Microcine Mignon 35
35 mm sound movie projector

Operating instructions



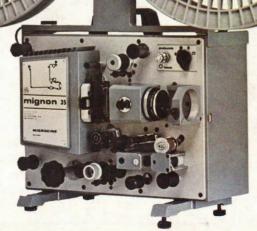
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Picture widths at various distances from the screen as a function of focal length

A) Regular lenses

Distance from screen, metres	5	6	7	8	9	10	12	14	16	18	20	22	24	26	28	30	35	40
Focal length mm.		Picture width mts.																
40	2,6	3,1	3,65	4,2	4,7	5,2	6,25	7,3	8,4	-	_	- 1	_	_ ×		_	_	_
50	2,1	2,5	2,9	3,35	3,8	4,2	5,0	5,85	6,7	7,5	8,4	-	-	-	-	_	_	-
60	1,75	2,1	2,45	2,8	3,15	3,5	4,2	4,9	5,6	6,3	7,0	7,8	8,3	-	-	_	_	-
70	1,5	1,8	2,1	2,4	2,7	3,0	3,6	4,2	4,8	5,4	6,0	6,6	7,2	7,75	8,35	_	-	-
80	1,3	1,5	1,8	2,1	2,35	2,6	3,1	3,65	4,2	4,7	5,2	5,75	6,25	6,8	7,3	7,8	_	_
90	1,15	1,4	1,6	1,85	2,1	2,3	2,8	3,25	3,7	4,2	4,65	5,1	5,55	6,0	6,5	7,0	8,1	-
100	1,05	1,25	1,45	1,65	1,9	2,1	2,5	2,9	3,35	3,75	4,2	4,6	5,0	5,45	5,85	6,3	7,3	8,35
110	0,95	1,15	1,3	1,5	1,7	1,9	2,3	2,65	3,0	3,4	3,8	4,2	4,55	4,95	5,3	5,7	6,65	7,6
120	0,85	1,05	1,2	1,4	1,55	1,75	2,1	2,45	2,8	3,15	3,5	3,8	4,2	4,5	4,9	5,2	6,1	7,0
130	-	_	1,1	1,3	1,45	1,6	1,9	2,25	2,55	2,9	3,2	3,5	3,85	4,2	4,5	4,8	5,6	6,4
140	_	_	_	_	1,35	1,5	1,8	2,1	2,4	2,7	3,0	3,3	3,6	3,9	4,2	4,5	5,2	6,0
160	-	-		_		_	1,55	1,8	2,1	2,35	2,6	2,85	3,15	3,4	3,65	3,9	4,55	5,2
180	-	-	_		-	_	_	1,6	1,85	2,1	2,3	2,55	2,8	3,0	3,25	3,5	4,05	4,65

B) Cinemascope lenses (1:2,33)

Distance from screen mts.	5	6	7	8	9	10	12	14	16	18	20	22	24	26	28	30	35	40
Focal length mm.		Picture width mts.																
40	5,2	6,2	7,3	8,4	-	_	-	_	_	-	-	-	-	_	_	_	_	_
50	4,2	5,0	5,8	6,7	7,6	8,4	_	-	_	-	_	-	-	_	_	_	_	-
60	3,5	4,2	4,9	5,6	6,3	7,0	8,4	-	_	-	_	-	_	_	_	-	-	- I
70	3,0	3,6	4,2	4,8	5,4	6,0	7,2	8,4	-	-	_	_	_	_	_	-	_	_
80	2,6	3,0	3,6	4,2	4,7	5,2	6,2	7,3	8,4	-	_	-	_	_	_	_	_	_
90	2,3	2,8	3,2	3,7	4,2	4,6	5,6	6,5	7,4	8,4		-	_		_	_	_	-
100	2,1	2,5	2,9	3,3	3,8	4,2	5,0	5,8	6,7	7,5	8,4	-	_	_	_	_	-	-
110	1,9	2,3	2,65	3,0	3,4	3,8	4,6	5,3	6,0	6,8	7,6	8,4	_	_	_		_	_
120	1,7	2,1	2,4	2,8	3,1	3,5	4,2	4,9	5,6	6,3	7,0	7,6	8,4	_	_	_	_	_
130	_		2,25	2,6	2,9	3,2	3,8	4,5	5,1	5,8	6,4	7,0	7,7	8,4	_	_	_	_
140		_	_	_	2,7	3,0	3,6	4,2	4,8	5,4	6,0	6,6	7,2	7,8	8,4	_	_	-
160	_	_	_	_	_	_	3,1	3,6	4,2	4,7	5,2	5,7	6,3	6,8	7,3	7,8		
180	_	-	_	_	_	_	-	3,2	3,7	4,2	4,6	5,1	5,6	6,0	6,5	7,0	8,1	-

General information

The Mignon 35 portable movie projector is a professional 35 mm. unit, with excellent optical and acoustic performance, and can be operated by non-skilled personnel, even in environments where a conventional projection room is not available.

