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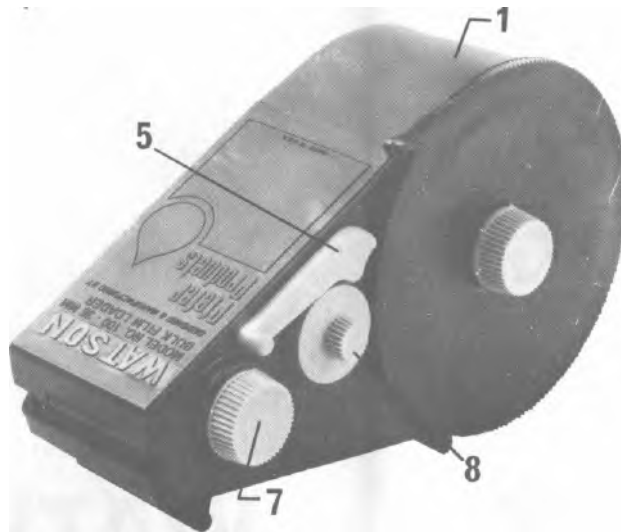
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# INTRODUCTION



## THE WATSON" MODEL 100 BULK FILM LOADER

Capacity of the Bulk Film Loader: 27.5', 55' or 100' lengths of Eastman, Dupont, Ansco, Agfa or similar films. Also, 100' metal spools.

In order to familiarize yourself with the various parts of the Watson Model 100 Bulk Film Loader, it is suggested that you make reference to the following numbers in conjunction with the blown-up photograph prior to attempting to assemble the crank or to load your bulk film.

- (1) Main Case
- (2) Bulk Film Compartment Cover
- (3) Compartment Cover Knob
- (4) Access Door
- (5) Safety Interlock and Cam Lever

- (6) Bulk Film Spindle
- (7) Cassette Closing Activator and Bearing
- (8) Counting Knob
- (9) Sprocket Assembly
- (10) Film Winding Assembly
- (11) Film-Way Light Trap
- (12) Cassette Compartment

Your new Watson Model 100 Bulk Film Loader is made of modern plastics and has a tendency to attract electrostatic dust. One of the best methods to reduce and/or reverse this phenomenon is to wipe the Loader and its parts with a very mild solution of any household detergent. Use a soft lintless cloth which has been saturated with the detergent solution and wrung fairly dry. After cleaning, wipe the Loader and parts with paper towels or any other type of lint-free material. This should be done before each loading of your bulk film.

It is advisable to practice the loading procedure with some old film before actually using new film.

## ASSEMBLY INSTRUCTIONS

Your all new Watson Model 100 Bulk Film Loader comes fully assembled and ready to operate with the exception of the Film Winding Assembly. To install such Assembly, please do the following:

1. Remove the Bulk Film Compartment Cover (2) by unscrewing the Compartment Cover Knob (3).

2. Remove the Bulk Film Compartment Cover (2) by pulling straight out and away from the Main Case (1). In the Compartment Cover is an envelope containing the Film Winding Assembly, which consists of: 1 crank, 1 shaft, 1 knob and 2 screws.

