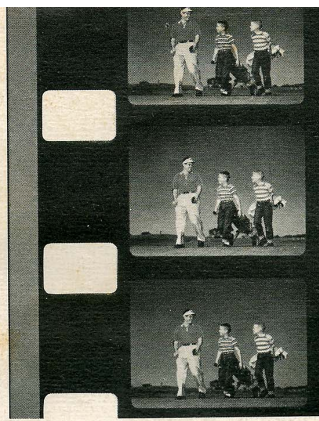




***KODAK INSTAMATIC M80* MOVIE PROJECTOR**

BASIC DIFFERENCES BETWEEN REGULAR 8MM AND SUPER 8

1. 50% greater picture area with super 8 film.
2. Smaller perforations and center location with super 8 film.
3. Less space between frames with super 8 film.



REGULAR 8MM FILM



SUPER 8 FILM

KODAK INSTAMATIC M80 Movie Projector Features

Fully automatic
threading right
onto take-up reel.
Reel automatically
accepts both
film types

Flip-top cover
with powered
spindles

400-foot reel capacity
for approximately half-hour
showings of your movies

Accepts super 8
and regular 8mm films.
Combination feature controlled by
two-position knob

Modern,
low-format design

Fast, power rewind

KODAK Projection
EKTANAR f/1.5 Lens
plus new lamp design
provides brilliant images.
Available f/1.5 KODAK
Zoom Lens lets you adjust
picture size to fit your screen
without moving the projector
or screen

Film Trimmer

Motor-lamp switch
with a choice of
lamp brilliance

Single control for forward,
reverse, and still projection
with a choice of projection speeds—
normal, slow-motion (6 fps),
and rapid (54 fps)

Unique, latching
film guide roller prevents
spilling of film from
reel while threading

Rugged, die-cast body
with molded carry handle

Setting up

1. Place the projector on a table or other firm support of convenient height. The height of the table should be such that the projection lens is opposite the center of the screen. Excessive tilt of the projector produces a "keystone" effect on the screen (picture will be narrower at the bottom than at the top). Place the screen at a convenient distance from the projector, referring to the table at right.

2. Remove the TAKE-UP REEL (supplied with the projector) from the

TO FILL 40" WIDE PROJECTION SCREEN

| Lens | Projector to Screen Distance | |
|--------------------|------------------------------|-----------------|
| | Super 8 | Regular 8mm |
| 22mm f1.5 | 14 feet | 17 feet |
| *20-32mm f1.5 Zoom | 12 to 19 feet | 15 to 24.5 feet |

*Lens is zoomed by sliding front portion of lens barrel forward and backward.

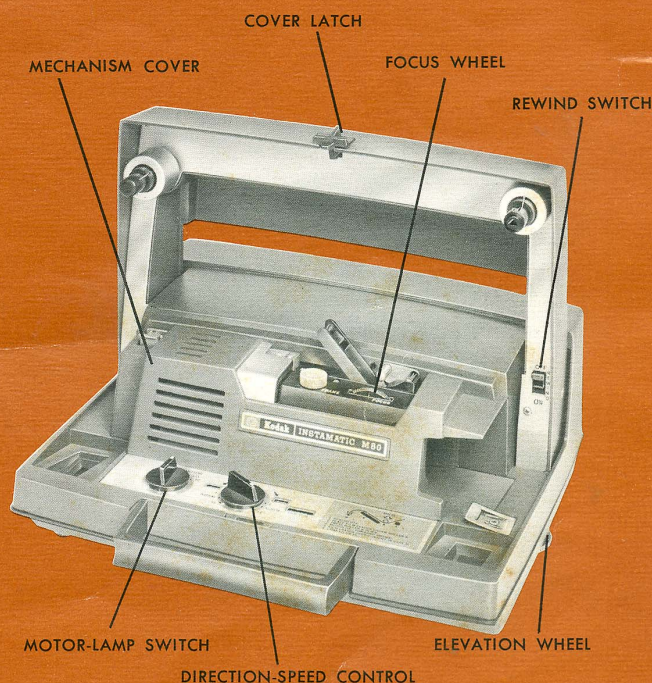
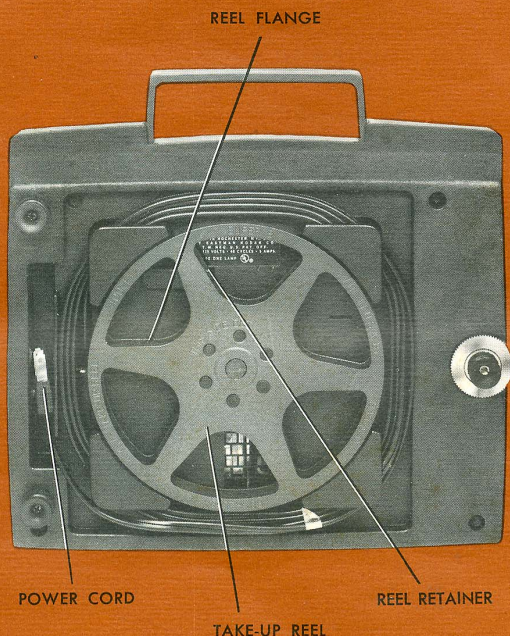
base of the projector by turning it clockwise until the REEL FLANGE is free of the slot in the REEL RETAINER. Then lift off the reel. The reel accepts both super 8 and regular 8mm films.

