

REMARKS ON BATTERIES

⚠ WARNING

<Remarks on alkaline batteries>


- Never attempt to short circuit, dismantle, or heat the alkaline battery, or place it in a fire. This may cause a leak of the alkaline solution inside the battery, and if the solution should get into your eyes, it will cause damage. Additionally, the battery may generate intense heat or explode.
- If your skin or clothing comes into contact with the alkaline solution, rinse with clean water. If the solution gets into your eyes, rinse eyes with clean water and consult a doctor immediately.

⚠ CAUTION

<Remarks on batteries>

- Please be sure to observe the following correct battery usage. Misusing batteries may cause leakage or a battery explosion, which may result in a malfunction of the clock or personal injury.
- Insert batteries into the battery holders, locating the plus (+) and minus (-) ends correctly.
 - If you replace batteries, replace all of them at one time with new ones as specified in this manual.
 - Batteries used in this clock are not rechargeable. Never attempt to recharge the batteries.
 - Do not attempt to solder anything directly to batteries.
 - Do not expose batteries to direct sunlight, heat, or high humidity.
 - When the clock stops, or it is no longer used, remove the batteries.
 - As the initial batteries are inserted at the factory, their actual lives once in your possession may be shorter than the specified period.

SPECIFICATIONS

- Manual time setting: Loss/gain (monthly rate) is less than 30 seconds (at a normal temperature range between 5°C and 35°C)
 - Display shows less than 1 second loss/gain after receiving each radio signal
 - Operational temperature range: between -10°C and +50°C (the display can be read between 0°C and +40°C)
 - Alarm: The electronic beep sounds at a designated time for approximately 1 minute and automatically stops. An approximately every 5-minute snooze function is equipped (the snooze function can be used repeatedly).
 - Automatic calendar: The calendar adjusts automatically for odd and even months including February of leap years from Jan. 1, 2000 to Dec. 31, 2099.
 - Temperature scale: Temperature can be measured between 0°C and +40°C (accurate to within ±2).
 - Time/Calendar display: Hour, minute, second, month, date, day of the week, and temperature can be displayed. 12-hour time indication and 24-hour indication are available.
 - Battery: AAA battery (JIS-R03), 2 pieces
 - Battery life: Approximately 1 year (if the alarm is used for approximately 30 seconds per day)
 - Battery life indicator: When batteries are near their end, the battery life indication mark  flashes.
 - Time setting by receiving a radio signal: Automatic reception
After having received a radio signal, the clock moves according to the quartz movement until the next reception.
Manual reception (forced reception)
 - Receivable official standard frequency:
Japan - JJY 40kHz/60kHz The United States - WWVB 60kHz
Germany - DCF 77.5kHz The United Kingdom - MSF 60kHz
- * The specifications are subject to change without prior notice due to product improvement.

HOW TO USE THE CLOCK

Before using the clock, slowly peel off the protective film on the display.



- Insert the batteries (2 AAA batteries).
Open the back cover of the clock and insert the AAA batteries into the battery holder. Be sure to position the plus (+) and minus (-) ends correctly.
- Press the **RESET** button.
The time shows as 12:00 AM and the clock starts receiving radio signals.
- Follow the procedure below to select and fix the transmitting station manually.

[Successful reception]



[Unable to receive radio signals]




- Press the **WAVE/SET** button to select the transmitting station.
With each press of the button, there is a beep and the transmit station mark starts flashing in the order of USA → JPN → GER → UK.
- After the transmitting station is selected, the clock receives radio signals transmitted from the selected station only.
- Set the Time Zone according to the "TIME ZONE ADJUSTMENT" section. The clock completes the signal reception within approximately 20 minutes. If the clock successfully receives radio signals, the SIGNAL RECEIVING marks ( : receiving strength, USA, etc.: transmitting stations) will appear on the display and the correct time and date will be displayed.
- During signal reception, the SIGNAL RECEIVING marks change according to the signals received.
- If the clock fails to receive a radio signal, only the bottom of the SIGNAL RECEIVING strength mark  shows and the transmitting station indication disappears. In such a situation, the time and calendar will not be adjusted.
- When the clock is placed where the reception strength is insufficient to receive radio signals, it will temporarily stop searching for radio signals after a few minutes.
- Sometimes only time (hour: minute) and [second] may be displayed correctly during radio signal reception. After the clock successfully receives radio signals, the other information [month/date] and [day] will be displayed correctly.


Note: After the batteries are replaced with new ones, be sure to press the **RESET** button.

- How to use the alarm
- Press the **UP/DOWN** button to set the alarm time.
When the **UP/DOWN** button is pressed, the alarm setting function is activated and the alarm time will be displayed.
- If the **UP/DOWN** button is kept pressed, the hour and minute digits advance quickly.
- If the **UP/DOWN** button is not pressed for more than approximately 5 seconds, the alarm time is automatically set and the display returns to the NORMAL display.



② Move the **ALARM** switch to ON. The alarm will ring at the designated alarm time.

- When the **ALARM** switch is set to ON, the ALARM mark () appears.

• How to stop the alarm

- Push the **ALARM** switch to OFF.
The alarm completely stops.
The ALARM mark () disappears.

② Press the **SNOOZE/LIGHT** button.


