

BELL
8_{mm} PROJECTOR
SYNCHRO PET

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BELL & KOON CO., LTD.
Tokyo Japan



Fig. 1

1. Reel:

Remove the take-up reel (200 feet) under the lens (Fig. 1)

2. Cover:

Remove the cover bearing the magazine. This cover may be used as a stand while projecting (Fig. 2)



Fig. 2

3. Reel Arms:

Open the upper and lower arms until they snap.

4. Spring Belts:

During projection only the lower belt should be engaged. The upper belt should be disengaged.

5. Rewinding:

After projection the film is rewound directly from the lower reel to the upper. The lower belt is then disengaged and the upper engaged before turning on the motor.

6. Speed Control:

Set the speed controller to 5 or above before turning on the motor (Fig. 3)



Fig. 3

7. Test Before Projection:

Before threading the film switch on the motor. As soon as operation speed is reached switch on the lamp.

8. Projection Angle:

This may be set by adjusting the tilt device in the front of the base (Fig. 4)



Fig. 4

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Fig. 8



Fig. 9



Fig. 5



Fig. 6

9. Threading the Film:

Open the lens holder (Fig. 8) and thread the film from the upper reel to turn through the upper sprocket, aperture plate, lower sprocket and the take-up reel. Close the lensholder and test that the film is correctly threaded and is unscraper by turning the manual knob (Fig. 6)

10. Projection:

When the film is correctly threaded switch on the motor and keep it running and adjust the focus by turning the projector lens.



Fig. 7

11. Framing:

If the top or bottom line of the picture frame is visible on the screen during projection, adjust by raising or lowering the framing lever (Fig. 7)

Fig. 10

12. Broken Film:

Should a film breakage occur or the film fail to transport due to tape perforations or faulty threading, cut off motor and lamp immediately.



13. After Projection:

Switch off lamp and motor and follow reverse procedure.



Fig. 11



Fig. 12



Fig. 13

SPECIFICATIONS:

- Projection Bulb: 100 Watt
 Projection Lens: 12 mm f/1.4 super wide angle lens
 Voltage: When ordering, voltage and type of plug must be specified.
 Reel: Unless otherwise specified, one reel of 300 feet to be supplied. The reel available up to 400 feet, if specifically required.
 Dimensions: 10 cm x 22 cm x 19 cm.
 Net Weight: 4 lbs. 10.8 lbs.
 Speed Adjuster: The speed adjuster for synchronization is not installed inside the projector. This is to be installed only when the TOLL PCT Synchronizer is purchased in combination.

11. Replacement of Projection Lamp:

Remove lamp base holding screw (Fig. 6) and take off lamp base. Pressing down slightly turn old lamp bulb a quarter turn counter-clockwise and lift out. Insert new lamp bulb and pressing down slightly turn a quarter turn clockwise to lock in position. (Fig. 9)

12. Slide Projection:

The 25 mm attachment fits very snugly to the projector as follows—

- (a) Remove cap reflector is attached to the back of case at rear of the projector lamp base. (Fig. 10)
- (b) Remove lamp base (Fig. 6) and fit slide attachment to rear of aperture or dist of the two knurled screws. (Fig. 11) It is unnecessary to remove condenser lens.
- (c) Open projector lens holder and fit plate in slot of aperture.
- (d) Replace lamp base. If the slide changer, turn on motor and lamp and project with slide projector. (Fig. 12)

13. Anamorphic Lens Projection:

Anamorphic lens can be attached to the projection lens, if desired.

CAUTION:

Before closing projector, be certain that cord and spring lock are in proper position. 1. Fasten rewind belt on motor sprocket retainer. 2. Wind cord and place in position as illustrated (Fig. 13). 3. Fasten take up belt on lamp base screw to retain film cord in position.