3. Unwind the POWER CORD from its

storage frame on the base of the projector. One end of the cord is permanently attached to the projector.

4. The projector operates on 110- to 125-volt, 60-cycle alternating current only. If you do not know the voltage of your electric line, ask your local electric service company.

5. Lay the projector down with the handle toward you. Push the COVER LATCH to the left as indicated by the arrow molded on the latch. The cover will spring open. Raise the cover to an upright position.



Adjusting for Film Type

Before threading the film it is necessary to set the projector for the type of film (super 8 or regular 8mm) you are going to project. Check the CONTROL PANEL and SUPPLY SPINDLE illustrated on page 7, to see what film type the projector is set to show.

For super 8—Control panel should show SUPER 8 and spindle adapter should be in place on supply spindle, as illustrated on page 7.

For regular 8mm—Control panel should show REG 8 and spindle adapter should be removed from supply spindle, as illustrated on page 7.

If adjustments are necessary

1. Remove the MECHANISM COVER,

illustrated on page 5, by grasping it at both ends, swinging the bottom of the cover toward the control panel and lifting it off. *To show super 8 movies*, turn the SELECTOR SWITCH clockwise as far as it will go; *to show regular 8mm movies*, turn the selector switch counterclockwise as far as it will go. Check to be sure control panel shows desired film type.

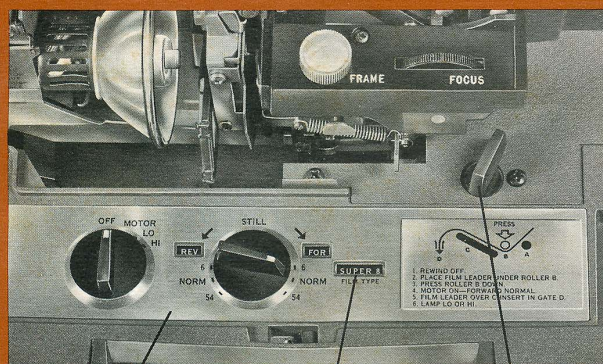
NOTE: Changing the film type on the control panel also changes the reverse (REV.) and forward (FOR.) settings of the direction-speed control.

2. If you are going to project super 8 movies and the supply reel SPINDLE ADAPTER is not on the supply reel spindle, remove the adapter from the

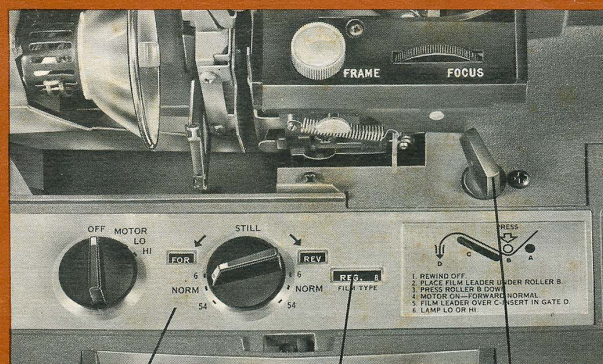
SPRING CLAMP on the inside of the mechanism cover. Line up the ARROW on the end of the adapter with the ARROW on the end of the supply reel spindle. Slide the adapter onto the spindle until the RETAINING SPRING, illustrated on page 7, on the spindle snaps into position.

