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Canon E Canodate E

INSTRUCTIONS
English Edition



Specifications

Type: 35mm electronic shutter type camera with programmed Electric Eye.

Picture Size: 24 x 36mm

Lens: Canon Lens 40mm f/2.8. 3-component, 4-element construction. Spectra Coating.

EE Mechanism: Programmed Electric Eye with CdS photocell, operated with electronic shutter. ASA 25-400 (DIN 15-27). With ASA 100 film, EV1 (f/2.8 at 4 sec.)—EV17 (f/13.5 at 1/800 sec.). Powered by two 1.4V M 30 (#640) mercury batteries, i.e.; RM-640H (Mallory), E640N (Eveready), and Hg-640E (Burgess). The batteries are also used for date imprinting mechanism.

Shutter: Programmed electronic shutter from 1/800 to 4 sec.

Viewfinder: Viewfinder combined with rangefinder. Bright frame. Contains date imprinting indicator, battery checker/slow speed warning lamp (amber), flash ready lamp (yellow), and parallax correction marks.

Focusing: Front lens revolving type, coupled to rangefinder.

Date Imprinting Mechanism: Superimposing system by exterior dial setting. ON-OFF switch. Dial lock

indicator setting: Indicator contents: last two digits for year number, Arabic numerals or Roman numerals for month, and A-E letters and Arabic numerals for day.

Flash Contact: X contact. Accessory shoe with directly connected flash contact and signal contact for Canolite D.

Automatic Flash Mechanism: Automatic diaphragm mechanism coupled to shooting distance. In case of Canolite D, automatic flash mechanism functions when set on "A". With ordinary flash unit, set guide number for automatic flash operation. With Canolite D flash unit mounted, automatic flash operation is automatically set when brightness is EV8 or under; EE mechanism takes over and flash does not function when brightness is EV8 or over. Guide number scale: 56, 40, 28, 20, 14, 10.

Exposure Factor Correction: Automatic.

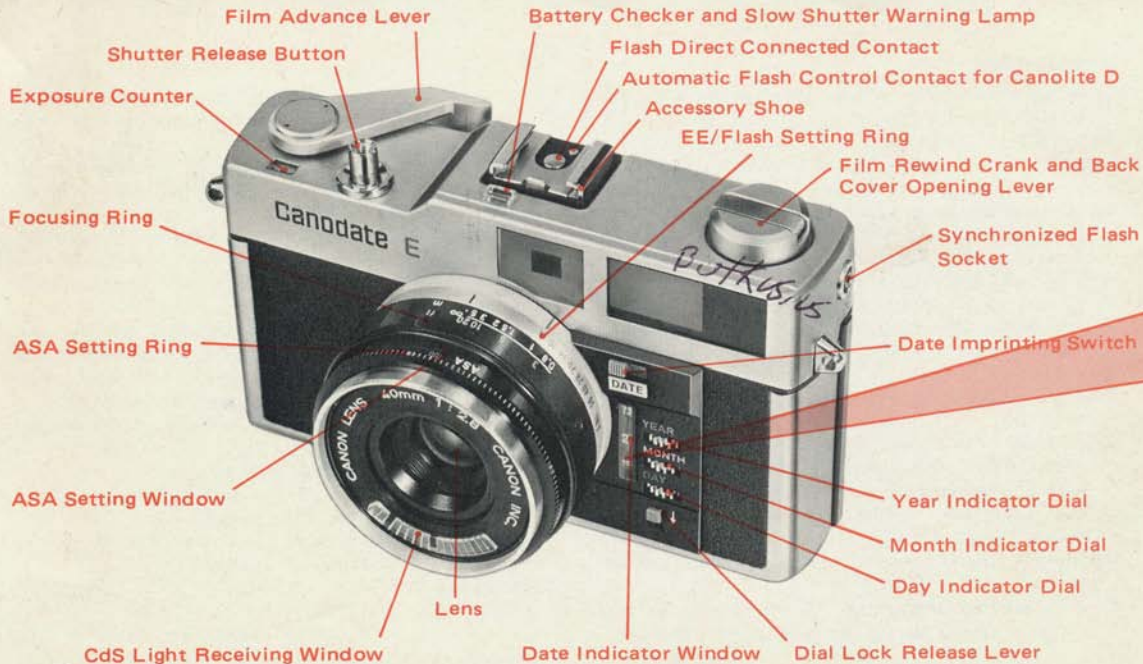
Film Advance Lever: Single-stroke 130°, possible to wind with several short strokes.

