

IDENTIFYING REWIND PROBLEMS

Film can be placed on a reel in only the eight ways illustrated on the left. These eight positions are controlled by the following factors:

A. The square spindle-hole on the film reel. Only the square hole can be slipped on the spindle. This means the film can come off the reel in only two ways. As the reel is placed on the projector, film must come off on the reel side nearest the screen (1, 2, 3, 4) or on the reel side away from the screen (5, 6, 7, 8). It is important to note, that, in all illustrations, the film is pulled from the reel down, toward the floor.

B. Film has only two ends: a start and a finish. Only one end can be found on the outside of the reel. *Start:* 1, 4, 5, 8. *The End:* 2, 3, 6, 7.

C. Sprocket hole and pictures are combined in a constant relationship. Although pictures may be up or down and sprocket holes may be left or right, the combination of elements is consistent. Sprocket holes are left (3, 4, 7, 8) or sprocket holes are right (1, 2, 5, 6). Pictures are "readable" (1, 5, 3, 7) or pictures are "unreadable" (2, 6, 4, 8). Only four combinations can occur (1 and 5, 2 and 6, 3 and 7, 4 and 8).

Thus, three factors (film direction from reel, end of the film facing out, and sprocket-picture position) create the eight combinations illustrated. However, rewind problems are reduced because in one position (#1) the film is ready for projection and in another position (#6) the film is ready for regular rewind. In the six remaining situations, only two tricks are needed. (See illustrations at the bottom of page 14.)

The following specific directions apply to the numbered illustrations on the facing page.

In illustrations one through four, film is being pulled from the reel as if the film were ready for projection. The reel is turning clockwise and film is being pulled from the side nearest the screen.

1. **This film is ready for projection. Remember: During projection, on all projectors, both reels turn in a clockwise direction.**
2. For projection, the wrong end of the film is coming off the reel. Use the *mixed-motion* trick.
 - a. Place this full reel of film on the usual reel arm for film-to-be-rewound.
 - b. Thread the film from full reel to take-up reel so that the full reel turns *clockwise* and the take-up reel turns counterclockwise.
 - c. Use regular rewind procedures of projector.
 - d. The film should now appear as in Illustration 1 and should be ready for regular projection.
3. For projection, the wrong end of the film is coming off the reel and sprocket holes are on the wrong side. Use the *film twist* and the *mixed-motion* tricks.
 - a. Place this full reel of film on the usual reel arm for film-to-be-rewound.
 - b. Thread the film from full reel to take-up reel so that

the full reel turns *clockwise* and the take-up reel turns counterclockwise.

c. In threading film from full reel to take-up reel, *twist* film so sprocket holes will be on right side of the take-up reel.

d. Use regular rewind procedures of projector.

e. Film should now appear as in Illustration 1 and should be ready for regular projection.

4. For projection, sprocket holes are on the wrong side of the reel. Use the *film-twist* and *mixed-motion* tricks.

a. Place this full reel of film on the usual reel arm for film-to-be-rewound.

b. Thread the film from full reel to take-up reel so that the full reel turns *clockwise* and the take-up reel turns counterclockwise.

c. In threading film from full reel to take-up reel, *twist* film so sprocket holes will be on right side of the take-up reel.

d. Use regular rewind procedures of the projector.

e. Film should now appear as in Illustration 2. Follow the complete directions for Illustration 2. (In correcting the position of the sprocket holes, it was necessary to leave the wrong end of film out.)

In Illustrations 5-8, film is being pulled from the reel as if the film were ready for rewind. The reel is turning counterclockwise and film is being pulled from the side farthest from the screen.

5. For rewind, the wrong end of the film is coming off the reel.

a. Rewind the film, using regular procedures for the projector in use.

b. The film should now appear as in Illustration 2. Follow the complete directions for Illustration 2.

6. **This film is ready for regular rewind procedures. Follow the specific procedures of the projector in use. Remember: During rewind, on all projectors, both reels turn counterclockwise. Look for special controls on the projector used.**

7. For rewind, sprocket holes are on the wrong side of the film. Use the *film-twist* trick.

a. Place this full reel of film for regular rewind.

b. In threading film from full reel to take-up reel, *twist* film so sprocket holes will be on right side of take-up reel.

c. Rewind the film, using regular procedures for the projector in use.

d. The film should now appear as in Illustration 1 and be ready for regular projection.

