## Operation Guide 5007

## Getting Acquainted

Congratulations upon your selection of this CASIO watch. To get the most out of your purchase, be sure to read this manual carefully.

- This watch does not have a city code that corresponds to the UTC offset of -3.5 hours. Because of this, the radio-controlled atomic timekeeping function will not display the correct time for Newfoundland, Canada.

Keep the watch exposed to bright light
Bright light Bright light
The electricity generated by the solar cell of the watch is stored by a built-in battery. Leaving or using the watch
where it is not exposed to light causes the battery to where it is not exposed to light causes the battery to run
down. Make sure the watch is exposed to light as much as dowsible. possible. position the face so it is pointed at a source of bright light.


- You should try to keep the watch outside of your sleeve as much as possible. Even if the face of the watch is blocked only partially from light, charging will be reduced significantly.
- The watch continues to operate, even when it is not exposed to light. Leaving the watch in the dark can cause the battery to run down, which will result in some watch unctions to be disabled. If the battery goes dead, you will have to re-configure watc exposed to light as much as possible.

Battery charges in the light.
Battery discharges in the dark.


General Guide


## Radio-controlled Atomic Timekeeping

This watch receives a time calibration signal and updates its time setting accordingly.

- Supported time calibration signals: Germany (Mainflingen), England (Anthorn),

United States (Fort Collins), Japan (Fukushima or Fukuoka/Saga)

- See the information under "Signal Reception Troubleshooting" if you experience problems with time calibration signal reception.

Current Time Setting
This watch adjusts its time setting automatically in accordance with a time calibration signal. You also can perform a manual procedure to set the time and date, when necessary.
The first thing you should do after purchasing this watch is to specify your informatio, which "T the city where you normaly
thormation, see "To specify your Home City"
will using the watch outside the areas covered by the time signal transmitters, you will have to adjust the current time setting manually as required. See "Timekeeping" for more information about manual time settings.

- The U.S. time calibration signal can be picked up by the watch while in North America. The term "North America" in this manual refers to the area that consists of Canada the continental United States, and Mexico.

To specify your Home City down - The stopwatch second hand will move to the city code of the currently selected Home City. This is the city code setting mode.

- The second hand will stop at " 0 ".*
* Some models show " 60 " instead of " 0 ".

2. Use (D) to move the stopwatch second hand to the city code you want to use as your Home City.
Each press of causes the stopwatch second hand

- Time calibration signal reception is support
any one of the city codes shown in the table below is selected as your Home City.
- The actual level at which some functions are disabled depends on the watch model - Be sure to read "Power Supply" for important information you need to know when exposing the watch to bright light.

If the analog hands aren't moving..
If the analog hands aren't moving, it means that the power saving mode has stopped them to save battery power.

- See "Power Saving" for more information.
- The hands also stop when the watch's battery runs down.

Note that CASIO COMPUTER CO., LTD. assumes no responsibility for any Namage or loss suffered by you or any third party arising through the use of this product or its malfunction

About This Manual

Hour hand $\begin{aligned} & \text { Stopwatch } \\ & \text { second hand }\end{aligned}$


- Whenever you enter the Timekeeping, Countdown Timer, World Time, or Alarm Mode, the hands of the watch move to the applicable time for that mode. Even if the hands are moving, you can press (C) to move to another mode (except for the Stopwatch Mode), if you want. Note, however, that all other buttons are disabled while the hands are moving.

| German/U.K. Signal |  | Japan Signal |  | U.S. Signal |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| City Code | City Name | City Code | City Name | City Code | City Name | City Code | City Name |
| LON | London | HKG | Hong Kong | HNL | Honolulu | DEN | Denver |
| PAR | Paris | TYO | Tokyo | ANC | Anchorage | CHI | Chicago |
| ATH | Athens |  |  | LAX | Los Angeles | NYC | New York |

- In addition to the above, you also can select city codes that are outside the ranges of the time calibration signal transmitters supported by this watch. ds to Newfoundland 3. After the Home City setting is the way you want, press (A) to return to the Timekeeping Mode.
- Normally, your watch should show the correct time as soon as you specify your Home City code. If it does not, it should adjust automatically after the next auto receive operation. You also can perform manual receive or you can set the time manually.
- Even if the time calibration signal is received correctly, there are some times when the analog hands may not indicate the correct time. If this happens, use the procedures under "Adjusting the Home Positions" to check the home positions of the hands, and make adjustments as required


## Daylight Saving Time (DST)

Daylight Saving Time (summer time) advances the time setting by one hour from Standard Time. Remember that not all countries or even local areas use Daylight Saving Time.
The time calibration signals transmitted from Mainflingen (Germany). Anthorn (England), or Fort Collins (the United States) include both Standard Time and DST data. When the Auto DST setting is turned on, the watch switches between Standard Time and DST (summer time) automatically in accordance with the signals.

