

CITIZEN®

INSTRUCTION MANUAL



Eco-Drive®

Thank you for purchasing a CITIZEN watch. To ensure correct use, please read these instructions carefully. Please confirm that the CITIZEN International Guarantee Card is included for your possible claim.

Vielen Dank für den Kauf dieser CITIZEN Uhr. Bitte lesen Sie diese Anleitung durch, um mit den Funktionen dieser Uhr vertraut zu werden. Überprüfen Sie bitte in Ihrem eigenen Interesse, ob der Uhr die internationale CITIZEN Garantiekarte beigelegt ist.

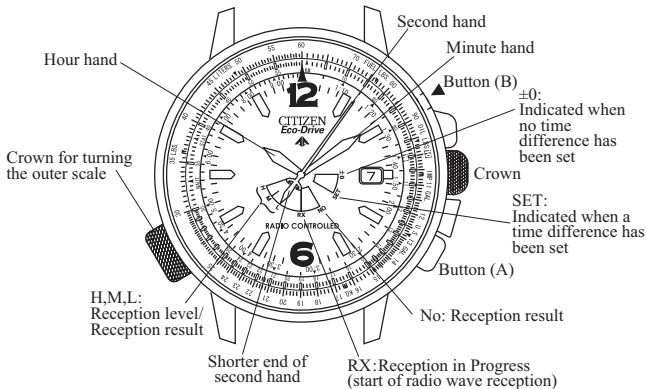
Grazie per aver scelto un orologio CITIZEN. Per la sicurezza di un uso corretto, si prega di leggere attentamente le istruzioni. Inoltre abbiate la cortesia di assicurarvi che la carta di garanzia internazionale CITIZEN sia inclusa in caso di un eventuale reclamo.

Nous vous remercions d'avoir porté votre choix sur une montre CITIZEN. Pour assurer une utilisation correcte, veuillez lire ces instructions attentivement. Veuillez vous assurer que la carte de garantie internationale CITIZEN est fournie pour toute réclamation éventuelle.

Muchas gracias por la compra de este reloj CITIZEN. Para asegurar un uso correcto, lea detenidamente estas instrucciones. Verifique de que la tarjeta de Garantía Internacional de CITIZEN le sea suministrada con el reloj en el momento de la compra, de esta manera, podrá reclamar servicios de acuerdo con los términos de la garantía.

Muito obrigado por adquirir um relógio CITIZEN. Para garantir uma utilização correta, por favor leia estas instruções atentamente. Confirme também se o Cartão Internacional de Garantia da CITIZEN acompanha o relógio. Ele será necessário no caso de uma possível reclamação.

● This watch indicates the reception level and reception result with the shorter end of the second hand.



The design may differ according to the model.

■ This watch is a radio wave watch that receives the standard time radio wave transmitted in Germany. ■

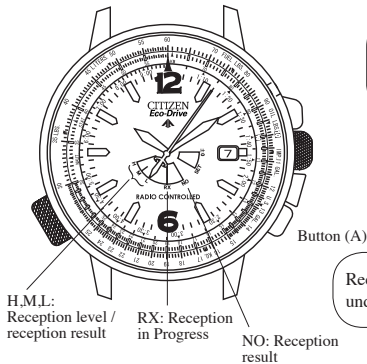
This radio wave watch is equipped with a regular automatic reception function that sets the time and date by automatically receiving radio waves twice a day at 3:00 AM and 4:00 AM, and a free reception function that allows the time to be set arbitrarily by receiving radio waves. A time difference can also be set in 1 hour units based on German standard time.

- This watch only receives the standard time radio wave transmitted in Germany during radio wave reception. It is unable to receive radio waves of countries other than Germany.
- When using the watch in a location that has a different time difference than that of Germany, set the time difference by referring to the section entitled, “5. Time Difference Correction Function”. If the standard time radio wave transmitted in Germany is received after setting the time difference by another method, the time will return to German standard time.

**■ Please use this watch after ■
charging sufficiently by
placing in light.**

If the second hand of the watch is moving at two-second intervals while the watch is in use, this indicates that the watch is insufficiently charged. Use the watch after first recharging by placing the watch under direct sunlight for about 8 hours. To ensure that this Eco-Drive Radio Wave Watch is used comfortably without stopping, it is recommended to try to keep the watch fully charged at all times.

■ Please confirm the following before using ■ the watch.

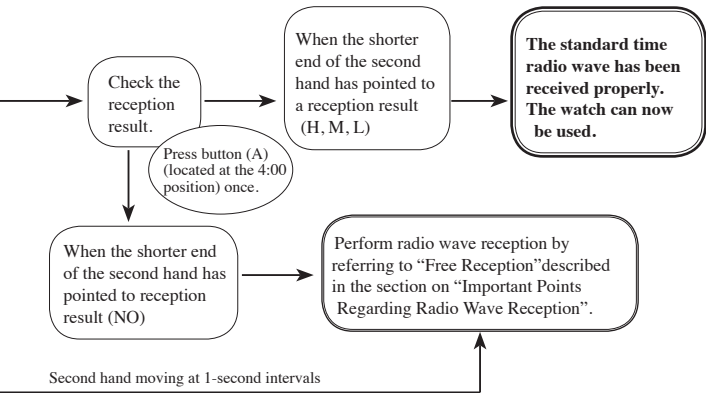


Check the
movement of the
second hand.

Second hand
moving at
1-second intervals

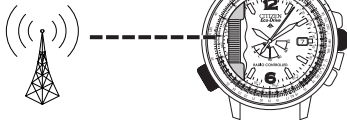
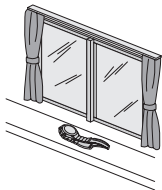
Second hand moving at
2-second intervals

Recharge the watch by placing
under direct sunlight



■ Important Points Regarding Radio Wave Reception ■

The two ways to receive radio waves that are ordinarily used consist of Regular Automatic Reception and Free Reception. When receiving radio waves, first remove the watch from your wrist, face the 9:00 position on the watch towards the radio wave transmitter station, and place the watch in a stable location that facilitates reception of radio waves such as in front of a window. Since the watch uses a directional antenna, moving the watch while reception is in progress may prevent radio waves from being properly received. When reception is completed, the second hand returns to one-second interval movement. Do not move the watch until radio wave reception is completed.



[Regular Automatic Reception]

The watch sets the time and date by automatically receiving radio waves at the predetermined times of 3:00 AM and 4:00 AM each day.

<Confirmation of Reception>

Check the reception result to determine whether or not radio waves have been received properly by pressing button (A) located at the 4:00 position once. If the shorter end of the second hand points to H, M or L, this indicates that radio waves have been received properly. The watch can now be used.

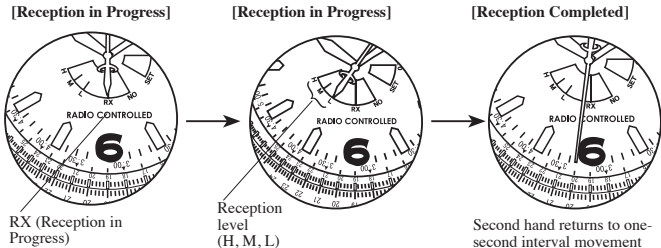
If the shorter end of the second hand points to NO at the 5:00 position, this means that radio waves were unable to be received properly. If this happens, perform radio wave reception using the Free Reception function.

