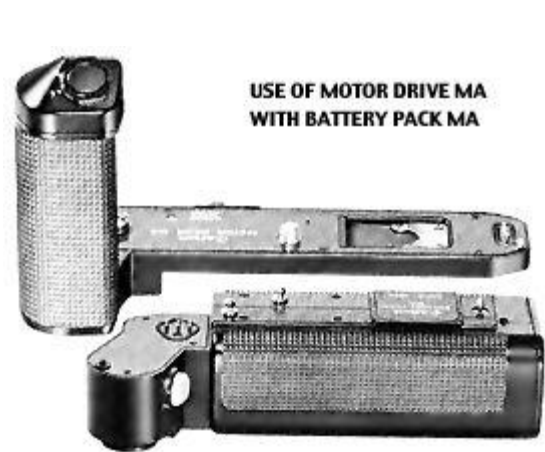


Canon Motor Drive MA Set for A series SLRs  
Instruction Manual - part I

Operational Manual:  (Credit: [Canon Marketing](#))



1) If Battery Pack MA is already attached to the Motor Drive, remove it by sliding the battery pack attachment knob on the Motor Drive to the right while pressing in the battery pack attachment knob lock button. A red dot will appear, and the battery pack can now be pulled out from the bottom.

Loading the Batteries

Before mounting the battery pack onto the motor drive, load the batteries. The poles should be wiped with a clean, soft cloth before loading to avoid corrosion of the contacts.



1. Slide the battery magazine release knob in this direction of the arrow and remove the battery magazine.

2. Following the diagrams on the inside and outside of the battery magazine, load 12 size AA dry cell batteries. Make sure the poles are facing in the correct directions. Incorrect loading may lead to corrosion or explosion.

3. When all batteries are loaded, push the battery magazine back into the Battery Pack MA until it is again in its fully-seated position. It can be inserted in only one direction.

Unlike modern AF cameras, the Motor Drive MA can rely on 12 units of carbon-zinc AA batteries to power both the A-1 and AE-1 Program cameras at their maximum firing rates and can last some 50 rolls of film without even using alkaline batteries.

**Warning:** DO NOT load size AA dry cell Ni-Cd batteries.



**\*Note:** When replacing batteries, replace all at the same time with 12 new (size AA) dry cell batteries, all of the same brand. The batteries should be removed whenever the Battery Pack will not be used for an excessively long time.

Mounting Motor Drive MA onto the A-1/AE-1 Program

1. If the A-1/AE-1 Program's action grip is attached, remove it.
2. Using a coin, unscrew the motor drive coupler cover on the bottom of the camera body. Insert the coupler cover into the holder on the Motor Drive MA to prevent losing it.
3. Position the attachment pins of the Motor Drive over the attachment holes on the bottom of the camera body and tighten the Motor Drive attachment knob.



**\* Note:** Always attach Motor Drive MA to the camera body first and then attach the battery pack.

Mounting Battery Pack MA onto Motor Drive MA

1. Make sure that the battery pack's selector switch is off and that the battery pack attachment knob on the Motor Drive is slid all the way to the right with the red dot showing. If the knob is not already in this position, slide it to the right while pressing in the battery pack attachment knob lock button.





2. Align the battery pack's positioning pins with the positioning holes on the bottom of the Motor Drive. Push the battery pack in and press the battery pack attachment knob lock button to lock the battery pack onto the Motor Drive. Double check to make sure they are properly locked together. \* The terminals and contacts should be wiped prior to attachment.

**Set the Selector Switch**

The selector switch functions as both a main switch and as a film driving speed selector switch. The speeds available are:



**S: single frame shooting;**  
**L (low): 3.5 frames per second.**  
**H (high): 5 frames per second.**

At the "S" position, a single exposure is made when the shutter button is depressed, and the film is automatically advanced when your finger is removed from the shutter button. At the "L" and "H" positions, sequential photography is performed as long as you press the shutter button. To set a speed, pull up on the selector switch and turn it until the desired speed click stops at the index.

All shutter speeds except for "B" can be used at any of the three speed settings. ("B" can be used when the selector switch is set to "S"). However, when the Motor Drive MA is mounted on a tripod, its operation may cause slight vibration. To avoid blurred images' use a minimum shutter speed of at least 1 divided by the focal length of the lens. For a 200mm lens, for instance, use a shutter speed of at least 1/250 sec.

