## CASIO

## 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. • Be sure to keep all user documentation handy for future reference.

## Keep the watch exposed to bright light

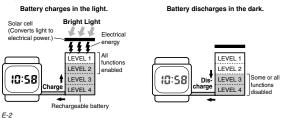


d to bright light
The electricity generated by the solar cell of the watch is stored by a rechargeable battery. Leaving or using the watch where it is not exposed to light causes the battery to run down. Make sure the watch is exposed to light as much as possible.
When you are not wearing the watch on your wrist, 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. Charging is reduced significantly if the face is covered only partially.

E-1

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
functions to be disabled. If the battery goes dead, you will have to re-configure watch
settings after recharging. To ensure normal watch operation, be sure to keep it
exposed to light as much as possible.



- The actual level at which some functions are disabled depends on the watch model.
  Frequent display illumination can run down the battery quickly and require charging. The following guidelines give an idea of the charging time required to recover from a single illumination operation.
  Approximately 5 minutes exposure to bright sunlight coming in through a window Approximately 8 hours exposure to indoor fluorescent lighting
  Be sure to read "Power Supply" (page E-39) for important information you need to know when exposing the watch to bright light.

## If the display of the watch is blank ...

If the display of the watch is blank, it means that the watch's Power Saving function has turned off the display to conserve power. See "Power Saving Function" (page E-51) for more information.

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E-5

#### About This Manual

Button operations are indicated using the letters shown in the illustration.
 Each section of this manual provides you with the information you need to perform operations in each mode. Further details and technical information can be found in the "Reference" section.

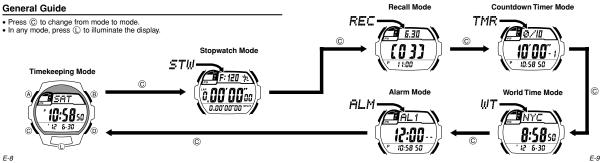
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Procedure Lookup The following is a handy reference list of all the operational procedures contained in this manual

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CASIO

In the Timekeeping Mode, holding down  $\bigcirc$  for about three seconds will enter the demo mode. In the demo mode, the screen cycles through the normal timekeeping, stopwatch, and World Time screens in five-second intervals.

To exit the demo mode



#### Timekeeping

Use the Timekeeping Mode to set and view the current time and date.





Read This Before You Set the Time and Date!

This watch is preset with a number of city codes, each of which represents the time zone where that city is located. When setting the time, it is important that you first select the correct city code for your Home City (the city where you normally use the watch). If your location is not included in the preset city codes, select the preset city code that is in the same time zone as your location. Note that all of the times for the World Time Mode city codes (page E-29) are displayed in accordance with the time and date settings you configure in the Timekeeping Mode.

E-11

• The following steps explain how to configure timekeeping settings only. 4. When the timekeeping setting you want to change is flashing, use (1) or (18) to change it as described below.

| Screen: | To do this:   | Do this:                       |
|---------|---|--------------------------------|
| TYO     | Change the city code  | Use (D) (east) and (B) (west). |
| ON      | Toggle between Daylight Saving Time ( <i>DN</i> )<br>and Standard Time ( <i>DFF</i> ) | Press D.                       |
| 12H     | Toggle between 12-hour ( $1 \ge H$ ) and 24-<br>hour ( $\ge 4H$ ) timekeeping         | Press D.                       |
| 50      | Reset the seconds to 00   | Press D.                       |
| ° 10:58 | Change the hour and minutes   | Use $(D)$ (+) and $(B)$ (-).   |

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- 12-hour and 24-hour timekeeping
  With the 12-hour format, the P (PM) indicator appears to the left of the hour digits for times in the range of noon to 11:59 p.m. and no indicator appears to the left of the hour digits for times in the range of midnight to 11:59 a.m.
  With the 24-hour format, times are displayed in the range of 0:00 to 23:59, without powindicator.
- any indicator. The 12-hour/24-hour timekeeping format you select in the Timekeeping Mode is
- applied in all other modes