Film Loading: By opening back cover with film rewind crank. Easy loading with multi-slit.

Size: 133 x 76 x 59mm (5-1/4" x 2-15/16" x 2-3/16")

Weight: 580 grams (1 lb. 4-7/16 oz.)

Subject to alterations.



| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----|----|----|----|----|-----|----|----|----|------|-----|----|----|----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|
| 31 | 30 | 29 | 28 | 27 | 26 | 25 | 24 | 23 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
| E | D | C | B | A | XII | XI | X | IX | VIII | VII | VI | V | IV | III | II | I | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 | |
| 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 | 89 | 88 | 87 | 86 | 85 | 84 | 83 | 82 | 81 | 80 | 79 | 78 | 77 | 76 | 75 | 74 | 73 | 72 | 71 | 70 | |

74
3
10



Refer to page 24.

■ In the indicator section, the figures for year, month and day are lined up in that order from top to bottom. When imprinting, these figures are printed in a reverse order on the lower right-hand corner of the picture as illustrated.

Viewfinder Eyepiece

Back Cover

Tripod Socket

Film Rewind Button

Flash Coupled Distance Indicator Mark



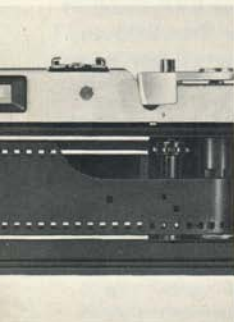
Canodate E has a programmed Electric Eye incorporating an electronic shutter. The programmed Electric Eye, the preselected combinations of shutter speeds and f/stops, assures proper exposures, at all times, according to the light volume of the subject. For a bright condition, a combination of smaller f/stop and faster shutter speed is used, while for a dark condition, a combination of large f/stop and slower shutter speed is used. Thus, Canodate E has no aperture and shutter speed dial. All you have to do is to focus the camera, decide the composition of the picture and depress the shutter release button.

The programmed Electric Eye of Canodate E is designed so that, with EV8 (f/2.8 at 1/30 sec.) as the dividing line, the combinations of f/stop and shutter speeds change consecutively in proportion to the brightness as low light volume as EV8 (f/2.8 at 1/30 sec). When the subject is darker than EV8, the f/stop remains at f/2.8 and only the shutter speed changes to slower speeds.

And equipped with newly developed date imprinting mechanism, Canodate E records your everyday life more vivid especially at wedding, ceremonies, parties, travels, and family events.

Simple Steps for Electric Eye and Flash Photography

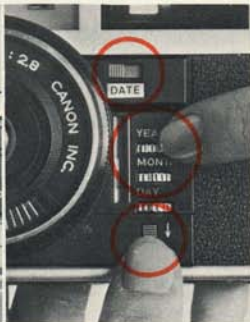
1



2



3



4

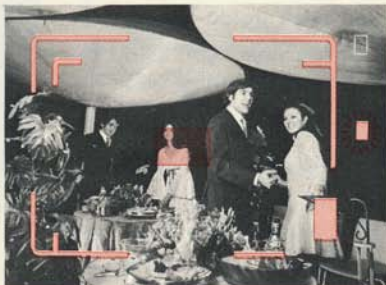
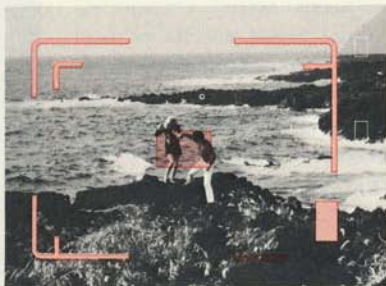


5



1. Load the film.
2. Turn the index mark to the "A" mark and set the ASA film speed used at the window.
3. Set the date with date indicator dial.
4. Wind the film advance lever.
5. Remove the lens cap.

