## Features



The combination watch of the analog and digital display



Lap time measurement per 1/1000 second (Image 18) with the lap recording function (Image 22)



Solar-powered no need for battery replacement



World time—easy to see the time of 43 cities all over the world (IMI) page 24)



This watch is powered by light.

If the watch is not exposed to light for a long time, it stops moving. See page 9 for charging the energy storage cell.

You can view explanations of the operation of this watch by accessing the Citizen web site and viewing the "Service&Support." **URL: http://www.citizenwatch.jp/** 

#### **Race mode quick guide**

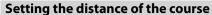
Button B

Crown

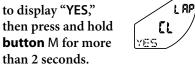
Button A

Button M

"RAC"



- **1.** Press **button** M to change the mode to Race. ("RAC")
- **2.** Pull out **the crown** to position 1.
- **3.** Press button A to display "YES," then press and hold



- 4. Press button A or B to adjust the current digit, and press button M to go to the next one.
- **5.** Push in **the crown** to position 0.

#### **Measuring lap times**

- **1.** Press **button** M to change the mode to Race. ("RAC")
- **2.** Press **button** B to start measurement.
- **3.** Press **button** A to measure lap times.
  - Each time you press **button** A, a lap time and the speed are displayed.
  - The records are stored in the Lap Record mode.
- **4.** Press **button** B to stop the measurement.

#### **Checking the records**

**1.** Press **button** M to change the mode to Lap Record. "**FAS**" is displayed.



**2.** Press **button** A to change the record displayed.

Each time you press **button** A, following records are displayed: the best time ("**FAS**")=the average time ("AVG")=the worst time ("LAT")=all lap times from old to new.

For detail, see page 18 for the Race mode and page 22 for the Lap Record mode.

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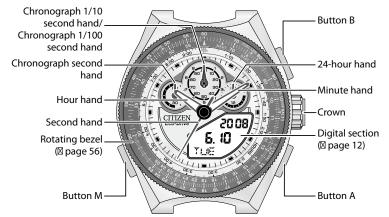
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## 🕑 Before use

#### 7 Part names

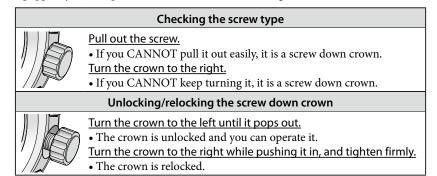


The illustrations in this instruction manual may differ from the actual appearance of your watch.

#### 6

#### 7 How to use the screw down crown

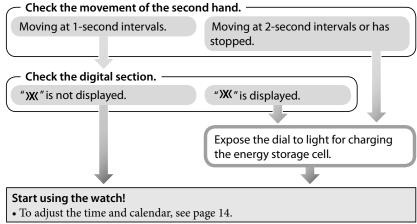
The screw down crown is equipped on some models. When a normal crown is equipped, you can operate the crown without unlocking it.



#### Before use

#### 7 Checking the energy

Check your watch as follows before using it:



#### 8

#### 7 How to charge the energy storage cell

This watch has an energy cell which is charged by exposing the dial to light such as direct sunlight or fluorescent lamps.

#### To obtain the best performance:

- Expose the dial to direct sunlight for several hours at least once a month.
- After taking off the watch, put it where the dial is exposed to bright light, such as by a window.
- Before storing the watch in a dark place for an extended period of time, fully charge the energy storage cell.



#### Caution

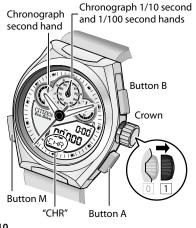
- When the watch is covered with long sleeves, for example, the energy cell may not be charged sufficiently. Try to keep the watch exposed to light even when wearing the watch.
- Do not charge the energy cell at a high temperature (about 50°C/122°F or) higher )such as on the dashboard.

See page 32 for charging time.

#### Before use

#### 7 Checking the reference position

Check whether the reference position is correct or not.



- Check and adjust the reference position also in the following cases:
- The correct time is not displayed on the analog section even after the time setting.
- Each chronograph hand does not point to "0/.00" or "60" even after resetting the measurement time.
- **1.** Press **button** M to change the mode to Chronograph. ("CHR")

**2.** Pull out the crown to position 1.

> "**0**" is displayed and all hands move to indicate the current reference position.

reference position is incorrect.