## 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

E-15

## Stopwatch



Lan time

0..00'00'00 \*\*\*

Split time

- The 1/100-second stopwatch can measure elapsed time The 1/10U-second stopwatch can measure elapsed time and lapspiti times. Stopwatch times are stored in memory.
   The stopwatch measurement operation continues even if you exit the Stopwatch Mode.
   Exiting the Stopwatch Mode while a lap/split time is frozen on the display clears the lap/split time and returns the cleared time mergement.
- to elapsed time measurement.
- All of the operations in this section are performed in the Stopwatch Mode, which you enter by pressing  $\ensuremath{\mathbb{C}}$  (page E-8)

#### Note

. See page E-49 for information about the type of data the watch stores in memory when you use the stopwatch. • Use the Recall Mode (page E-21) to view data stored in memory

E-17

To measure times with the stopwatch Lap/Split indicator

Lap time A 1001 003482 D.D.B. A. S. Star C

|    | Elapsed Tim                | ne        |  |      |       |
|----|----------------------------|-----------|--|------|-------|
| ~  | $\square \longrightarrow$  |           | $\rightarrow \mathbb{D} \longrightarrow$ |      | ►®    |
| B  | Start                      | Stop      | Re-start                                 | Stop | Clear |
| 5  | Lap/Split Ti               | mes       |  |      |       |
| IJ | $\bigcirc \longrightarrow$ | B→        | • ®                                      |      | ►®    |
| 0  | Start                      | Lap/Split | Next Lap/                                | Stop | Clear |
| U  |                            |           | Split                                    |      |       |

D

4. When the setting you want is selected, press (A) to exit

the setting screen. • The **DST** indicator appears to indicate that Daylight

DST on (DN)

Split time Lap/Split indicator Note

- Note spin the Lapison indicator Pressing (B) to perform a lap/split time operation freezes the lap/split time at that point on the display for about eight seconds. After that, the display returns to normal stopwatch time measurement. During a stopwatch time measurement operation, the current lap/split number is shown at the top of the display, and the lap time and split time are shown in the middle and at the bottom. You can change the positions of the lap time and split time by pressing (A) while a stopwatch operation is in progress or stopped. For details, refer to "To position the lap time and split time on the display" (page E-19). E-18

E-18

To position the lap time and split time on the display Each press of (A) cycles the lap time and split time positions in the sequence shown below

You can perform the above operation while stopwatch operation is ongoing or stopped

Remaining memory Lap time Graphic Area Split time Lap time Split time F: 120 \* ●**/\_\_\_**<u>F:120</u> ★ ● F: 120 \* A A 0.000000 10:58 50 0.00°00″00″ 0.00.0000 C 0.00.00.00 artu 0.00'00'00 10-58 50 Hours Seconds Split time Lap time Hours Seconds Mi tes inutes A

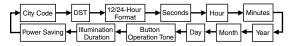


To set the time and date

In the Timekeeping Mode, hold down (a) until the city code starts to flash, which indicates the setting screen.
 Use (b) and (b) to select the city code you want.
 Make sure you select your Home City code before

changing any other setting.For full information on city codes, see the "City Code Table" at the back of this manual.

3. Press (C) to move the flashing in the sequence shown below to select the other settings



E-12

E-10

| Screen:      | To do this:   | Do this:               |
|--------------|---|------------------------|
| 20 12 6-30   | Change the year, month, or day  | Use () (+) and () (-). |
| MUTE / KEY_h | Toggle the button operation tone between<br>KEY h (on) and MUTE (off)   | Press D.               |
| LT1          | Toggle the illumination duration between<br>LT1 (approximately 1.5 seconds) and<br>LT3 (approximately 3 seconds). | Press D.               |
| PSon         | Toggle between Power Saving on ( <b>[</b> ] <b>(</b> ) and off ( <b>[</b> ] <b>FF</b> )                           | Press D.               |

₩:5<u>6</u>

6-30 //<sub>D</sub>

DST indicato

5. Press (A) to exit the setting screen.
The day of the week is displayed automatically in accordance with the date (year, month, and day) settings.