b



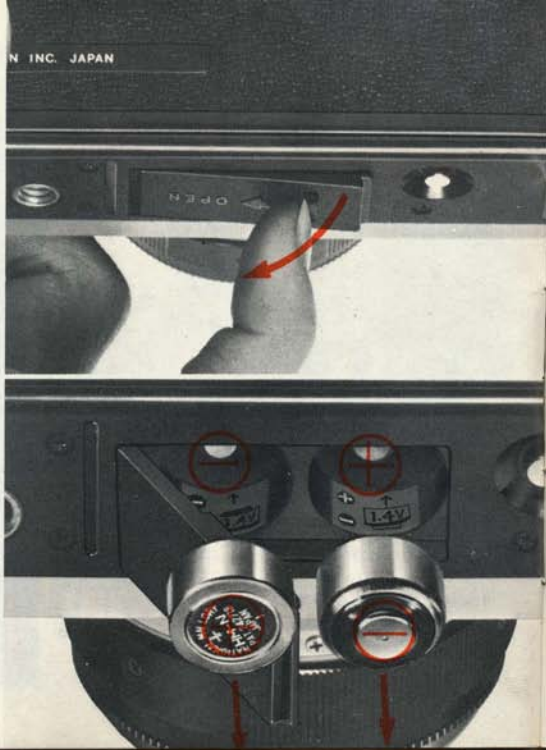
6. Looking through the viewfinder, focus, compose the picture and depress the shutter button gently.

Mercury Batteries

Two M30 (#640) type mercury batteries are used. These batteries supply the power from the electronic shutter and the date imprinting mechanism, and have a service life of approximately one year. Always replace two batteries simultaneously with the same brand.

Loading of Mercury Batteries

Insert your fingernail in the notch of the battery chamber cover and open downwards while pushing in the direction of the arrow. Load the batteries according to the (+) and (-) marks indicated inside the battery chamber. When closing the cover, replace it while pushing it with your fingernail in the direction of the arrow.



Checking Batteries

Depress the shutter release button slightly approximately 1mm. If the amber lamp, located on the top cover and can be also seen inside the viewfinder lights up, the batteries have sufficient power level.

Accurate exposures cannot be obtained if the power level of the mercury batteries is low. Check the batteries even during shooting to prevent inaccurate exposures.

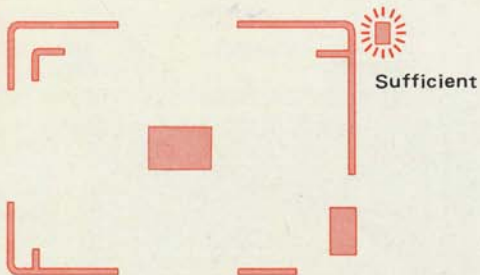
In the following cases, the shutter button becomes locked and will not operate.

Therefore, check the mercury batteries.

- 1 When the mercury batteries are not loaded.
- 2 When the mercury batteries becomes rusted and cause faulty contacts.
- 3 When the mercury batteries have been completely used up.
 - If the camera will not be used for an extended length of time, the batteries should be taken out of the battery compartment to prevent possible damage to the terminals from battery corrosion.



Amber Lamp

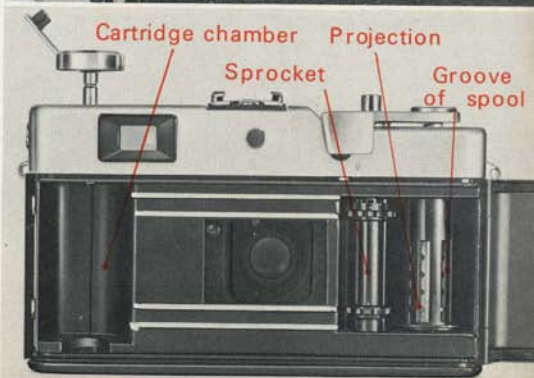
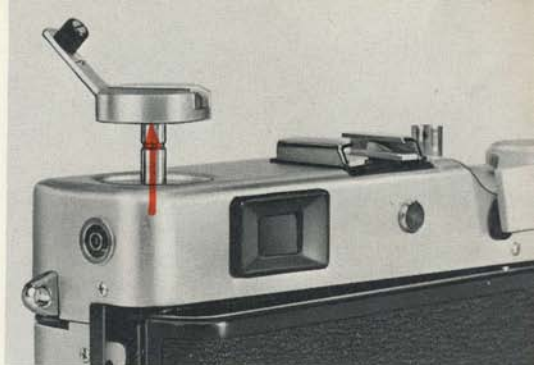


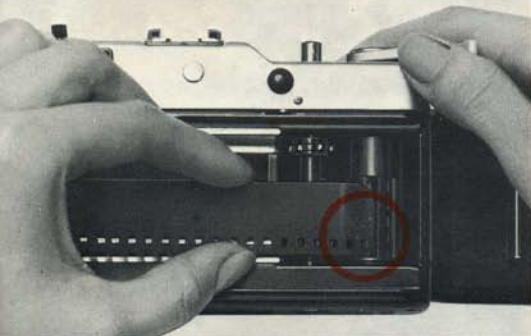
Loading and Rewinding Film

35mm film of 20 or 36 exposures in cartridge are used. After the entire film has been exposed, be sure to open the back cover after rewinding the naked film back into its cartridge. If the back cover should be opened during photography, all the film photographed up to that time will be exposed to light and become useless.