- The alarm stops temporarily, and after approximately 5 minutes, it will start ringing again (Snooze function).
- While the snooze function is activated, the alarm mark () continues to flash.
- The snooze function can be used repeatedly.
- After the alarm rings for approximately 1 minute, it automatically stops (Automatic stop function).
The alarm mark () remains being displayed, and the alarm will ring again at the same time the next day.

AUTOMATIC SIGNAL RECEPTION

The clock automatically receives a radio signal 6 times a day.

If the reception is successful, the time and calendar are automatically reset to the current time.

IF THE CLOCK FAILS TO RECEIVE A RADIO SIGNAL

- Perform a manual reception of radio signals to set the time and calendar.
Press the **WAVE/SET** button. The clock starts receiving radio signals.
 - If the clock is unable to receive a radio signal, move it to another place or change the direction of the clock. If the SIGNAL RECEIVING marks ( : receiving strength, USA, etc.: transmitting stations) are not displayed during reception attempts, the radio signals may not be sufficient to reach/access where the clock is placed. Since reception conditions are relatively better at night, the clock may be able to receive signals the following day even if the clock has been unable to receive signals during the previous daytime.
 - The time and calendar can be set manually.
If the clock is unable to receive any radio signals, the time can be set manually.
- Press the **WAVE/SET** button for more than 2 seconds until it beeps.
 - With each press of the **WAVE/SET** button, the selected item to be adjusted flashes in the order as shown in the figure below.
 - Press the **UP/DOWN** button to set each item.
- If the **UP/DOWN** button is kept pressed, the digits advance quickly.
 - If the **UP/DOWN** button is not pressed for more than approximately 5 minutes, the display automatically returns to the NORMAL display. The time or calendar shown just before returning to the NORMAL display will be displayed.



[Normal display]

Generally use the clock with the NORMAL display.



[YEAR SETTING display]

Press the **UP/DOWN** button to set the year.
The year can be selected from 2000 to 2099.
The day will be automatically adjusted.



[MONTH/DATE SETTING display]

Press the **UP/DOWN** button to set the month and date.
The day will be automatically adjusted.



[MONTH/DATE FORMAT SETTING display]

Press the **UP/DOWN** button to toggle between Month/Date or Date/Month calendar display.



[TIME SETTING display]

Press the **UP/DOWN** button to set the hour and minute digits.
When the **UP/DOWN** button is pressed, the second digits are reset to 00.



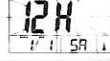
[DAYLIGHT SAVING TIME SETTING display]

Press the **UP/DOWN** button to set the Time Zone and Daylight Saving Time setting. Please refer to the "Time Zone Adjustment" and "Daylight Saving Time Adjustment" section of this instruction manual.



[LANGUAGE SETTING display]

Press the **UP/DOWN** button to select the language from English (EN) / Dutch (NE) / Spanish (ES) / Italian (IT) / French (FR) / German (DE)



[12/24-HOUR INDICATION SETTING display]

Press the **UP/DOWN** button to select either the 12-hour or 24-hour indication.

- After setting the 12-hour or 24-hour indication, press the **WAVE/SET** button to return to NORMAL display.

DAYLIGHT SAVING TIME ADJUSTMENT

- The Automatic Daylight Saving Time (DST) is turned on after successful reception of Germany or United Kingdom signal, and turned off after successful reception of Japan signal.
While in the "Daylight Saving Time Setting display", when USA signal is being selected, press the **DOWN** button to select Automatic DST ON or OFF.

TIME ZONE ADJUSTMENT

- The clock can be set to a local time in a time zone different from a standard time.
While in the "Daylight Saving Time Setting display", press the **UP** button to change the time zone.
- If the clock receives the official standard frequency of the United States, the time zone can be selected from the six zones below.
E : Eastern(+2) C : Central(+1) M : Mountain(0) P : Pacific(-1) AK : Alaska(-2) HI : Hawaii(-3)
- If the clock receives an official standard frequency of an area other than the United States, the clock can be set to time zones 1 hour earlier or later than the standard time of the area. For instance, if you want to use the clock in Taiwan after receiving the standard frequency of Japan, you can set the clock to the Taiwan time that is one hour later than the Japan Standard Time.
+1 : the clock can be set to the time one hour earlier than a standard time.
-1 : the clock can be set to the time one hour later than a standard time.




LIGHT

If the **SNOOZE/LIGHT** button is pressed, the light comes on. After the button is released, the light remains lit for about 4 seconds.

BATTERY LIFE INDICATOR

This clock is equipped with a battery life indicator.

When batteries are near their end, the battery life indication mark  flashes. When this happens, replace the batteries with new ones.

HOW TO SHOW TEMPERATURE DISPLAY

Press the **Temperature / Day of the week** button to select between Day-of-the-Week and Temperature display.

Press the **Temperature °C / °F** button to select the display format of temperature between the two measure systems below.

℃ : Centigrade °F : Fahrenheit

NOTES

- The clock is equipped with a microcomputer. Defective indication may be caused by interference from static electricity, etc.; however, this is not a malfunction. If this happens, press the **RESET** button.
- When the **RESET** button is pressed, time and the other functions are all reset.
- After replacing the batteries with new ones, be sure to press the **RESET** button.