[Free Reception]

The Free Reception function lets you receive radio waves at any time. Use this function when the reception environment has changed or in other cases when radio waves are unable to be received by Regular Automatic Reception.

<Reception Procedure>

- (1) Press button (A) located at the 4:00 position for about 2 seconds, and then release the button after the shorter end of the second hand has moved to the RX (6:00) position.
- (2) The shorter end of the second hand then moves to H, M or L indicating that reception is in progress.
- (3) When reception is completed, the shorter end of the second hand moves from H, M or L and returns to one-second interval movement.



* Refer to "3. Receiving Radio Waves" for further details on the procedure for receiving radio waves.

■ When Storing in a Dark Location for a Long Period of Time ■

If the watch is stored in a location out of the light for a period of one week or more, the Power Save Function of the watch is activated and the watch stops. Even though the watch is in the Power Save mode, it will continue to keep time within its accuracy range. However, the time may not be able to be corrected as a result of being unable to receive radio waves depending on the manner in which the watch is stored. When resuming use of the watch after storing for an extended period of time, cancel the Power Save function by placing the watch in the light and then perform Free Reception to correctly set the time and date.

* Refer to “7. A. Power Save Function” for information on the Power Save function.

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1. Features

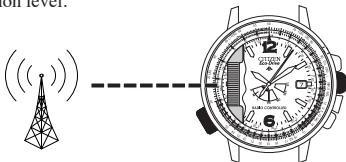
This watch is a radio wave watch that automatically corrects the time and date by receiving a standard time radio wave (time information) transmitted in Germany. It is also equipped with a time difference setting function that allows time differences to be set in one hour units based on German standard time when the watch is used in regions where the time difference differs from that of Germany. In addition, this watch is also an Eco-Drive radio wave watch provided with a photoelectric power generation function that converts light energy into electrical energy to drive the watch. It is also equipped with a power save function that reduces power consumption of the watch when the solar cell is not exposed to light.

2. Before Using

A. Radio Wave Receiving Function

<For Good Reception>

This watch incorporates an antenna for receiving radio waves inside the watch case (at the 9:00 position). For good reception, it is ideal to have the 9:00 position of the watch facing in the direction of the radio wave transmitter station when receiving radio waves. The reception level varies depending on the environment in which the watch is used. Try receiving radio waves while changing the orientation or location of the watch while referring to H, M or L that indicates the reception level of the watch. Find the location and direction where radio waves are received easily as indicated by H or M being indicated for the reception level.



- For stable reception, remove the watch from your wrist and place the watch in a stable location that facilitates reception of radio waves such as in front of a window. Do not move the watch during reception.
- Radio waves may be hard to receive due to blockage by metallic objects or the environment. When inside a building and so on, reception should be performed as close to a window as possible.

<Locations where Reception may be Difficult>

It may not be possible to properly receive radio waves at the following locations susceptible to generation of radio wave noise or under the following environmental conditions that cause difficulty in receiving radio waves.

- (1) Locations subject to extremely high or low temperatures
- (2) Inside a reinforced concrete building, between tall buildings or in valleys between mountains or underground
- (3) In a car, train or airplane
- (4) Near high-tension wires (power lines), railroad overhead wires or airports (communication facilities)
- (5) Near a cellular telephone in use
- (6) Near household electric appliances or OA equipment such as TV sets, refrigerators, personal computers, fax machines, etc.

3. Receiving Radio Waves

In addition to the most commonly used Regular Automatic Reception and Free Reception, radio waves can also be received by using Recovery Automatic Reception by which radio waves are received when the watch is charged until the second hand moves at one-second intervals after having stopped due to being insufficiently charged. The time and date are corrected automatically when radio waves have been properly received. When reception is completed, each hand either moves forward or backward to indicate the received time.

[Data Received from German Standard Time Radio Waves]

- Time information: Hours, minutes, seconds, daylight savings time
- Date information: Month, day, year

A. Reception Modes

1. Regular Automatic Reception

The shorter end of the second hand moves to the RX: Reception in Progress position and the watch automatically begins to receive radio waves twice a day at 3:00 AM and 4:00 AM.

<Reception Procedure>

- Remove the watch from your wrist and place it in a stable location where radio waves can be received easily such as by a window with the 9:00 position of the watch facing in

the direction of the radio wave transmitter station. The watch automatically receives radio waves twice a day at 3:00 AM and 4:00 AM.

2. Free Reception

Reception begins when button (A) at the 4:00 position is pressed for about 2 seconds. Remove the watch from your wrist and place it in a stable location where radio waves can be received easily such as by a window with the 9:00 position of the watch facing in the direction of the radio wave transmitter station. When reception is completed, the second hand returns to one-second interval movement. Do not move the watch until reception is completed.

<Reception Procedure>

- (1) Press button (A) located at the 4:00 position for about 2 seconds and then release.
 - Confirm that the shorter end of the second hand has moved to the RX: Reception in Progress position (6:00 position).
- (2) Place the watch in a stable location where radio waves can be received easily such as by a window with the 9:00 position of the watch facing in the direction of the radio wave transmitter station.
- (3) After that, the shorter end of the second hand moves from the RX position to H, M or L indicating that reception is in progress.

- (4) When reception is completed, the shorter end of the second hand moves from H, M or L and returns to one-second interval movement.
- Do not move the watch until the second hand returns to one-second interval movement.

3. Recovery Automatic Reception

When the watch has stopped as a result of being insufficiently charged, recharge the watch by sufficiently exposing it to light until the second hand moves at one second intervals. Radio waves are then received once automatically when the watch is sufficiently charged.

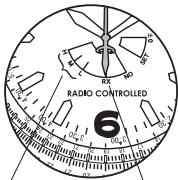
<Reception Procedure>

- Place the watch in a stable location where it is exposed to direct sunlight and where radio waves can be received easily such as by a window with the 9:00 position of the watch facing in the direction of the radio wave transmitter station. Reception of radio waves begins automatically once the watch has been sufficiently charged.

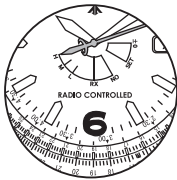
Note: Before using the watch, check the reception result. If radio waves have not been received properly, perform Free Reception to properly receive radio waves.

B. Position of the Shorter End of the Second Hand during Reception (Shorter End of Second Hand)

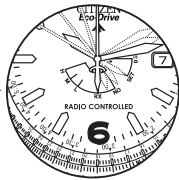
[Reception in Progress]



[Reception in Progress]



[Completion of Reception]



Reception level

Reception in Progress

- The shorter end of the second hand moves to the RX position and begins preparation for receiving radio waves.
- The minute hand stops at the position corresponding to the second hand.

- The shorter end of the second hand moves the position corresponding to the reception level and reception begins.
- During the time radio waves are being received (while the shorter end of the second hand is indicating the reception level), the second hand and minute hand may move to correct the time.

- When reception is completed, each of the hands and the date are corrected automatically and the second hand resumes one-second interval movement.

<Time Required for Receiving Radio Waves>

It takes from about 2 to 13 minutes to receive radio waves. If reception has failed, it may take as much as about 50 seconds for the watch to return to the normal display.

Note: The shorter end of the second hand moves from the RX (Reception in Progress) position to the Reception Level (H, M or L) position while reception is in progress. When reception is completed, the second hand returns to one-second interval movement. Do not move the watch until the second hand returns to one-second interval movement.

