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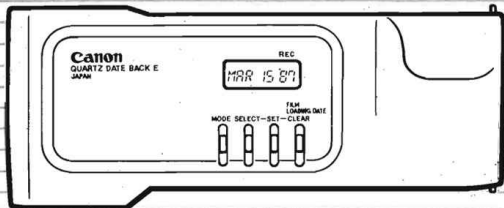
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Canon

Quartz Date Back E



Introduction

Exclusively designed for the Canon EOS 620, EOS 630 and EOS 650, this Quartz Date Back E is a fully automatic data back which imprints various data on the film. Special features of the Canon Quartz Date Back E are:

1. Built-in automatic date imprinting mode programmed up through the year 2029.
2. Built-in automatic quartz, digital clock mode with 24-hour display.
3. Four imprinting modes:
 - 1) Date Mode (any of three sequences-year/month/day, day/month/year or month-3 characters-/day/year)
 - 2) Time Mode (day/hour/minute)
 - 3) Record Number Mode (arbitrary 6-digit number and □ <blank>)
 - 4) Frame Counter Mode (four-digit Fc 0000- Fc 9999)
4. Film-loading date check function.

Please spend a few minutes reading through these instructions before you start using your Quartz Date Back E.

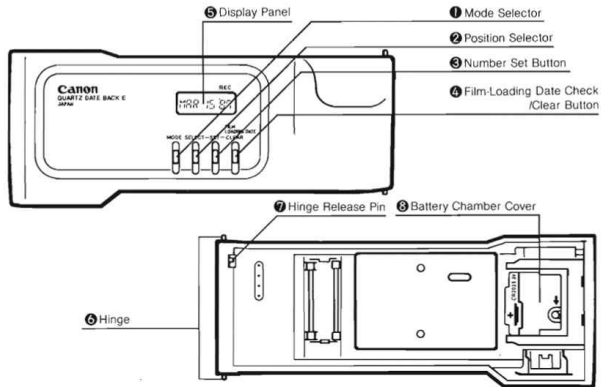
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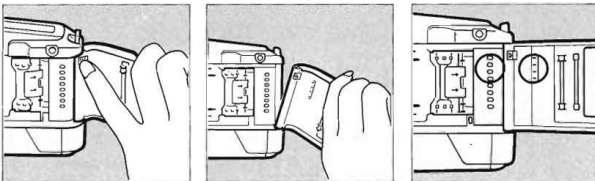


For easy reference to the data back's parts, please unfold the front flap of this booklet.

Nomenclature



1. Attaching the Quartz Date Back E to the Camera



For those who have bought the EOS 650 Quartz Date, please go to chapter 2.

Be sure that there is no film in the camera before attaching the Quartz Date Back E.

- a) Open the back cover of the camera and carefully push the hinge release pin down to remove as illustrated.

- b) To attach the Quartz Date Back E, insert its bottom hinge into the lower socket first. Then depress the hinge release pin, align it with the upper socket and let go of the hinge release pin to lock it on.

Then load the film.

- * Wipe the contacts of the camera and the Quartz Date Back E with a clean dry cloth to ensure proper contact. Otherwise, the data may not be properly imprinted.

2. Basic Function of Control Buttons

The basic functions of the Quartz Date Back E's various control buttons are as follows.

- a) Mode Selector:

-Selects the modes.

Date mode <year/month/day> -

Time mode <day/hour/minute> -

Record number mode <arbitrary 6-digit number> -

Frame counter mode -

OFF <No data imprinted>

-Changes the order of <year/month/day> by pressing with the number set button.

- b) Position Selector:

-Selects the digit to be set or reset when changing numbers in the various modes.
<continuously lit> - <blinking>

- c) Number Set Button:

-Sets values when the digits flash.

-Changes the order of <year/month/day> by pressing with the mode selector.

- d) Film-Loading Date Check/Clear Button:

-Film loading date appears on the display panel.

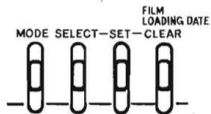
-Clears values when the digits flash in the following manner.

year - '86

month - 1, JAN

day - 1 hour - 0

Minute, and other numerals - 00



3. Display Information

<year/month/day> display

87 3 15 (MAR 15 1987)

<day/month/year> display

15 3 87 (MAR 15 1987)

<month/day/year> display

MAR 15 87 (MAR 15 1987)

<day/hour/minute> display

15 8:30 (15th, 8:30)

<Record number> display

50 40 30 (number 50 40 30)

<Frame counter> display

Fc 00 78 (78th frame counter)

<OFF> display

OFF No data will be imprinted.

<Data Exposure Confirmation Indicator>

87 3 15

This mark appears for about 2 sec. after shutter release, indicating that data have been imprinted.