- Though the time calibration signal transmitted by the Fukushima and Fukuoka/Saga, Japan transmitters include summer time data, summer time currently is not implemented in Japan (as of 2007).
- The default DST setting is Auto DST (AT/AUTO) whenever you select LON, PAR, - ATH, ANC, LAX, DEN, CHI, NYC, or TYO as your Home City code.
- If you experience problems receiving the time calibration signal in your area, it probably is best to switch between Standard Time and Daylight Saving Time (summer time) manually. For more information, see "To set the time and date manually".


## Operation Guide 5007

Time Calibration Signal Reception
There are two different methods you can use to receive the time calibration signal: auto receive and manual receive

## - Auto Receive

With auto receive, the watch receives the time calibration signal automatically up to six times a day. When any auto receive is successful, the remaining auto receive

- Manual Receive

Manual receive lets you start a time calibration receive operation with the press of a button. For more information, see "To perform manual receive".

## Important!

- When getting ready to receive the time calibration signal, position the watch as shown in the nearby illustration, with its 12 o'clock side facing towards a window.
This watch is designed to receive a time calibration signal late at night. Because of this, you should place the watch near a window as shown in the illustration when you take it off at night. Make sure there are no metal objects nearby

- Make sure the watch is facing the right way.
- Make sure the watch is facing the right way. below.


Inside or among
buildings

nside a


Near household
appliances, applian
office equipment,
or a mobile
phone


Near a
construction construction or other orources of
selectrical electrical
noise


Near hightension power
lines
lines

Signal reception normally is better at night than during the day
Time calibration signal reception takes from two to seven minutes, but in some cases it can take as long as 14 minutes. Take care that you do not perform any button operations or move the watch during this time.

- The time calibration signal the watch will attempt to pick up depends on its current Home City code setting as shown below. If you use the watch in Japan or Europe
(each of which has two different transmitter locations), it will try to receive the time calibration signal from one of the transmitters in your current location. If it cannot receive the signal, it will then try to receive the time calibration signal from the other transmitter.

| Home City Code | Transmitter | Frequency |
| :---: | :---: | :---: |
| LON, PAR, ATH | Anthorn (England) Mainflingen (Germany) | $\begin{aligned} & 60.0 \mathrm{kHz} \\ & 77.5 \mathrm{kHz} \end{aligned}$ |
| HKG*, TYO | Fukushima (Japan) Fukuoka/Saga (Japan) | $\begin{aligned} & 40.0 \mathrm{kHz} \\ & 60.0 \mathrm{kHz} \end{aligned}$ |
| HNL*, ANC ${ }^{*}$, LAX, DEN, CHI, NYC | Fort Collins, Colorado (the United States) | 60.0 kHz |

* The areas covered by the HKG, HNL, and ANC city codes are quite far from the time calibration signal transmitters, and so certain conditions may cause problems with signal reception.
Approximate Reception Ranges
U.S. Signal


2,000 miles (3,000 kilometers) 600 miles ( 1,000 kilometers Fort Collins
eters
The Anthorn signal is eceivable within this are


- Even when the watch is within the reception range of a transmitter, signal reception may be impossible at times due to the effects of geographic contours, structures, eather, the season of the year, the time of day, radio interference, etc. Note that the signal becomes weaker at distances of approximately 500 kiloters from the even greater.


## About Auto Receive

The watch receives the time calibration signal automatically up to six times a day. When any auto receive is successful, the remaining auto receive operations are no performed. The reception schedule (calibration times) depends on your currently selected Home City, and whether standard time or Daylight Saving Time is selected for your Home City.

| Your Home City |  | Auto Receive Start Times |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 1 | 2 | 3 | 4 | 5 | 6 |
| LON | Standard Time | 1:00 am | 2:00 am | 3:00 am | 4:00 am | 5:00 am | Midnight* |
|  | $\begin{array}{\|l\|} \hline \text { Daylight } \\ \text { Saving Time } \\ \hline \end{array}$ | 2:00 am | 3:00 am | 4:00 am | 5:00 am | Midnight* | 1:00 am* |
| PAR | Standard Time | 2:00 am | 3:00 am | 4:00 am | 5:00 am | Midnight* | 1:00 am* |
|  | Daylight Saving Time | 3:00 am | 4:00 am | 5:00 am | Midnight* | 1:00 am* | 2:00 am* |
| ATH | Standard Time | 3:00 am | 4:00 am | 5:00 am | Midnight* | 1:00 am* | 2:00 am* |
|  | Daylight Saving Time | 4:00 am | 5:00 am | Midnight* | 1:00 am* | 2:00 am* | 3:00 am* |
| HKG, TYO | Standard Time | Midnight | 1:00 am | 2:00 am | 3:00 am | 4:00 am | 5:00 am |
| HNL, ANC, LAX, DEN, CHI, NYC | Standard Time Daylight Saving Time | Midnight | 1:00 am | 2:00 am | 3:00 am | 4:00 am | 5:00 am |

