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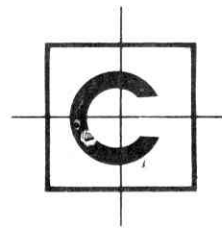
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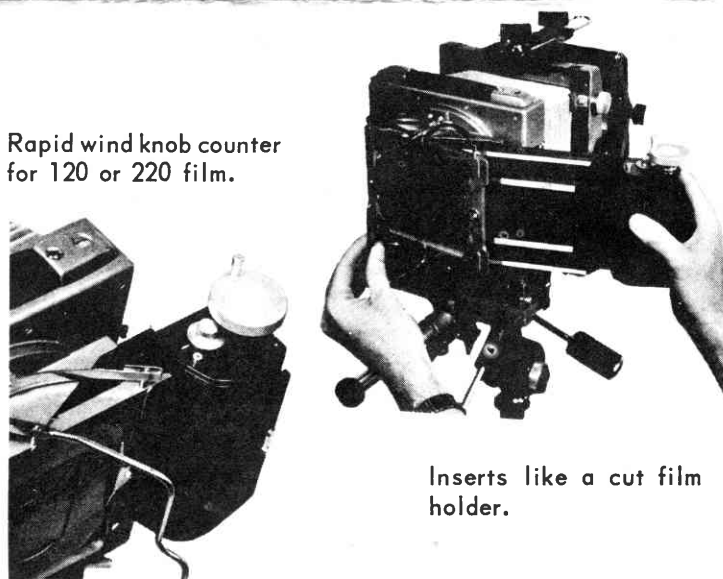
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# INSTRUCTIONS FOR USE OF CALUMET ROLL FILM HOLDER FOR 220 OR 120 ROLL FILM MODEL C-2

## General Description

The Calumet C-2 holder is constructed around the general dimensions of a standard sheet film holder. Therefore it may be inserted into view or press cameras in the manner of a sheet film holder. It also has locking grooves for cameras using the sliding bar type of locking system. The roll holder will fit 4x5" cameras such as the Linhof, the Speed and Crown Graphics – various models, the Calumet view cameras, Kodak Master View cameras, Burke & James spring back cameras, the Busch Pressman, and other cameras accepting standard 4x5" sheet film holders.



Rapid wind knob counter  
for 120 or 220 film.

Inserts like a cut film  
holder.

On certain models of the speed Graphic, the protruding lip on the spring back will touch the film magazine casting on the roll holder. The roll holder may be inserted into these cameras by allowing the spring back to ride up onto the side of the casting. This condition may be corrected by filing off a portion of this lip or using the sliding bar locks provided on this type of camera. When using spring back on Speed Graphics having Ektalite field lenses: Insert C-2 roll holder 1/3 into spring back. Hold spring back with thumb at upper right hand corner pressing against C-2 holder so as to bring spring back parallel to holder. Push holder in. This will prevent scratching of Ektalite field lens from leading edge of holder.

## Specifications and Operating Details

The Calumet roll holder is dimensioned to the specifications for ASA sheet film holders. It will fit any sheet film camera accepting 4x5 sheet film holders. The 2 1/4 x 2 3/4 format is proportional to 4x5 and 8x10" paper. There is no lost image area in enlarging.

**IMPROVED SHARPNESS THROUGH ACCURATE FILM POSITIONING** – Roll film devices and cameras frequently develop extreme curvature of the film and buckling in the aperture area. This is due to the reverse curl coming off the roll which "forms a set" when time periods elapse between exposures.

Since the film arrives in a straight line from the supply spool, the Calumet roll holder produces a minimum of curvature effect. The reverse bend occurs only after the exposure has been made and the film is being returned to the supply spool. Tracking of the film is by the edges. A light line will appear on the margin of the film produced by the tracking rails which restrain the film properly in the plane of focus. This occurs outside of the image area.

**IMPORTANT!** This holder is designed for either standard 120 film or the new 220 long length film. 220 film has a longer paper leader for light protection and is spooled without paper backing. **Loading procedures are not the same as 120 film.** Read instructions carefully before loading 220 film.

## INSTRUCTIONS FOR LOADING 120 FILM – 10 EXPOSURES – 2 1/4 x 2 3/4

- ① Before loading, make certain that the counter is in neutral (free wheeling) position. Counter is in free wheeling position when arrow is located between 20 and S as shown in photograph. Holding down on release button allows counter to be advanced without stopping at each frame.
- ② Open back and remove take-up spool. Place film in lower supply position by engaging end of spool to pivot on spring and applying pressure so as to engage the second or fixed pivot.

