

PENTAX

WINDER

ILX

OPERATING MANUAL



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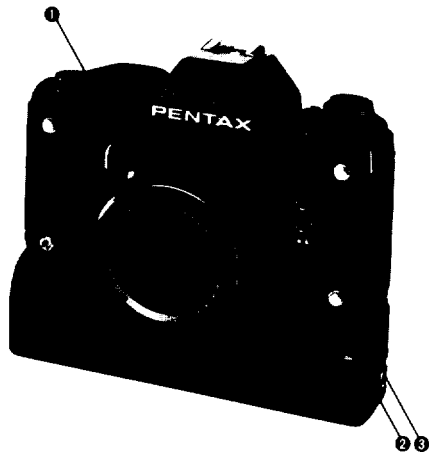
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Welcome to the World of Action Photography!

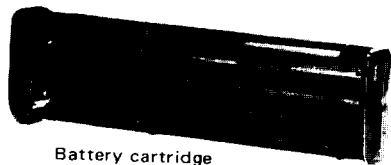
Exclusively designed for use with the Pentax LX camera, the Winder LX is a high precision instrument which affords you the pleasures and convenience of automatic film advance. Compact and lightweight, it attaches quickly and easily to the camera's tripod socket and can be fired with the camera's shutter release button or remotely via the optional Remote Control Cord. Other convenient features include two mode settings permitting the option of single-frame or consecutive film advance up to speeds of two-frames per second in synchronization with the camera's shutter speed. There's also an LED indicator which lights when you reach the end of the roll, and a unique automatic film rewind feature that lets you rewind a full 36-exposure cassette in just seconds.

Be sure to read this manual carefully to familiarize yourself with all the features of the winder and guard against unwanted exposure failures.

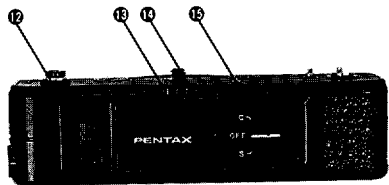
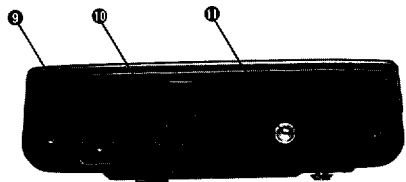
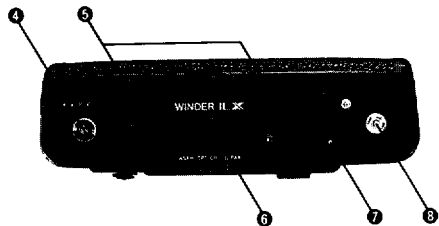
DESCRIPTION OF PARTS



- ① Shutter release button
- ② Battery chamber
- ③ Remote control socket
- ④ Auto rewind claw
- ⑤ Holders for camera coupling caps
- ⑥ Screw
- ⑦ Film rewind release pin
- ⑧ Film transport claw

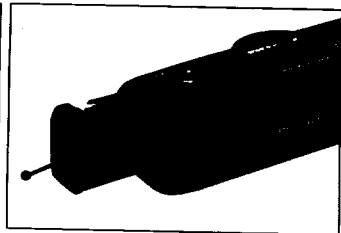
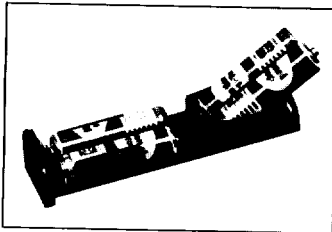
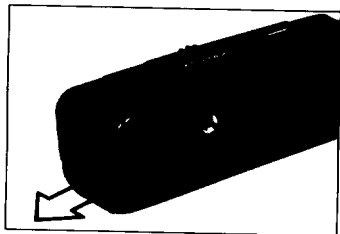


Battery cartridge



- ④ Film rewind release button
- ⑩ Battery cartridge lock release
- ⑪ Tripod socket
- ⑫ Auto rewind lever
- ⑬ Thumbwheel
- ⑭ LED indicator
- ⑮ C/S dial

INSERTING THE BATTERIES



Four 1.5-volt AA-size batteries are required to operate the winder. Alkaline, manganese or rechargeable Nickel Cadmium (Nicad) types may be used

- Press the battery cartridge lock release button (BATT.) at the base of the winder until the cartridge pops out slightly.

- Remove the cartridge from the chamber and insert the four AA-size batteries into the cartridge in accordance with the (+) (-) diagrams on the sides of the cartridge.