- When a calibration time is reached, the watch will receive the calibration signal only if it is in either the Timekeeping Mode or World Time Mode. Reception is no performed if a calibration time is reached while you are configuring settings. Auto receipt of the calibration signal is designed to be performed early in the morning, while you sleep (provided that the Timekeeping Mode time is set correctly). Before going to bed for the night, remove the watch from your wrist, and put it in a location where it can receive the signal easily.
The watch receives the calibration signal for two to 14 minutes every day when the time in the Timekeeping Mode reaches each of the calibration times. Do not perform any button operation within 14 minutes before or after the calibration times. Doing so can interfere with correct calibration.
- Remember that reception of the calibration signal depends on the current time in the Timekeeping Mode.


## To perform manual receive <br>  <br> READY <br>  <br> side is facing towards a window. <br> 2. In the Timekeeping Mode, hold down (A) for about two seconds until the watch beeps. <br> 3. The stopwatch second hand will move to READY to indicate that the watch is setting up for time calibration reception reception. <br> The stopwatch second hand will move to WORK and - If signal reception is unstable during reception. stopwatch second hand may move between WORK and READY. The hour <br> - Time calibration signal reception takes from two to seven minutes, but in some cases it can take as long as 14 minutes. Take care that you do not perform any button operations or move the watch during this time. will move to YES ( $\mathbf{Y}$ ) Five second later, the hands will move to the correct time.

Note

- To interrupt a receive operation and return to the Timekeeping Mode, press any
- If reception is not successful, the stopwatch second hand will move to NO (N). Five seconds later, the stopwatch second hand will resume normal operation, without any adjustment of the hand setting.
If the stopwatch second hand is pointing to YES $(\mathbf{Y})$ or NO $(\mathbf{N})$, you can return to the Timekeeping Mode by pressing (A).


## Viewing the Latest Signal Reception Results

You can use the procedure below to check whether or not the last signal receive operation was successful.


In the Timekeeping Mode, press (A)

- If the watch was able to perform a successful signal receive operation since midnight, the stopwatch second hand will move to $\mathbf{Y E S}(\mathbf{Y})$. If the watch has been unable to receive any signal successfully, the stopwatch second hand will move to NO (N).
The watch will return to the Timekeeping Mode after five seconds or when you press (A)
The current receive result is cleared when the first auto receive operation is performed on the following day. This means YES $(\mathbf{Y})$ indicates successful signal reception If you adjust the time or date setting stopwatch second hand will move to manually, the stopwatch second hand will move to NO (N).

Signal Reception Troubleshooting
Check the following points whenever you experience problems with signal reception.

| Problem | Probable Cause | What you should do |
| :---: | :---: | :---: |
| The stopwatch second hand is pointing at NO (N). | - You changed the time setting manually. <br> - You performed some button operation during the auto receive operation. <br> - The watch is not in the Timekeeping Mode. <br> - Signal reception results are reset when the first auto receive operation is performed on the following day. <br> - Radio interference is often present during the day time, which can interfere with calibration signal reception. | - Perform manual signal receive at night or wait until the next auto signal receive operation is performed. <br> - Enter the Timekeeping Mode and try again. <br> - Check to make sure the watch is in a location where it can receive the signal. |
| The time setting is incorrect following signal reception. | - The Home City setting is not correct for the area where you are using the watch. <br> - The home position of the hands is off. | - Select the correct Home City. <br> - Enter the home position adjustment mode and adjust the home position. |

- For further information, see "Important!" under "Time Calibration Signal Reception"
- For further information, see "Important!" under "Time Cal"
and "Radio-controlled Atomic Timekeeping Precautions"


## Operation Guide 5007

Stopwatch second hand


## Upper right

 dial(stopwatch
Stopwatch 1/20 (stopwatch
second hand
minute) hand
To start an elapsed time operation while in the Stopwatch Mode

1. In the Timekeeping Mode, press (D) to enter the Stopwatch Mode.
2. In the Stopwatch Mode, press (B) to start elapsed time measurement.
3. Press (B) to stop elapsed time measurement.

- You can restart and stop elapsed time measurement as many times as you like by - pressing (B).

Whene 60 seconds only, and then stops. Whenever elapsed timing is stopped (by pressing (B)), the $1 / 20$ second hand jumps to the $1 / 20$ second indication (which is kept internally).