The current time is indicated on the

**4.** Push in **the crown** to position

0 to finish the check.

analog section.

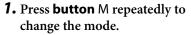
- 00 00) 00000 -0-
- **3.** Check the reference position. • Go to step **3** on page 40 if the
  - 1 Chronograph second hand points to "60."

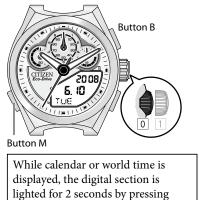
**Correct reference position** 

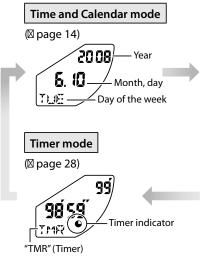
- 2 Chronograph 1/10 second and 1/100 second hands point to "0/.00."
- 3 Hour, minute, and second hands point to 12:00.
- 4 24-hour hand points to "24."

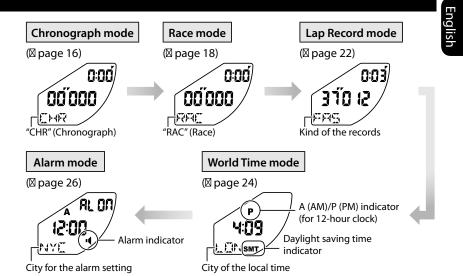
10

## Changing the mode of the digital section









12

button B.

## Setting the time and calender—Time and Calendar mode



Refer to "Table of city names" (⊠ page 54) for the selectable cities. 14

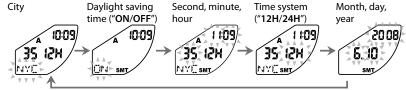
- The time on the digital section set here is the basic time of the watch—the home time.
- The analog section indicates the home time corresponding to the setting.
- **1.** Press **button** M to change the mode to Time and Calender.

#### **2.** Pull out **the crown** to position 1.

The second hand points to the 0 second position, and all hands stop moving. The city name starts flashing.



**3.** Press **button** M to select an item, and press **button** A or B to adjust the selected item.



- If you press and hold **button** A or B, the item changes continuously.
- Use **button** A for following items: daylight saving time, second, and time system.

#### **4.** Push in **the crown** to position 0 after the adjustment.

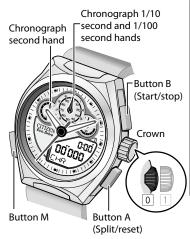
The hands move to indicate the adjusted time.

- Even if you push in **the crown** to position 0 before finishing setting, adjustment you have set is stored.
- You cannot use any button while the hands move.

15

## Solution: Second Second

You can measure times up to 23 hours 59 minutes 59 seconds 999, per 1/1000 second.



- When the measurement time passes over 23 hours 59 minutes 59 seconds 999, the measurement stops and the measurement time is reset.
- When 60 seconds elapsed after starting /restarting the measurement, the chronograph 1/10 second and 1/100 second hands stop at "0/.00."
- After the chronograph 1/10 second and 1/100 second hands stop, you can change the mode with the measurement continued (other than the Race mode and Lap Record mode).

- **1.** Press **button** M to change the mode to Chronograph. ("CHR")
  - If the chronograph hands do not point to "0/.00" or "60," adjust the reference position. (Øpage 39)

#### **2.** Press **button** B to start measurement.

• To display a split time, press **button** A. It is displayed for 10 seconds.



00'000

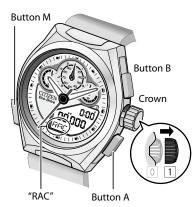
EHR.

#### **3.** Press **button** B to stop the measurement.

- To restart the measurement, press **button** B again.
- To reset the measurement time, press **button** A while the measurement is stopped.

## 😪 Measuring lap times—Race mode

You can measure lap times and the average speed of each lap. The records of the latest 20 laps are stored in the Lap Record mode. (🛛 page 22)



#### 7 Setting the distance of the course

- To calculate speed, set the distance of the course. (Setting range: 0 to 99.999 km/mile)
- When you set the distance, records in the Lap Record mode are deleted. To cancel the setting, push in **the crown** to position 0 before step **3** on page 19.
- **1.** Press **button** M to change the mode to Race. ("RAC")

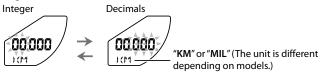
- **2.** Pull out **the crown** to position 1.
- **3.** Press **button** A to display "YES," then press and hold **button** M for more than 2 seconds.