Loading Film

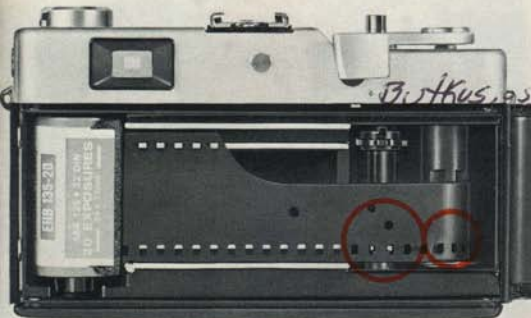
1 Pull the rewind knob upwards fully to release the back cover lock.





2 With the rewind knob in a pulled up condition, insert the film cartridge into the film chamber in reverse.

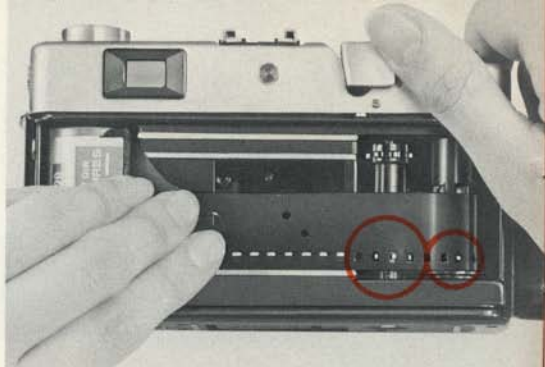
3 Insert the tip of the film leader into the slit of the take-up spool. Insert the film tip to approximately the center of the inner shaft.

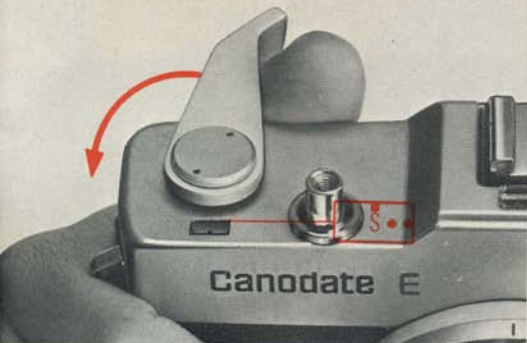


4 Wind the film advance lever, while making sure that a film perforation is engaged with the protrusion near the slit of the take-up shaft and that the film has not come loose from the slit of the inner shaft, and wind the film around the take-up shaft once. The film will be sandwiched between the inner and outer shafts.

5 Make sure that the film perforation are engaged with the gear of the sprocket. If there is a sag in the film, rewind the rewind knob slightly to the right or left, make sure that the slit of the cartridge is not in a floating condition, and close the back cover.

6 Close the back cover by just pressing it.





7 Wind the film by winding the film advance lever and then depress the shutter release button. Repeat this two times. Wind the film a third time and the first exposure is set. The exposure counter, during this time, will be from "S" through "O" to " ", indicating "1".

8 Checking loaded film

If the film is correctly loaded, the rewind knob will rotate counterclockwise when the film advance lever is wound. The rewind knob will not turn if the film is loose inside the cartridge. In this case, rotate the rewind crank and take out the sag in the film. If the film is not properly wound, reload the film correctly.

Rewinding of Film

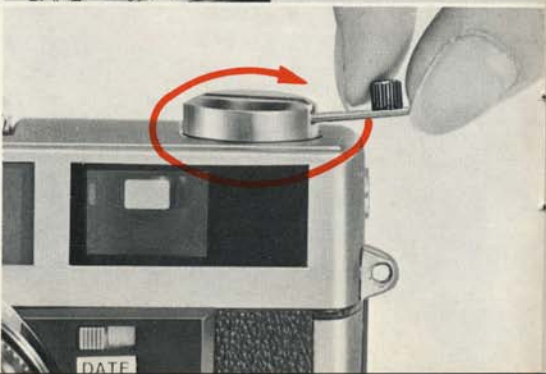
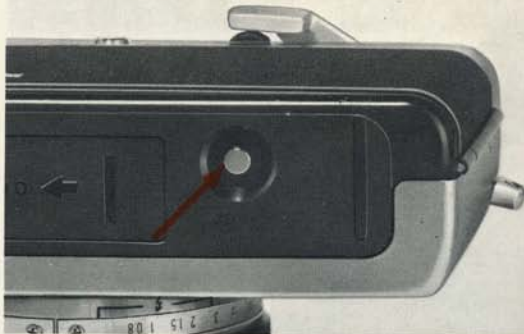
After the entire roll of film has been exposed, rewind the film into its cartridge.