* When the watch is receiving the radio wave signal, all of the hands will stop. To check the time, hold button (A) for 2 seconds to cancel radio wave reception. The hands will then return to the current time.

(The time display may shift slightly depending on the reception environment and internal watch processing even if radio waves are properly received.).

C. Confirmation of Reception Result

- When button (A) is pressed once following completion of reception, the shorter end of the second hand rapidly moves to H, M, L or NO enabling you to confirm the reception result.

Note: Free reception begins if button (A) is pressed continuously for 2 seconds or more.

- The reception result is indicated for 10 seconds after which the watch automatically returns to the current time. In addition, the watch can also be returned to the current time by pressing button (A) while the reception result is indicated.

<Reception Result>

- When reception was successful: The time and date are corrected automatically based on the reception result, and the shorter end of the second hand begins one-second interval movement.
- When reception has failed: The watch returns to the time resulting from adding the amount of time required for reception to the time and date display prior to reception, and the second hand begins one-second interval movement.

D. Reception Level and Reception Result

- During the standard time radio waves are being received, the shorter end of the second hand waits at the reception level position corresponding to the reception state to indicate the reception level. Following reception, the reception result can be confirmed by pressing button (A) once.

Reception level	Position of the shorter end of the second hand	Reception level during reception	Reception result after reception
H	42 seconds position	When radio wave reception level is high	When radio waves were received at a high reception level
M	39 seconds position	When radio wave reception level is moderate	When radio waves were received at a moderate reception level
L	36 seconds position	When radio wave reception level is low	When radio waves were received at a low reception level
NO	25 seconds position	-----	When reception has failed

E. General Reference for Receiving Areas

The following provides a general reference for those areas where the watch is able to receive standard time radio waves. However, these areas may vary depending on the time, seasonal variations and weather (presence of lighting, etc.). Since this map only provides a general reference of the standard receiving areas, it may not apply in some particular locations even within the range shown on the map.

Standard time radio wave transmitter station	Location of transmitter station	General reference for areas where radio waves can be received
DCF77	Mainflingen, Germany (25 km southeast of Frankfurt)	Radius of about 900 km from radio wave transmitter station (radio waves may not be able to be received in the vicinity of Lake Lemman)

Although the standard time radio waves used by radio wave watches are transmitted continuously 24 hours a day, transmission may be interrupted for reasons such as maintenance and inspections. This watch will continue to keep the correct time at an accuracy of within ± 15 seconds per month even if it is unable to receive standard time radio waves.



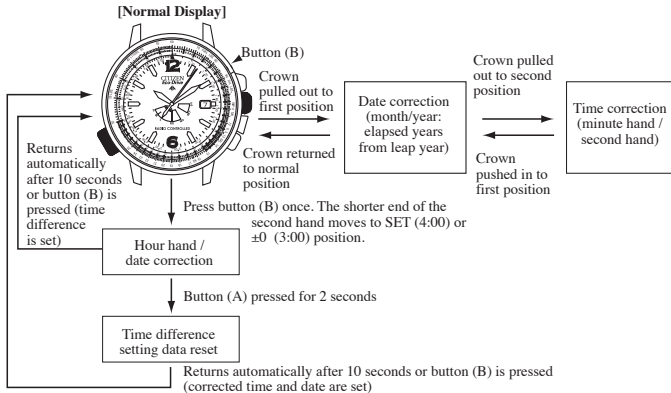
4. Manually Setting the Time and Date

This watch allows the time and date to be set manually when radio waves are unable to be received.

<Screw-Lock Type Crown>

- If the crown of your watch is of the screw-lock type, operate the crown after first loosening the screw locking mechanism by turning the crown to the left. When finished operating the crown, turn the crown to the right while pushing in after having returned it to the normal position and tighten securely.
- After having manually corrected the time and date or after having corrected the time difference, make sure to securely tighten the screw locking mechanism of the crown after returning it to the normal position. Since the watch will continue to be in the hour hand and date correction mode or time difference correction mode, etc. if the screw locking crown is tightened immediately after completion of hand movement, the hour hand will advance causing the set time and so forth to be incorrect.

The correction mode can be changed by operating the crown and buttons in the manner shown below.



A. Correcting the Second Hand and Minute Hand

<Correction Procedure>

(1) Pull the crown out to the second position.

- The second hand rapidly moves forward or backward to the 0 seconds position and stops.
- If the second hand is not stopped at the 0 seconds position, set the reference position by referring to “Setting the Reference Position”.

(2) Turn the crown to set the minute hand.

- When the crown is turned (one click) to the right, the second hand makes one revolution while moving forward (in the clockwise direction), and the minute hand advances by one minute.
- When the crown is turned (one click) to the left, the second hand makes one revolution while moving backward (in the counter-clockwise direction), and the minute hand moves back by one minute.
- Turning the crown continuously (by two clicks or more) causes the second hand and minute hand to move continuously.
- Turn the crown to the left or right to interrupt continuous movement of the hands.

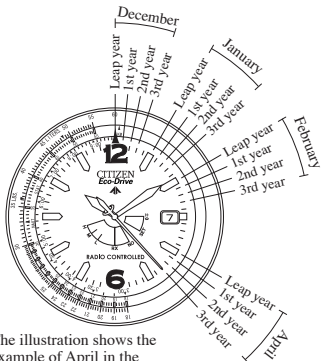
Notes:

- The minute hand moves in coordination with the second hand. The second hand or minute hand cannot be corrected independently.
 - Since the hour hand also moves in coordination with the minute hand, the hour hand can be set by continuously moving the second hand and minute hand. In addition, the date changes in coordination with the hour hand.
 - The watch automatically advances past non-existent days such as February 30 or April 31. While the watch is advancing, the second hand and minute hand wait at the 12:00 position, while the hour hand moves continuously to pass by the non-existent date.
- (3) Return the crown to the normal position in synchronization with a time service.

B. Correcting the Month and Year (No. of Years Since Leap Year)

<Reading the Month and Year>

- The month and year (number of elapsed years from most recent leap year) are indicated with the second hand.
- The second hand indicates January when it points to the area between 1:00 and 2:00, February when it points to the area between 2:00 and 3:00, March when it points to the area between 3:00 and 4:00 and so forth until it points to area between 12:00 and 1:00 to indicate December. In addition, the first graduation of each month zone indicates a leap year, while the second graduation indicates the second year after that leap year.



The illustration shows the example of April in the 3rd year after the most recent leap year.

☆ Reading the Month

January: The January zone is between 1:00 and 2:00

February: The February zone is between 2:00 and 3:00

:

December: The December zone is between 12:00 and 1:00

☆ Reading the Year

Leap year: 1st graduation of each month zone indicates a leap year

1st year after leap year: 2nd graduation of each month zone indicates the second year
after a leap year

2nd year after leap year: 3rd graduation of each month zone indicates the third year
after a leap year

3rd year after leap year: 4th graduation of each month zone indicates the fourth year
after a leap year

<Quick Reference Chart for Number of Years Since Leap Year>

Year	Elapsed year	Year	Elapsed year	Year	Elapsed year
2015	3rd year	2019	3rd year	2023	3rd year
2016	Leap year	2020	Leap year	2024	Leap year
2017	1st year	2021	1st year	2025	1st year
2018	2nd year	2022	2nd year	2026	2nd year

<Correction Procedure>

(1) Pull the crown out to the first position.

- The watch changes to the date correction mode, and the second hand moves to the position of the year and month stored in memory and stops.