The past lap records are deleted and the last distance setting is displayed.



English

**4.** Press **button** A or B to adjust the current digit, and press **button** M to go to the next one.

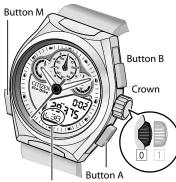


• If you press and hold **button** A or B, the digit changes continuously.

**5.** Push in **the crown** to position 0 after the adjustment.

#### Measuring lap times—Race mode

#### 7 Measuring lap times



Lap number

- The records of the latest 20 laps are stored in the Lap Record mode.
   (☑ page 22)
- Set the distance of the course to calculate speed. (Deage 18)
- The largest lap number is "99." It returns to "01" as you take the 100th lap time.
- You cannot change the mode during the measurement.

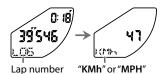
**1.** Press **button** M to change the mode to Race. ("RAC")

0:00/

**2.** Press **button** B to start measurement.

**3.** Press **button** A to measure lap times.

Each time you press **button** A, the lap time and its number (**"01"** to **"99"**) are displayed for 7 seconds, then the speed for three seconds.



(The unit is different

depending on

models.)

• The maximum speed displayed is "999." If the speed is beyond 999, "---" is displayed.

#### **4.** Press **button** B to stop the measurement.

Following records are displayed: lap time and its number, speed, and the total of elapsed time.

- To restart the measurement, press **button** B again.
- To reset the measurement time, press **button** A while the measurement is stopped.

#### To check the records

Change the mode to Lap Record. (Dage 22)

## Schecking the records of lap times—Lap Record mode

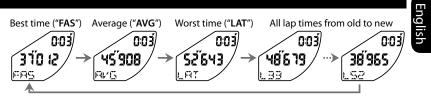
After the lap measurement, you can check the records of the latest 20 laps.



#### 7 Checking the records

The best time, the average time, and the worst time are displayed, calculated from the stored records.

- Press button M to change the mode to Lap Record.
   "FAS" is displayed.
   When no record is stored, ""
  - "--" is displayed.
- **2.** Press **button** A to change the record displayed.



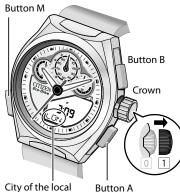
- If you press **button** B while a lap time is displayed, the speed is displayed for three seconds.
- "FAS" or "LAT" and the lap number are displayed alternately.
- 7 Deleting the records
- **1.** Press **button** M to change the mode to Lap Record.
- **2.** Pull out **the crown** to position 1.
- **3.** Press **button** A to display "YES," then press **button** M for more than 2 seconds.

The records are deleted and "--" is displayed.

**4.** Push in **the crown** to position 0.

## Schecking the time of another city—World Time mode

You can display a local time selected among 43 cities or UTC.



City of the local Button A time

- The local time is calculated based on the time difference from the home time.
- If you press buttons A and B at the same time while the crown is set to position 0, you can set the local time as the new home time. (The previous home time becomes the local time.)
  You can set daylight saving time for each city.
- See "Table of city names" on page 54 for the selectable cities.

- 7 Selecting a city
- **1.** Press **button** M to change the mode to World Time.
- **2.** Pull out **the crown** to position 1.
- **3.** Press **button** A or B to select a city, then press **button** M to go to the daylight saving time setting.

• If you press and hold **button** A or B, the city name changes continuously.

**4.** Press **button** A to select "ON" or "OFF" for daylight saving time.

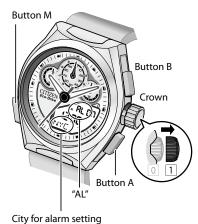


3:09

**5.** Push in **the crown** to position 0.

### 😪 Using the alarm—Alarm mode

You can set the alarm based on the time of the selected city.

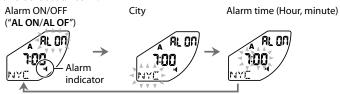


To monitor the alarm sound, press and hold **button** A for more than 2 seconds while **the crown** is set to position 0. You can monitor it for up to 10 seconds.