- Place the loaded cartridge inside the battery chamber by sliding it all the way inside until it locks in place.

Battery Care

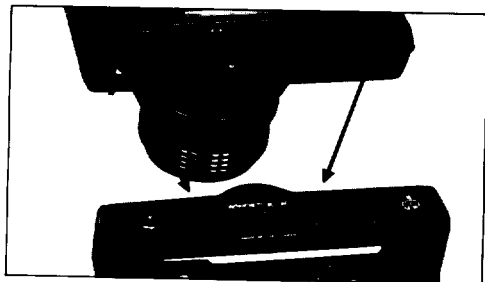
* Battery performance tends to vary in accordance with the brand and type. When doing a lot of shooting with the winder, high performance alkaline batteries are recommended. Rechargeable Nicad batteries are also convenient when used in conjunction with a commercially available battery charger.

* When replacement is required, replace all four batteries at the same time with equivalent 1.5-volt batteries.

* Protect the winder from battery leakage by removing the batteries whenever the winder will not be in use for long periods of time.

IMPORTANT! NEVER THROW USED BATTERIES INTO FIRE OR EXCESSIVE HEAT TO PROTECT AGAINST EXPLOSION: ALWAYS KEEP BATTERIES OUT OF THE REACH OF CHILDREN.

ATTACHING/DETACHING THE WINDER



Attaching the Winder

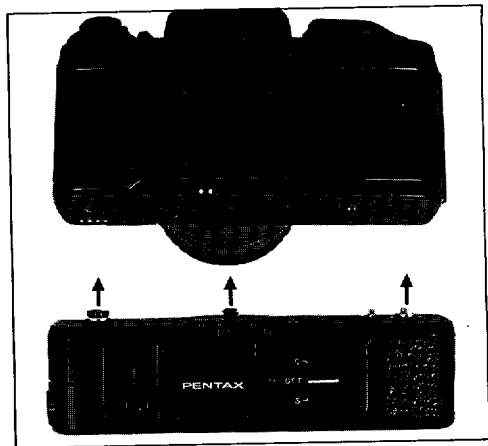
■ Hold the base of the camera away from the light and remove the caps covering the camera film transport and auto rewind couplings. Screw both caps into the cap holders on top of the winder to prevent losing them.

CAUTION: When attaching the winder with film already loaded in the camera, be sure to hold the base of the camera away from sunlight or other bright lighting sources. Until the winder is fully coupled with the camera, there is possibility that bright lighting seeping through the auto rewind coupling could adversely affect your exposures. Likewise, when detaching the winder before the film roll has been completed and rewound, be sure to replace the auto rewind coupling cap on the camera immediately.

■ Set the winder C/S dial to OFF. Attach the winder to the camera by lining up the attachment screw with the tripod socket at the base of the camera. Making sure that all contact points line up properly, secure the winder to the camera by turning the thumbscrew clockwise. Be sure to tighten the screw firmly to ensure proper electrical contact.

To Detach the Winder

Loosen the screw and separate the winder and the camera. Replace the coupling caps over the couplings at the base of the camera immediately. Be sure to replace the auto rewind cap immediately to avoid the danger of ruining future exposures when shooting without the winder.

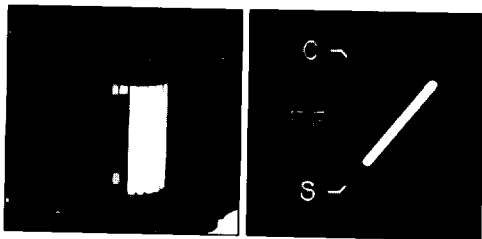


SHOOTING PREPARATIONS

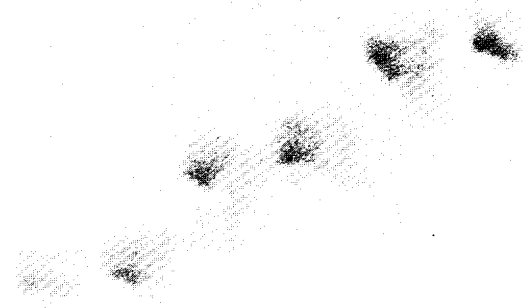
Film Loading/Blank Exposures (With Unloaded Cameras): Set the camera shutter dial to a manual shutter speed and load the film in the usual manner by extending the film leader and inserting it between the magic needles of the take-up spool. At this point, you may continue by making blank exposures in the usual manner (provided the winder C/S dial is set to OFF) or you can make them with the winder as follows:

- Set the winder C/S dial to S, and press the shutter button so that the film wraps around the take-up spool. Then, press the shutter button again until the film perforations engage both sides of the sprocket. Close the back cover and take up slack with the film rewind crank. Press the shutter button successively until the dot representing "1" registers in the exposure counter window. Make your exposures as described in the "Shooting" on the next page.