The Mignon 35 is therefore particularly suited for cine associations and clubs, private projection rooms, hospitals, schools, small movie-theatres, as well as on board ships and television companies (25 fps model available).

All controls are conveniently located on the face of the unit and are clearly marked. The projector has the facility for film rewinding, therefore no separate rewind unit is required. A carefully designed optical system allows maximum light output from the Mignon 35's

1000 watt halogen projection lamp. This provides excellent picture quality on the screen up to 8 metres (26') in width. Normal maintenance is limited to cleaning the film path (which is easily accessible) and to the replacement of parts subject to normal wear, such as lamps, pressure pads, etc., which can easily be removed and replaced without using any special tools. The Mignon 35 can be used for projecting academy 35 mm. widescreen films, as well as cinemascope, by simply fitting an anamorphic lens in the holder provided, and using the correct aperture mask supplied.

The Mignon 35 can be made completely self-sufficient by using a light, portable power unit, which can be supplied on request.

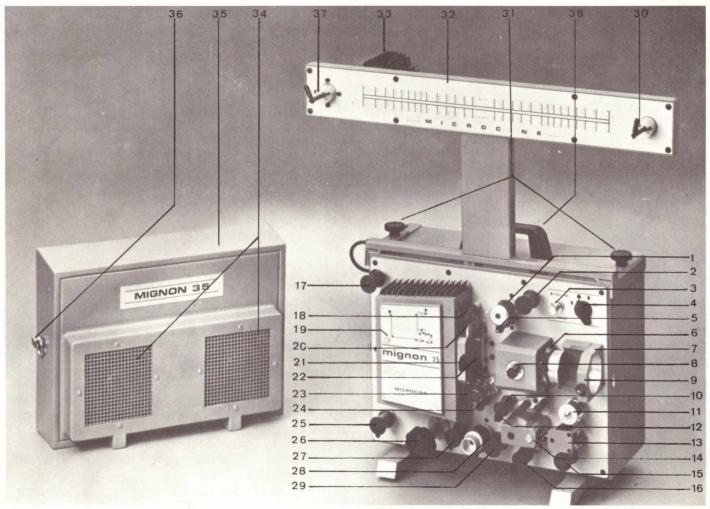


Figure 1

Operating instruction for the Mignon 35 projector

- **1.** Place the Mignon 35 on a flat, rigid surface and adjust the knobs (35) located under the front feet of the projector, in order to prevent any unsteadiness.
- 2. Slide the "T" spool assembly (32) onto the projector along the metal slide-guides provided, until the arm is fully seated. This is important for the correct alignment of the reels with the film transport guide rollers. Fasten the "T" assembly by tightening the clamping knobs (31) and insert the plug (57) into the socket (56) located in the upper rear of the unit. This will connect the winding motor (33) to the power supply.
- **3.** The Mignon 35 is available for operation at 220V, 240V/50Hz (or 117V/60Hz on request). The exact voltage and frequency required should always be specified when ordering. The 10 AMP fuse (60) is located on the lower rear, between the socket for the power cable (51) and the speaker socket (59). Insert the power cable in the socket (61) and connect it to the "mains" power supply. The white indicator light located above the pressure pad will show that the projector is on. The Mignon 35 should always be earthed by using the third lead available in the power supply cable.
- **4.** By using the cable supplied with the projector, connect the speaker (35), which is the cover of the projector, to the speaker socket (59) located in the bottom rear of the unit. Rotate the small volume knob (3) on the face, which switches on the amplifier and the exciter lamp (55).

5. Place two reels on the 9 mm shafts (30) and (37) of the "T" assembly, and lock them with the toggles. The film should be on the front reel and, according to normal practice, the film comes off the front of the reel, with the sound track nearest the operator, and the image upside down. Lace the film as shown in the diagram (42) on the lamp cover. To ensure a steady picture, it is important that the film loops (41) and (44) are correctly adjusted, as shown in fig. 3.