3. If you are going to project regular 8mm movies and the supply reel spindle adapter is on the supply reel spindle, remove the adapter from the spindle by depressing the retaining spring and sliding off the adapter. Replace the adapter inside the mechanism cover. The adapter is held in place by the spring clamp.

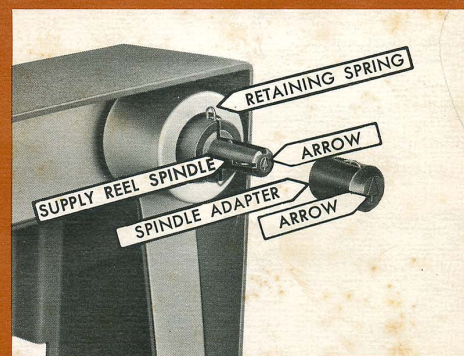
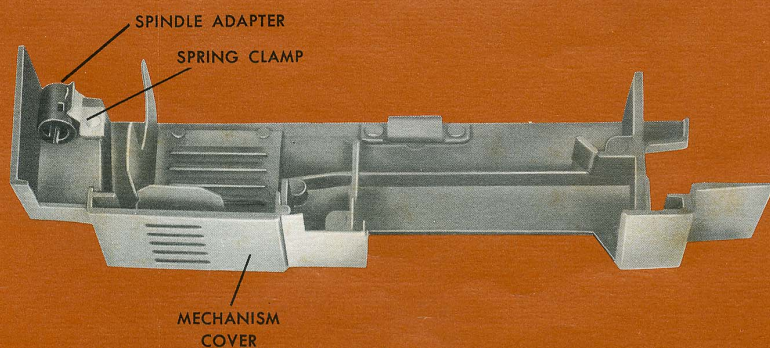
4. Replace the mechanism cover.



CONTROL PANEL FILM TYPE SELECTOR SWITCH



CONTROL PANEL FILM TYPE SELECTOR SWITCH



Threading

1. Check the control panel to see that the projector is set for the proper film type.

2. With its slotted center hole facing the projector (side marked **OTHER SIDE OUT**), place the empty **TAKE-UP REEL** on the **TAKE-UP SPINDLE**. Push the reel onto the spindle as far as it will go.

3. Place a reel of film (400 ft. maximum) on the **SUPPLY SPINDLE** so that the film comes from the bottom of the reel and the perforated edge of the film is toward you. Push the reel onto the spindle as far as it will go.

NOTE: At least one foot of white movie **LEADER** (usually supplied attached to your film by processors) should be attached to your film for threading.

4. Thread film under the **GUIDE ROL-**

LER. Press down the roller until it locks. Allow about 6" of film to extend beyond the roller to complete threading.