8. For rewind, the wrong end of the film is coming off the reel and the sprocket holes are on the wrong side. Use the *film-twist* trick.

a. Place this full reel of film for regular rewind.

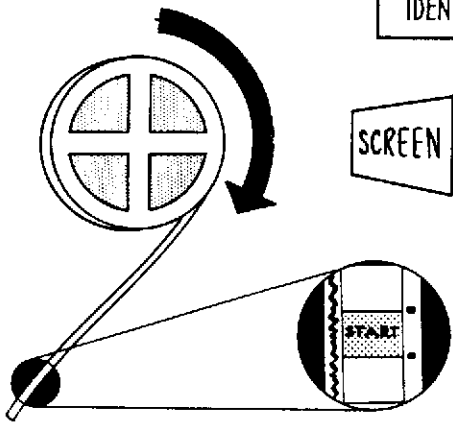
b. In threading film from full reel to take-up reel, *twist* film so sprocket holes will be on right side of take-up reel.

c. Rewind the film, using regular procedures for the projector in use.

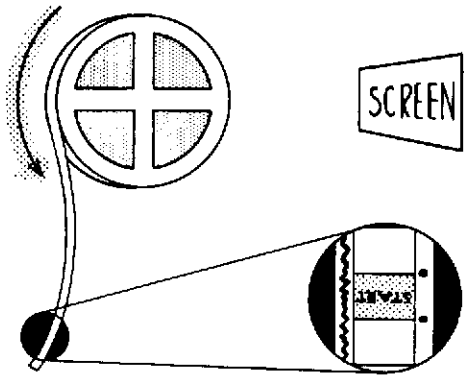
d. Film should now appear as in Illustration 6. Follow the complete directions for Illustration 6.

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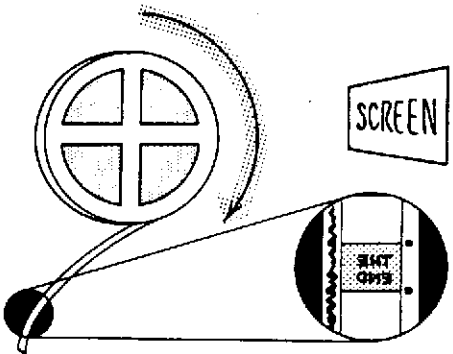
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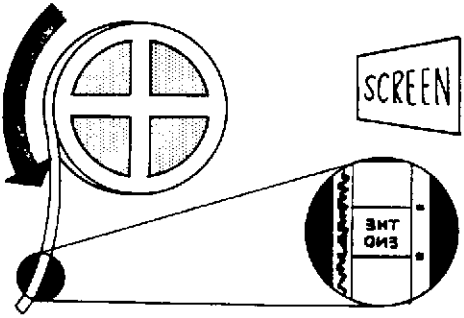
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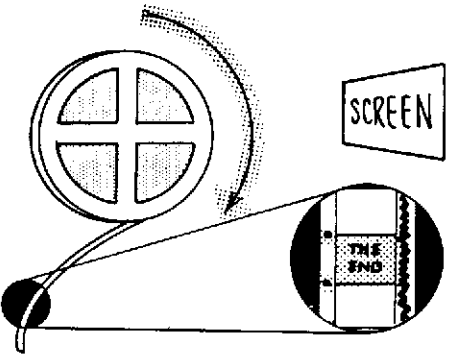
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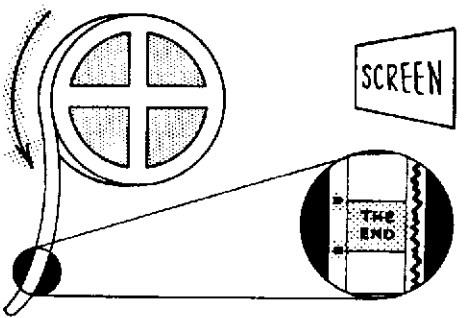
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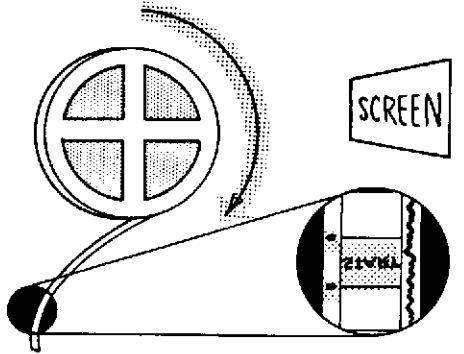
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4



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