

Chinon Power Winder

For Chinon CE-3 Memotron and CM-3

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Dear CHINON Customer:

Congratulations You have just purchased the world's most advanced and sophisticated 35mm Power Winder designed exclusively for CHINON compact SLR cameras.

This remarkable accessory, in application, will open up new horizons of creative photography for you. Every aspect of sequential motorized and time-lapse photography is now a reality due to the revolutionary concept of utilizing electronic miniaturization.

This remarkable winder represents the culmination of years of extensive research and development from the world's finest engineers. To derive the utmost performance from your CHINON Power Winder, we recommend that you study this booklet carefully.

We wish you many enjoyable and productive photographic experiences with your CHINON equipment.---



SPECIFICATIONS

Camera

CHINON CE-3 MEMOTRON & CHINON CM-3

Winding Speed

Approx. 0.5 sec.

Shutter Speed Range

CHINON CE-3

Single 4 - 1/1000 sec.

Continuous 1/2 - 1/1000 sec.

CHINON CM-3

Single 1 - 1/1000 sec.

Continuous 1/15 - 1/1000 sec.

C / S DIAL

Power Source - OFF; _

Single Frame - "S"; Continuous Is - "C"

Pre-Set Counter

0, 4, S. 12, 16, 20, & 24 frame

Internal Timer

0, 1,2,4,8. 15, & 30 sec..

Power Source

6V 4 AA (penlight) Alkaline Batteries (by one touch detachable battery container)

Indication Lamp

Red Indicator Lamp Fir "S" and "C"

Number of Film

Minimum 20 cartridges; (36 Expire sure) at Room Temperature

Shutter Release

Activated with Camera Shutter

Release Button

Remote Control

2.5mm Mini-Jack, Remote-Control Accessory Switch is available

Attach to the Camera

Screw-in to the tripled socket in the camera with guide pin channel

Other

A storage socket for Film Winder

Coupler cover of the camera

Action Lamp (Red LED)

Computerized Auto-Stop device when the film is finished

Size

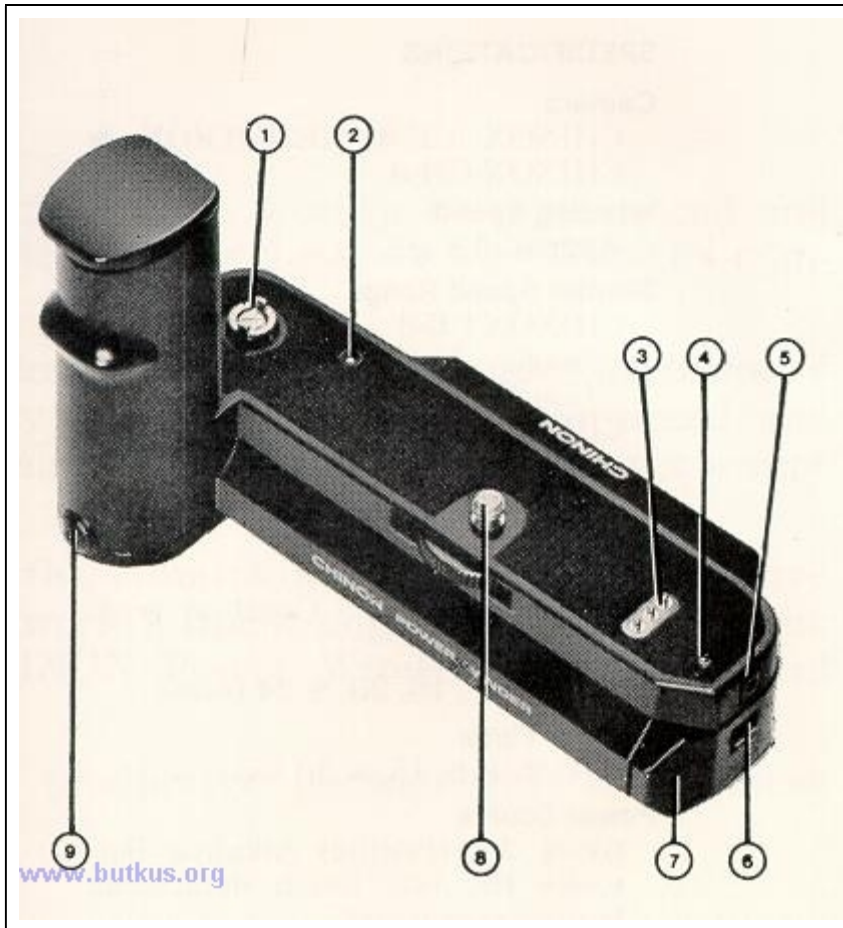
141.0 mm (L) x 81.0 mm (H) x 69.5 mm (W)

5.65" x 3. 19" x 2.74"

Weight

280g. (9.87 oz.)