**1.** Press **button** M to change the mode to Alarm. ("AL")

**2.** Pull out **the crown** to position 1.

**3.** Press **button** M to select an item, and press **button** A or B to adjust the selected item.



- Use **button** A for the alarm ON/OFF setting.
- If you press and hold **button** A or B, the item changes continuously (for the city and alarm time setting).
- **4.** Push in **the crown** to position 0 after the adjustment.

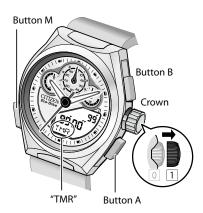
#### When the alarm time comes

The alarm tone sounds for 15 seconds.

• To stop the alarm tone, press any button.

#### 😪 Using the timer—Timer mode

You can set the countdown timer from 1 minute up to 99 minutes per 1 minute.



**1.** Press **button** M to change the mode to Timer. ("TMR")

The last timer setting is displayed.

- Go to step **5** if you do not need to change the setting.
- **2.** Pull out **the crown** to position 1.
- **3.** Press **button** A or B to adjust the time.
  - If you press and hold **button** A or B, the

figure changes 1500 continuously. SP1P7

- **4.** Push in **the crown** to position 0 after the adjustment.
- **5.** Press **button** B to start countdown.
  - "• appears.
  - Each time you press **button** B, the countdown starts or stops.
  - To restart the countdown from the set time, press button A while the countdown is running. Timer indication
  - To return to the set time, press **button** A while the countdown is stopped.

The countdown continues even if you change the mode during the countdown.

#### When the set time has passed

The time-up tone sounds for 5 seconds.

• To stop the time-up tone, press any button.

English

Set time

Remaining time

YME

1459

## Charging the energy storage cell

## 7 When the energy storage cell reaches a low charge—Insufficient charge warning function

When the energy cell reaches low power, insufficient charge warning function 1 and 2 are activated in order. Charge the energy cell by exposing the dial to light.

Function and the movement of the watch		While the energy cell is charged:
When the stored energy reaches a low state—Insufficient charge warning function 1 activated: "XK" appears on the digital section. The chronograph hands do not move (except the chronograph second hand).	<b>E</b> <b>I</b> <b>I</b> <b>I</b> <b>I</b> <b>I</b> <b>I</b> <b>I</b> <b>I</b>	" <b>Ж</b> " disappears.
<ul> <li>When the stored energy is nearly depleted—Insufficient charge warning function 2 is activated:</li> <li>The second hand moves once every two seconds. You cannot operate the watch.</li> <li>The alarm tone does not sound.</li> <li>If you have not charged the energy cell for three days or more since the warning movement began, the stored energy will be depleted and the watch will stop.</li> </ul>	The two-second interval movement	<ul> <li>The second hand starts to move normally.</li> <li>Keep charging the watch until " XX " disappears.</li> </ul>

#### Charging the energy storage cell

#### 7 Charging time

Below are the approximate values for when exposing the dial to light continuously.

Illuminance (Lx)	Environment	Time for charging fully when the energy cell is fully depleted (approx.)	Charging time needed for 1-day movement (while the second hand moves normally) (approx.)
3,000	20 cm (8 in.) under a fluorescent lamp (30 W)	200 hours	40 minutes
10,000	Under cloudy weather	60 hours	12 minutes
100,000	Under direct sunlight in summer	30 hours	3 minutes

You can calculate the amount of power the watch can get.

For example, if the energy cell is charged under cloudy weather for about 4 hours, the watch will get the power for approx. 20 days.

To charge the energy cell, expose the dial to brighter light for a long time. Sunlight is more effective than fluorescent lamps.

You can put the watch under direct sunlight for a long time if the temperature of the watch is kept under 50°C/122°F.



## <After the energy cell is fully charged—Overcharge prevention function>

When the watch becomes fully charged, the overcharging prevention function is activated automatically to prevent excessive charging.