DST off (**OFF**)

Saving Time is turned on

#### E-14

E-16

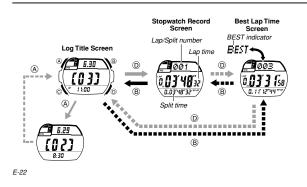
# To change the Daylight Saving Time (summer time) setting 1. In the Timekeeping Mode, hold down (a) until the city code starts to flash, which indicates the setting screen. 2. Press (C) and the DST settings in the sequence shown below.

A graphic animation plays on the display while a stopwatch timing operation is being performed. You can toggle the animation on and off by holding down (A) while the stopwatch is reset to all zeros.



Whenever the elapsed time exceeds 10 hours, the measurement changes from 1/100-second units to 1-second units.

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- To delete all logs
  1. While holding down (B), hold down (D) for about five seconds until the watch beeps
- "CLR" will flash on the display for two seconds and then the watch being own (b), hold own (b) is about the seconds and then the watch will beep once. Keep (b) and (b) depressed and "ALL" will flash on the display for two seconds, and then the watch will beep again. This indicates that all log data is cleared.
  You cannot delete logs while an elapsed timing operation is in progress.

#### **Recall Mode**

Creation date (Month - Day) REC 6.30 [[]] 71:00 7/<sub>0</sub>



vas performed Log Title Screen

Use the Recall Mode to recall and delete records stored by the Stopwatch Mode.

- by the Stopwatch Mode.
  Stopwatch records are stored in "logs" that are created automatically by the watch. See "Memory Management" on page E-47 for more information.
  The title screen of the newest log appears first whenever you enter the Recall Mode.
  Log numbers are automatically assigned in sequence, starting from 0 1.
  All of the operations in this section are performed in the section are performed in
- All of the operations in this section are performed in the
- Recall Mode, which you enter by pressing  $\bigcirc$  (page E-9).

To recall stopwatch records In the Recall Mode, use (a) to scroll through the log title screens, starting from the newest one, as shown below. When the title screen of the log you want is displayed, use (D) (+) and (B) (-) to cycle through the records contained in the log.

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- The locations of the lap time and split time in the Stopwatch Record screen are determined by the display format you last selected in the Stopwatch Mode (page
- The locations of the tap time and split time in the Stopwatch needed schedulare determined by the display format you last selected in the Stopwatch Mode (page E-17). The BEST indicator identifies the record that contains the best lap time in the log. If a best lap time record is deleted automatically when the log becomes full, the BEST indicator will not be transferred to the record with the next best lap time. See "Memory Management" on page E-47 for more information about automatic deletion of records.

- *To delete a log* 1. In the Recall Mode, display the title screen or one of the records of the log you want to delete
- While holding down (B), hold down (D) for about two seconds until the watch beeps.
   "CLR" will flash on the display for two seconds and then the watch will beep. Release (B) and (D) at this time
- You cannot delete the log of an ongoing elapsed time measurement operation.

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#### **Countdown Timer**



Dual timers can be set with two different starting times. The watch can be configured so the two timers alternate, so when one reaches the end of its countdown, the other so when one reaches the end of its countdown, the other timer starts. You can specify a "number of repeats" value, which controls how many times the two-timer countdown operation is performed (1 = once, 2 = twice, etc.). The starting time of each timer can be set in five-second steps up to 99 minutes, 55 seconds. You can specify up to 10 repeats. The watch emits a short beep whenever either of the timers reaches the end of its countdown during an ongoing timer operation. The watch emits a 5-second beep when the end of the final timer operation (specified by the number of repeats) is reached.

#### Countdown End Beeper

The countdown end beeper lets you know when the countdown reaches zero. The beeper stops after about 5 seconds or when you press any button.