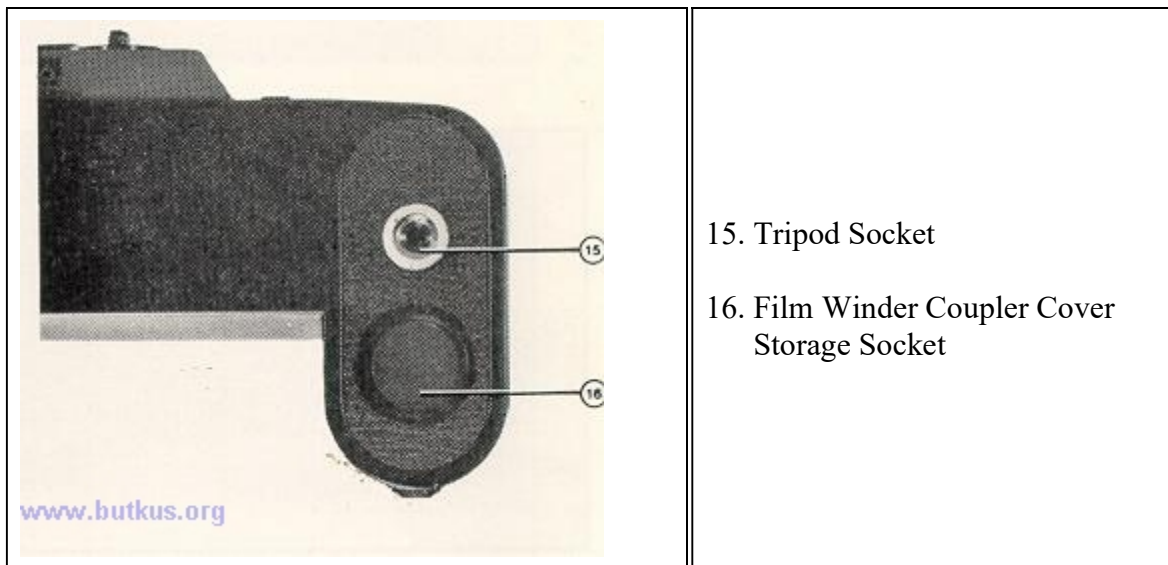
NOMENCLATURE



1. Film Winder Coupler
2. Rewinding Pin
3. Electrical Pin Connectors
4. Guide Pin
5. Remote Control Socket
6. Battery Container Detachable Button
7. Battery Container
8. Attachment Screw



9. Action Lamp
10. C/S Indicator Lamp
11. Interval Timer Dial
12. Pre-Set Counter Dial
13. C/S Dial
14. Rewind Lever



15. Tripod Socket

16. Film Winder Coupler Cover
Storage Socket

INSTALLING THE BATTERIES



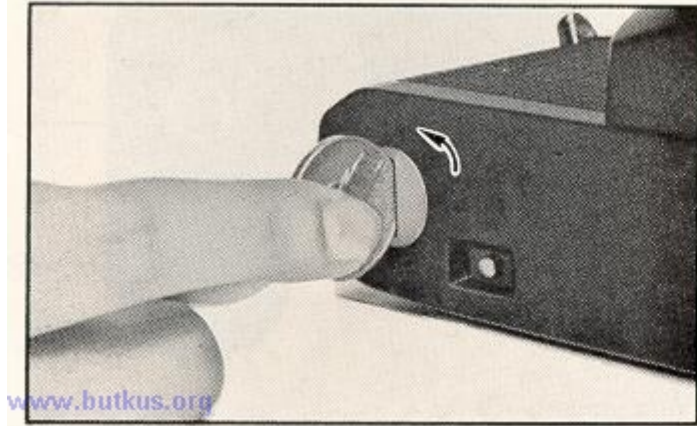
1. Remove the Battery Container (7) from the side of the Power Winder by depressing the battery container detachable button (6) downward toward the arrow indication and sliding the container until it is separated from the winder (Fig. 1).
2. Load the Battery Container with four (4) AA size (Penlight) 1.5 volt Alkaline Batteries. The correct positioning of the positive (+) and negative (-) ends of each battery is shown in the container. When a fresh set of batteries are installed, a minimum of 20 rolls of 36 exposure films can be used at room temperature. Replace with a fresh set of batteries when the motor in the power winder stops running.