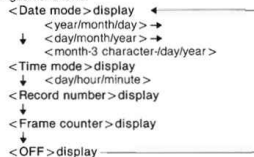
<Battery Replacement Warning Indicator>

BATTERY
87 3 15

"Battery" appears to indicate that the battery should be replaced.

4. Display Mode Selection

Press the mode select button, and the display changes as follows:



The data displayed upon shutter release will be imprinted.

5. Basic Operation for Setting Display Numbers

- Each time the position selector is pressed, a 2-digit unit starts flashing.
- After the 2 digits you wish to change start flashing, press the number set button until the desired number appears.
- Press the position selector until the digits stop flashing.

Each depression of the number set button increases the flashing numeral by one. If the button is held down continuously, the numeral will increase rapidly. The numerals do not carry over into other positions, for example from day to month, or from minute to hour.

6. Setting Data Imprinting

General Information on Data Imprinting

The data will be imprinted upon shutter release in any display mode except "OFF".

*The data will be imprinted at the position shown.



*You can confirm data imprinting when the data exposure confirmation indicator lights up in the display panel.

*The data may not appear clearly on the picture if the data imprinting area is bright.

*Numerals imprinted may blot slightly depending on the kind of film.

*Data will not be imprinted when any digit on display panel is flashing.

*Be sure to set to "OFF" when you do not want to imprint anything.

a) Setting the date

Each time the position selector is pressed, a 2-digit unit start flashing in order of <year> → <month> → <day>, in any date mode.

*Changing the order of <year/month/day>

Any of three formats (year/month/day, day/month/year, and month/day/year) may be selected in the date mode. The <year/month/day> display sets initially. To change this order, follow these steps:

- 1) Select the date mode by pressing and releasing the mode selector.
- 2) Press the mode selector while pressing the number set button. Each time the mode selector is pressed, the display rotates in the sequence:
<year/month/day> → <day/month/year> → <month/day/year>

EXAMPLE






Changing the data from January 1, 1987 to May 10, 1990.

1) Select the date mode by pressing and releasing the mode selector.	
2) As the position selector is pressed, 87 starts flashing, then set 90 by pressing the number set button.	
3) Adjust 1 (month digit) to 5 and 1 (day digit) to 10 following the same procedure as in step 2.	
4) Press the position selector again to finish.	

b) Setting the time

EXAMPLE

When you want to change the time from 10:30 to 5:45.

1) Select the time mode by pressing and releasing the mode selector.	
2) When the position selector is pressed, the colon will start flashing. When it is pressed again, 30 (minute digit) will start flashing.	
3) Set 45 by pressing the number set button.	
4) Correct 10 (hour digit) to 5 following the same procedure as in step 2 and 3.	
5) Press the position selector again to finish.	

● indicates button is pressed.

*Setting the precise time

- 1) When the position selector is pressed once, the colon starts flashing.
- 2) Press the number set button at the time of the tone given on the radio, or telephone. The internal clock immediately starts counting at 00 seconds.

Set the seconds first and then the minutes.



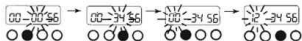

- *The seconds are not displayed in the panel.
- *Change the day only in the date mode (refer to p.8)

c) Setting the record number

You can set each 2-digit unit of the arbitrary 6-digit code from 00 to 99 and □ <blank>. This mode is useful for organizing and filing your pictures.

EXAMPLE

Setting "12 34 56".

1) Select the record number mode by pressing and releasing the mode selector.	
2) When the position selector is pressed once, the "00" on the right starts flashing. Then set 56 by pressing the number set button.	
3) Adjust 00 in the center to 34 and 00 in the left to 12 following the same procedure as in step 2.	
4) Press the position selector once again to finish.	

● indicates button is pressed.

*Each 2-digit unit increases in the rotating sequence of 00—99 and □ <blank>. If you hold down the number set button continuously, the display increases rapidly.

d) Setting the frame counter number

You can imprint the 4-digit frame counter number from Fc 00 00 up to Fc 99 99 in sequence.

The frame counter number automatically advances with the camera's frame counter, as each exposure is made.





*If you want to continue the sequential numbering after your first roll of film has finished, there is no need to reset for subsequent rolls. The sequential exposure number is set automatically because the frame counter reading on the LCD panel does not advance during automatic film loading. The frame counter from Fc 00 01 to Fc 99 99 can be automatically set and imprinted in this manner.

*You can begin with any number.

• The frame counter number cannot be imprinted correctly in the continuous exposure mode of the EOS 630.

EXAMPLE

To start the frame counter setting from Fc 00 01.

1) Select the frame counter mode by pressing and releasing the mode selector.	
2) When the position selector is pressed once, the right 2 digits (00) will start flashing.	
3) Press the number set button once while the 00 is flashing to set 01.	
4) Press and release the position selector twice to finish.	