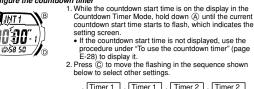
E-25

## E-24

## To configure the countdown timer

<u> 11/17 1</u>

10.58 50



. If the countdown start time is not displayed, use the

Timer 1 Minutes Timer 1 Seconds Timer 2 Minutes Seconds

Number of Repeats

3. When the setting you want to change is flashing, use (D) and (B) to change it as described below Settina Screen Τ Button Operation

| Minutes, Seconds  | 00'00'' | Use $\textcircled{D}$ (+) and $\textcircled{B}$ (-) to change the setting. |
|-------------------|---------|--|
| Number of Repeats | /1      | Use $\textcircled{D}$ (+) and $\textcircled{B}$ (–) to change the setting. |

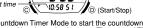
 To disable either timer, set 00'00" as its countdown start time. 4. Press (A) to exit the setting screen

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#### To use the countdown times Current repeat count

Preset number of repeats (Reset)





- Press (1) while in the Countdown Timer Mode to start the countdown timer. The countdown is performed by alternating between Timer 1 and Timer 2. A short beep is emitted to signal a changeover from one timer to the other. Press (1) to pause a countdown. Press (1) again to resume. Pressing (3) while a countdown timer is stopped resets it to the start time specified buyout
- by you.
   The watch emits a 5-second beep when the end of the final timer operation (specified by the number of repeats) is reached.
   Even if you exit the Countdown Timer Mode, the countdown timer operation continues and the watch beeps as required.

## World Time



elected city

World Time shows the current time in 48 cities (31 time

- World Time shows the current time in 48 cities (31 time zones) around the world.
  The times kept in the World Time Mode are synchronized with the time being kept in the Timekeeping Mode. If you feel that there is an error in any World Time Mode time, check to make sure you Home City. Also check to make sure that the current time as shown in the Timekeeping Mode is correct.
  Select a city code in the World Time Mode to display the current time in any particular time zone around the globe. See the "City Code Table" at the back of this manual for information about the UTC differential settings that are supported.
  All of the operations in this section are performed in the World Time Mode, which you enter by pressing (c) (page E-9).
- (page E-9). E-29

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To view the time in another city While in the World Time Mode, use (D) (eastward) and (B) (westward) to scroll through the city codes (time zones). Pressing (D) and (B) at the same time will jump to the UTC time zone.

- NYC 9:58:50 6-30 D 12 DST indicato
- To toggle a city code time between Standard Time and Daylight Saving Time 1. In the World Time Mode, use ① and ⑧ to display the city code (time zone) whose Standard Time/Daylight

  - city code (time zone) whose standard i ime/Uaylight Saving Time setting you want to change.
    2. Hold down (a) to toggle between Daylight Saving Time (DST indicator displayed) and Standard Time (DST indicator not displayed).
    The DST indicator is shown on the World Time Mode screen while Daylight Saving Time is turned on.
    Note that the Standard Time/Daylight Saving Time settion affects only the currently direlayed city code
  - Note that the standard time Daylight Saving time setting affects only the currently displayed city code.
     Other city codes are not affected.
     Note that you cannot switch between Standard Time and Daylight Saving Time while UTC is selected as the city code.

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E-33

## E-30

## Alarms

E-32

E-34

E-36

Alarm Operation

To test the alarm In the Alarm Mode, hold down (1) to sound the alarm.

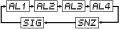


The Alarm Mode gives you a choice of four one-time alarms and one snooze alarm. Also use the Alarm Mode to turn the Hourly Time Signal (SIG) on and off. There are five alarm screens numbered RL 1, RL2, RL3 and RL4 for the one-time alarm, and a snooze alarm screen indicated by SNZ. The Hourly Time Signal screen is indicated by SIG. All of the operations in this section are performed in the Alarm Mode, which you enter by pressing C (page E-9).