1 Check the exposure counter when the winding of film becomes heavy during photography. Stop photography if the exposure counter indicates a number over the prescribed number.

2 Depress the film rewind button on the camera.

3 Lift up the film rewind crank and wind it in the direction of the arrow. The film rewind button will rotate simultaneously as long as there remains film to be rewound.

4 Stop rewinding the film when resistance becomes light and the film rewind button stops rotating.





4 Pull the rewind crank and knob upwards, open the back cover, and take out the cartridge.

5 Put the cartridge into its container and send it to the authorized processor as soon as possible.

NOTE: If the film should be forcefully wound after the end of the exposed film has already been reached, the film may sometimes be splitted inside the camera or it may come loose from the cartridge, making rewinding of the film impossible. In these cases, open the back cover of the camera in a darkroom, take out the film and rewind it into the cartridge or cover the film so that it is completely shielded from exposure to light.

- The film rewind button can be released once it is depressed. It will automatically return to its original position when the film advance lever is wound after rewinding of the film has been completed.

EE

photography

Setting for Automatic Exposure Control

Turn the EE/Flash setting ring and set the index mark at the "A" mark. The exposure is now controlled automatically and proper exposures can be obtained at all times according to the brightness of the subject.

Setting of Film Speed

Be sure to set the ASA film speed of the film to be used when it is loaded. Turn the film speed ring and set the proper index at the film speed window. The speed of the film is indicated on the film package.





Winding of Film

When the advance lever is wound until it stops, the film is advanced by one frame and wound the shutter mechanism. The film advance lever can also be wound in short strokes.

Exposure Counter

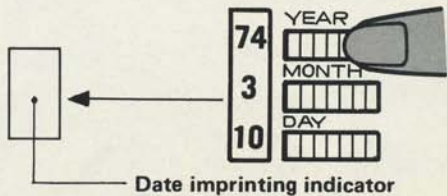
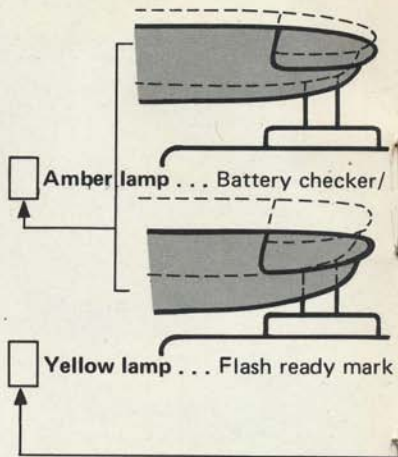
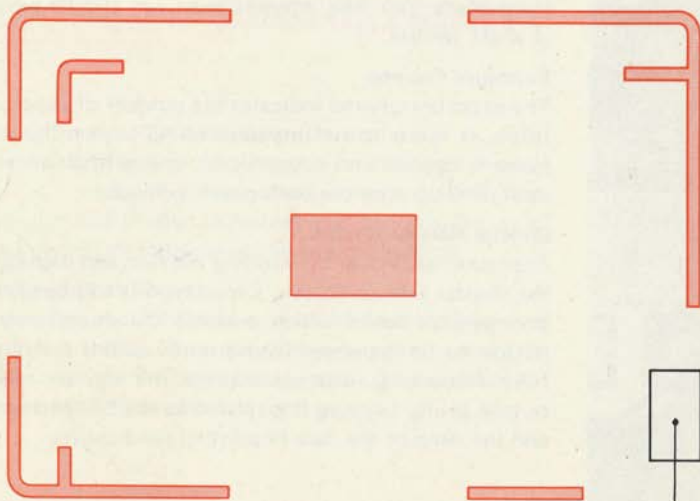
The exposure counter indicates the number of exposures taken. It resets to starting position "S" when the back cover is opened and advances by one graduation with each wind-up after the back cover is closed.