The pressure plate (22) of the sprung film skids has a magnetic lock; to open, pull lightly.

6. Before switching on the projector, with switch (14), located on the control panel, it is important to ascertain that the film tension on both supply (39) and take up (40) is correct, in order to avoid film "snatch" during start-up.

The use of light-weight reels is recommended. Two plastic reels, specially suited to the Mignon 35, complete with a sturdy plastic carrying/shipping case, can be supplied with the projector, as an optional accessory.

IMPORTANT NOTE: After each show, carefully clean both film skids (51) and (52) in order to remove any dirt. No other maintenance is normally required, except keeping the film path clean.

7. In order to replace the projection lamp (47), it is recommended to use the ejector (49). It is essential that the bulb of the new lamp is not touched with bare fingers during replacement.

8. In order to change the aspect ratio of picture (width to height) on the screen, simply pull out the metal aperture mask (54) and replace it with the correct mask. The Mignon 35 is normally supplied with one gate plate with two ratios: one for widescreen projection (ratio 1:1.66) and the other for cinemascope (1:2.34). Other aperture sizes are available on request.

9. To rewind the film after the show, simply unthread

any of the film still remaining in the projector, transpose the reels (bring the full reel to the front and the empty reel to the rear, with the film coming out from the front of the front reel), fasten the end of the film to the back reel, and turn the main switch (4) completely anticlockwise. The film will now rewind.

10. The Mignon 35 projector does not require any lubrication. The box containing the Maltese Cross is

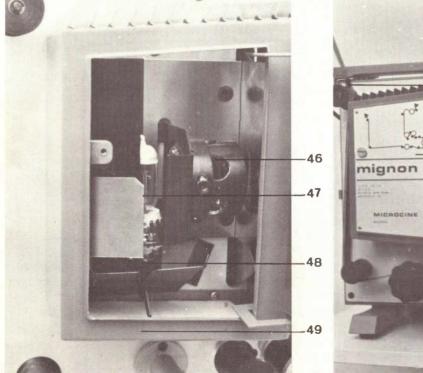


Figure 2

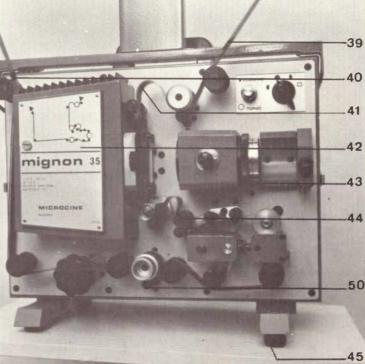


Figure 3

hermetically sealed, and contains about 15 cc of lubricating oil, which should never need replacement. In the unlikely event of leakage, however, the oil can be restored with conventional SAE 20 oil, by removing the screw on the box (8A, Figure 6).

11. An optional accessory for the Mignon 35 is the continuous loop attachment. This can be mounted in the place of the reel holding arm. The attachment will

take up to 100 mts. (300 feet) of 35 mm. film. To put the device into operation, place the film pack around the free moving rollers. The film will come off from the outside of the pack, will go through the projector following the normal lacing diagramme, and will return to the inside of the pack through the specially coloured roller. A tape splice should of course be used to obtain the continuous loop.