- To set an alarm time <u>A</u>AL1



1. In the Alarm Mode, use (1) to scroll through the alarm screens until the one whose time you want to set is displayed.



- To set a one-time alarm, display alarm screen AL 1, AL2, AL3 or AL4. To set the snooze alarm, display the SNZ screen.
  The snooze alarm repeats every five minutes.
  After you select an alarm, hold down (a) until the hour setting of the alarm time starts to flash, which indicates the setting screen.
  This operation turns on the alarm automatically.
  Press (b) to move the flashing between the hour and minute settings.
  While a setting is flashing, use (b) (+) and (a) (-) to change it.
  With the 12-hour format, set the time correctly as a.m. or p.m. (P indicator).
  S Press (b) to exit the setting screen.
- 5. Press (A) to exit the setting screen.

2

To turn an alarm on and off

#### Alarm on indicator Snooze alar





On : Alarm or - : Alarm of

fr 1. In the Alarm Mode, use ⑥ to select an alarm. 2. Press ⑧ to toggle it on and off. ● Turning on a alarm (円上1, 日上2, 日上3, 円上4 or ≤ FNZ) displays the alarm on indicator on its Alarm Mode In all modes, the alarm on indicator is shown for any alarm that currently is turned on.
 The alarm on indicator flashes while the alarm is counding.

- sounding.The snooze alarm indicator flashes while the snooze
- alarm is sounding and during the 5-minute intervals between alarms.

E-35



An LED (light-emitting diode) illuminate the display for easy reading in the dark.

- Illumination Precautions
   The illumination provided by the light may be hard to see when viewed under direct sunlight. · Illumination automatically turns off whenever an alarm
- Frequent use of illumination runs down the battery

## To illuminate the display manually In any mode, press $\bigcirc$ to turn on illumination.

• You can use the procedure below to select either 1.5 seconds or 3 seconds as the illumination duration. When you press  $(\!\!\!\!D)$ , the illumination will remain on for about 1.5 seconds or 3 seconds, depending on the current illumination duration setting.

E-37

**10:58**50,

6-30 /16

:00\*

10:58

- To specify the illumination duration 1. In the Timekeeping Mode, hold down (a) until the display contents start to flash. This is the setting screen. 2. Press (c) 10 times until the current illumination duration setting (L T 1 or L T 3) appears.

  - 3. Press D to toggle the setting between L T 1
  - (approximately 1.5 seconds) and LTΞ (approximately 3 seconds). 4. Press (A) to exit the setting screen.

## Power Supply

This watch is equipped with a solar cell and a rechargeable 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

- Example: Orient the watch so its face is pointing at a light source.
   The illustration shows how to position a watch with a resin band.
   Note that charging efficiency drops when any part of the solar cell is blocked by alothing others.
- any part of the solar cen is brance by containing etc.
  You should try to keep the watch outside of your sleeve as much as possible. Charging is reduced significantly if the face is covered only partially.



Solar cell

sounds.

Illumination









 To turn the Hourly Time Signal on and off

 Hourly time signal on indicator

 Indicator

 Image: Signal on and off

 1. In the Alarm Mode, use ID to select the Hourly Time Signal (SIG).

 2. Press ID to toggle it on and off.

 The Hourly Time Signal on indicator is shown on the display in all modes while this function is turned on.

# Alarm Operation The alarm tone sounds at the preset time for 10 seconds, regardless of the mode the watch is in. In the case of the snooze alarm, the alarm operation is performed a total of seven times, every five minutes, until you turn the alarm oft (page E-35). A larm and Hourly Time Signal operations are performed in accordance with the Timekeeping Mode time. To stop the alarm tone after it starts to sound, press any button. Performing any one of the operations below during a 5-minute interval between snooze alarms cancels the current snooze alarm operation. Displaying the Timekeeping Mode setting screen (page E-12) Displaying the SINZ setting screen (page E-33)