(2) Turn the crown to set the month and year.

- Turn the crown (one click) to the right to align the second hand at the position corresponding to the month and year.
- When the crown is turned (one click) to the left, the second moves backwards.
- Turning the crown continuously (by two clicks or more) causes the second hand to move continuously.
- Turn the crown to the left or right to interrupt continuous movement of the second hand.

Examples:

In the case of December in a leap year: Align the second hand at the 0 seconds position. (The area between 12:00 and 1:00 is the December zone. The first graduation of a month zone is a leap year.)

In the case of April in the third year after the most recent leap year: Align the second hand at the 23 seconds position. (The area between 4:00 and 5:00 is the April zone. The fourth graduation of a month zone is the third year after the most recent leap year.)

Note:

- If the second hand is attempted to be corrected by turning by two or more revolutions from month and year when the crown is pulled out to the first position, the second hand stops when it has made two revolutions, and automatically returns to previous indication of the month and year.
- (3) After correcting the month and year, return the crown to the normal position. The second hand returns to the current time and begins to move.

<Setting to a Non-Existent Date>

If the month has been changed after setting the date causing the date to be set to a non-existent date, the date is automatically changed to the first day of the following month when the crown is returned to the normal position from the correction mode.

C. Correcting the Hour Hand and Date

- Since the date changes in coordination with the hour hand, it cannot be corrected independently. The date is changed by continuously advancing the hour hand.
- The hour hand and date can be corrected for 10 seconds after pressing button (B), or for 10 seconds after the hour hand has stopped moving after correcting the hour hand. The watch automatically returns to the normal display if the crown is not operated for 10 seconds.

<Correction Procedure>

- (1) Put the crown in the normal position.
- (2) Press button (B) once.
 - The shorter end of the second hand moves to the SET or ± 0 position to indicate that the watch has entered the time difference correction mode.
- (3) When the crown is turned continuously (by two or more clicks), the hour hand moves continuously.
 - When the crown is turned continuously to the right, the hour hand moves continuously in the forward (clockwise) direction.

- When the crown is turned continuously to the left, the hour hand moves continuously in the backward (counter-clockwise) direction.
- When the hour hand makes two revolutions, the date changes by one day. Continuously advance the hour hand until the correct date is displayed.
- Turn the crown to the left or right to interrupt continuous movement of the hour hand.
- The date changes between about 10:00 PM and 3:00 AM.
- In the case the month is set to a month with less than 31 days, a non-existent date is automatically passed by and the watch indicates the first day of the following month even if the date is changed from the 30th to the 31st.

(4) Turn the crown to set the hour hand.

- When the crown is turned (one click) to the right, the hour hand advances by one hour (clockwise direction).
- When the crown is turned (one click) to the left, the hour hand moves back by one hour (counter-clockwise direction).

Note: When correcting the time, set the time while paying attention to AM and PM.

The time when the date changes is 12:00 AM.

(5) Press button (A) for 2 seconds.

- The time difference setting data is reset and the shorter end of the second hand returns to the ± 0 position. However, the hour hand and date indicate the corrected time and date.

Note: Once the time and date have been set (after the hour hand has finished moving or the date has finished changing), always make sure to press button (A) for 2 seconds within 10 seconds. If the watch is left as is without pressing button (A), the time difference will be set and the next time radio waves are received, the time resulting from adding the amount time used to correct the time to the current time will be displayed.

(6) Press button (B) once.

- The watch returns to the normal time display.

This completes the procedure for manually setting the time and date.

<Times when Calendar Changes During Normal Use>

- Month and year: Changes at 12:00:00 AM on the first day of the month
- Date: Changes between around 10:00 PM and 3:00 AM

5. Time Difference Correction Function

- This watch is equipped with a time difference correction function that lets you set a time difference in one hour units with respect to the received German standard time.
- When radio waves are received after having set a time difference, the time is displayed after correcting the set time difference.
- A time difference display monitor is provided that indicates whether or not a time difference is set with the shorter end of the second hand.

<Time Difference Setting Procedure>

- (1) Put the crown in the normal position.
- (2) Press button (B) once.
 - The shorter end of the second hand moves to the SET or ± 0 position to indicate that the watch has entered the time difference correction mode.
- (3) Turn the crown to correct the time difference.
 - ① When the crown is turned (one click) to the right, the hour hand moves forward (clockwise) by one hour.
 - ② When the crown is turned (one click) to the left, the hour hand moves backward (counter-clockwise) by one hour.

- Although the hour hand moves continuously when the crown is rotated continuously (by two clicks or more), move the hour hand one hour at a time to ensure that the time difference is corrected reliably.
 - Turn the crown one click to the left or right to stop continuous movement of the hour hand.
- (4) Once the time difference has been set, the shorter end of the second hand moves to the SET position.
- The shorter end of the second hand moves to the ± 0 position if a time difference has not been set.
- (5) Press button (B) once after setting the time difference.
- This completes the procedure for setting a time difference. The second hand returns to one-second interval movement.

Notes:

- Correct the time difference while being careful not to mistake AM, PM or the date.
- Time difference can be corrected for 10 seconds after pressing button (B) or for 10 seconds after the hour hand has stopped moving after correcting the time difference.
- The watch automatically returns to the normal display if the crown has not been operated for 10 seconds after pressing button (B) or 10 seconds after correcting the time difference.

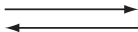
[Normal Display]



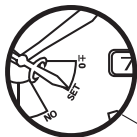
1-second interval
movement

Button (B)

Press button (B) once



Returns automatically
after 10 seconds or when
button (B) has been
pressed



[Time Difference
Correction Mode]



Turn the crown to set
the time difference

In the case of a screw lock type crown, first loosen the screw, and after you finish operating the crown, securely refighten the screw.

Example: Setting to London time when the time in Germany is 10:10 AM

The time difference between London and Germany is -1 hour. When the time in Germany is 10:10 AM, the time in London is 9:10 AM.

<Setting the Time Difference in this Case>

- (1) Put the crown in the normal position.
- (2) Press button (B) once.
 - The shorter end of the second hand moves to the ± 0 position indicating that the watch has entered the time difference correction mode.
- (3) Turn the crown to the left to turn back the hour hand by one hour.
 - Once a time difference has been set, the shorter end of the second hand moves to the SET position.
- (4) After setting the time difference, press button (B) once.
 - This completes setting of the time difference. The second hand returns to one-second interval movement.

<Confirmation of Time Difference Setting>

- When the crown is put in the normal position and button (B) is pressed once, the shorter end of the second hand moves to the SET or ± 0 position to indicate the time difference setting status.

Note: If the crown is turned while the time difference setting status is displayed, the hour hand will move and a time difference will be set that causes the time to change.

- To return to the normal display, either press button (B) again or simply wait for 10 seconds.

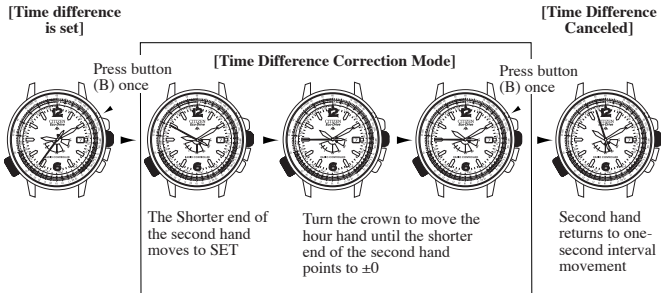
- **When the shorter end of the second hand points to SET: Time difference is set**
- **When the shorter end of the second hand points to ± 0 : Time difference is not set.**

<Canceling Time Difference>

Cancel the time difference by moving the hour hand in the opposite direction of that when the time difference was set.