If the motor stops during the film transport, it indicates that the batteries have insufficient power to drive the motor. Immediately, replace the batteries with a fresh set.

Install the batteries correctly to avoid malfunction of the Power Winder and to avoid the possibility of the batteries leaking.

NOTE: Always remove the batteries when the power winder is not in use for a long period of time. When replacing batteries all four (4) batteries must be replaced.

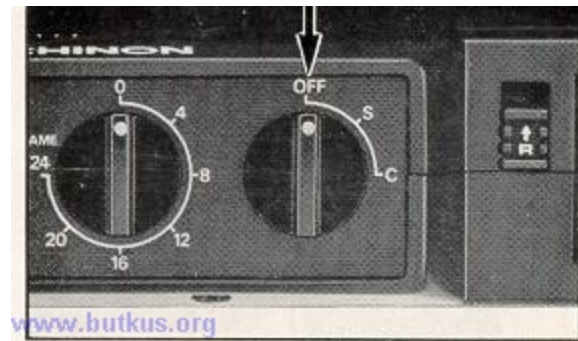
ATTACHING TO THE CAMERA



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1. Remove the film winder coupler cover located on the bottom of the camera by turning it counterclockwise and it should be stored in the storage socket of the Power Winder (16) (Fig. 2, 3).



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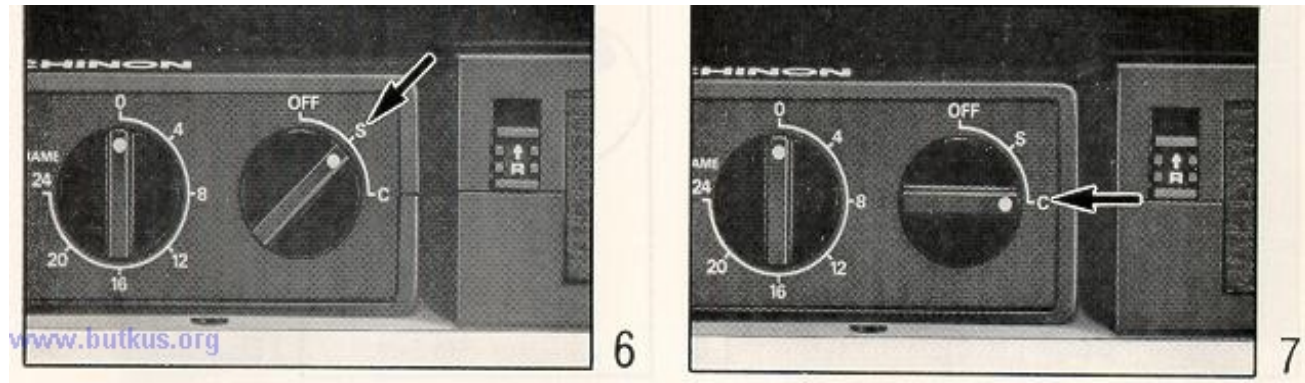
5

2. The C / S Dial should be turned to the off position (Fig. 4).---

3. Insert the guide pin (4) into the pin receptacle located on the bottom of the camera. Align the attachment screw (8) to the tripod socket of the camera and rotate the attachment screw clockwise until the Power Winder is securely fastened to the camera body (Fig. 5).

ADVANCING THE FILM

Normal Use



1. Set the C / S Dial to the "S" (single frame exposure) position (Fig. 6).
2. Each time the shutter release button is depressed single frame shooting will result. The film will automatically be advanced one frame and the shutter will be cocked ready for the next exposure.