**ALWAYS LOAD 120 FILM IN SUBDUED LIGHT**

## INSTRUCTIONS (Continued)

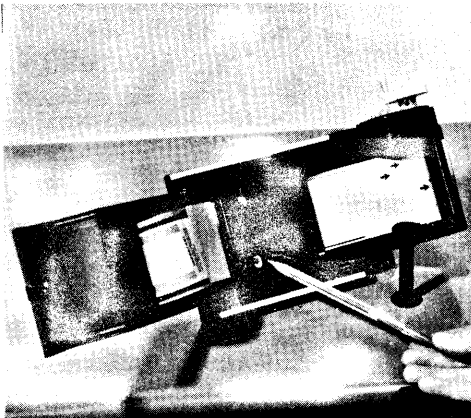
- ③ Insert paper leader, black side down, under movable pressure plate. Insert take-up spool. Pull enough leader until the end of the leader may be engaged in the take-up spool. Turn film advance until starting arrow on back of paper is centered in opening located in pressure plate.
- ④ Close back. Turn counter wheel slightly until it stops at "S" position.
- ⑤ Advance film the first frame by turning winding knob. The counter automatically stops at frame 1. Each additional frame is automatically positioned. Press-

ing the release button momentarily allows advance to next exposure. Do not hold down on release button.

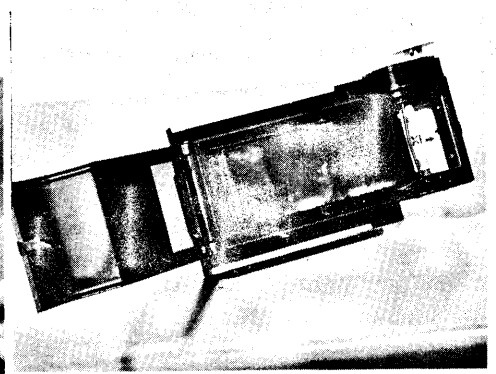
- ⑥ After 10th exposure, hold release button down and wind up paper leader. Film will be properly wound on the spool when frame counter reads 18. Proper adjustment of hold down spring is indicated when hold down spring on take-up spool is lightly touching the paper backing of a fully wound up roll. **IMPORTANT!** Always load 120 film in subdued light conditions. Loading of back in bright sunlight will result in fogging of first frame.



Before loading make certain counter is in neutral position (between 20 and "S").



For 120 film, line up arrow in pressure plate hole. For 220 line up dotted line and follow special instructions for 220.



Engage paper leader in take-up spool open and close hold down bail over take-up.

## LOADING INSTRUCTIONS FOR 220 FILM — 20 EXPOSURES

**IMPORTANT!** 220 film has a longer paper leader and trailer. Follow instructions carefully on loading. There are two procedures allowable. One is a fast loading procedure which may be followed in subdued light. The second is a procedure which may be followed in bright sunlight to allow extra leader protection.

### FAST LOADING PROCEDURE FOR 220 FILM

- a. Follow general instructions for 120 film. Line up starting arrow on paper backing with **leading edge** of pressure plate rather than hole in pressure plate as for 120 film.
- b. Close back. **Do not** engage counter. Turn film winding knob 2 complete turns. (This must be done **before** counter wheel is set to "S". A locating mark is stamped on top of the winding knob). Turn counter wheel to "S" start. Advance film to first frame in normal manner.
- c. On 220 film the counter will automatically go into a neutral position after the 20th exposure. Approximately 15 revolutions of the film advance knob are sufficient to wind up the protective paper trailer. The wind-up of trailer will be indicated by a complete absence of tension on the winding knob plus about five additional turns.

**BRIGHT LIGHT LOADING PROCEDURE:** 220 film may be loaded in bright sunlight without fear of fogging. The procedure is as follows:

- a. Line the dotted line running across the paper backing in the opening of the pressure plate. The dotted line appears approximately 5½" before the normal starting arrow and therefore affords extra protection. Close the back. Turn the film advance knob **five complete revolutions** before energizing the counter. Turn the counter to "S" and advance to first frame.

**GROUND GLASS MASK:** A plastic mask is furnished with each roll holder for the camera ground glass. This may be located under the ground glass retaining clips. You will find a mask for hand cameras are available for the 2¼x2¼ format from the camera manufacturer. These are suitable for use on the Calumet roll holder.

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**PROCESSING EQUIPMENT:** Reels, processing tanks and reel racks for 3½ gallon tanks are available to process 220 film. These are listed in the Calumet camera catalog available on request.