- When the time difference has been set ahead (forward direction): Turn back the hour hand by the number of hours it was advanced.
 - When the time difference has been set back (reverse direction): Advance the hour hand by the number of hours it was turned back.
- (1) Put the crown in the normal position and press button (B) once.
 - The shorter end of the second hand moves to the SET position and the watch enters the time difference correction mode.
 - (2) Turn the crown to move the hour hand until the shorter end of the second hand points to ± 0 .
 - When the crown is turned (one click) to the right, the hour hand turns forward (clockwise) by one hour, and when turned (one click) to the left, the hour hand turns backward (counter-clockwise) by one hour.
 - The date setting changes if the hour hand is moved in the same direction as when the time difference was set. Always make sure to move the hour hand in the opposite direction in which the time difference returns to zero.

- (3) Either press button (B) again or simply wait for 10 seconds, after which time the watch automatically returns to the normal display.
- The time difference setting is now canceled and the second hand returns to one-second interval movement.



6. Eco-Drive Watch Handring Notes

This watch uses a rechargeable cell to store electrical energy. Once fully charged, this watch will continue to keep the correct time for about 6 months during normal use (when the Power Save function is not activated). Furthermore, the watch will keep the correct time for about 2 years when the Power Save function is activated.

<For Optimum Use of this Watch>

In order to use this watch comfortably, try to keep the watch charged at all times. Charge the watch by exposing the watch dial (containing the solar cell) to direct sunlight or light from a fluorescent lamp. The watch will not be damaged no matter how much it is charged.

Expose the watch dial (containing the solar cell) toward the light when charging.

<Try to Keep the Watch Charged at all Times>

- If you wear long sleeves, the fabric may cover the watch and prevent it from being exposed to light resulting in the watch becoming insufficiently charged. During the winter months in particular, it is recommended to charge the watch by exposing the dial to direct sunlight about once a month.
- When the watch is removed, try to place it in as bright a location as possible such as near a window so that sunlight shines onto the watch dial. This will keep the watch charged continuously and enable it to continue to run properly at all times.

7. Unique Functions of Eco-Drive Watches

When the watch becomes insufficiently charged, the display changes as shown below.

[Normal Display]



When reception is successful *2

[Recovery Automatic Reception]



When the watch becomes insufficiently charged due to not exposing the dial (solar cell) to light

[Insufficient Charge Warning Display]

When sufficiently charged by exposing the dial (solar cell) to light *1

Watch stops due to being insufficiently charged

If insufficiently charged state continues for 6 days or more



2-second interval movement

When watch becomes sufficiently charged

- * 1: If the watch has stopped as a result of being insufficiently charged, a minimum of 30 minutes are required until recovery automatic reception even if the watch is exposed to light.
- * 2: If recovery automatic reception has failed, the watch begins to run after returning to the time and date when the watch stopped as a result of being insufficiently charged. In this case, although the second hand moves at one second intervals, since the time is incorrect, first set the time and date manually or by free reception before using the watch.

A. Power Save Function

<Power Save>

When the watch is stored in a dark location, the solar cell not exposed to light and power is not generated continuously for 1 week or more, the power saving function is activated and some features of the watch will be deactivated. The power saving function will be automatically canceled when the watch face is exposed to light. Be sure to expose the watch to light until the hands begin moving.

<Canceling Power Save>

The power save function is canceled when power generation is resumed by exposing the solar cell to light.

- When the power save function is canceled, each hand rapidly returns to the current time (by moving in the clockwise or counter-clockwise direction) and the watch begins one-second interval movement.
- Two-second interval movement begins if the watch is insufficiently charged. When this happens, sufficiently charge the watch so that it returns to one-second interval movement.

Notes:

- Although regular automatic reception is performed while the watch is in the Power Save mode, radio waves may not be able to be received depending on the storage environment. Check the reception result by pressing button (A) after the Power Save function has been canceled. If the reception result is “No”, perform free reception before using.
- The Power Save function cannot be canceled by operating the crown or buttons. Cancel by exposing the watch to light.

B. Insufficient Charge Warning Function (Second hand moves at two-second intervals)

When the capacity of the rechargeable cell becomes low as a result of not exposing the solar cell to light, the second hand changes from one-second interval movement to two-second interval movement (insufficient charge warning function) to indicate that the watch is insufficiently charged. Although the watch continues to run normally at this time, after about 6 days have passed since the start of two-second interval movement, the watch ends up stopping as a result of being insufficiently charged. Promptly recharge the watch by exposing to direct sunlight so that the second hand returns to one-second interval movement.



Two-second interval movement

Notes:

- The time and date cannot be corrected manually during two-second interval movement.
- Regular automatic reception and free reception are also not available.

C. Overcharging Prevention Function

When the rechargeable cell becomes fully charged by exposing the dial (solar cell) to light, the overcharging prevention function is activated automatically to prevent the battery from being charged further. This lets you expose the watch to light without worrying about overcharging causing damage to the watch.

8. General Reference for Charging Times of Eco-Drive Watches

Below are the approximate charging times when exposing to light continuously. Please use this table as a reference only.

Environment	Illuminance (lx)	Charging time (approx.)		
		To work for one day	To start working normally when the cell is discharged	To become fully charged when the cell is discharged
Outdoors (sunny)	100 000	4 minutes	2 hours	10 hours
Outdoors (cloudy)	10 000	10 minutes	13 hours	45 hours
20 cm (8 inches) away from a fluorescent lamp (30 W)	3 000	35 minutes	45 hours	150 hours
Interior lighting	500	4 hours	–	–

- **Exposing to direct sunlight is recommended to charge your watch.**

A fluorescent lamp or interior lighting does not have sufficient illumination to charge the rechargeable cell efficiently.

Charging time to fully charge: Time required for recharging the watch from the stopped state when insufficiently charged to fully charged.

Charging time for 1 day of operation: Time required for recharging the watch to run for 1 day.

Note:

Once fully charged, the watch has a continuous operating time of about six months without further charging. When the Power Save feature has been activated, the watch will continue to keep the correct time for about two years. However, if the watch stops running as a result of being insufficiently charged, a considerable amount of time is required to charge so that it starts running again as is indicated in the table. It is therefore recommended to charge the watch at least once a month by exposing to direct sunlight.

9. Eco-Drive Watch Handling Precautions

CAUTION : Charging Precautions

- Avoid charging the watch at high temperatures (about 60°C / 140°F or higher) since allowing the watch to reach a high temperature during charging can cause deformation or discoloration of the dial, solar cell and other external components as well as a malfunction of mechanical components.

Examples: Charging by placing the watch too close to a light source that may become hot such as an incandescent lamp or halogen lamp, or charging by placing the watch on an automobile dashboard that can easily reach a high temperature.

- When charging the watch with an incandescent lamp, halogen lamp or other light source that may reach a high temperature, always make sure to place the watch at least 50 cm (20 in) away from the light source to prevent the watch from reaching a high temperature.

CAUTION : Handling of Rechargeable Cell

- Never attempt to remove the rechargeable cell from the watch. If the rechargeable cell must unavoidably be removed, store it out of the reach of small children to prevent accidental swallowing.
- If the rechargeable cell should happen to be swallowed, consult a physician immediately and seek medical attention.