Continuous Use

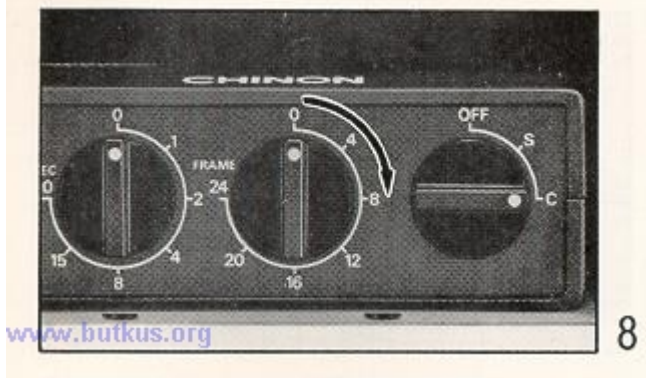
1. Set the C / S Dial to the "C" (continuous) position (Fig. 7).
2. Continuous shooting will result as long as the shutter release button is depressed.
3. The actual frame per second rate will depend on such factors as the interval timer and the pre-set counter. See "Interval Timer" and "Pre-set Counter" for further explanation.

ACTION LAMP

The Chinon Power Winder employs an electronic LED (red) which illuminates when the shutter is tripped and during the instant the film is automatically advanced. This action light confirms that the Power Winder and camera are functioning properly.

PRE-SET COUNTER

Because of the special computerized memory chip built in to the Chinon Power Winder it is now possible to pre-select a predetermined amount of frames that can be shot continuously.



1. Set the C / S Dial to the "C"
2. Set the pre-set counter to the number of desired frames for continuous shooting (Fig. 8).
3. Depress the shutter release button on the camera....

NOTE When the pre-set counter is used, check the remaining film in the camera. If the desired amount of frames are greater than the amount of frames remaining in the film, the counter will automatically stop at the end of the roll.

* While taking pictures in the continuous shooting mode, the film advance will stop automatically regardless of the pre-set counter if your finger is removed from the shutter release button.

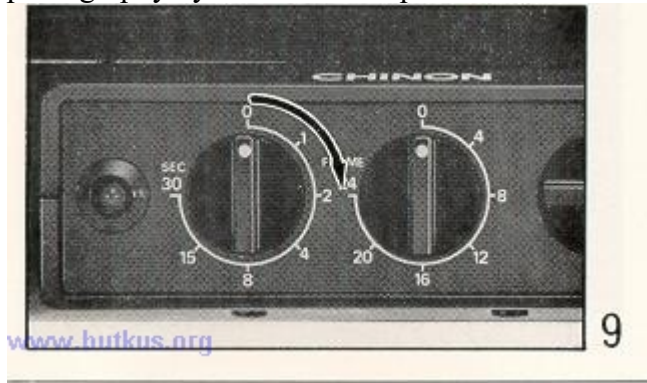
As soon as the shutter release button is depressed again the counter starts from the beginning. For example, should you set the pre-set counter to 8, depress the shutter release button and remove your finger after the 5th frame has been exposed. Then depress the shutter release button again. The counter will automatically start from the beginning and another 8 frames will be exposed.

* When the desired amount of frames are exposed, the Power Winder will stop automatically after advancing the film one additional frame.

* In the case where the Power Winder stops, check both the Frame Counter on the camera and the pre-set counter on the Power Winder. If the pre-set counter or the film in the camera has not reached the end, replace the batteries with a fresh set.

INTERVAL TIMER

As mentioned previously, because of the latest electronic technologies incorporated in the Chinon Power Winder and because of its special computerized memory chip it is now possible to shoot "time-lapse" photography by means of the special built-in interval timer.



1. Set the C / S Dial to the "C" position.
2. Set the interval timer dial (11) to the desired interval position (Fig. 9).
3. Keep the shutter release button depressed on the camera or locked into the continuous shooting position.
4. A desired number of frames can be exposed automatically when used with the pre-set counter and the interval timer.

NOTE: The Interval Timer controls the duration between each exposure automatically.

Neither the pre-set counter nor the interval timer can be used in the

REMOTE CONTROL



Remote control photography can be accomplished with your new Power Winder by means of the special remote control accessory switch available from your CHINON dealer (Fig. 10).

1. Set the C / S Dial (13) to the off position.

2. Set the remote control switch to the off position and plug it into the remote control socket (5) of your Power Winder.
3. Set the C / S Dial (13) to either the "C" or "S" position.
4. Depress the shutter release button on the camera and lock it into the continuous shooting position.

C/S Dial set at the "C" position

The operating manner is the same as previously described in page 12-15.