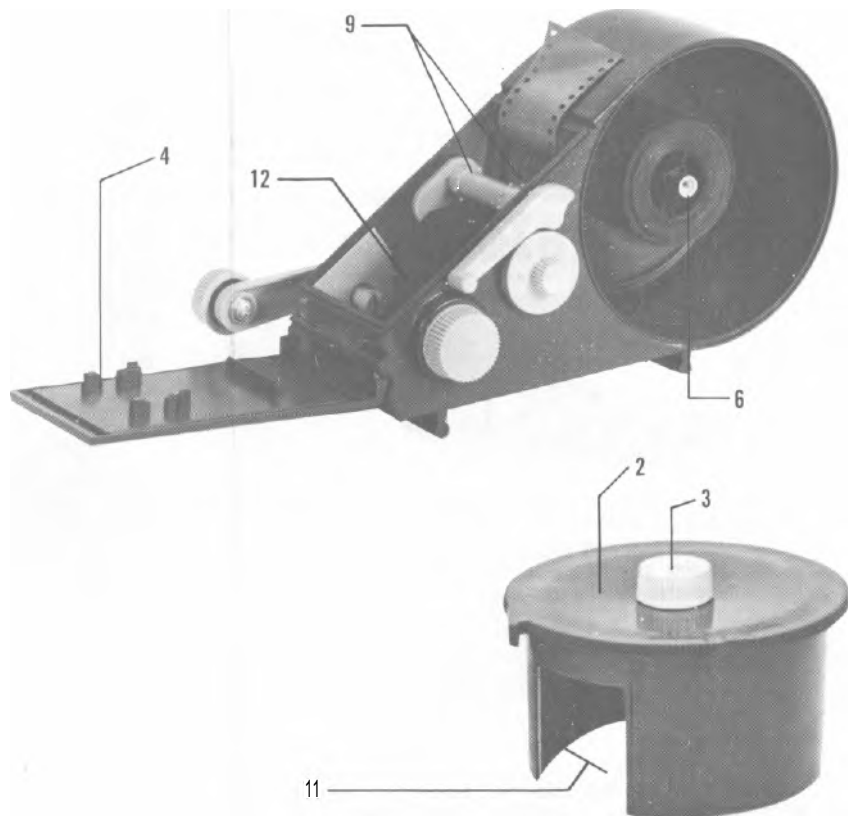
3. Open the hinged Access Door (4) by moving the Safety Interlock and Cam Lever (5) up and to the right (in a clockwise direction) until the Cam Lever stops.

4. Raise the door and swing it back until it stops.

5. Install the shaft of the Film Winding Assembly (10) from the inside of the Cassette Compartment (12).

6. Screw the knob on to the crank using a Phillips-head screwdriver (not supplied).

7. Screw the crank and knob assembly onto the shaft. Your Loader is now ready to be used.



## **SPECIAL NOTE:**

When loading Leica, Nikon, Contax, Pentax and all other special cassettes, loading is similar in all cases, except that these cassettes must be closed mechanically when you have finished loading them. When using the above special cassettes, after you have reached the number of exposures you desire, turn the Cassette Closing Activator and Bearing (7) in a counter-clockwise direction to close and lock the cassette. Special features have been incorporated in the Cassette Compartment (12) of the Watson Model 100 to keep these special cassettes from turning when winding film on to the spools. On those cassettes with felt light traps, be sure that the felt is clean and FREE OF ALL DUST and pointed in the direction so that the film will enter in a straight line.

## **TIPS ON LOADING**

- When leaving film in the Loader, to guard against accidental exposure, always turn the Bulk Film Compartment Cover (2) to the extreme clockwise or closed position.

- As in all photographic procedures, cleanliness is of optimum importance with the Film Loader. Be sure the Loader **is** free from dirt and dust before using it.

- Limit your cassettes to no more than 36 exposures plus the four frames of leader.

- Empty and reusable cassettes can be obtained from your photo dealer. Be sure to ask that the cassettes be returned if you send your film out for processing.

- It is wise to develop your first roll of bulk loaded film soon, in order to insure that you are loading the cassettes correctly.

- Many 35mm cameras require that film leader is cut to fit into take-up spool. This is easily done with a scissors or X-Acto Knife.

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# LOADING INSTRUCTIONS

The following may be done with the LIGHTS ON:

1. Set the Loader on its feet and place it so that the Bulk Film Compartment is facing you and place the Bulk Film Compartment Cover (2) within easy reach on the table or bench where you are working.



2. Move the Safety Interlock and Cam Lever (5) up and to the right (in a clockwise direction) so as to open Access Door (4) and raise door to open position. Return Safety Interlock and Cam Lever (5) to the left and down (counter-clockwise) until it engages the dimple between the Cassette Closing Activator (7) and the Counting Knob (8).

3. Turn off ALL LIGHTS.

The following steps must be done in TOTAL DARKNESS. In addition to your Loader, you will need your bulk film supply.

1. (a) Unwrap your bulk film.
- (b) Hold the film in your right hand so that it unwinds from the top in a counter-clockwise direction (to your left).



- (c) Feed the end of the film through the gate and over the Sprocket Assembly (9).
- (d) CAREFULLY slide the bulk film on to the Bulk Film Spindle (6) while always holding on to the end of the film near or at the Sprocket Assembly (9).