- After you are finished measuring elapsed time, press (D) to reset the stopwatch to al zeros. The stopwatch will reset to all zeros even if you press (D) while elapsed time measurement is in progress.
- To return to the Timekeeping Mode, press (D) while the stopwatch is reset to all zeros.
To start an elapsed time operation while in the Timekeeping Mode

1. In the Timekeeping Mode, press (B) to start elapsed time measurement.

- Elapsed time measurement will start internally when you press (B), but timing will not appear for about one second.
- The elapsed time operation will not start if you press (B) in the Timekeeping Mode while either of the following conditions exists. While an alarm is sounding
(B) the next (at midnight)
. Press (B) to stop elapsed time measurement
and stop elapsed time measurement as many times as you like by
pressing (B)
When elapsend hand rotates during the first 60 seconds only, and then stops. hand jumps to time measurement is stopped (by pressing (B), the $1 / 20$ second end $1 / 20$ second indication (which is kept internally).
- After you are finished measuring elapsed time, press (D) to reset the stopwatch to a zeros. The stopwatch will reset to all zeros even if you press (D) while elapsed time measurement is in progress.
- To return to the Timekeeping Mode, press (D) while the stopwatch is reset to all zeros.


## Countdown Timer



You can set the countdown start time within a range of one minute to 30 minutes. The watch has a preset "rese countdown start time to five minutes. A progress keeps you informed of the progress of the countdown. An alarm sounds when the timer reaches zero, and a count up elapsed time operation starts. All of this makes the countdown timer a useful tool for yacht racing. - Whenever you enter the Countdown Timer Mode, the upper right dial hand initially will move to the TMR position. After about one second, the upper right dial hand will move to the countdown start time (minutes) and stop there.
hand points straightimer Mode, the timekeeping second hand points straight down (6 o'clock position).

## Timekeeping Countdown tim

second hand minute hand

- When you enter the Countdown Time Mode, the upper right dial hand initially will point to the currently set countdown start time.
- The initial factory default setting for the countdown start time is 10 minutes - For details about the progress beeper, see "Progress Beeper"

Countdown Timer Beeper Operations
The watch beeps at various times during a countdown so you can keep informed
about the countdown status without looking at the display. The following
describes the types of beeper operations the watch performs during a countdown
Countdown End Beeper
The watch beeps each second of the final 10 seconds before a countdown reaches zero, and at zero. The first five beeps (seconds 10 through 6) are lower pitched than the final five beeps (seconds 5 through 1). The watch emits a longer beep to signal when the countdown reaches zero.

- The countdown end beeper always sounds and cannot be turned off


## Progress Beeper

The progress beeper sounds at the 5, 4, 3, 2, and 1-minute point, and 30 -second point of the countdown.
In you set a countdown start time of 2 to 5 minutes, the progress beeper will start to sound after the first minute is counted down. If you set a countdown start time of 3 minutes, for example, the progress beeper will start to sound when the countdown reaches the 2-minute point.

- If you set a countdown start time of 1 minute, the progress beeper will sound once

The progress beeper always sounds and cannot be

Countdown Timer Examples
Countdown start time: 10 minutes


Using the Countdown Timer

- The upper right dial and second hands move counterclockwise during a countdown operation. The upper right dial hand moves every 30 seconds of the countdown, and one revolution represents 30 minutes.


Upper right
dial hand
Hand movement during a countdown


Upper right dial countdown minute scale

- When the countdown reaches zero, the watch starts a count up elapsed time operation in one-second increments. The upper right dial and second hands move lockwise during an elapsed time operation. The upper right dial hand moves every minute of the elapsed time operation, and one revolution represents 60 minutes.


Elapsed time operation hand movement


Upper right dial
elapsed time minute scale

- The elapsed time operation will continue until you stop it. Note, however, that only minutes are indicated by the upper right dial hand. There is not indication of the hour to let you know how many revolutions the upper right dial hand has made.
To use the countdown timer
 Press (B) while i
- Press (B) while a countdown operation is in progress to pause it. Press (B) again to resume the countdown.
To stop a countdown operation completely, first pause it (by pressing (B), and then press (D). This will return the countdown time to its starting value.
- You also can perform the above operations to pause and
restart the elapsed time operation after it starts.
You will not be able to switch to another mode while countdown is in progress.

To set the countdown start tim

. In the Countdown Timer Mode, press (D) to reset to the initial countdown start time (indicated by the upper righ dial hand).
2. Press (A) to advance the hand by one minute.

- Keep pressing (A) until it is at the start time you want. speed To stop high-speed hand movement press any speed. When
one revolution of the upper right dial hand represents 30 minutes.
To set a countdown start time of 30 minutes, move the upper right dial hand to 0 (or 60).
See the following section for information about resetting the countdown start time to 5 minutes while a countdown is in progress.
15 minutes
To reset the countdown to the reset time ( 5 minutes)
While a countdown is in progress or paused in the Countdown Timer Mode, press (A) once.
- This will cancel the ongoing countdown and cause the upper right dial hand to move to $\mathbf{5}$ and stop there. This will also cause the stopwatch second hand to move to $\mathbf{0}$.
- At this time you could use the procedure under "To set the countdown start time" to change the start time setting.


## Operation Guide 5007

## World Time

Current time (hour) in the currently selected World Time city 24-hour City code


The World Time Mode shows you the current time in 29 cities (29 time zones) around the world. A simple operation swaps your Home City with the currently selected World Time city.