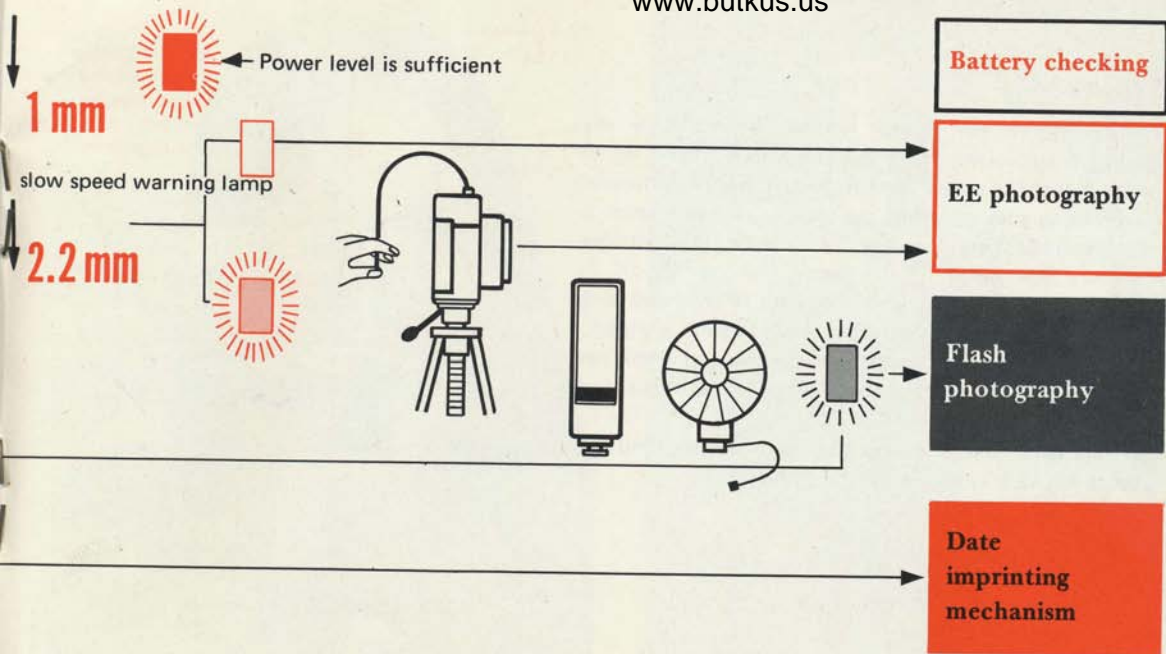


Shutter Release Button

Exposures are made by winding the film and depressing the shutter release button. Canodate E is equipped with an interlock device which prevents the shutter release button to be depressed inadvertently unless the film is fully wound up. Always depress the shutter release button gently because it is related to the EE mechanism and the lamp of the date imprinting mechanism.

Viewfinder Information

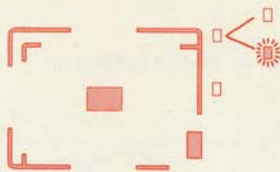




Exposure

Gently depress the shutter release button. When the button is depressed 1mm, the amber lamp lights up to indicate that the power level of the batteries is sufficient. If the lamp goes off when the shutter release button is depressed further, it means a picture with proper exposure was taken. If the lamp does not go off, it means the light volume of the subject is faint and long exposure is necessary. Therefore, use a flash or a tripod. Keep depressing the shutter release button until the amber lamp goes out and the shutter closes in the case of long exposures.

Do not wind the film advance lever during long exposure because it will move the film.



EE photography

1. EE photography with tripod and cable release.
2. Switch to Flash photography.





Composition and Focusing

Compose the picture to be taken within the bright frame. The field-of-view inside the frame is what will be exposed on the film. Use the parallax correction marks inside the bright frame for composing pictures when photographing at maximum close-up distance (0.8m or 2'7"). These parallax correction marks correct the difference in positions between the lens and the field-of-view frame.

The camera is out of focus if the images inside the square in the center of the viewfinder are not aligned, and in focus when the images are aligned. It is recommended to focus a subject with contrasts than a flat-surfaced subject.