5. Be sure that **rewind switch** is in the **"OFF"** position.

6. Plug the power cord into a suitable electric outlet.

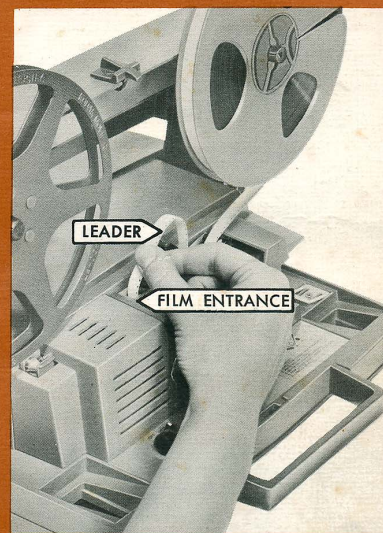
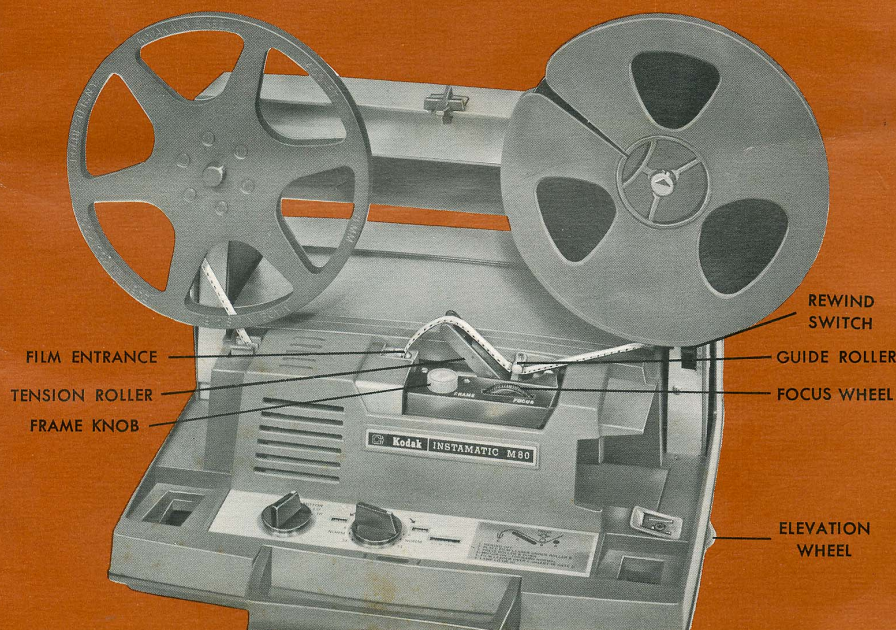
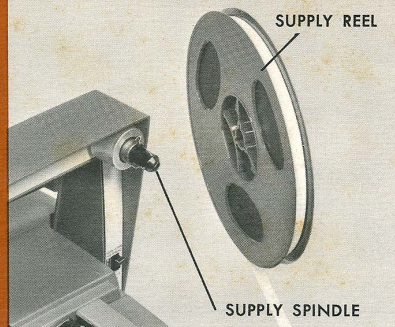
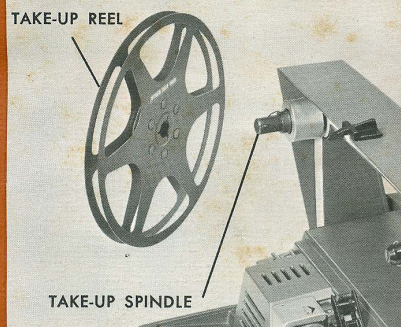
7. Turn the motor-lamp switch to **LO** or **HI**. If the voltage of your electric service is above 125 volts, turn the switch only to **LO**. Operating the projector with the motor-lamp switch at **LO** will greatly increase lamp life. Turn the direction-speed control to **NORM** (Normal) under **FOR** (Forward).

8. Center the lighted area on the screen vertically by turning the **ELE-**

VATION WHEEL; and horizontally, by moving the projector. Rotate the **FOCUS WHEEL** backward and forward until the margins of the lighted area are sharply defined.

9. Thread the film over the **TENSION ROLLER** and into the **FILM ENTRANCE** in short strokes until the film begins to move automatically; the guide roller will snap upward to its normal position. The film is now transported by the automatic threading mechanism through the threading path in the projector and onto the take-up reel where it attaches itself for take up.

10. Focus the picture on the screen. If a blank strip or edge of the next picture shows at the top or bottom of the picture being viewed, rotate the **FRAME KNOB** until the picture is properly centered on the screen.



Projection

Darken the room sufficiently to enable a brilliant image to be projected on the screen. The room need not be totally dark. If you use a light near the projector it should not shine on the screen or into the eyes of the audience.

1. If during projection you wish to show a single frame of film, move the film direction control to **STILL**.
2. To reverse the direction of the film, move the film direction control to **REV** (Reverse).

3. When all of the film has reached the take-up reel, move the motor-lamp switch to **OFF**.

Rewinding

Attach the film to the supply reel by sliding the film into the slot in the side of the reel and giving the reel at least one turn counterclockwise. Make sure that the first turn around the center of the reel is tight and that there is no slack between the reels.