2. (a) Pick up the Bulk Film Compartment Cover (2) and put it in your right hand. With your index finger locate the Film-Way Light Trap (11) in the apron of the Compartment Cover (2).
- (b) With the middle finger of your right hand at the very top of the Cover (2), you will note that the Film Way is pointing at about a 30° angle to the left of vertical. In that position, slide the Bulk Film Compartment Cover (2) into the Main Case (1).
- (c) When it has seated itself, turn it in a clockwise direction (to the right) until you feel a definite snap. The Film-Way Light Trap (11) is now in place and your film is under tension.
- (d) Attach the Bulk Film Compartment Cover (2) to the Case by screwing the Knob (3) in the center of the cover into the Bulk Film Spindle (6). DO NOT JAM TOO TIGHTLY.

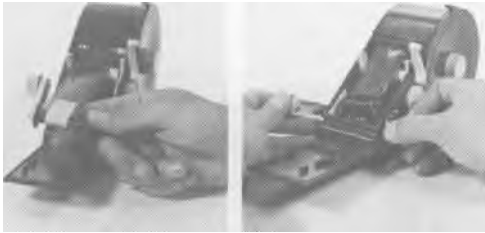


3. Raise the Safety Interlock and Cam Lever (5) up and to the right (in a clockwise direction) until it stops.

You may now TURN ON YOUR LIGHTS and the remainder of your loading may take place in an artificial or daylight atmosphere. CAUTION: Do not use in direct sunlight or intense artificial light.

NOTE:

Universal Shim — This shim must be removed (with a knife or sharp-pointed screwdriver) when loading Leica cassettes. Replace the Shim when loading all other types of cassettes (if you do not use Leica cassettes, do not remove the Shim).



1. Attach the bulk film to the cassette spool so that the keyed end of the spool is pointing toward the Film Winding Assembly (10). Do not open light trap to advance film in order to attach film to cassette. Pull out only enough film for attaching and positioning cassette in Loader. Masking tape may be used to attach the film to the Cassette Spool and care should be taken to insure that the film is lined up properly on the spool in order to prevent the film from buckling when winding.

2. (a) Assemble the cassette.
- (b) Pull out the shaft of the Film Winding Assembly (10) until it stops.
- (c) Pull out the Cassette Closing Activator and Bearing (7).
- (d) Drop the cassette into its Compartment (12) in the nose of the Case.
- (e) Release the Cassette Closing Activator and Bearing Assembly (7) and rotate the Assembly to be sure that the Cassette is held by the Bearing (7).

3. Move the Safety Interlock and Cam Lever (5) in a counter-clockwise direction (to the left) until it again engages the dimple and at the same time close the Access Door (4). Make sure to snap BOTH sides of the Door closed. Push in the Film Winding Assembly (10) and take up any slack of the film by rotating such Assembly in a clockwise direction.

4. Rotate the Compartment Cover (2) all the way counterclockwise (to the left) in the direction noted on Cover stating "gate is open," until you feel a definite snap, guaranteeing that the gate is locked in the open position.



5. Move the Counting Knob (8) to zero. Hold the Loader in your left hand, with your left thumb on the Cassette Closing Activator and Bearing Assembly (7). With your right hand, and in a clockwise direction, wind as many frames into the cassette as you would like, up to 36 PLUS FOUR. The Counting Knob (8) will record the number of exposures you have wound into the cassette. The four additional frames are necessary to take up the loss caused by that film exposed while you were attaching it to the spool of the cassette and for the leader necessary to attach it to your camera. In other words, should you desire 36 exposures, your final count will be 40. For 18 exposures, your final count will be 22.



6. After loading your required amount of frames:
  - (a) Rotate Bulk Film Compartment Cover (2) in a clockwise direction (to the right) until you feel a definite snap.
  - (b) Raise Safety Interlock and Cam Lever (5) up and to the right until it stops.
  - (c) Raise Access Door (4) to the open position.
  - (d) Pull out Film Winding Assembly (10).
  - (e) Hold Cassette Closing Activator and Bearing (7) in the open position.
  - (1) CAREFULLY lift out Cassette and cut film approximately one inch from the Cassette.
  - (g) Your loader is now ready to repeat the Cassette loading procedure.