When using a slow shutter speed of perhaps 1/15 sec. or slower when the selector switch is at "H", you will hear a slight sound of motor rotation. Although this will not affect the camera's or motor drive's operation, you may want to lower the speed to "L" if you find the noise bothersome.



When the selector switch is off, the film can be manually advanced as usual. The selector switch should always be off when the Motor Drive MA is not in use. The camera's main switch should also be turned to "L" when finished shooting.

**Warning:**

\* It is **NOT possible** to shoot sequentially with the Motor Drive MA when in the stopped-down AE mode using an FD lens.

\*\* Multiple exposures are **NOT possible** when the Motor Drive MA is mounted and in operation.



**Shutter Release Button(s)**

Two shutter release buttons are provided for maximum ease of handling. When holding the camera in a horizontal position, use the shutter button on the top of the grip. Use the shutter button on the side of the battery pack when holding the camera in a vertical position. Of course, the camera's shutter button can also be used.



The shutter release buttons are provided with lock levers. When the index of the lock lever is aligned with the small red dot, the shutter button cannot be pressed and shutter release is impossible. This is handy to prevent accidental shutter release when carrying the camera.



**Instant High Speed Button**

When the selector switch is at "S" or "L", it is possible to switch to "H" instantly simply by pressing this instant high speed button. This means sequential shooting at the rate of up to five frames per second is instantly accessible for fast-breaking shots. The instant high speed button also has a lock lever which, when turned to the red dot, prevents use of the instant high speed.

**Please note that:** you must hold in the instant high speed button while pressing the shutter button for as long as you want to use this instant high speed. The instant high speed button does not lock.

**Film End and Rewinding**

At the end of a roll of film, the Motor Drive MA automatically stops and the warning lamp lights. Check the frame counter to make sure the film is indeed at its end. Switch off the selector switch to avoid battery waste.



To rewind the film, first push the Motor Drive's film rewind lever upwards while pressing in the film rewind lever lock button. Once you have pushed the rewind lever upwards, you can remove your finger. Now turn the A-1/AE-1 Program's film rewind crank to rewind the film.



**Warning:** \* The warning lamp may light up before the end of a film to indicate battery exhaustion when motorized film driving takes longer than the specified time. If this happens, switch off the selector switch and replace the batteries.  
\*\* Playing with the selector switch before rewinding may cause the film to be torn off.

Remote Control



Sequential shooting by the Wireless Controller LC-1 or remote control is possible by using the Motor Drive MA/Battery Pack MA with the Remote Switch or a similar product. Insert the remote control device into the remote control jack on the back of Battery Pack MA while the selector switch is off. If the selector switch is not off, the shutter may be released wasting one film frame.

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- | [Back](#) | - Index Page of the Canon Motor Drive MA Set
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**Shared Resources:**  
[Winder A](#), [Winder A2](#), Focusing [Screens](#), [Motor Drive MA](#), [Databack A](#), [Speedlites](#) & [Macro](#) photography.

**Canon FD Resources**  
Camera Bodies:  
A Series: [AE-1](#) | [AT-1](#) | [A-1](#) | [AV-1](#) | [AE-1 Program](#) | [AL-1](#)  
T- Series: [T50](#) | [T60](#) | [T70](#) | [T80](#) | [T90](#)  
[F-1](#) | [New F-1](#)  
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Canon Motor Drive MA Set for A series SLRs  
Instruction Manual - part II

Operational Manual:  (Credit: [Canon Marketing](#))

2) USE OF MOTOR DRIVE MA WITH Ni-Cd PACK MA

The power supply of the Ni-Cd Pack MA is built-in. There is no need to load batteries. To mount Motor Drive MA on to the A-1:



1. If the A-1's action grip is attached, remove it.
2. Using a coin, unscrew the motor drive coupler cover on the bottom of the camera body. Insert the coupler cover into the holder on the Motor Drive MA to prevent losing it.
3. Position the attachment pins of the Motor Drive over the attachment holes on the bottom of the camera body and tighten the Motor Drive attachment knob.

\* Always attach Motor Drive MA to the camera body first and then attach the Ni-Cd pack.