CAUTION : Only Use the Specified Rechargeable Cell

- Never use an rechargeable cell other than the genuine rechargeable cell used in this watch. Even if another type of rechargeable cell is installed in the watch, the watch structure does not permit its operation. In cases in which a different rechargeable cell such as a silver battery is forcibly installed in the watch and charged, overcharging may occur that will eventually cause the rechargeable cell to rupture. This can result in the risk of the watch being damaged or injury to the wearer. When the rechargeable cell is replaced, always make sure to use the specified rechargeable cell.

Replacing the Rechargeable Cell

- Unlike ordinary silver batteries, the rechargeable cell used in this watch does not have to be periodically replaced due to repeated charging and discharging.

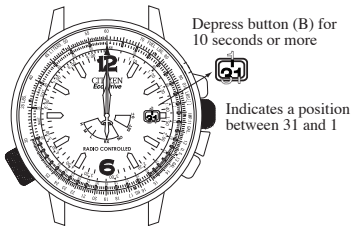
10. Setting the Reference Position

Check the reference position if the watch does not indicate the correct time even after having received radio waves. In the case the reference position (0 position/12:00 position), which serves as the reference for all watch functions, has shifted, check the reference position of each hand using the procedure described below.

Setting the Reference Position

A. Checking the Reference Position

- (1) Press button (B) for at least 10 seconds with the crown in the normal position, and once the second hand begins to move rapidly, release button (B).
 - The hour hand moves to the reference position after the second hand and minute hand have moved to the reference position.
 - The hour hand continues to advance until the date is displayed between 31 and 1.
 - Since the date changes in coordination with the hour hand, it displays a position between the 31 and 1 and stops.
- (2) When button (B) is pressed after reference position is indicated, the hands rapidly return to the current time. Alternatively, the watch will automatically return to the current time if the buttons or crown are not operated for 30 seconds or more.



<Reference Position of Each Hand and Date>

Second hand, minute hand, hour hand:
12:00 position (0:00:00)

Date: Between 31 and 1

• **Set the reference position if any of the hands or date do not indicate the reference position.**

B. Setting the Reference Position

- (1) Press button (B) for at least 10 seconds with the crown in the normal position, and when the second hand begins to move rapidly, release button (B).
 - The hour hand moves to the reference position after the second hand and minute hand have moved to the reference position.
- (2) Pull out the crown to the first position and turn the crown to set the date between 31 and 1 and set the hour hand to 12:00.

- Turning the crown continuously (by two clicks or more) causes the hour hand to move continuously. When the hour hand makes two revolutions, the date changes by one day. Continuously advance the hour hand until the date is displayed between 31 and 1. Turn the crown to the left or right to interrupt continuous movement of the hour hand.
 - After the date displays between 31 and 1, slowly turn the crown until the hour hand indicates 12:00.
- (3) Pull out the crown to the second position and turn the crown to set the second hand and minute hand to 00 minutes 00 seconds.
- Turning the crown (by one click) causes the second hand to advance by one second, and the minute hand to advance in coordination with the second hand. Turn the crown to the right or left to set the second hand and minute hand at 00 minutes 00 seconds.
 - Turning the crown continuously (by two clicks or more) causes the second hand and minute hand to move continuously. Turn the crown to the left or right to interrupt continuous movement of the second hand and minute hand.
- (4) Return the crown to the normal position and press button (B).
- Each hand and the date rapidly return to the current time.
- * This completes setting of the reference position. After setting the reference position, always make sure to perform free reception before using the watch.

<Changing the Mode when Setting the Reference Position>

[Normal Operation]



Press button (B) or returns automatically after 30 second

Press button (B) for 10 seconds or more

[Reference Position Confirmation Mode]



Crown to first position

Crown to normal position

[Reference Position Correction Mode]

(correction of hour hand and date)



Crown to second position

Crown to first position

[Reference Position Correction Mode]

(correction of second and minute hands)



11. All-Reset

The watch display may become abnormal due to the effects of static electricity or a strong shock. If this happens, perform the all-reset procedure and then set the reference position.

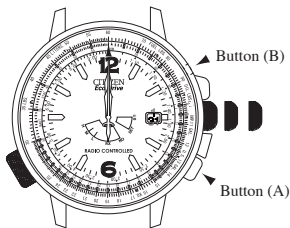
A. All-Reset Procedure

- (1) Pull out the crown to the second position.
 - The second hand rapidly moves to the reference position stored in memory and stops.
- (2) Press buttons (A) and (B) simultaneously.

This completes the all-reset procedure. Always make sure to set the reference position according to “B. Setting the Reference Position after All-Reset” after performing the all-reset procedure.

Note:

- Do not push in the crown to the normal position until the reference position has been set after performing the all-reset procedure.



B. Setting the Reference Position after All-Reset

- (1) Align the second hand and minute hand at 00 minutes 00 seconds.
 - Turning the crown (by one click) causes the second hand to advance by one second, and the minute hand to advance in coordination with the second hand. Turn the crown to the right or left to set the second hand and minute hand at 00 minutes 00 seconds.
 - Turning the crown continuously (by two clicks or more) causes the second hand and minute hand to move continuously. Turn the crown to the left or right to interrupt continuous movement of the second hand and minute hand.
- (2) Push in the crown from the second position to the first position, set the date between 31 and 1 and set the hour hand to 12:00.
 - Turning the crown continuously (by two clicks or more) causes the hour hand to move continuously. When the hour hand makes two revolutions, the date changes by one day. Continuously advance the hour hand until the date is displayed between 31 and 1. Turn the crown to the left or right to interrupt continuous movement of the hour hand.
 - After displaying the date between 31 and 1, slowly turn the crown until the hour hand indicates 12:00.

Note: If the crown is accidentally pushed in too far to the normal position when the crown is pushed in from the second position to the first position, since this will end setting of the reference position causing the hands to move normally, it will not be possible to set the reference position for the hour hand and date. If the crown has returned to the normal position, set the reference position by referring to “10. B. Setting the Reference Position”. Alternatively, repeat the all-reset procedure again.

(3) Return the crown to the normal position.

- When the reference position is set after performing the all-reset procedure, the second hand begins one-second interval movement a few seconds after the crown is returned to the normal position. Do not pull out the crown until the second hand begins one-second interval movement.

(4) Perform free reception or set the time and date manually.

<Cautions Following All-Reset>

- After performing the all-reset procedure, the time will not be displayed correctly due to the reference position having shifted unless the reference position is set with the crown at both the first and second positions. Always make sure to set the reference position.
- After performing the all-reset procedure, the time shown after setting the reference position is 0:00 AM. When setting the time manually, set both the time and date while paying attention to AM and PM so that the time is set correctly.

12. Troubleshooting

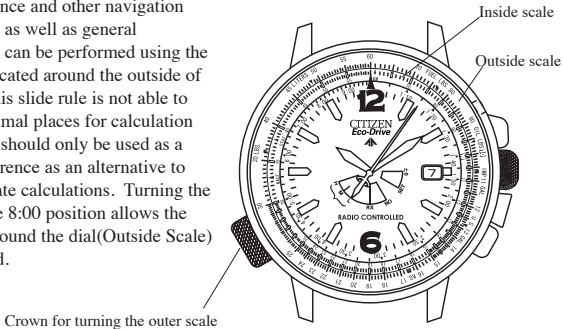
Radio Wave Reception Function: Try checking the following when you think a problem has occurred.