C / S Dial set at the "S" position

For single frame exposure, the Remote Control switch is set to the on position. A frame will be exposed each time the remote control switch is turned on.

NOTE: When the remote control switch is set to the off position while exposing the desired number of frames, the pre-set counter will also stop.

By turning the remote control switch to the on position again the remaining number of pre-selected frames will be exposed. For example: If the pre-select counter is set for 12 frames and the remote control switch is turned to the off position at the fifth frame, by turning the remote control switch to the on position again, the remaining six frames of film will be exposed. To cancel the pre-set counter operation, turn the C / S

Dial to the off position or disengage the continuous shooting lock on the camera. DO NOT change the number of the pre-set counter while the Power Winder is operating.

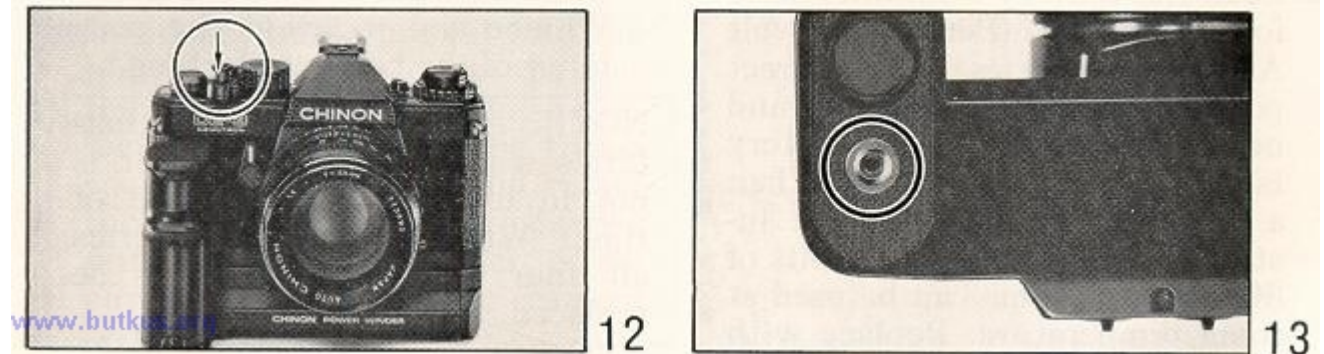
NOTE:

When the C/S Dial is set at the "S" position do not use the Pre-Set Counter or the Interval Timer as these two features only function when the C/S Dial is set at the "C" position.

- * The Power Winder will advance to the next frame and stop, if the continuous shooting button is disengaged.
- * For long exposure (time exposure), the next frame cannot be exposed until the present exposure is completed.
- * A blank exposure is normal on the first frame when the continuous shooting button is locked and the Frame Counter advanced to No. 1.
- * Remove the remote control unit from the socket after the continuous shooting button is unlocked.

REWINDING THE FILM

1. Your Chinon Power Winder has a built-in automatic stop device which is activated at the end of the roll of film. When the automatic stop device is activated the film should be completely exposed. It is recommended to check the frame counter to confirm that the roll of film is completely exposed.



2. Push up the rewind lever (14) as indicated by the arrow mark on the Power Winder and rewind the film by turning the rewind crank in a clockwise direction on the camera (Fig. 11).

3. Process the film without delay.

CONTINUOUS SHOOTING LOCK

When used for continuous shooting with the Pre-set counter, Interval Timer, and Remote Control Unit, the shutter release button can be pressed down and locked for continuous shooting (Fig. 12). When the Remote Control unit is used, make sure that the Remote Control Switch is turned to the off position. After confirming, the continuous shooting button should be locked.

CAUTIONS

1. The camera will run continuously when the shutter release button is depressed, if the batteries in the camera are dead.
2. The batteries will weaken if the Power Winder is not used for a long period of time or at low temperatures. It is recommended to replace the batteries or use the unit at normal room temperatures.
3. When new film is loaded in the camera, advance the film manually for one frame or re-set the C / S Dial.
4. If the Power Winder is not in use, the C / S Dial should be returned to the off position. If the Power Winder is not in use for a long period of time, remove the batteries from the unit.
5. The dials on the power winder should be set with clicked position.

MOUNTING THE POWER WINDER TO A TRIPOD

The Chinon Power Winder is provided with a tripod socket so that it may be secured to a tripod (Fig. 13).