- When you enter the World Time Mode, the stopwatch second hand will move automatically to the city code that is curre the hour and minute hands will move to the current time in that city current time in that city
Saving Time (summer time) is turned off for the currently selected city code.
- If the current time shown for a city is wrong, check your Home City settings and make the necessary changes. All of the operations in this section are performed in the World Time Mode

To view the time in another city
In the World Time Mode, use (D) to move the stopwatch second hand to the city code of the city you want to select as the World Time city

- The hour hand, minute hand, 24 -hour hand, and date display will change automatically to the applicable settings for the currently selected city code. - All buttons (except for (©) for changing modes) are disabled while the hands and
- The watch will beep if the city code you select is your current Home City.
- For full information on city codes, see the "City Code Table".

To toggle a city code time between Standard Time and Daylight Saving Time Uper righ hand 1. In the World Time Mode, use (D) to select the city code
 whose Standard Time/Daylight Saving Time setting you want to change.

Hold down (A) for three seconds.

2. Hold down (A) for about three seconds until the watch beeps. This will cause the upper right dial hand to toggle between ON (Daylight Saving Time) and OFF (Standard Time).

- Note that you cannot switch between Standard Time and Daylight Saving Time while UTC is selected as the city code
Note that the Standard Time/Daylight Saving Time setting affects only the currently displayed city code Other city codes are not affected.
The Standard Time/Daylight Saving Time setting of your Home City can be changed in the Timekeeping Mode only. See To set the time and date manually for more information.

Swapping your Home City and World Time City
You can use the procedure below to swap your Home City and World Time city. This changes your Home City to your World Time city, and your World Time city to your Home City. This capability can come in handy when you travel frequently between two cities in different time zones
If your current World Time city supports receipt of a time calibration signal, making it your Home City enables calibration signal reception

To swap your Home City and World Time city
. Hold Worrd Time Mode, use (D) to select the World Time city you want.
This will make the World Time city (which you se watch beeps. the same time, it will change the Home City you had selected prior to step 2 to your World Time city.

- After swapping the Home City and World Time city, the watch stays in the World Time Mode with the city that was selected as the Home City prior to step 2 now displayed as the World Time city.


## Alarm



Alarm time (hour)

When the alarm is turned on, the alarm sounds when the alarm time is reached.
The upper right dial hand points to AL while the watch is in the Alarm Mode. The stopwatch second hand points hour, minute, and 24 -hour hands indicate the current alarm time setting.
All of the operations in this section are performed in the Alarm Mode.

## To set an alarm time

1. In the Alarm Mode, hold down (A) for about three seconds until the watch beeps. This indicates it is in the setting mode.
The stopwatch second hand will move to ON (alarm
on) at this time.
2. Use (D) (+) and (B) ( - ) to change the alarm time setting.

- Each press of either button moves the hands one-minute.

3. After setting the alarm time, press (A) to exit the setting mode.

- As you set the alarm time, take care to ensure that the 24-hour hand also is at the correct position.


## Alarm Operation

The alarm tone sounds at the preset time for 10 seconds, regardless of the mode the
watch is in.

- Alarm operations are performed in accordance with the Timekeeping Mode time. - Pressing any button stops the alarm tone operation.

To toggle an alarm on and off
In the Alarm Mode, press (A) to toggle the alarm ON and OFF

Adjusting the Home Positions
If the time and date settings are wrong even after the time calibration signal is received normally, use the following procedure to adjust their home positions.
To adjust the home positions

Stopwatch second hand


Timekeeping
second hand Correct timekeeping second hand home positions


24-hour hand Correct hour and minute hand home position Upper right dial hand


Correct upper right dial hand home position


In the Timekeeping Mode, as you hold down (A), hold down (C) for about three seconds until the watch beeps. This indicates that the watch is in the time and dat home position adjustment mode.
First is timekeeping second hand and stopwatch second hand home position adjustment.

- If the timekeeping second hand moves to " 0 ", it is in the correct home position. If it doesn't, use (D) to move the timekeeping second hand to " 0 ".
home position if it moves to 12 o'clock. If it doesn' press (B) to move it to 12 o'clock. press (b) to the the $120^{\prime}{ }^{\prime}{ }^{\prime}$ lock. stopwatch second hand are both at the proper hand and positions, press (C).
This will switch to hour hand and minute hand home position adjustment.
- The hour hand and minute hand are at their proper home positions if they both move to 12 o'clock, and if the 24 -hour hand is pointing at hour 24 . If the hands are not positioned correctly, use (b) + ) and B ${ }^{(-)}$
The 24-hour hand moves in accordance with the hour, minute, and second settings. As you set the time, take care to ensure that the 24 -hour hand also is at the correct position.
After confirming that the hour and minute hands are in the correct home positions, press (C). This will advance to upper right dial hand home position adjustment. - The upper right dial hand is in the correct home position if it is pointing at $\mathbf{0}$ (or $\mathbf{6 0}$ ). If it isn't, use (D) (+) and (B) ( - ) to move the hand to $\mathbf{0}$ (or $\mathbf{6 0}$ ). 4. After confirming that the upper right dial hand is in the date home position adjustment
- The date is in the correct home position if it shows " 1 " If it doesn't, use (D) $(+)$ and $(B)(-)$ to change the date
to "1". second hand and stopwatch second hand home position adjustment in step 1 of this procedure.