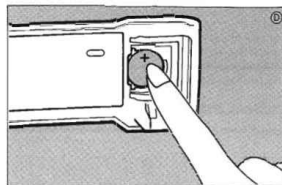
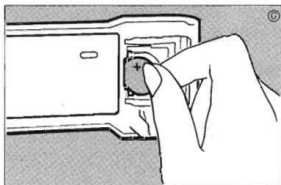
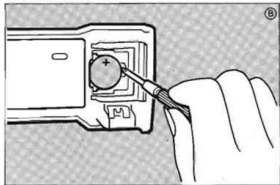
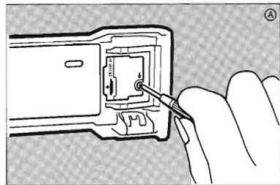
● indicates button is pressed.

7. Film-Loading Date Check

Press the film-loading date check button, and the film-loading date appears on the display panel.

- *The film-loading date is always displayed in <year/month/day> format, even when other formats are selected.
- *We recommend removing the film cartridge and developing it upon completion.

8. Replacing the Battery



When the "BATTERY" mark lights up in the display panel, the battery has become exhausted. Replace promptly as directed.

- Battery type: Lithium 3V, CR2025 (coin-shaped)
- Battery life: Approx. 3 years (at normal temperatures about 20°C/68 °F)
- A new battery is included at time of purchase.

Be sure to replace the battery only when film is not loaded.

- 1) Open the back cover.
- 2) Using a Phillips-head screwdriver, take out the retaining screw to remove the battery chamber cover (A).

- 3) Insert the screwdriver tip into the chamber and then gently push the battery. It will then pop up as shown in (B).
- 4) Wait 15 seconds after removing the old battery and then load the new battery with the "+" side facing up as indicated on the outside of the battery chamber cover as shown in (C).
- 5) To load the new battery, first insert one side into the chamber and then press it to the left with your finger until it will go no further as shown in (D).
- 6) Finally, slide the battery slightly to the right, lock it into place and replace the cover.

The Quartz Date Back E's settings upon completion of this procedure will be as follows:

Date: January 1, 1986
Time: 00 00:00
Record Number: 00 00 00
Frame Counter: Fc 00 00

If <'86 1 1> does not appear in the display panel after replacement, please remove the battery and wait for at least 15 seconds before reloading.

*Remove the battery chamber cover only to replace a battery.

*Battery performance substantially reduces at low temperatures (below 0°C/32°F). Do not throw away these batteries, because once restored to room temperature, you may be able to use them again.

*Keep batteries away from children. If swallowed, contact a physician immediately.

9. Liquid Crystal Display

Liquid crystal is used in the display area and other parts for data recording. A lack of contrast or blur in the digital display may occur after about five years. If this occurs, please contact an authorized Canon Service Facility for replacement. (Replacement will be at owner's expense.)

Specifications

Used with: Canon EOS 620
Canon EOS 630
Canon EOS 650

Attachment: Exchanges with camera's back cover.

Type: Fully-automatic data back with built-in auto date (watch) function

Data imprinting function:

- 1) Four modes plus non-imprinting (OFF)
 - a) Year/month/day (switchable to day/month/year or month-three characters-/day/year)
 - b) Day/hour/minute
 - c) Record number (arbitrary six-digit number and <blank>)
 - d) Frame counter: maximum of 4 digits from Fc 0001 to Fc 9999, coupled to exposure
 - e) OFF (non-imprinting)
- 2) External indicators:
Constant display by seven digits on the display panel. a), b), c), d) are displayed the same with the imprinting data.
(<OFF> appears in the display panel only.)
- 3) Data imprinting position:
Bottom right corner of the frame with characters arranged horizontally. On the negative, character height is about 0.65mm.

4) Data imprinting system:
Automatic imprinting coupled with exposure by a miniature lamp which exposes a transmissive LCD from the film's base side to project numbers and characters.

5) Exposure confirmation indicator:
An exposure confirmation mark (an LCD indicator) lights in the display panel for 1-2 seconds after exposure.

6) Data imprinting speed during continuous exposure: Same as the continuous exposure speed of the camera.

7) Data imprinting lamp intensity:
Automatically set (five levels) according to DX code.

Automatic calendar function:
Programmed for all dates from 1986 to 2029. Automatic correction for long and short months and leap years.

Film-loading date check:
Data back automatically remembers the film-loading date. Date can be displayed at any time on the display panel by pressing the film-loading date check button.

Digital clock accuracy:
Accurate to within ± 30 seconds per month at normal temperature (20°C/68°F)

Power supply:
3V, CR2025, lithium battery

Battery life and replacement warning:
About 3 years (at normal temperature). Battery is automatically checked. If the voltage is below a certain level, "BATTERY" lights in the display panel.

Dimensions: 147.7(W) × 58.4(H) × 24.7(D) mm
(5-13/16" × 2-5/16" × 15/16")

Weight: 75 g (2-5/8 oz) with battery
(All data are based on Canon's Standard Test Method.)

Subject to change without notice.

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.