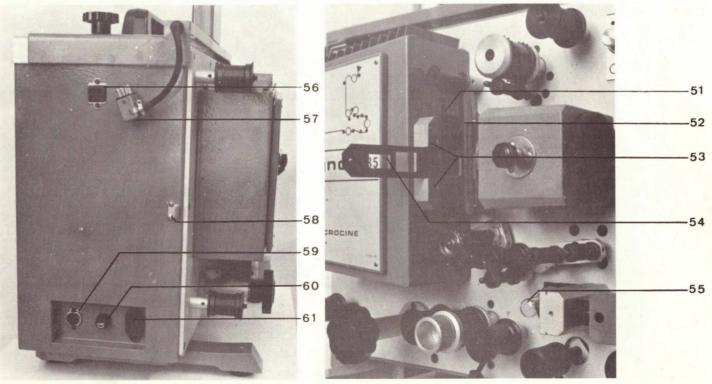


Figure 4

Figure 5

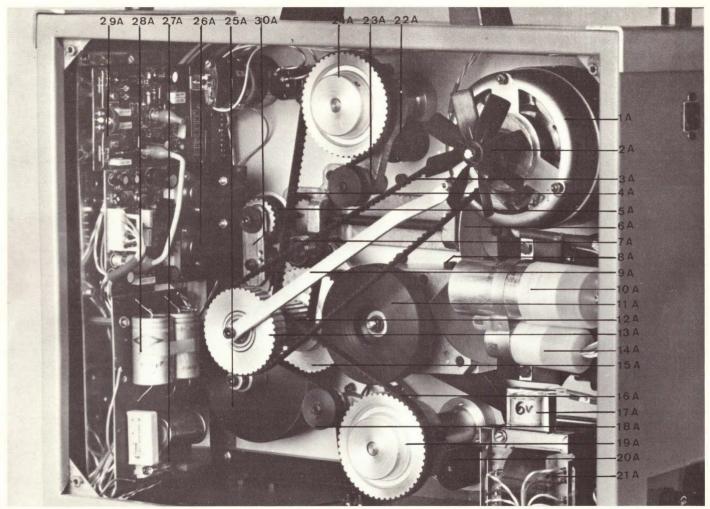


Figure 6

Mignon 35 nomenclature

Figure 1

1. Upper 24-tooth sprocket.

2 Film quide roller

3. Amplifier on/off switch and volume control (central knob); tone control (outer ring).

4. Main switch.

5. Pressure roller.

6. Focusing ring.

7. Removable holder for anamorphic lens.

8. Locking screw for clamping projection lens.

9. Locking screw for clamping anamorphic lens.

10. Loop guide roller.

11. Rubber damping roller.

12. Pressure roller for loop guide.

13. Photocell mounting plate.

14. Exciter lamp housing cover retaining screw.

15. Film guide roller.

16. Anti-flutter roller.

17. Film guide roller 18. Loop forming roller.

19. Projection lamp housing cover retaining screw.

20. Film path guide.

21. Aperture mask (interchangeable).

22. Film skid pressure plate.

23, 16-tooth intermittent sprocket.

24. Pressure roller for intermittent sprocket (23).

25. Film guide roller.

26. Framing knob. 27. Film quide roller.

28. Lower 24-tooth sprocket.

29. Film guide roller. 30. Supply reel 9 mm shaft.

31. Clamping knobs for "T" assembly.

32. "T" assembly with scale indicating both time and film length - up to 1800 m (6000').

33. Take-up and rewind torque motor.

34. Speaker (8 ohms).

35. Side cover.

36. Side cover catch.

37. Take-up reel 9 mm shaft.

38. Carrying handle.

Figures 2/3

39. Film coming from supply reel.

40. Film going to take-up reel.

41. Upper film loop.

42. Film path diagram (to be followed when threading film).

43. Projection lens (62.5 mm Barrel).

44. Lower film loop. 45. Adjustable feet.

46. Condenser lens assembly.

47. Projection lamp:

- Atlas A1/242 or equivalent for 220/240V models (1000W)

- Sylvania BRR or equivalent for 120V models (1000W)

Sylvania BRN optional for 120V models (1200W)

48. Projection lamp holder. 49. Projection lamp ejector.

50. Manual film advance knob

Figures 4/5

51. Stationary film pressure guide.

52. Sprung film pressure skid.

53. Magnetic catches for sprung film pressure skid cover.

54. Aperture mask (interchangeable) - One plate with 2 aperture sizes (wide screen 1:1.66 - cinemascope 1:2.34) supplied with each projector. Other sizes available on request.

55, 6V/1 AMP exciter lamp (BSS).

56. Four-pin, socket for connecting "T" assembly torque motor.

57. Four-pin plug for connecting "T" assembly torque motor.

58. Hook for side cover catch.

59. Socket for speaker. 60. 10 AMP 6x30 mm fuse.

61. Socket for power cable.

Figure 6

Major internal components of Mignon 35

1A Main motor.

2A Plastic cooling fan for main motor.

3A Toothed belt (260xL037) for motor.

4A Toothed belt (210xL037) for upper sprocket.

5A Toothed belt (180xL037) for shutter and intermittent mechanism.

6A Shutter assembly.

7A Toothed belt pressure/tension control. 8A Intermittent mechanism - oil filter screw.

9A Bracket.