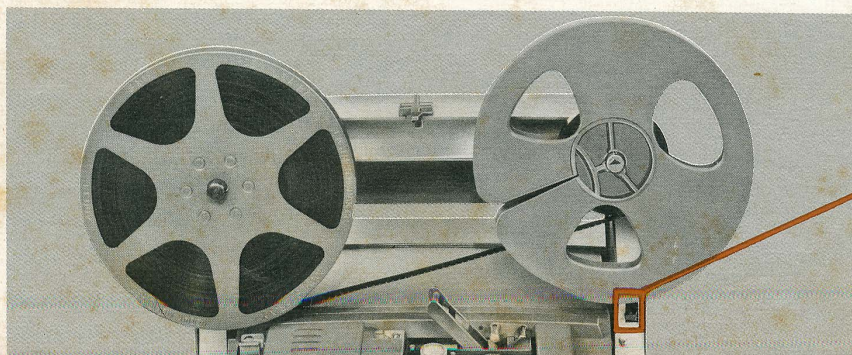
Push the **REWIND SWITCH** downward to **ON**; then turn the motor-lamp

switch to **MOTOR**.

*After the film is completely rewound, turn the motor-lamp switch to **OFF**; then push in on the rewind switch—it will return to **OFF**.*

When the last reel has been shown and rewound, remove the reels and close the cover. Unplug the power cord and wind it behind the four corners of the storage frame, inserting the plug into its channel. Put the take-up reel over the spindle pin on the projector base, turning it counterclockwise until one of the reel flanges fits in the slot in the reel retainer.

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REWIND
SWITCH



Operating Tips

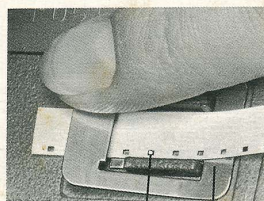
1. If there are torn film perforations, the section containing them should be cut out, and the film spliced. Your Kodak dealer will be glad to recommend a splicer, such as the **KODAK PRESSTAPE Universal Splicer**, for this purpose.
2. If the picture on the screen is upside down and the action is backwards, the film has not been rewound.
3. If the film breaks, shut off the projector. Clear the broken film from the threading path by running the projector first in forward and then in reverse. Splice the film, and rewind it to the supply reel; then rethread the projector according to the instructions on page 8 and continue the show.

or

Clear the broken film from the threading path by rotating the reels by hand. This will cause one broken end to be at the supply reel, and the other end at the take-up reel. Trim the film end at the supply reel, then

rethread the projector with the film from the supply reel. When about 1½ feet of film has left the end of the threading path at the take-up reel, shut off the projector and splice this film end (from supply reel) to the end from the take-up reel. When splicing is completed, manually turn the take-up reel to wind up the slack film.

4. If the film does not thread onto the take-up reel, make sure that the end of the film is square and that there are no broken perforations near the end of the film. The film should curl in the same direction as the film is wound on the supply reel.



PIN FILM TRIMMER

To square the end of the leader, place it under the **FILM TRIMMER** with one perforation over small **PIN**,

and depress the spring blade until the film is cut.

5. Processed films are generally lubricated and to prolong their life and assure smooth, quiet projection, they should be cleaned and relubricated periodically. Use **KODAK Movie Film Cleaner (with Lubricant)**. This can be purchased from your Kodak dealer.

Occasionally a film may not be lubricated by the processor. Lack of film lubrication can cause unsteady pictures. If this occurs, lubricate the film.

Projection Lamp Tips

- Rough treatment of projector, especially while lamp is lighted, may damage projection lamp.
- Make sure free passage of air is not obstructed.
- Projector operation on line voltages above range specified for lamp greatly reduces lamp life and overheats projector.
- Unplug power cord before inserting lamp in socket.
- See Projection Lamp Warranty.

Care of the Projector

The optical system of your projector must be kept clean. Dust or fingerprints will reduce picture brightness.

Lamp Replacement — Disconnect the power cord before replacing a lamp. The 150-watt, 120-volt, ASA Code DNE projection lamp can be obtained from your Kodak dealer. If a lamp should burn out during projection, accelerate cooling of the projector by running it for a few minutes with the lamp turned off. After cooling, turn off the projector. Remove the mechanism cover as described on page 6. Release the LAMP RETAINING SPRING and pull the lamp straight out from its socket.

To install a lamp, insert the lamp prongs into the socket and push the lamp in all the way. Then raise the lamp retaining spring as far as it will go. Replace the mechanism cover.