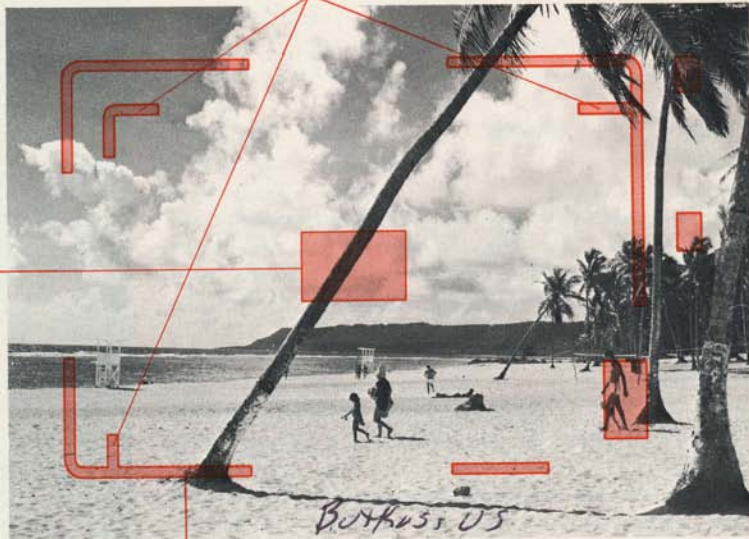




In focus



Out of focus



Field-of-view frame

DATE

imprinting mechanism

When the date switch is set at "ON", yellow position (to the left side), the date indicator in the viewfinder indicates that the date will be imprinted on the lower right-hand corner of the frame. Be sure to confirm the date figures before shooting.

Imprinting Date

When the shutter release button is depressed the date will be simultaneously imprinted on the film. The date is imprinted in three lines from the top. The date indicator dials and indicator window are in the order of year, month and day from the top. When the date on the film imprinted will turn out in the lower right-hand corner in the order of day, month and year from the top.





Setting of Date

Set the desired numerals or letters by turning the indicator dial, while pushing down the lock lever downwards.

Top line . . . year: 70-89 0-9 and □ (blank)

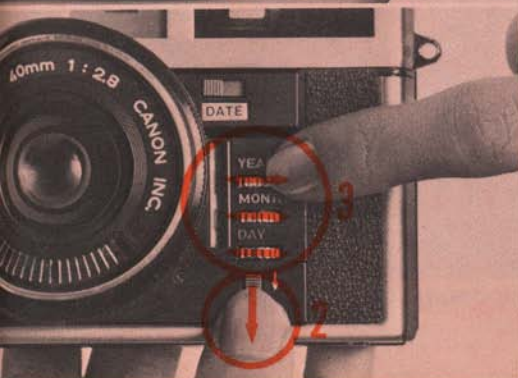
Middle line . . . month: 0-12 I-XII A-E and □ (blank)

Bottom line . . . day: 1-31 and □ (blank)

The above numerals can be used not only for dates but also for series of numbers from 00 to 999. The alphabetical letters can also be used in combination with the numerals for classification purposes such as A1 to A9.

Wait 1/4 sec. After Exposure

Do not wind the film immediately after an exposure has been made because date imprinting will continue for 1/4 second after the shutter has been released and the exposure completed.



Photos with Imprinted Data

1. Combinations of Arabic and Roman numerals used for dating

2. Series of numbers used for filing



When composing pictures, the date imprinting indicator should not be positioned in a white or light-colored

3. Combinations of Alphabetical letter and Arabic numeral used for filing



section of the subject. The imprinted date will be difficult to read.

4. With no dating



FLASH

photography

Canodate E synchronized to the flash unit. It has two different automatic flash control systems, i.e., for Canolite D, and for other electronic flash units and flash bulbs.

Canodate E is designed so that even if photography is performed with the flash unit attached onto the camera, the flash circuit is automatically disconnected under sufficient exposure volume on the subject.

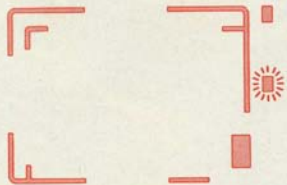
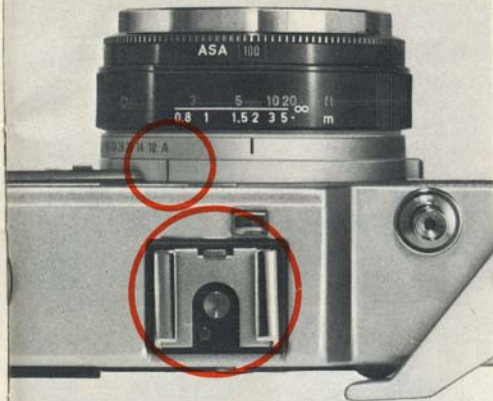


Using Canolite D

Canolite D is a directly-connected electronic flash unit which requires no setting of guide numbers. It is used by just setting the camera at "A" and depressing the shutter release button.