10A Main motor capacitor (5MFD 400V). 11A Intermittent mechanism flywheel.

12A Intermediate sprocket.

13A Motor coupling sprocket (Z=40).

14A Rewind motor capacitor (1.5 MFO 400V).

15A Main sprocket (Z-50).

16A Lower 24-tooth sprocket belt (180xL037).

17A Indicator lamp transformer - 6V. 18A Lipped belt tensioning roller.

19A Lower 24-tooth sprocket drive sprocket (Z=48).

20A Release assembly for lower sprocket pressure roller.

21A Power supply transformer.

22A Release assembly for upper sprocket pressure roller. 23A Lipped belt tensioning roller.

24A Upper sprocket drive sprocket (Z=48).

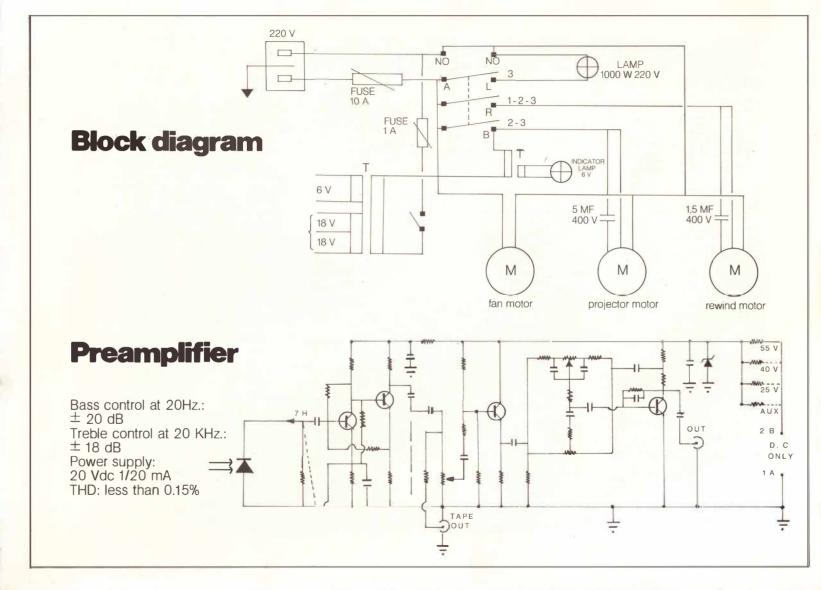
25A Optical sound flywheel.

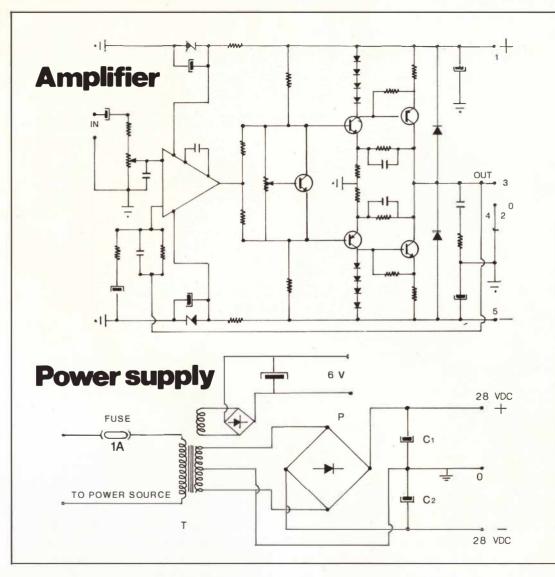
26A Power amplifier

27A 1 AMP fuse for power supply transformer. 28A DC power supply for amplifier and exciter lamp.

29A Preamplifier with bass trimmer.

30A Shutter and intermittent belt tensioner.





Data

Open circuit voltage: 28 - 28 VDC max. 1.8A Output power: 55 Watts RMS at 4 ohm. Output impedance: 4'16 ohm. Sensitivity at max. output power: 0.15-10V at 0 dB (0.775V). S/N Ratio: better than 85 dB. Frequency response: $20-20.000 \text{ Hz.} \pm 2 \text{ dB at } 36\text{W}$ (8 ohm). Distorsion at 55W (4 ohm): 0.7% Distorsion at 36W (8 ohm): 0.33%. Safety threshold against short-circuits on load: 60W (4 ohm). Solid state construction. 1 integrated circuit. 17 transistors.



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