The Canon AE-1 - Automatic Film Advance Canon Winder A

Main features of Canon's Power Winder A:

- Automatic film winder enabling virtually ALL A series models to photograph continuously at a film advance reate of two frames per second (2 fps). (Performance may vary based on battery condition and camera models).
- Compact design; 300g including batteries. Extremely easy to attach to the camera.

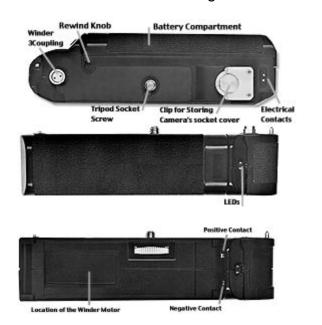


- Activated by the shutter release button on the camera.
- Continuous shooting at the rate of two frames per second.
- LED warning lamp lights up when the film roll is completely wound up.
- Four size AA batteries take twenty rolls of 36-exposure film.
- Spare Battery Pack A (sold separately).

The Canon Power Winder A was originally introduced with the Canon AE-1 camera in 1975 but it also can be used with all the A series models (in fact, New Canon F-1 can also be used without power rewind feature). It is an automatic film winder which greatly increases the automation and mobility of these manual focus cameras. Its exceptional versatility, due to its compact design provided by the principal control circuit built into the electronic circuitry with most of the electronic models such as AE-1, A-1 or AE-1 Program etc, and allows it to be attached to any models mentioned earlier and provides for its use without any special adjustments.

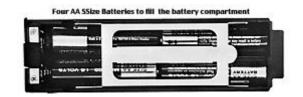
When you attach the Power Winder A to a camera such as the <u>Canon AE-1</u> and press the shutter button, the film will be immediately wound after being exposed. Furthermore, with the Power Winder A you can catch subjects' movements and changing expressions because you are able to take continuous or single frame photography at your pleasure.

However, a drawback as with the Nikon's first <u>motor drive MD-11</u> for similar class competitions like the compact Nikon series such as <u>FM</u> and <u>FE</u> in 1977/1978, operational sequence of the Power Winder A still required you to release the shutter release button before the winder will perform the next film advance (This was fixed on the <u>Power</u> <u>Winder A2</u>) later in the early '80s. But if the speed is not your top priority, the Winder A presents some very attractive reason for you to look at because it should be very cheap as compared to later models. Secondly, if remote photography is desirable, the Winder A2 should be the better choice (or the <u>Motor Drive Set MA</u>), as there are a host of remote accessories designed to work more efficiently.





The LED turns on when the winding time exceeds one second to provide an end-of-film warning. If you turn on the on/off switch and short the two electrical contacts, the Power Winder A should run for one second. The motor should then stop, and the LED should turn on.





A View when the cover was removed, the winder motor is at the right hand side.

Specifications:



Winding Speed: Approximately 0.5 seconds.

Operation: When the shutter button on the AE-1 is pressed, the winder will function. **Shutter Speed Coupling Range:** 1/50 to 1/1000 second for continuous photography. "B", or 2 to 1/1000 second for single frame photography. (When the winder is set at "B", AE photography cannot be performed). Film Counting: Is performed by the frame counter on the AE-1.

Automatic Cut off Circuit: When the film roll is completely wound up or if the batteries should run out, the winder will automatically stop and the warning lamp (LED) will light up.

Power Source: Use 4 size AA batteries. (In normal temperatures they can take more than twenty rolls of 36-exposure film).

Attachment: Take off the winder coupler cover on the bottom of the camera, and mount the power winder using the tripod socket.

Size: 141 x 42 x 34mm (5-9/16" x 1-5/8" x 1-5/16") **Weight**: 3009 (including batteries) (10.9/16 ozs.)

Part II - Operation Manual of the Canon Power Winder A

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| Message Board | For your A-Series SLR camera(s)

Shared Resources: Winder A, Winder A2, Focusing Screens, Motor Drive MA, Databack A, Speedlites & Macro photography.