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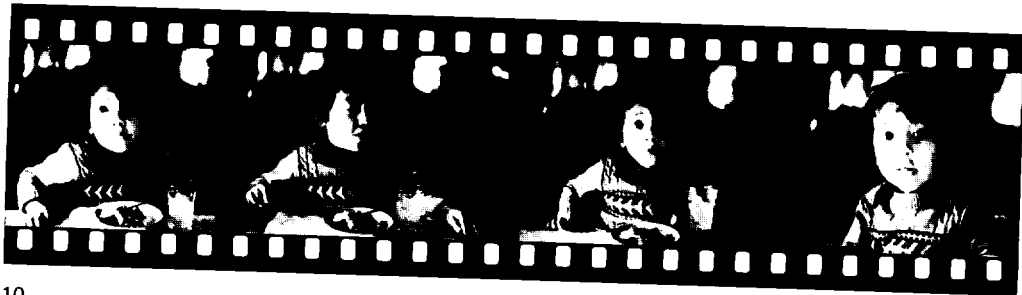


Preparations with Loaded Cameras: If the shutter is uncocked, temporarily set the C/S dial to "S" and press the shutter button once to cock the shutter; proceed to the "Shooting" section beginning on the next page. If the shutter is already cocked (the shutter cocked indicator on top of the camera will be red) proceed directly to the "Shooting" section on the next page.

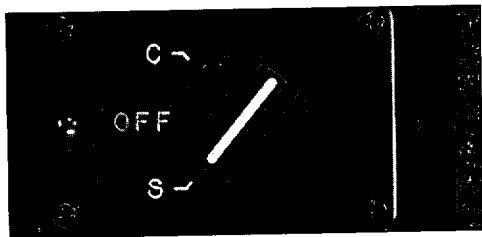


SHOOTING

The Winder LX features two modes of film advance which are controlled by the C/S dial on the back of the winder. The S setting permits single-frame film advance, and the "C" setting, consecutive or sequential film advance. When the dial is set to OFF, the automatic film advance system disengages from the camera.

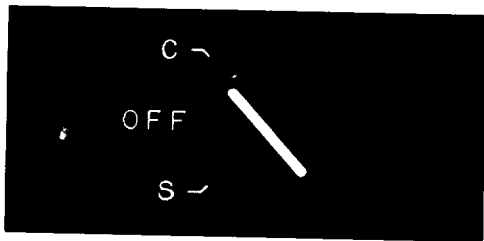


"S" (Single-Frame) Setting: If you wish only to use the winder to advance the film after each individual exposure, set the winder C/S dial to S and press the shutter button: when the exposure is completed, the film advances automatically to the next exposure and prepares the shutter for shooting. Press the shutter button again for each additional exposure. (It is not necessary to hold the shutter button depressed for the duration of the exposure with long exposures.)



NOTE: If the shutter is not cocked when you set the dial to "S" it will be necessary to press the shutter button twice before you can take the picture: once to cock the shutter (the shutter cocked indicator on top of the shutter will turn red) and again to release the shutter.

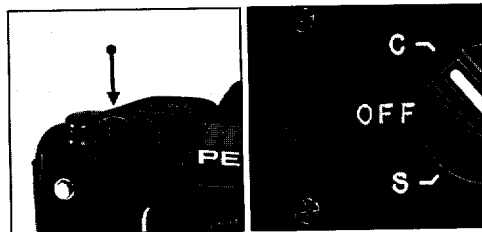
"C" (Consecutive Exposure) Setting: When you wish to use the winder to capture the action in sequence as it happens, set the dial to "C" and release the shutter: the winder advances the film continuously in sequence until you let go of the shutter button or the film runs out. Film advance rate varies in synchronization with shutter operation and battery condition; synchronization is not featured at the "B" shutter speed setting. When shutter speeds in excess of 1/60 sec. are used the top film advance rate of 2 frames-per-second is possible.



NOTE: If the shutter is not cocked when you set the dial to "C", shutter release will be delayed when you press the shutter button until the film advances. To avoid this delay, press the shutter button once quickly and let go before beginning the shooting sequence (the shutter is cocked if the shutter cocked indicator on top of the camera turns red).

