

# Canon POWER WINDER A

The Canon Power Winder A is an automatic film winder which greatly increases the rapid shooting capability and mobility of the Canon A-1, AE-1 PROGRAM, AE-1, AT-1 and AV-1. This can be mounted on any of those cameras for motorized photography with no need for adjustments. When you mount the winder on the camera body and press the shutter button, the film will be immediately wound after each exposure. Furthermore, with the Power Winder A you can catch subjects' movements and changing expressions because you are able to take continuous and single frame photography at your pleasure.

## Specifications

**Winding Speed:** Approximately 0.5 seconds.

**Operation:** When the shutter button on the camera is pressed, the winder will function.

**Shutter Speed Coupling Range:** 1/60 to 1/1000 second for continuous photography.

"B", or 2 to 1/1000 second for single frame photography. (However, if set at "B", AE photography cannot be performed).

**Film Counting:** Is performed by the frame counter on the camera.

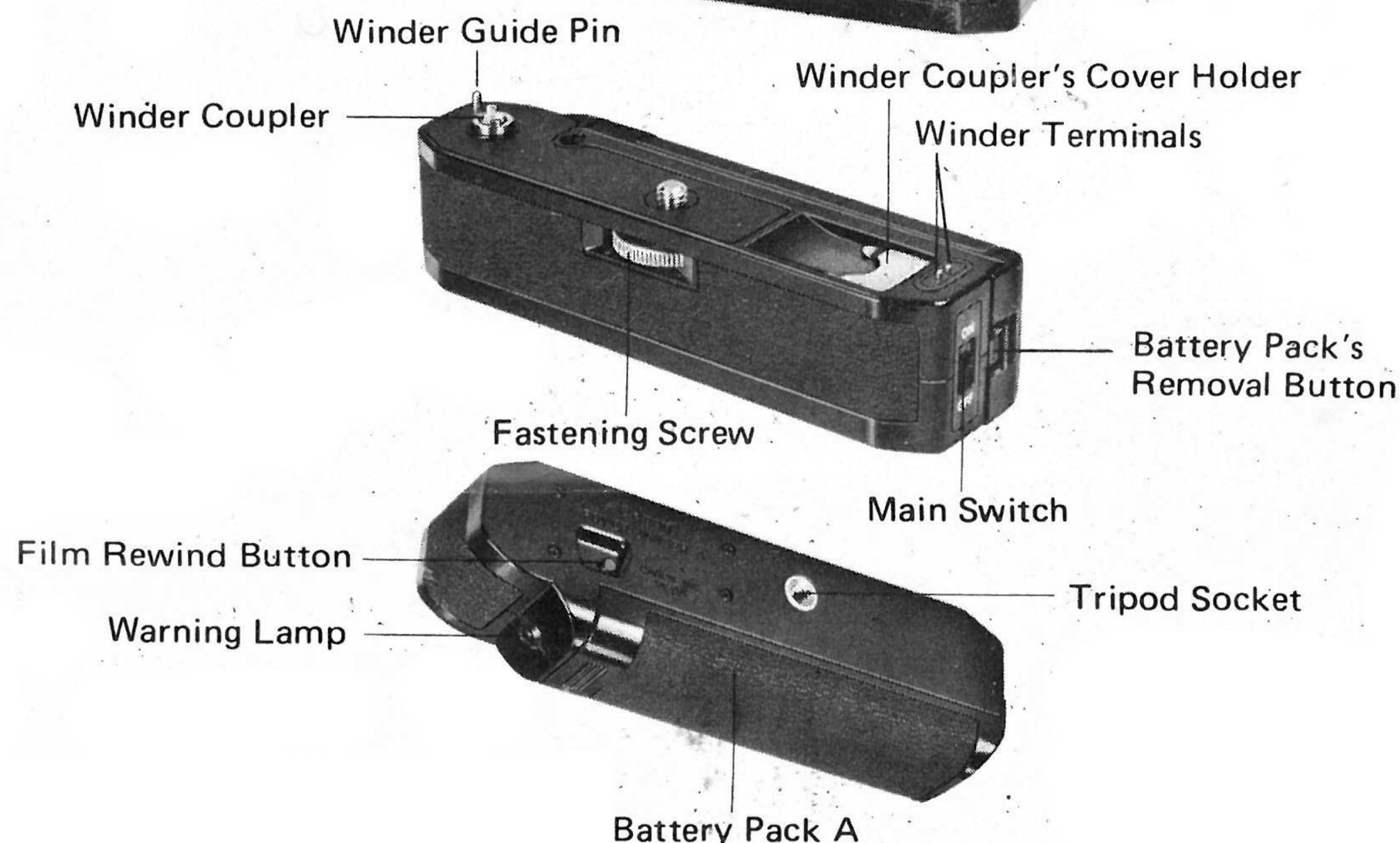
**Automatic Cut off Circuit:** When the film roll is completely wound up or if the battery should run out, the winder will automatically stop and the warning lamp (LED) will light up.

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

**Mounting on Camera:** After taking off the winder coupler cover on the bottom of the camera.

**Size:** 141 x 42 x 34mm (5-9/16" x 1-5/8" x 1-5/16")

**Weight:** 300g (including batteries) (10-9/16 ozs.)



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

• **How to Remove the Battery Pack A** (Photos 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.

• **How to Load the Batteries** (3)  
Use four new size AA batteries of the same type. The poles and contacts should be wiped with a clean, soft cloth before loading to avoid possible corrosion due to dirt or fingerprints. 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.



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 once, 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.

※ When the Power Winder A is used with the Canon A-1, sequential shooting is not possible when in the stopped-down AE mode.

## 6. Warning Lamp for Completion of Winding (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.

※ 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 camera. If the battery in the camera is insufficient, the winder will not function.

## 8. Rewinding the Film (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. The main switch of the Power Winder A must be off to make multiple exposures with the Canon A-1.

## 3. Selecting the Shutter Speed

- When you perform continuous photography, the shutter speed must be faster than 1/30 second. ※
- When you perform single frame photography, any shutter speed can be used. ※

However, even when the power winder is mounted on a tripod using a telephoto lens, its operation may cause slight vibration. To avoid possible blurred images, the minimum shutter speed should be faster than the reciprocal of the focal length of the lens. For a 200mm lens, for instance, use a shutter speed of 1/250 sec. or faster.

※ Please see the AV-1's instruction booklet regarding the usable shutter speed range when the power winder is mounted on that camera.

## 4. When the Main Switch is On (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.

Set the main switch at off when not in use.

## 5. Check the Exposure and Begin Photography

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## • 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 batteries because they cause damage to some kinds of film.

## • 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, we recommend that you use alkaline manganese batteries.