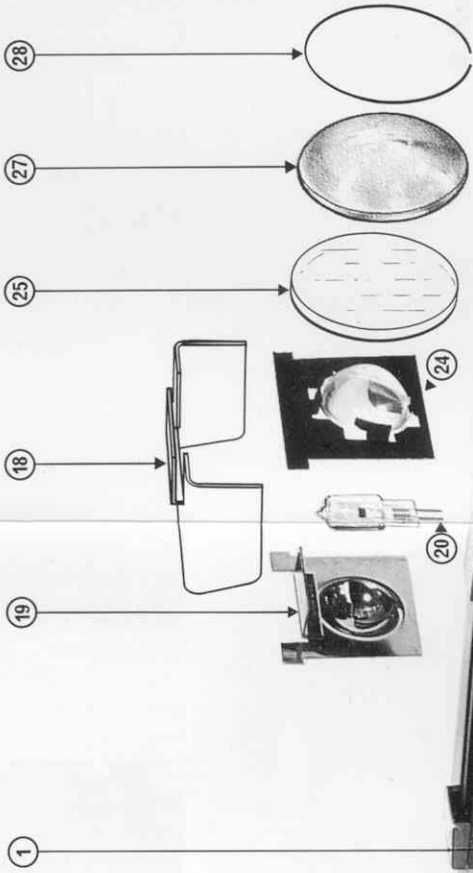
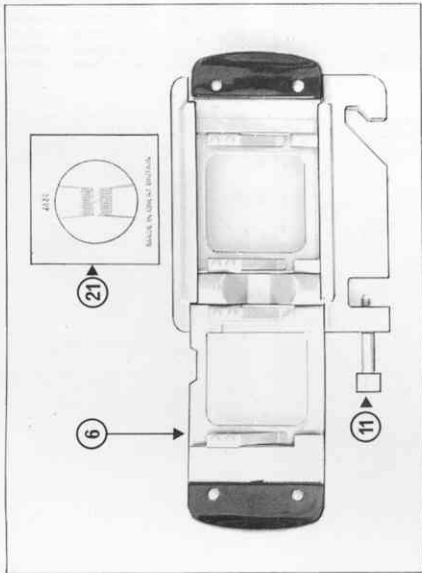
If the cable is not standard as described above and you are in doubt, please consult a qualified electrician.

Changing the Fuse

Disconnect the mains electric supply cable by switching off at wall socket and pulling out input socket 3 from projector.

Using suitable tool or coin inserted into slot on fuse holder 14 unscrew by turning in anti-clockwise direction and remove cartridge holder 14a as shown in photograph J. Replace old fuse in cartridge holder 14a with new fuse. Insert cartridge holder 14a and fuse 14b together into fuse holder on projector. By pushing with slight pressure and turning in a clockwise direction screw cartridge holder 14a firmly into fuseholder. Replacement fuse 14b to be 20mm long x 5mm diameter rated 3 amp.

Key Diagram



KEY DIAGRAM LIST OF PARTS

- 1 Voltage Selector
- 2 Elevating Feet
- 3 Cable Socket
- 4 Input Plug (photograph B)
- 5 On-Off Switch (photograph B)
- 6 Single Slide Carrier
- 7 Indexing Film Carrier
- 7a Feed/Take-up Spool
- 7b Glass Plate
- 7c Glass Plate
- 7d Feed/Take-up Spool
- 7e Indexing Drum
- 7f Framing Knob
- 7g Half Frame Mask
- 8 Lens Carrier
- 9 Thumb Screws Lens Carrier
- 10 Bearer Bars
- 11 Thumb Screw (Slide - Film Carrier)
- 12 Rotating Front
- 13 Low Voltage Output Socket (photograph B)
- 14 Fuse Holder (photograph J)
- 14a Cartridge Holder (photograph J)
- 14b Fuse 20mm long x 5mm dia. rated 3A (photograph J)
- 15 Lens
- 16 Cover Screws
- 17 Main Cover
- 18 Lamphouse Top
- 19 Reflector
- 20 Lamp 24V 250W ref. No. A1/223
- 21 Pinhole Slide
- 22 Lens Cap
- 23 Lamp Adjusting Screws (photograph F)
- 24 Aspheric Condenser Assy.
- 25 Heat Absorbing Filter
- 26 H.A. Filter Retaining Clip (photograph H)
- 27 Front Condenser
- 28 Retaining Clip for Front Condenser

The manufacturer reserves the right to alter this specification at any time without notice.

RANK ALDIS TUTOR 2

REVISED OPERATING INSTRUCTIONS

Since the publication of this Instruction Booklet, a number of modifications have been made. It is therefore important to note these additional items under the relevant sections.

MAINTENANCE AND CARE

Maintenance and care may be confined to occasional cleaning of the optical system with the aid of a soft brush or clean lint free cloth. Remove the lamp as described under "Changing the lamp" Para 9. Remove aspheric condenser 24 by sliding upwards. The front condenser may be removed by first removing any attachment and the lens carrier 8 from parallel bars and inserting screwdriver in the cut out in the rotating front and lightly levering the clip out of the retaining groove, see photograph 1 removing front condenser.

The front heat filter may now be removed by carefully levering the circlip from its slot and removing the heat filter. The rear heat filter is best cleaned in situ though it may be removed if desired by rotating the clip 26 shown in photograph H until clear of filter and allowing top to tilt out of position for removal. Great care must be taken during this operation and subsequent refitting of the filter to ensure that the edge of the filter is not chipped by the clip 26.

The indexing film carrier 7 requires no attention except for regular cleaning of all surfaces which come into contact with the film.

SETTING VOLTAGE SELECTOR

This is generally set for 240 v. If however change is required, firstly disconnect the mains plug from the projector. Take off the outer cover by removing the four main cover screws, insert a suitable screwdriver or coin into the rotary voltage selector. The selected voltage should be positioned top centre.

CHANGING THE LAMP

Replacement lamp for the TUTOR 2 is an ATLAS A1/223, 24 volt 250 watt halogen.

EXTERNAL OUTPUT SOCKET

Located on the rear of the projector is a 12 volt output socket fig. 13. This provides for a small low voltage reading lamp or light pointer. It is used in conjunction with a BULGIN PLUG type SA 2025.



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