Exposure Check: When the winder is attached to the camera the stroke required for shutter release is shortened somewhat. As a precaution against accidental shutter release while checking the exposure with the winder attached, press the shutter button very lightly. (If your fingers aren't steady, temporarily set the C/S dial to OFF before checking the exposure.)

LED Indicator: The LED Indicator on the back of the winder flickers each time the take-up spool turns and again when you release the shutter as a signal that the winder is functioning properly. When you reach the end of the film, it glows continuously to indicate that it's time to rewind the film (see page 16).



IMPORTANT: Although the LED flickers when the take-up spool rotates, it does not confirm that the film is taking up. For this reason, when you make your blank exposures after loading the camera, be sure to check that the film rewind knob is rotating.

SHOOTING PRECAUTIONS

The OFF-Setting

When the C/S dial is set to OFF, the winder is disengaged from the camera, so it's a good idea to keep the dial set to "C" or "S"

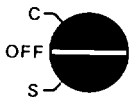
while shooting so as not to miss shooting opportunities. However, when storing the camera and the winder, the dial should be set to OFF.

Also, when not using the winder for long periods of time, set the dial to OFF and remove the battery cartridge to guard against battery leakage.

IMPORTANT: When you reach the end of the film roll and do not intend to rewind the film immediately, promptly set the C/S dial to OFF. Batteries will deplete with the C/S dial set to "C" or "S" while the LED is continuously lit.

Self-Timer

To use the self-timer with the winder attached, set



the C/S dial to OFF beforehand. The self-timer does not function while the automatic film advance system is engaged.

Multiple Exposures

To make multiple exposures with the winder attached, set the C/S dial to OFF before releasing the shutter. Make the exposure in the same manner as you would without the winder attached, but by pressing the winder film rewind release button once for each additional exposure on the same frame. The C/S dial may be set back to C or S before the last multiple exposure for automatic advance to the next frame.

NOTE: Do not use the automatic film rewind system to make multiple exposures on previously exposed frames (see page 19).

Tripod

When required, a tripod may be affixed swiftly to

the tripod socket at the base of the winder. Be sure that the length of the tripod screw does not exceed the depth of the socket: if the screw is too long and tightened tightly it could damage the camera's internal mechanism.

Shooting in Cold Climates

Battery performance tends to deteriorate when temperatures drop to near or below freezing. Although normal functioning will return when the batteries have been subjected to warmer temperatures for sometime, when shooting in cold climates, it's a good idea to have spare sets of batteries on hand wrapped or stored in a pocket etc., to keep warm.

Low Batteries

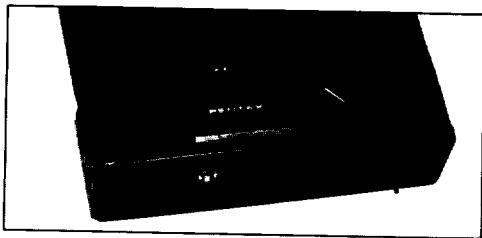
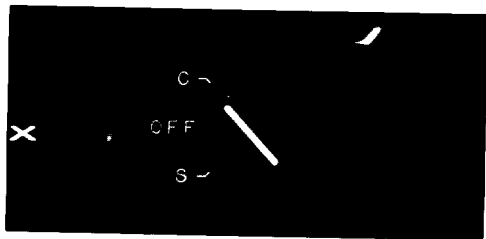
When the film advance rate becomes sluggish, it indicates that batteries are low. When this occurs, change all four batteries promptly to ensure

uninterrupted winder operation. If batteries become too weak to advance the film, the winder will stop in-between frames and the LED indicator will glow continuously. Normal operation will resume when you change the batteries. If this should occur and you are caught without spares, set the C/S dial to OFF and wind the film manually the rest of the way for the frame in use.

Shooting Without Camera Batteries

Should camera battery failure occur while operating the camera in the automatic mode or within the electronically controlled manual shutter speed range (1/60 sec. — 4 sec.), the mirror will lock up as a warning. To continue picture-taking, leave the Winder C/S dial where it is, and turn the shutter speed dial to any of the mechanically operated shutter speeds (1/2000 sec. to "X").

AUTOMATIC FILM REWIND



Winder LX is equipped with a convenient automatic film rewind mechanism that enables you to rewind a complete 36-exposure film roll in just seconds.