Problem	Check Items	Corrective Actions
Watch does not begin reception	· Does the shorter end of the second hand move to “RX: Reception in Progress”?	Continuously depress button (A) and release when the shorter end of the second hand points to the RX position.
Unable to receive radio waves (even within a receivable area)	· Are there objects that block radio waves or generate noise nearby? · Are radio waves attempted to be received away from a window?	· Try receiving radio waves while facing the 9:00 position of the watch towards a window while avoiding objects that block radio waves or generate noise. Try changing the direction, location and angle of the watch several times so that the shorter end of the second hand points to a reception level to find the location at which radio waves are received easily. (Refer to the sections entitled, “2.A.For Good Reception” and “Locations where Reception may be Difficult” of this manual.

<p>Unable to receive radio waves even though the shorter end of the second hand points to RX</p>	<ul style="list-style-type: none"> · Does the shorter end of the second hand still indicate a reception level of H, M or L during reception? 	<ul style="list-style-type: none"> · Wait until reception is completed (until the second returns to one-second interval movement)
<p>Time does not match time service even though radio wave can be received</p>	<ul style="list-style-type: none"> · Has the reference position been set correctly? · Has a time difference been set? 	<ul style="list-style-type: none"> · Check the reference position. If the reference position is not correct, refer to the section entitled, “10. Setting the Reference Position” of this manual and reset the reference position. · Check whether or not a time difference has been set. Correctly reset the time difference if only the hour hand has shifted in one hour units.

13. Using the Slide Rule

Flying distance and other navigation calculations as well as general calculations can be performed using the slide rule located around the outside of the dial. This slide rule is not able to display decimal places for calculation results, and should only be used as a general reference as an alternative to more accurate calculations. Turning the crown at the 8:00 position allows the slide rule around the dial (Outside Scale) to be rotated.

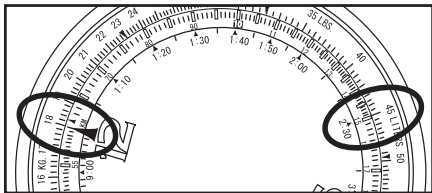


A. Navigation Calculator

1. Calculation of time required

Question: How long does it take an airplane flying at 180 knots to fly a distance of 450 nautical miles?

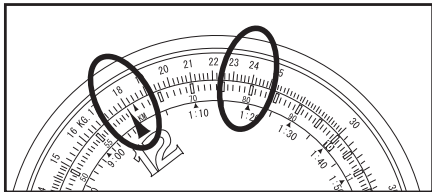
Solution: Set the 18 mark on the outside scale to the SPEED INDEX (▲). At this time, the point on the inside scale that is aligned with 45 on the outside scale indicates (2:30), and the answer is 2 hours and 30 minutes.



2. Speed (Ground Speed) Calculation

Question: What is the speed (ground speed) of an airplane when it takes 1 hour and 20 minutes to fly a distance of 240 nautical miles?

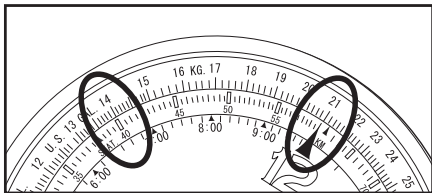
Solution: Align the 240 on the outside scale with 1:20 (80) on the inside scale. At this time, 180 is aligned with the SPEED INDEX (▲) on the inside scale, and the answer is 180 Kt.



3. Flying distance calculation

Question: What is the flying distance traveled in 40 minutes at a speed of 210 knots?

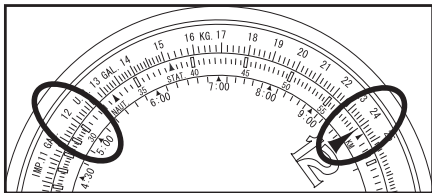
Solution: Align the 21 on the outside scale with the SPEED INDEX (▲) of the inside scale. The 40 of the inside scale is now pointing to 14, and the answer is 140 nautical miles.



4. Fuel consumption rate calculation

Question: If 120 gallons of fuel are consumed in 30 minutes' flying time, what is the fuel consumption rate?

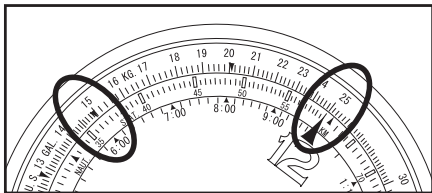
Solution: Align the 12 of the outside scale with 30 of the inside scale. The SPEED INDEX (▲) now points to 24, and the answer is 240 gallons per hour.



5. Fuel consumption calculation

Question: How much fuel is consumed in 6 hours at a fuel consumption rate of 250 gallons per hour?

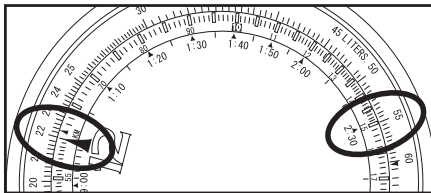
Solution: Align the 25 of the outside scale with the inside scale's SPEED INDEX (▲) of the inside scale. The 6:00 is aligned with 15, and the answer is 1500 gallons.



6. Maximum flying hours

Question: With a fuel consumption rate of 220 gallons per hour and a fuel supply of 550 gallons, what is the maximum number of flying hours?

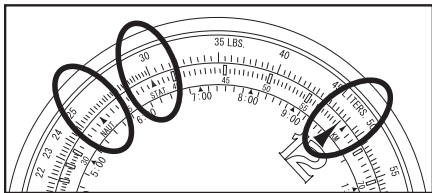
Solution: Align the 22 of the outside scale with the inside scale's SPEED INDEX (▲) of the inside scale. The 55 of the outside scale is now aligned with 2:30, and the answer is 2 hours and 30 minutes.



7. Conversion

Question: How do you convert 30 miles into nautical miles and kilometers?

Answer: Align the 30 on the outside scale with the STAT (▲) mark on the inside scale. At this time, 26 nautical miles is aligned at the NAUT (▲) mark on the inside scale, while the answer of 48.2 kilometers is aligned at the kilometers on the inside scale.

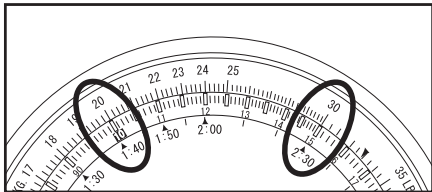


B. General calculation functions

1. Multiplication

Question: 20×15

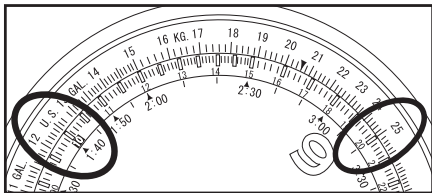
Solution: Align 20 on the outside scale with 10 on the inside scale, and read the outside scale at the 30 mark which is aligned with 15 of the inside scale. Figure the number of decimal places, and the answer is 300. Remember: decimal places cannot be read on this scale.



2. Division

Question: 250/20

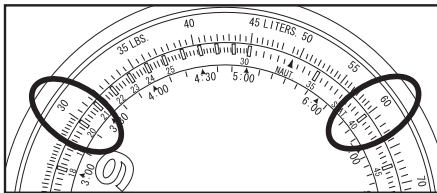
Solution: Align 25 on the outside scale with 20 on the inside scale. On the outside scale read the 12.5 mark that is aligned with 10 on the inside scale. figure the number of decimal places, and the answer is 12.5.