5. Press (A) to return to the Timekeeping Mode.

- After you complete the home position adjustment procedure, place the watch in a location that allows gomanual receive operation See"To perform manual receive" for more information. receive" for more information

Correct date home position

## Timekeeping



Use the Timekeeping Mode to set and view the current time and date. This section also explains how to set the current date and time manually.

- All of the operations in this section are performed in the Timekeeping Mode.
To set the time and date manually
. In the Timekeeping Mode, hold down (A) for about five The s until the watch beeps twice
second hand will move to the city code code setting mode.
- The second hand will stop at " 0 ".*
* Some models show " 60 " instead of " 0

Timekeeping Upper right 2 . Use (D) to change the Home City setting. second hand $\begin{aligned} & \text { dial } \\ & \text { (day of the }\end{aligned}$ - For full information on city codes, see the "City Code te (day of the
3. Use (B) to cycle through the DST settings in the sequence shown below.

## Auto DST <br> Auto DST (AT/AUTO)



- Auto DST (AT/AUTO) can be selected only while LON, PAR, ATH, HNL, ANC, LAX, DEN, CHI, NYC, HKG, or TYO is selected as the Home City code. For more information, see "Daylight Saving Time (DST)".
- Even after you change the DST setting, you can still use (D) to select a different Home City code if you want.

4. After the Home City and DST settings are the way you want, press (C).

This will cause the watch to beep, and the stopwatch second hand and upper right dial hand to move to their 12 o'clock positions. This is the time setting mode
5. Use (D) $(+)$ and (B) ( - ) to change the time (hour and minute) setting.

- As you set the time, take care to ensure that the 24 -hour hand also is at the - correct position.


Setting the year (10-year units)
Timekeeping
second hand
6. After the time setting is the way you want, press (C). - This will cause the watch to beep and change to the year setting mode.
Use (D) and (B) to change the year setting.

- Each press of (B) will move the stopwatch second hand and change the year setting in 10-year units. hand and change the year setting in one-year units.

8. After the year setting is the way you want, press (C). - This will cause the watch to beep and change to the month setting mode.

## Operation Guide 5007



Setting the month


Date
Setting the date
9. Use (D) to move the stopwatch second hand to the month setting you want
0. After the month setting is the way you want, press © - This will cause the watch to beep and change to the date setting mode.
Use (D) $(+)$ and (B) $(-)$ to change the date setting. - Pressing (C) will return to the time setting mode. 12.After all the settings are the way you want, press (A) to return to the Timekeeping Mode
Pressing (A) any time during the above procedure will return to the Timekeeping Mode, where the timekeeping The day of the week is displayed automatically in accordance with the date (year, month, and day) settings.

Power Supply
This watch is equipped with a solar cell and a special rechargeable battery (secondary battery) that is charged by the electrical power produced by the solar cell. The illustration shown below shows how you should position the watch for charging
Example: Orient the watch so its face is
pointing at a light source. a watch wation shows how to position Note th with a resin band.
when an charging efficiency drops when any part of the solar cell
blocked by clothing, etc.

- You should try to keep the watch
outside of your sleeve as much as
possible. Even if tine face of the watch
charging will be reduced significantly.


## Important!



Storing the watch for long periods in an area where there is no light or wearing it in such a way that it is blocked from exposure to light can cause rechargeable battery power to run down. Make sure that the watch is exposed to bright light whenever possible.
This watch uses a special rechargeable battery to store power produced by the solar cell, so regular battery replacement is not required. However, after very long use, th
rechargeable battery may lose its ability to achieve a full charge. If you experience problems getting the special rechargeable battery to charge fully, contact your deale or CASIO distributor about having it replaced.