Mounting Ni-Cd Pack MA onto Motor Drive MA



1. Make sure that the battery Pack's selector switch is off and that the Ni-Cd pack attachment knob on the Motor Drive is slid all the way to the right with the red dot showing. If the knob is not already in this position, slide it to the right while pressing in the battery pack attachment knob lock button.
2. Align the Ni-Cd Pack's positioning pins with the positioning holes on the bottom of the Motor Drive. Push the Ni-Cd Pack in and press the battery pack attachment knob lock button to lock the Ni-Cd Pack onto the Motor Drive. Double check to make sure they are properly locked together.

\* The terminals and contacts should be wiped prior to attachment.

Set the Selector Switch

The selector switch functions as both a main switch and as a film driving speed selector switch. The speeds available are:



- S:** single frame shooting.
- L (low):** 3 frames per second.
- H (high):** 4 frames per second.

At the "**S**" position, a single exposure is made when the shutter button is depressed, and the film is automatically advanced when your finger is removed from the shutter button.

At the "**L**" and "**H**" positions, sequential photography is performed as long as you press the shutter button. To set a speed, pull up on the selector switch and turn it until the desired speed click stops at the index.

All shutter speeds except for "**B**" can be used at any of the three speed settings. ("**B**" can be used when the selector switch is set to "**S**"). However, when the Motor Drive MA is mounted on a tripod, its operation may cause slight vibration. To avoid blurred images, use a minimum shutter speed of at least 1 divided by the focal length of the lens. For a 200mm lens, for instance, use a shutter speed of at least 1/250 sec.

When using a slow shutter speed of perhaps 1/15 sec. or slower when the selector switch is at "**H**", you will hear a slight sound of motor rotation. Although this will not affect the camera's or motor drive's operation, you may want to lower the speed to "**L**" if you find the noise bothersome.

When the selector switch is off, the film can be manually advanced as usual. The selector switch should always be off when the Motor Drive MA is not in use. The camera's main switch should also be turned to "**L**" when finished shooting.

**Warning:** \* It is **not possible** to shoot sequentially with the Motor Drive MA when in the stopped-down AE mode using an FD lens.

\*\* Multiple exposures are **not possible** when the Motor Drive MA is mounted and in operation.

Shutter Release



Two shutter release buttons are provided for maximum ease of handling. When holding the camera in a horizontal position, use the shutter button on the top of the grip. Use the shutter button on the side of the Ni-Cd Pack when holding the camera in a vertical position. Of course, the camera's shutter button can also be used.



The shutter release buttons are provided with lock levers. When the index of the lock lever is aligned with the small red dot, the shutter button cannot be pressed and shutter release is impossible. This is handy to prevent accidental shutter release when carrying the camera.

Film End and Rewinding

At the end of a roll of film, the Motor Drive MA automatically stops and the warning lamp lights. Check the frame counter to make sure the film is indeed at its end (see first note below). Switch off the selector switch to avoid battery waste.



To rewind the film, first push the Motor Drive's film rewind lever upwards while pressing in the film rewind lever lock button. Once you have pushed the rewind lever upwards, you can remove your finger. Now turn the A-1's film rewind crank to rewind the film.

- \*The warning lamp may light up before the end of a film to indicate battery exhaustion when motorized film driving takes longer than the specified time. If this happens, the Ni-Cd Pack MA should be recharged.
- \*\* Playing with the selector switch before rewinding may cause the film to be torn off.

Remote Control



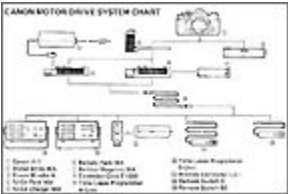
Sequential shooting by the Wireless Controller LC-1 or remote control is possible by using the Motor Drive MA/Ni-Cd Pack MA with the Remote Switch or a similar product. Insert the remote control device into the remote control jack on the back of Ni-Cd Pack MA while the selector switch is off. If the selector switch is not off, the shutter may be released, wasting one film frame.

Recharging the Ni-Cd Pack MA



To recharge Ni-Cd Pack MA, use the Canon Ni-Cd Charger MA, specified for this purpose.

Refer to the individual instructions for the Ni-Cd Charger MA for details on recharging and storage of the Ni-Cd Pack MA.



System Map for Motor Drive MA  
(Only available in [PDF format](#) (59K))



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