3. Reading Ratios

Question: $30/20 = 60/x$

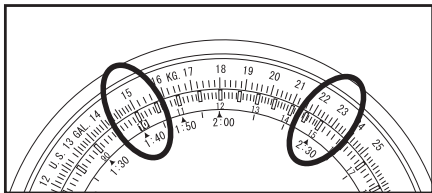
Solution: Align 30 on the outside scale with 20 on the inside scale. At this time, the answer of 40 can be read from the inside scale corresponding to 60 on the outside scale. In addition, the ratio of the value on the outside scale to the value on the inside scale is 30:20 at all positions on the scales.



4. Determining Square Root

Question: What is the square root of 225?

Solution: Rotate the scales so that the value on the inside scale corresponding to 22.5 on the outside scale is equal to the value on the outside scale corresponding to 10 on the inside scale, and read off the answer of 15 at that location.



14. Precautions

CAUTION: Water-resistance performance

There are several types of water-resistant watches as shown in the following table.

The unit "bar" is roughly equal to 1 atmosphere.

* WATER RESIST (ANT) xx bar may also be indicated as W.R. xx bar.

Indication		Specifications
Dial	Case (Case back)	
WATER RESIST or no indication	WATER RESIST(ANT)	Water-resistant to 3 atmospheres
WR 50 or WATER RESIST 50	WATER RESIST(ANT) 5 bar or WATER RESIST(ANT)	Water-resistant to 5 atmospheres
WR 100/200 or WATER RESIST 100/200	WATER RESIST(ANT) 10 bar/20 bar or WATER RESIST(ANT)	Water-resistant to 10/20 atmospheres



Minor exposure to water (washing face, rain, etc.)

OK

OK

OK

For correct use within the design limits of the watch, confirm the level of water-resistance of your watch, as indicated on the dial and case, and consult the table.

Examples of use



Moderate exposure to water (washing, kitchen work, swimming, etc.)



Marine sports (skin diving)



Scuba diving (with air tank)



Operation of the crown or button with moisture visible

NO

NO

NO

NO

OK

NO

NO

NO

OK

OK

NO

NO

- **Water-resistance for daily use (to 3 atmospheres):** This type of watch is water-resistant to minor exposure to water. For example, you may wear the watch while washing your face; however, it is not designed for use underwater.
- **Upgraded water-resistance for daily use (to 5 atmospheres):** This type of watch is water-resistant to moderate exposure to water. You may wear the watch while swimming; however, it is not designed for use while skin diving.
- **Upgraded water-resistance for daily use (to 10/20 atmospheres):** This type of watch may be used for skin diving; however, it is not designed for scuba or saturated diving using helium gas.

CAUTION:

- Be sure to use the watch with the crown pressed in (normal position). If your watch has a screw-type crown or button, be sure to tighten the crown completely.
- Do NOT operate the crown or button with wet fingers or when the watch is wet. Water may enter the watch and compromise water-resistance.
- If the watch is used in seawater, rinse with fresh water afterward and wipe with a dry cloth.
- If moisture has entered the watch, or if the inside of the crystal is fogged up and does not become clear within a day, immediately take the watch to your dealer or Citizen Service Center for repair. Leaving the watch in such a state will allow corrosion to form inside.

- If seawater enters the watch, place the watch in a box or plastic bag and immediately take it in for repair. Otherwise, pressure inside the watch will increase, and parts (crystal, crown, buttons, etc.) may come off.

CAUTION: Keep your watch clean.

- Leaving dust and dirt deposited between the case and crown may result in difficulty in pulling the crown out. Rotate the crown while in its normal position from time to time to loosen dust and dirt and then brush it off.
- Dust and dirt tend to be deposited in gaps in the back of the case or band. Deposited dust and dirt may cause corrosion and soil your clothing. Clean the watch occasionally.

Cleaning the Watch

- Use a soft cloth to wipe off dirt, perspiration and water from the case and crystal.
- Use a soft, dry cloth to wipe off perspiration and dirt from the leather band.
- To clean a metal, plastic, or rubber watchband, wash away dirt with water. Use a soft brush to remove dust and dirt jammed in the gaps in the metal band.

NOTE: Avoid using solvents (thinner, benzine, etc.), as they may damage the finish.

CAUTION: Operating environment

- Use the watch within the operating temperature range specified in the instruction manual. Using the watch where temperatures are outside the specified range may result in deterioration of functions or even stoppage of the watch.

- Do NOT use the watch in places where it is exposed to high temperature, such as in a sauna.

Doing so may result in a burn.

- Do NOT leave the watch in a place where it is exposed to high temperature, such as the glove compartment or dash-board of a car.

Doing so may result in deterioration of the watch, such as deformation of plastic parts.

- Do NOT place the watch close to a magnet.

Timekeeping will become inaccurate if you place the watch close to magnetic health equipment such as a magnetic necklace, a magnetic latch of a refrigerator door, handbag clasp or the earphone of a mobile phone. If this has occurred, move the watch away from the magnet and reset the time.

- Do NOT place the watch close to household appliances that generate static electricity. Timekeeping may become inaccurate if the watch is exposed to strong static electricity, such as is emitted from a TV screen.
- Do NOT subject the watch to a strong shock such as dropping it onto a hard floor.

- Avoid using the watch in an environment where it may be exposed to chemicals or corrosive gases.

If solvents, such as thinner and benzine, or substances containing such solvents come in contact with the watch, discoloration, melting, cracking, etc. may result. If the watch comes in contact with mercury used in thermometers, the case, band or other parts may become discolored.

Periodical inspections

Your watch requires inspection once every two or three years for safety and long use.

To keep your watch water resistant, the packing needs to be replaced regularly.

Other parts are required to be inspected and replaced as necessary.

Ask for Citizen genuine parts during replacement.

15. Specifications

1. Model: H46 *

2. Type: Analog solar-powered watch

3. Timekeeping accuracy: Within ± 15 seconds per month on average (when worn at normal temperatures of $+5^{\circ}\text{C}$ to $+35^{\circ}\text{C}$ / 41°F to 95°F and when not receiving radio waves)

4. Operating temperature range: -10°C to $+60^{\circ}\text{C}$ / 14°F to 140°F

5. Display functions:

- Time: Hours, minutes, seconds (the hour hand advances every 2 minutes)
- Date

6. Additional functions:

- Radio wave receiving function (regular automatic reception, free reception, recovery automatic reception)
- Reception status display function
- Reception result confirmation function
- Reception level display function
- Time difference setting function

- Solar power generation function
- Power save function
- Insufficient charge warning function
- Slide Rule function

7. Continuous operation times:

- Time until watch stops without charging after being fully charged:
 - : Approx. 2 years (when power save function is operating)
 - : Approx. 6 months (when power save function is not operating)
- Insufficient charge warning display to stopped: Approx. 6 days

8. Battery: Rechargeable cell, 1 pc.

* Specifications are subject to change without notice.

European Union directives conformance statement



Hereby, CITIZEN WATCH CO.,LTD. declares that this product is in compliance with the essential requirements and other relevant provisions of directive 2014/53/EU and all other relevant EU directives.

You can find your product's Declaration of Conformity at "<http://www.citizenwatch-global.com/>".

Model No.AS2 *

Cal.H46 *

CTZ-B8079 ⑫