- The special rechargeable (secondary) battery used by your watch is not intended to be removed or replaced by you. Use of a rechargeable battery other than the special one specified for this watch can damage the watch.
- The current time and all other settings return to their initial factory defaults whenever battery power drops to Level 3 and when you have the battery replaced. Keep the watch in an area normally exposed to bright light when storing it for long periods. This helps to keep the rechargeable battery from going dead


## Battery Power Levels

The movement of the analog hands indicates the current battery power level.

| Level | Hand Movement | Function Status |
| :---: | :--- | :--- |
| 1 | Normal. | All functions enabled. |
| 2 | - Second hand jumps |  |
| every 2 seconds. |  |  |
| - Date changes to home |  |  |
| position. |  |  |$\quad$| Beeper and time |
| :--- |
| calibration signal |
| reception disabled. |

Jumps two seconds

- The second hand jumping every two seconds (Level 2) indicates that battery power is quite low. Expose the watch to light as soon as possible to charge the battery.
- At Level 3 all functions are disabled and settings return to their initial factory defaults. The watch will continue to keep time internally for about one month after the battery drops to Level 3 . If you recharge the battery sufficiently during this period, the analog hands will move automatically to the correct setting and normal timekeeping will resume
- Alarm operation can cause hand movement to stop due to a sudden temporary drop in battery power. This does not indicate malfunction, and normal operation will resume when the watch is exposed to light. Though hand movement stops, timekeeping continues internally, and the hands will be adjusted to the correct setting when normal operation returns.


## Charging Precautions

Certain charging conditions can cause the watch to become very hot. Avoid leaving the watch in the areas described below whenever charging its rechargeable battery. Warning!
Leaving the watch in bright light to charge its rechargeable battery can cause it to become quite hot. Take care when handling the watch to avoid burn injury. The watch can become particularly hot when exposed to the following conditions for long periods.

- On the dashboard of a car parked in direct sunlight
- Too close to an incandescent lamp
- Under direct sunlight

Charging Guide
After a full charge, timekeeping remains enabled for up to about five months.

| Exposure Level (Brightness) | Approximate Exposure Time |
| :--- | :--- |
| Outdoor sunlight (50,000 lux) | 8 minutes |
| Sunlight through a window (10,000 lux) | 30 minutes |
| Daylight through a window on a cloudy day <br> (5,000 lux) | 48 minutes |
| Indoor fluorescent lighting (500 lux) | 8 hours |

- For details about the battery operating time and daily operating conditions, see the "Power Supply" section of the Specifications.
- Stable operation is promoted by frequent charging.

Recovery Times
The table below shows the amount exposure that is required to take the battery from one level to the next.

| Exposure Level (Brightness) | Approximate Exposure Time |  |  |
| :---: | :---: | :---: | :---: |
|  | Level 3 | Level 2 | Level 1 |
| Outdoor sunlight (50,000 lux) | 1 hour | 20 hours |  |
| Sunlight through a window (10,000 lux) | 2 hours | 73 hours |  |
| Daylight through a window on a cloudy day (5,000 lux) | 4 hours | --- |  |
| Indoor fluorescent lighting (500 lux) | 34 hours | --- |  |

The above exposure time values are all for reference only. Actual required exposure times depend on lighting conditions.

## Reference

This section contains more detailed and technical information about watch operation. It also contains important precautions and notes about the various features and functions of this watch.

Auto Return Features

- If you leave the watch in the Alarm Mode or home position adjustment mode for two or three minutes without performing any operation, it returns to the Timekeeping Mode automatically.
If you do not perform any operation for about two or three minutes while a setting mode is selected, the watch will exit the setting mode automatically.


## High-Speed Movement

- The (D) and (B) buttons are used to change the hand setting in various setting modes. In most cases, holding down these buttons will start high-speed movement of the applicable hand(s) and day.
- High-speed movement of hands and day will continue until you press any button, or
until the moving hand(s) and day finishes one complete cycle.
One complete cycle for the hands is one revolution ( 360 degrees) of the hour hand, or 24 hours.
One complete cycle for the day is 31 days.
- High-speed hand movement also is triggered by changing from one mode to another, changing a World Time Mode setting (changing the World Time city in the
- All buttons (except for the (C) button for changing modes) are disabled during a high speed hand or date operation. You will be able to perform button operations again after high-speed operation is stopped.
Radio-controlled Atomic Timekeeping Precautions
- Strong electrostatic charge can result in the wrong time being set.
- The time calibration signal bounces off the ionosphere. Because of this, such factors as changes in the reflectivity of the ionosphere, as well as movement of the ionosphere to higher altitudes due to seasonal atmospheric changes or the time of day may ch
impossible.
imposibe.
Even if the time calibration signal is received properly, certain conditions can cause the time setting to be off by up to one second
- The current time setting in accordance with the time calibration signal takes priority over any time settings you make manually.
- The watch is designed to update the date and day of the week automatically for the period January 1, 2000 to December 31, 2099. Setting of the date by the time
calibration signal will not be performed starting from January $1,2100$.
- Though this watch is designed to receive both time data (hour, minutes, seconds) and date data (year, month, day), certain signal conditions can limit reception to time data only.
If you are in an area where proper time calibration signal reception is impossible, the watch keeps time with the precision noted in "Specifications".