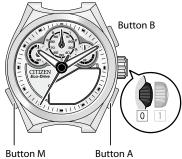
# English

## Power saving function

When the dial is not exposed to light for a certain period of time, the power saving function 1 and 2 are activated as follows:

#### Caution

Charge the watch if the second hand is moving once every 2 seconds after the power saving function is canceled. (Apage 30)



	Condition when the function is activated	Movement of the watch	To cancel the function
	When the dial is not exposed to light for <u>more than 30 minutes</u> —Power saving function 1	The digital section is turned off.	Expose the dial to light or press any button.
)	When the dial is not exposed to light for <u>more than 7 days</u> —Power saving function 2	The digital section is turned off and all hands stop at the reference position.	<ul> <li>Expose the dial to light.</li> <li>The hour, minute, second, and 24-hour hands start to move and indicate the current time.</li> <li>If the indicated time is not correct, adjust the time and calendar. (\(\Box[Page 14)\))</li> </ul>

## Troubleshooting

If you have a problem with your watch, check the table below.

Symptoms	Remedies	Page
The hands do not work prop	erly	
The second hand moves only once every 2 seconds.		
The chronograph 1/10 second and 1/100 second hands do not move.	Charge the energy cell.	9, 30
	Push in the crown to position 0.	14
All hands stop moving.	Charge the energy cell.	9
Incorrect time is indicated on the analog section.	Check and adjust the reference	39
Each chronograph hand does not return to "0/.00" or "60."	position.	39

Symptoms	Remedies	Page
The hands start turning rapidly as you take the watch out of the case.	The watch is canceling the power saving function. Wait until the rapid movement stops.	34
he digital section seems u	nusual	
The digital section is turned off as you take the watch out of the case.	The power saving function is activated. Expose the dial to light or press any button.	34
The mode cannot be changed.	Stop the measurement of the Chronograph or Lap Record mode.	16, 20
"Ж" appears.	The energy cell is short of power. Charge the watch until XX disappears.	9, 30

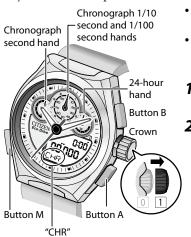
Symptoms	Remedies	Page
Others		
	Confirm the alarm setting.	26
The alarm tone does not sound.	Charge the energy cell.	9, 30
The movement or indication is not normal.	Reset the watch. If the watch still does not work	
The watch does not work properly even if you have tried the remedies stated in "Troubleshooting" (pages 36 to 38).	properly, contact the Citizen Service Center or the store where you purchased your watch.	42
The watch does not move even if the energy cell is fully charged. (Ø page 32)	Contact the Citizen Service Center or the store where you purchased your watch.	_

The movement or indication is not normal.	Reset the watch. If the watch still does not work	
The watch does not work properly even if you have tried the remedies stated in "Troubleshooting" (pages 36 to 38).	properly, contact the Citizen Service Center or the store where you purchased your watch.	42
The watch does not move even if the energy cell is fully charged. $(\boxtimes$ page 32)	Contact the Citizen Service Center or the store where you purchased your watch.	_

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## Adjusting the reference position

Adjust the reference position in the following cases:



- The correct time is not displayed on the analog section even after the time setting.
- Each chronograph hand does not point to "0/.00" or "60" even after resetting the measurement.
- **1.** Press **button** M to change the mode to Chronograph. ("CHR")
- **2.** Pull out the **crown** to position 1.

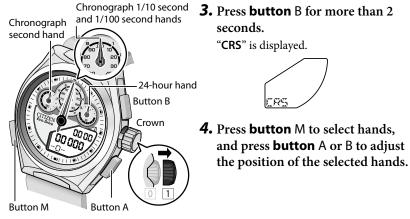
"**0**" is displayed and all hands move to indicate the current reference position.



• Go to step **5** on page 41 when the reference position is correct. (0:00:00/measurement time: 0)

> Continued on the next page 39

#### Adjusting the reference position



The illustration shows the correct reference position.

40

second hand ("CRS") • Each time you press **button** M, the adjustable hands move. 4. Press button M to select hands, • If you press and hold **button** A or B, the hands move continuously.

Chronograph

• Use **button** A for the chronograph hands.

Chronograph 1/10 second and 1/100 second hands ("CRM")

• While adjusting the chronograph 1/10 second and 1/100 second hands or the hour and 24-hour hands, the second and minute hands move backward by 3

minutes and 30 seconds so that the hands to adjust can be seen.