- When you reach the end of the film, the winder will cease to operate and the LED indicator on the back will light continuously as a signal that it's time to rewind the film. As a precaution, however, double check by glancing at the exposure counter

to make sure that it has reached the last exposure (this is because the LED also lights continuously when battery voltage is low).

- Keeping the C/S dial set either to S or C, press the film rewind button at the base of the winder and slide the film rewind lever clockwise. The LED indicator will go out and the film will rewind automatically. When the film is rewound inside its

cartridge, the motor will stop and the film rewind lever will disengage. Glance at the exposure counter to make sure that the film is rewound all the way back; then, open the camera back to remove the cartridge.

NOTE: If the film fails to rewind when you slide the film rewind lever clockwise, you may have pressed the battery chamber lock release instead of the film rewind button by mistake. If so, push the battery cartridge back in, press the film rewind button and try again.

Manual Film Rewind: The film also may be rewound manually during emergencies such as battery failure. In this instance, set the C/S dial to OFF and press the film rewind button. Keeping the button depressed, rewind the film with the camera film rewind crank all the way back into the cartridge.

CAUTION: During automatic film rewind, synchronization with the camera's two-way exposure counter is not sufficiently accurate to permit use of the random access multiple exposure feature of the LX as described in the camera instruction manual. If you wish to make random access multiple exposures while the winder is attached, set the C/S dial to OFF, and keeping the film rewind button depressed, rewind the film manually. Make the multiple exposure as described in the camera instruction manual.

REMOTE CONTROL OPERATION (with optional Remote Control Cord)

The winder may be used both for single-frame and consecutive remote control shutter release when it is used in conjunction with the optional Remote Control Cord.

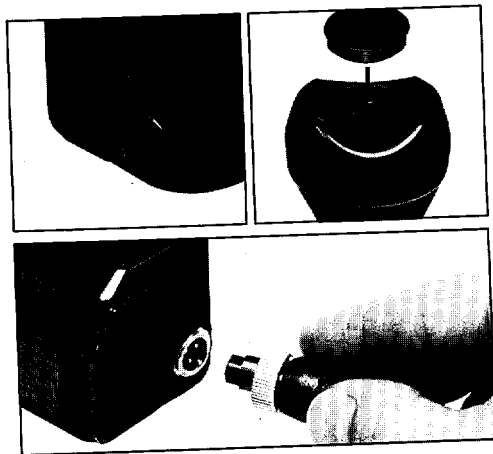


Remote release button

Remote Control Cord

Cord Hook-up:

- Remove the cap over the remote control socket at the side of the winder by grasping it beneath the rim with your fingernail and pulling it off. Place the cap over the remote release button of the Remote Control Cord to prevent loss.
- Connect the plug of the Remote Control Cord to the winder remote control socket by lining the plug up with the guides on the terminal and plugging it in.
- Other instructions for remote control operation are identical to those for operating the winder with the camera shutter release. The remote release button operates in the same manner as the camera shutter release button, except that exposure readings are made with the camera shutter release.
- Replace the cap over the winder remote control terminal when no longer using the Remote Control Cord.



SPECIFICATIONS

| | |
|-------------------------------|---|
| Power Source: | Four 1.5 AA-size batteries (alkaline, manganese or rechargeable Nicad). |
| Film Advance Capacity: | Minimum of 15 rolls of 36-exposure film cartridges with manganese batteries.* |
| Operation Modes: | Single-frame and Consecutive film advance via C/S dial; automatic film advance rate of 2 frames-per-second in synchronization with camera's shutter speed at "C" (synchronizes with all shutter speeds except "B"). |
| Film Rewind: | Automatic via film rewind lever. Rewinds 15 rolls of 36-exposure film cartridges with manganese batteries.* |
| Function Check: | LED indicator flickers on film advance and shutter release; glows continuous at end of film. |
| Shutter Release: | Via camera shutter release button (remote release capability with optional Remote Release Cord). |
| Other Features: | Easy-loading battery cartridge, tripod socket, remote control terminal, cap holders for camera film advance and auto rewind coupling caps. |
| Size: | 146mm (W) x 46mm (D) x 39mm (H) |
| Weight: | 285 g (10 ozs.) without batteries. |

* approx. 2 - 3 times this figure with alkaline batteries, depending upon brand.

SPECIFICATIONS ARE SUBJECT TO CHANGE AT ANY TIME WITHOUT NOTIFICATION OR ANY OBLIGATION ON THE PART OF THE MANUFACTURER.



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