## Timekeeping

- The year can be set in the range of 2000 to 2099
- The watch's built-in full automatic calendar makes allowances for different month lengths and leap years. Once you set the date, there should be no reason to change it except after you have the watch's battery replaced or when battery power drops to Level 3.
- The date will change automatically when the current time reaches midnight. The date change at the end of the month may take more time than normal.
- The current time for all time zones in the Timekeeping Mode and World Time Mode is calculated in accordance with the Coordinated Universal Time (UTC) offset of each zone, based on your Home Time Zone time setting
maintained atomic (cesium) clocks that keep time accurately to with upon carefully Leap seconds are added or subtracted as necessary to keep UTC in sync with the Earth's rotation. The reference point for UTC is Greenwich, England.


## Operation Guide 5007

Power Saving
Power Saving enters a sleep state automatically whenever the watch is left for a certain period in an area where it is dark. The table below shows how watch functions are affected by Power Saving

- There actually are two sleep state levels: "second hand sleep" and "function sleep"

| Elapsed Time in Dark | Operation |
| :--- | :--- |
| 60 to 70 minutes <br> (second hand sleep) | Second hand only is stopped, all other functions are <br> enabled. |
| 6 or 7 days <br> (function sleep) | $\bullet$ All functions, including analog timekeeping, disabled <br> $\bullet$ Internal timekeeping maintained |

- Wearing the watch inside the sleeve of clothing can cause it to enter the sleep state.
- The watch will not enter the sleep state between 6:00 AM and 9:59 PM. If the watch
is already in the sleep state when 6:00 AM arrives, however, it will remain in the sleep state.
To recover from the sleep state
Perform any one of the following operations.
- Move the watch to a well-lit area.
- Press any button.


## Specifications

Accuracy at normal temperature: $\pm 20$ seconds a month (with no signal calibration) Timekeeping: Hour, minutes (hand moves every 10 seconds), seconds, 24 -hour, day,

Calendar system: Full Auto-calendar pre-programmed from the year 2000 to 2099
Other: Home City code (can be assigned one of 30 city codes); Daylight Saving Time (summer time) / Standard Time
Time Calibration Signal Reception: Auto receive up to six times a day (Remaining auto receives cancelled as soon as one is successful); Manual receive
Receivable Time Calibration Signals:
Mainflingen, Germany (Call Sign: DCF77, Frequency: 77.5 kHz ); Anthorn England (Call Sign: MSF, Frequency: 60.0 kHz ); Fukushima, Japan (Call Sign: JJY, Frequency: 40.0 kHz ); Fukuoka/Saga, Japan (Call Sign: JJY, Frequency: 60.0 kHz ); Fort Collins, Colorado, the United States (Call Sign: WWVB, Frequency: 60.0 kHz
World Time: 29 cities (29 time zones)
Other: Standard Time/Daylight Saving Time (summer time); Home City/World Time City swapping
Stopwatch: Measuring capacity: 59'59.95 Measuring unit: $1 / 20$ second
Countdown Timer:
Measuring unit: 1 second
Input range: 1 to 30 minutes (1-minute increments)
Other: Progress beeper; One-touch reset of countdown start time to 5 minutes
Other: Power Saving
Power Supply: Solar cell and one rechargeable battery
Approximate battery operating time: 5 months (from full charge to Level 3 ) under
e following conditions

- Watch is not exposed to light
- Internal timekeeping
- Analog hands operational 18 hours per day, sleep state 6 hours per day
- 10 seconds of alarm operation per day

City Code Table

| City <br> Code | City | UTC Offset/ <br> GMT Differential |
| :---: | :---: | :---: |
| PPG | Pago Pago | -11.0 |
| HNL | Honolulu | -10.0 |
| ANC | Anchorage | -09.0 |
| LAX | Los Angeles | -08.0 |
| DEN | Denver | -07.0 |
| CHI | Chicago | -06.0 |
| NYC | New York | -05.0 |
| SCL | Santiago | -04.0 |
| RIO | Rio De Janeiro | -03.0 |
| FEN | Fernando de Noronha | -02.0 |
| RAI | Praia | -01.0 |
| UTC |  | +00.0 |
| LON | London | +01.0 |
| PAR | Paris | +02.0 |
| ATH | Athens | +02.0 |


| City <br> Code | City | UTC Offset/ <br> GMT Differential |
| :---: | :---: | :---: |
| JED | Jeddah | +03.0 |
| THR | Tehran | +03.5 |
| DXB | Dubai | +04.0 |
| KBL | Kabul | +04.5 |
| KHI | Karachi | +05.0 |
| DEL | Delhi | +05.5 |
| DAC | Dhaka | +06.0 |
| RGN | Yangon | +06.5 |
| BKK | Bangkok | +07.0 |
| HKG | Hong Kong | +08.0 |
| TYO | Tokyo | +09.0 |
| ADL | Adelaide | +09.5 |
| SYD | Sydney | +10.0 |
| NOU | Noumea | +11.0 |
| WLG | Wellington | +12.0 |

- The rules governing global times (UTC offset and GMT differential) and summer time are determined by each individual country.
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