Canon FD Resources Camera Bodies: A Series: <u>AE-1 | AT-1 | A-1 | AV-1 | AE-1 Program | AL-1</u> T- Series: <u>T50 | T60 | T70 | T80 | T90</u> <u>F-1 | New F-1</u> Canon FL Resources <u>Pellix | FTQL</u> Lenses: FL | <u>FD</u>



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http://www.mir.com.my/rb/photography/companies/canon/fdresources/shared/windera/index.htm

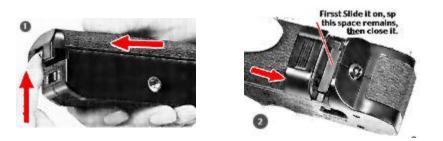
The Canon - Automatic Film Advance Device Canon Winder A - Instruction Manual

Operating the Winder A



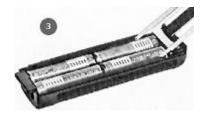
(Credit: Canon Marketing)

1. Removal of the Battery Pack A and Loading of the Batteries



i How to Remove the Battery Pack A

(fig 1 - 2) While pressing the battery pack's removal button on its end, the Battery Pack A should be slid along its runners to be taken off. Attach the Battery Pack A in the reverse order of the instructions above, and as indicated in the accompanying photograph.



i How to Load the Batteries (fig 3) Use four new size AA batteries of the same type. Pull out the tip of the metal holder inside the battery pack and open it. Insert the batteries as directed by the diagram inside the battery pack making certain the batteries are correctly loaded. In general, new batteries will be able to take more than twenty rolls of 36-exposure film continuously under normal temperatures.

2. Affixing the Power Winder A to the Camera

i How to Remove the Winder Coupler Cover (fig 4, 5)

Take off the winder coupler cover by unscrewing the cover with a coin. In order not to lose the cover, put the cover in the winder coupler's cover holder.







i Attaching to the Camera (fig 6) Turn the fastening screw to firmly fasten the power winder to the camera. When you fasten it to the camera, turn the power winder's main switch off. If it takes a while to fasten the power winder to the camera while the main switch is set at ON, there is a possibility that the warning lamp will light up and the winder may not function. If this should happen, after turning the main switch off, turn it on a second time.

* After loading the film into the camera, advance the film a couple of times pressing the shutter button until the first exposure appears in the frame counter.

3. Selecting the Shutter Speed i When you perform continuous photography, the shutter speed must be faster than 1/60 second. i When you perform single frame photography, any shutter speed can be used.

4. When the Main Switch is On (fig 7)





If the power winder is attached to the camera while the film has not been wound, at the time the main switch is turned on, the motor will start functioning and one frame will be wound automatically. If the winder should not function when the main switch is turned on, advance the film with the film advance lever on the camera. **Note**: ALWAYS set the main switch at off when not in use.

5. Check the Exposure and Begin Photography

Photography is effected by pressing the camera's shutter button. If you keep the shutter button pressed down, you will be able to get about two frames per second at its top speed. For single frame photography, press down the shutter button one., then remove your finger from the button. In continuous photography, the meter needle inside the viewfinder swings slightly as it is affected by the mirror, but your film is properly exposed due to instantaneous light metering.

http://www.mir.com.my/rb/photography/companies/canon/fdresources/shared/windera/index1.htm

6. Warning Lamp for Completion of Winding (fig 8)



When you are finished taking pictures and the film roll is completely wound up, the film winding automatically stops and the warning lamp lights up. Then, rewind the film after having turned the main switch off to prevent a waste of power. In this case, **do not** switch on and off repeatedly.

* Note: There is a rare case when the warning lamp will not light up.

7. Interruptions in Winding due to Reduced Power

When the batteries are almost completely consumed and it takes over one second for one frame of the film to be wound, the batteries must be replaced after the main switch has been turned off.

* Turn the main switch on and if the winder should not start functioning with the film and batteries loaded, advance the film with the film advance lever or again attach the Power Winder A to the camera after removing it.

** Check the charge level of the battery in the AE-1 by pressing the battery check button. If the battery in the camera is insufficient, the winder will not function.

8. Rewinding the Film (fig 9)





You can rewind the film even when the power winder is attached to the camera. After pressing the film rewind button on the bottom of the winder, rewind the film with the film rewind crank of the camera.

9. When the Main Switch is Off

When the main switch is turned off, the film can be wound manually with the film advance lever.

ï Handling of the Batteries

Correctly load the batteries following the diagram on the inside of the battery chamber. If incorrectly loaded, the batteries may burst and leak damaging the winder. The batteries must be replaced with four new ones of the same type. If the power winder will not be used for a long period of time, the batteries should be taken out of the battery chamber. **Do not use Ni-Cd** (This has been fixed in the Winder A2) batteries because they cause damage to some kinds of film.

ï Use of the Power Winder A in Cold Climates

In cold climates, the batteries' power is reduced and regular photography cannot be performed. Under these conditions, it is best to carry a spare Battery Pack A (sold separately) that can be held close to your body to keep it warm and can be exchanged with the other battery pack when the batteries' power begins to wane.

In cold climates, it is always recommended that you use alkaline manganese batteries.

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 T- Series: T50 | T60 | T70 | T80 | T90

 F-1 | New F-1

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