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E31*

Analog solar-powered watch

Within ± 15 seconds per month on average (when worn at normal temperatures between 5°C/41°F and 35°C/95°F)

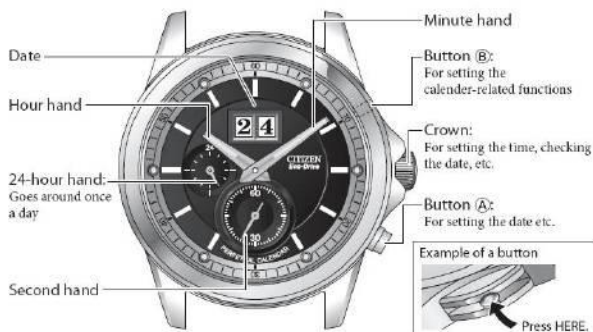
-10°C/14°F to +60°C/140°F

- Time: 24 hours, hours, minutes, seconds
- Calendar: Years passed since the last leap year, Month, Date

- Perpetual calendar (until February 28, 2100)
- Overcharge prevention function
- Insufficient charge warning function

- Fully charged to empty: Approx. 12 months
- Two second interval movement to stop: Approx. 3 days

Secondary battery, 1pc.



The illustrations in this instruction manual may differ from the actual appearance of your watch.

Illuminance (Lx)	Environment	Charging time for working one day (approx.)	Charging time to start working normally when the battery is empty (approx.)	Time for charging fully when the battery is empty (approx.)
500	Interior lighting	4 hours	60 hours	—
1,000	60-70 cm (24-28 in.) under a fluorescent lamp (30 W)	2 hours	30 hours	—
3,000	20 cm (8 in.) under a fluorescent lamp (30 W)	40 minutes	8 hours	260 hours
10,000	Under cloudy weather	12 minutes	3 hours	80 hours
100,000	Under direct sunlight in summer	2 minutes	45 minutes	30 hours

7. Pull out the crown to position ②

All hands stop moving.

- To set the time accurately, pull out the crown when the second hand is at the 0-second position.

2. Turn the crown to set the time.

All hands other than the second hand will move.

- Take care of the position of the 24-hour hand to set A.M. or P.M. correctly.

- When you set the hands to around midnight, the date will change to the following day. To return to the previous day, set the hands to the position before 23:30.

Go to step 3 after the date has completely stopped.

3. Push in the crown to position ①

The watch starts moving.

- To set the time accurately, push in the crown by the time signal.



Date window



Second hand
24-hour hand

7. Enter the setting mode



The figures in the date window move slightly up and down or right and left, or change to tell you that you can do the next operation.

- 1-1. Pull out the crown to position ①. The month appears in the date window.
- 1-2. Press and hold button (B) until the figures in the date window start moving.

The figures in the date window change slowly.

2. Set the year

Set the number of years passed since the last leap year.



Quick reference chart for number of years passed since leap year

Year	Passed year	Year	Passed year
2004	Leap year	2008	Leap year
2005	One year	2009	One year
2006	Two years	2010	Two years
2007	Three years	2011	Three years

- 2-1. Press button (A) repeatedly to set the year.



Ex.	Setting value	Window
When the current year is a leap year	0	LY 0
When two years have passed	2	LY 2

3. Set the month

Set the month—tens digit, then ones digit.



- 3-1. Press button (B) to set the tens digit of the month.



- 3-2. Press button (B). Now you can set the ones digit.
- 3-3. Press button (B) repeatedly to set the ones digit of the month.



- 3-4. Press button (B). Now you can set the date.

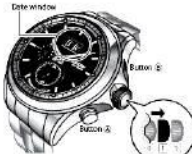
4. Set the date

Set the date—tens digit, then ones digit.

The selectable date differs depending on the year and month you have set.

Month	Setting value	Window
From January to September	Mo	01-31
From October to December	M1	01-31

Ex.	Setting value	Window
September	9	09
November	1	01



- 4-1. Press button (B) repeatedly to set the tens digit of the date.



- 4-2. Press button (B). Now you can set the ones digit.

- 4-3. Press button (B) repeatedly to set the ones digit of the date.



5. Finish the setting. Push in the crown to position ①. The settings are stored.

Ex.	Setting value	Window
20th day	0	02
30th day	3	03

Ex.	Setting value	Window
20th day	0	02
30th day	0	03

You can check the date, month and year*1.

Date window



	The crown position	The button operation
To check a date	① ②	—
To check a month	① ②	—
To check an year	① ②	Pressing button (A)*2

*1 This watch shows the number of years passed since the last leap year.

*2 Each time you press button (A) while the crown is set to position ①, you can display the month and year alternately.

Display examples of the date window

When checking a date	Ex. 5th day 05
When checking a month	Ex. February 02 * 'M' stands for Month.
When checking an year	Ex. Next year of a leap year LY 1 * 'L.Y.' stands for Leap Year.

The figures in the date window change slowly.

Perpetual calendar

The date is automatically adjusted until February 28, 2100. So you do not need to correct it at the end of months.

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