**5.** Push in **the crown** to position 0 after the adjustment.

The current time is indicated on the analog section.

Hour and 24-hour hands ("HR")

English Second and minute hands ("MIN")

41

## Resetting the watch

The watch may not work properly if it is affected by static electricity or shock. In this case, reset the watch.

#### Caution

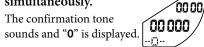
Button B

Crown

Button A

If you reset the watch, the setting of each mode returns to the initial and the records in the Lap Record mode are deleted.

- **1.** Pull out **the crown** to position 1.
- **2.** Press **buttons** A, B and M simultaneously. The confirmation tone



**3.**Correct the reference position. Follow step **3** to step **5** on page 40.

After resetting, the setting of each mode returns to the initial as follows. Adjust the time and calendar, and other settings.

#### 7 Initial setting

Time and Calender	2008 January 1 / Tuesday / AM12:00 / City : UTC
Race (distance of a course)	1 km/mile
World Time	UTC
Alarm	AM12:00 / Alarm: OFF / City: UTC
Timer	99 minutes

Button M

## Precautions

Dial

WATER RESIST(ANT) or

no indication WR 50 or WATER

**RESIST 50** 

WR 100/200 or WATER

**RESIST 100/200** 

#### WARNINGS

#### Water-resistance performance

Indication

WATER RESIST(ANT) 5bar or WATER

RESIST(ANT)

WATER RESIST(ANT) 10bar/20bar or

WATER RESIST(ANT)

Water-resistant to 5

atmospheres

Water-resistant to 10 or 20

atmospheres

Before use, confirm the water-resistance level of your watch indicated on the dial and case.

The unit "bar" is roughly equal to 1 atmosphere. \* "WATER RESIST(ANT) xx bar" may also be indicated as "W.R. xx bar."

OK

OK

Examples of use

NO

OK

ion Case (case back)	Specifications	Minor exposure to water (washing face, rain, etc.)	Moderate exposure to water (washing, kitchen work, swimming, etc.)	Marine sports (skin diving)	Scuba diving (with an air tank)
WATER RESIST(ANT)	Water-resistant to 3 atmospheres	ОК	NO	NO	NO

OK

OK

Continued on the next page

NO

NO

Operation of the

crown when the

watch is wet

NO

NO

NO

#### Precautions

• Water-resistance for daily use (up to 3 atmospheres):

This type of watch is resistant to minor exposure to water. For example, you may wear the watch while washing your face; however, it is not designed to be used underwater.

- Upgraded water-resistance for daily use (up to 5 atmospheres): This type of watch is resistant to moderate exposure to water. You may wear the watch while swimming; however, it is not designed to be used for skin diving.
- Upgraded water-resistance for daily use (up to 10/20 atmospheres): This type of watch may be used for skin diving; however, it is not designed to be used for scuba or saturated diving using helium gas.
- Be sure to use the watch with the crown pressed in fully (normal position) to ensure the water resistance. If the crown of your watch is the screw down crown, be sure to tighten it completely.
- Do not operate the crown or buttons when the watch is wet.

- If water has penetrated the watch, or if the inside of the glass is fogged up and does not become clear in a day, take the watch to your dealer or Citizen Service Center for repair. Leaving the watch in such a state will rust the internal parts and cause malfunction.
- If seawater penetrates the watch, place the watch in a box or plastic bag and immediately take it in for repair. Otherwise, the pressure inside the watch will increase, and parts (glass, crown, buttons, etc.) may come off.
- If the watch is used in seawater, rinse with fresh water afterward and wipe with a dry cloth.

#### Keep your watch clean

- Keep your watch clean to prevent rust or dirt building up on the watch. They may stain your clothes.
- Wipe off dirt on the leather band with a soft and dry cloth to prevent it from discoloring.

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#### WARNINGS

#### Handling the energy storage cell

- Do not remove the cell. When it is required, keep the energy cell out of the reach of children to prevent them from swallowing it.
- If the energy cell is swallowed, consult a doctor and seek medical treatment.