During photography, the changing condition of the power level of the Canolite D is continuously transmitted to the circuit on the camera side. When the camera is focused, the f/stop is automatically decided according to the power level of the flash unit. The shutter speed changes according to the f/stop.

The shooting range in which proper exposures can be obtained with synchronized flash photography is between one and five meters. Exposures will be improper when the shooting distance is outside this range. In these cases, use other flash bulbs. Be sure that the Canolite D is set at "ON", otherwise it will not flash even when the camera comes within the proper range of flash photography.



Yellow Lamp

FLASH

photography

Using Ordinary Flash Units

Connect the cord of the flash unit to the flash terminal socket on the camera. Electronic flash units and flash bulbs each have a fixed guide number which is indicated in the instructions or on the package. Set the EE/Flash setting ring of the camera to the proper guide number of the flash unit to be used. In this case, the shutter speed is automatically set at 1/30 sec. and the f/stop is automatically decided when the camera is focused. All that is necessary is to focus the camera and depress the shutter release button.

The coupled distance range indicated on the EE/Flash setting ring by the arrow mark will be properly exposed.



When the guide number is over EV8, the camera will automatically switchover to EE photography without having to set the guide number ring at "A".

■ Flash units or electronic flash units which cannot be attached onto accessory shoe of the camera cannot be used.

The guide numbers with ASA 100 is indicated on the Canodate E. When the film speed other than ASA 100 is used, adjust setting of the guide number scale on the camera according to the converting chart.

When ASA 50 film is being used and the guide number of the flash bulb is 20 for ASA 100, read the number 14 from the 50 column and set it as the guide number. Canodate E cannot be set at intermediate numbers of the guide numbers shown in the chart. When an intermediate number is to be used, choose the guide number closest to it. Flash bulbs and electronic flash units each have a guide number which changes according to film speeds and shutter speeds. In the case of Canodate E, the shutter speed is fixed at 1/30 sec. Therefore, when a film with a different speed is used, the guide number

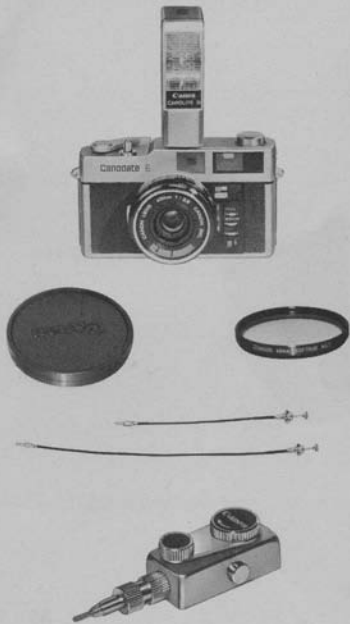


Guide No. Chart

| ASA | 25 | 32 | 40 | 50 | 64 | 80 | 100 | 125 | 160 | 200 | 250 | 320 | 400 |
|-------|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|
| | | | | | | 10 | | | 14 | | | | 20 |
| | | | 10 | | | 14 | | | 20 | | | | 28 |
| Guide | 10 | | 14 | | | 20 | | | 28 | | | | 40 |
| No. | 14 | | 20 | | | 28 | | | 40 | | | | 56 |
| | 20 | | 28 | | | 40 | | | 56 | | | | |
| | 28 | | 40 | | | 56 | | | | | | | |

corresponding to that film speed is set on the camera.
Guide numbers of Canodate E are indicated in meters.
Guide numbers are indicated on flash bulb packages or
in the instructions for electronic flash units.

- NOTE:**
1. In the case of color slides or jumbo-sized prints, a part of the date indicated is sometimes hidden according to how the picture is mounted.
 2. Do not store the camera in places of high temperature and humidity.
 3. Do not leave the camera in places of high temperature such as the rear window and trunk room of a car which sometimes exceed 60°C.
 4. Do not touch the lens with your finger. If fingerprints should get on the lens, wipe them off with a lens cleaner or a silicon cloth.
 5. Remove the mercury battery when storing away the camera. The battery contacts of the camera will become damaged if the mercury battery loaded.
 6. When the camera is stored for long periods of time, mold sometimes adhere to the lens.
It is advisable to use the camera once in a while.



Accessories

- Canolite D
- Lens Cap 50mm
- Screw-in type 48mm Filters
- Canon Release 30, 50
- Canonet Hood 4
- Selftimer 8

Do not use when brightness is EV8 or less.

- Exclusive Case