Caution: Do not turn on the lamp

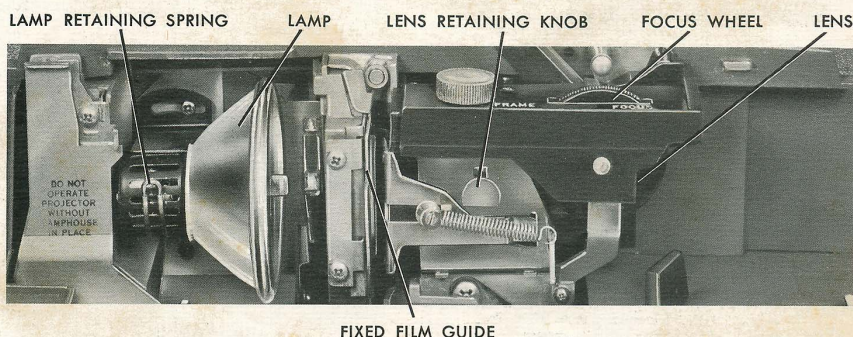
with the mechanism cover removed.

Cleaning—The optical system of your projector must be kept clean. Dust or fingerprints will reduce picture brightness.

Cleaning the Projection Lens—First remove the mechanism cover. Rotate the FOCUS WHEEL until the lens is out as far as possible; then pull outward (away from the projector) on the lens retaining knob, thus releasing the spring pressure on the lens barrel, and at the same time, draw the lens straight out from its housing.

Blow any excess dust and dirt from the lens surfaces.

With KODAK Lens Cleaning Paper or a soft, lintless cloth, gently wipe the front and rear surfaces of the lens. Do not use a wet cloth; if moisture is required, breathe on the lens surface or use a drop of KODAK Lens Cleaner. Replace the lens by pulling the lens retaining knob outward; then insert the smaller end of the lens barrel in the housing, pushing it all the way back and then release the knob. Draw out



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the lens slightly until it "click-stops." Replace the mechanism cover.

Cleaning Pressure Pad and Aperture—Remove the mechanism cover and the projection lens. Draw the SPRING LATCH forward and slightly upward until it latches. Carefully remove the PRESSURE PAD by grasping the TAB and pivoting the pad forward to disengage it from the FIXED FILM GUIDE. Then gently pull it sideways and out. With a soft, damp, lintless cloth, clean the pressure pad. Remove any foreign particles from the aperture or, with the lens removed, by reaching through the lens housing and dusting with a small, soft brush. Replace the pressure pad by reversing the above removal procedure, making sure that the large, rectangular opening in the pad is located over the fixed film guide before the spring latch is released.

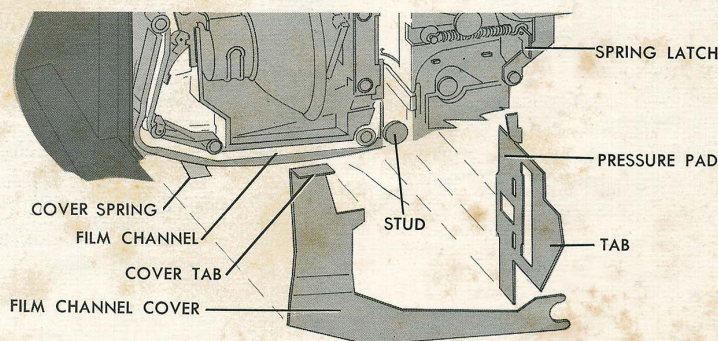
NOTE: Avoid rough handling of the pressure pad.

Cleaning Film Channel—Remove the mechanism cover. Push down slightly on the COVER TAB and pull outward on the FILM CHANNEL COVER. Then lift out the cover. With a small brush clean the FILM CHANNEL. With a soft, clean, lintless cloth clean the surfaces of the cover. Then replace the cover, sliding it in from the rear of the projector until the slotted end of the cover seats on the cover retaining STUD. Hold the bottom edge of the cover against the film channel. Push downward on the cover against the COVER SPRING and latch the cover. Replace the mechanism cover.

If you desire to remove the film during projection, remove the film trimmer, remove the mechanism cover, the pressure pad and the film channel cover; then withdraw the film from the channel. Replace the film channel cover, the pressure pad and the mechanism cover.

Requires No Oiling—All bearings are self-lubricating.

Serial Number — The serial number of your projector is located on the plate above the film trimmer. Make a record of this number and keep it in a safe place in case your projector is lost or stolen.



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