#### CAUTIONS

#### **Cautions about charging**

- Excessively high temperature may cause discoloration and deformation of the exterior, and malfunction of the movement.
- Do not charge the watch at a high temperature (about 50°C/122°F or higher). Examples:

- charging the watch by light such as an incandescent lamp or halogen lamp

– charging the watch where the temperature becomes extremely high—such as on the dashboard

#### To avoid injury

• DO NOT wear the watch where the temperature becomes extremely high—such as in a sauna. Otherwise the watch may become hot and cause skin burn.

#### To avoid malfunction

- DO NOT use the watch where the temperature is lower or higher than the operation temperature specified in the instruction manual. Doing so may cause the watch to malfunction or stop.
- DO NOT place the watch nearby any materials generating a strong magnetic field such as:
- -magnetic health equipment such as a magnetic necklace
- a magnetic latch of a refrigerator door
- a magnetic clasp on a handbag
- -speakers of a mobile phone
- -electromagnetic cooking devices

They may interfere with the movement of the stepping motors in the watch and timekeeping becomes inaccurate.

Continued on the next page **49** 

#### Precautions

- DO NOT place the watch nearby household appliances generating static electricity. Timekeeping may become inaccurate if the watch is exposed to such strong static electricity as that which is emitted from a TV screen.
- DO NOT apply any strong shock, for example, by dropping it onto a hard floor.
- Avoid using the watch where it may be exposed to chemicals or corrosive gases. If solvents, such as thinners or benzine, or substances containing such solvents come into contact with the watch, discoloration, melting, cracking, etc. may occur. The case, band, or other parts may become discolored if the watch comes into contact with mercury, such as that used in thermometers.

## Se Maintenance

#### Daily maintenance

- Rotate the crown while it is pressed in (position ①) and press the buttons periodically so that they will not be rusty.
- Wipe off dirt, perspiration, and water from the case and glass with a soft cloth.
- To clean a metal, plastic, or rubber watchband, wash away dirt with water. Use a soft brush to remove dust and dirt stuck in the gaps in a metal band.
- Do not use solvents (thinner, benzine, etc.), as they may damage the finish.

#### **Periodical inspections**

Your watch needs an inspection once every two or three years for safety and longer usage. To keep your watch water-resistant, the packing needs to be replaced regularly. Other parts need to be inspected and replaced if necessary. Ask for genuine Citizen parts upon replacement.

## Specifications

Model	U70*
Туре	Combination solar-powered watch
Timekeeping accuracy	Within $\pm 15$ seconds per month on average (when worn at normal temperatures between $+5^{\circ}C/41^{\circ}F$ and $+35^{\circ}C/95^{\circ}F$ )
Operating temperature range	0°C/32°F to +50°C/122°F
Display functions	Analog section: • Time: Hours, minutes, seconds, 24 hours • Chronograph: second, 1/10 second, 1/100 second Digital section: • Calender: Year, Month, Date, Day of the week • Chronograph (Split time) • Race (Lap time, speed) • Race record (Lap time, speed)

Display functions	• World time • Alarm • Timer
Run time without recharging	<ul> <li>Fully charged to empty:</li> <li>Approx. 7 years (with the power save function)</li> <li>Approx. 8 months (without the power save function)</li> <li>Two seconds interval movement to stopping: Approx. 3 days</li> </ul>
Energy Cell	1 piece button cell type
Additional functions	<ul> <li>Power saving function (energy saving mode) 1 &amp; 2</li> <li>Overcharge prevention function</li> <li>Insufficient charge warning function 1 &amp; 2</li> <li>Daylight saving time ON/OFF</li> <li>Perpetual calendar (until December 31, 2099)</li> </ul>

Specifications are subject to change without prior notice.

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abbr.	City name	Time difference	abbr.	City name	Time difference
UTC	—		DXB	Dubai	+4
LON	London	±0	KBL	Kabul	+4.5
MAD	Madrid		КНІ	Karachi	+5
PAR	Paris	+1	DEL	Delhi	+5.5
ROM	Rome	1+1	DAC	Dhaka	+6
BER	Berlin		RGN	Yangon	+6.5
CAI	Cairo		BKK	Bangkok	+7
ATH	Athens	+2	SIN	Singapore	
JNB	Johannesburg		HKG	Hong Kong	. 0
MOW	Moscow	1.2	BJS	Beijing	+8
RUH	Riyadh	+3	TPE	Taipei	
THR	Tehran	+3.5	SEL	Seoul	+9

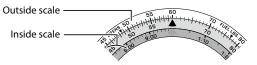
						En
abbr.	City name	Time difference	abbr.	City name	Time difference	English
ТҮО	Tokyo	+9	LAX	Los Angeles	-8	
ADL	Adelaide	+9.5	DEN	Denver	-7	
SYD	Sydney	+10	MEX	Mexico City	-6	
NOU	Noumea	+11	CHI	Chicago	-0	
AKL	Auckland	. 10	NYC	New York		
SUV	Suva	+12	YMQ	Montreal	-5	
MDY	Midway Island	-11	SCL	Santiago	-4	
HNL	Honolulu	-10	RIO	Rio de Janeiro	-3	
ANC	Anchorage	-9	FEN	Fernando de Noronha	-2	
YVR	Vancouver	-8	PDL	Azores	-1	

The time differences and city names may change depending on the situation of the cities.

## 😵 How to use the rotating bezel

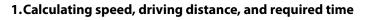
The rotating bezel is equipped on some models. Using the bezel, you can easily calculate the followings:

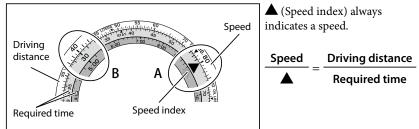
- 1. Speed, driving distance, and required time
- 2. Fuel consumption rate, fuel consumption, and driving time
- 3. Conversion (weight/volume/distance)
- Rotate the outside scale for the calculation.



The way of rotating the bezel differs depending on the type of the watch.You need to add a decimal point depending on calculation results.

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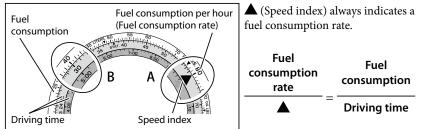




In the circle A, the speed index points to "80." Then any other part indicates a pair of driving distance and required time with the speed of 80 km/h. When the driving distance is 400 km ("40"), for example, the required time is 5 hours ("5:00"). In the circle B, a driving distance and a required time are set. Then  $\blacktriangle$  indicates the speed.

#### How to use the rotating bezel

# 2. Calculating fuel consumption rate, fuel consumption, and driving time

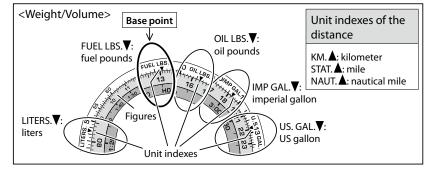


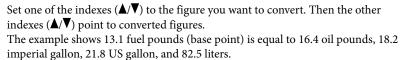
In the circle A, the speed index points to "80." Then any other part indicates a pair of fuel consumption and the maximum driving time with the fuel consumption rate of 80 l/h. When the fuel consumption is 400 l ("40"), for example, the maximum driving time is 5 hours ("5:00").

In the circle B, fuel consumption and driving time are set. Then **A** indicates the fuel consumption rate.

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#### 3.Conversion





## S Glossary

Terms (page)	Descriptions		
AVG (3, 23)	AVERAGE: the average lap time.		
FAS (3, 22)	FASTEST: the best lap time.		
LAT (3, 23)	LATEST: the worst lap time.		
UTC (24, 43, 54)	"Coordinated Universal Time" is the standard time around the world maintained by international agreement.		
Eco-Drive (1)	System to convert light into electrical energy. It enables a watch to move efficiently.		
Daylight saving time (13, 15, 24, 53)	The institution to set a clock forward an hour during a certain period in summer. Whether and when it is administered depend on each country or city.		
Split time (17)	Elapsed time from the starting point to the measured point.		

Terms (page)	Descriptions
Screw down crown (7)	Crown fixed with a screw. Locking the crown prevents accidental operation or submergence.
Full auto calendar (53)	Function to adjust the date automatically at the end of each month including February 29.
Home time (14, 24)	Time displayed on the main display part. (When a watch has two or more time indication)
Lap time (1, 3, 18, 20, 23, 52)	Elapsed time of every lap.
Reference position (10, 17, 35, 36, 39, 42)	The base position of the indication for the analog section. (0:00:00/measurement time: 0) If the reference position is off from it, the watch will not display the time and measurement time correctly.