## CASIO

#### Important!

- 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. Be sure that the watch is exposed to bright light whenever
- power to run down, be sure that the water to store power produced by the solar cell, so possible. This watch uses a rechargeable battery to store power produced by the solar cell, so regular battery replacement is not required. However, after very long use, the rechargeable battery may lose its ability to achieve a full charge. If you experience problems getting the rechargeable battery to charge fully, contact your dealer or CASIO distributor about having it replaced. Never try to remove or replace the watch's rechargeable battery yourself. Use of the
- Never try to remove or replace the watch's rechargeable battery yourself. Use of the wrong type of battery can damage the watch.
  All data stored in memory is deleted, and the current time and all other settings return to their initial factory defaults whenever battery power drops to Level 5 (pages E-41 and E-42) and when you have the battery replaced.
  Turn on the watch's Power Saving function (page E-51) and keep it in an area normally exposed to bright light when storing it for long periods. This helps to keep the rechargeable battery from onice dead
- the rechargeable battery from going dead.

E-40

- The flashing L and LOW indicators at level 3 tell you that battery power is very low, and that exposure to bright light for charging is required as soon as possible.
  At Level 5, all functions are disabled and settings return to their initial factory defaults. Once the battery reaches Level 2 after falling to Level 5, reconfigure the current time, date, and other settings.
  The watch's Home City code setting will change automatically to TYO (Tokyo) whenever the battery drops to Level 5.
  Display indicators reappear as soon as the battery is charged from Level 5 to Level 2.
  Leaving the watch exposed to direct sunlight or some other very strong light source can cause the battery level. The correct battery level should be indicated after a few minutes. minutes

#### E-42

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. Also note that allowing the watch to become very hot can cause its liquid crystal display to black out. The appearance of the LCD should become normal again when the watch returns to a lower temperature.

#### Warning!

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

#### E-44

#### **Recovery Times**

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

| Exposure Level  | Approximate Exposure Time |                         |  |           |          |
|---|---------------------------|-------------------------|--|-----------|----------|
| (Brightness)  | Level 5                   | Level 5 Level 4 Level 3 |  | Level 2   | Level 1  |
|   |                           |                         |  |           |          |
| Outdoor Sunlight<br>(50,000 lux)                            |                           | 3 hours                 |  | 23 hours  | 7 hours  |
| Sunlight Through a<br>Window (10,000 lux)                   | 9 hours                   |                         |  | 115 hours | 31 hours |
| Daylight Through a<br>Window on a Cloudy<br>Day (5,000 lux) | 17 hours                  |                         |  | 234 hours | 63 hours |
| Indoor Fluorescent<br>Lighting (500 lux)                    | 202 hours                 |                         |  |           |          |

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

A log title screen identifies a single elapsed time operation, from the start up to the point the stopwatch is reset to all zeros.
A lap/split time record is stored under a log title screen each time you perform a lap/ split operation.

#### Example 1

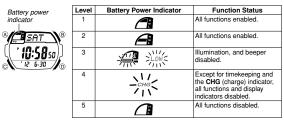
Example 1 Single elapsed time measurement Log title screen + 120 lap records = 121 records Example 2 Multiple elapsed time measurements Measurement 1 log title screen + 60 lap records = 61 records Measurement 2 log title screen + 59 lap records = 60 records

Use the Recall Mode to view stopwatch records (page E-21).
If watch memory is already full when you perform a stopwatch button operation that creates a new log, the oldest log in memory and all of its records are deleted automatically to make room for the new log.
If you are adding records to the only log in memory and watch memory becomes full, adding another record causes the oldest record in the log to be deleted automatically to make room for the new record.

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#### **Battery Power Indicator and Recover Indicator**

The battery power indicator on the display shows you the current status of the rechargeable battery's power.



E-41



Performing illumination, or beeper operations during a short period may cause a (recover) to appear on the display.
 After some time, battery power will recover and a (recover) will disappear, indicating that the above functions are enabled again.
 If a (recover) appears frequently, it probably means that remaining battery power is low. Leave the watch in bright light to allow it to charge.



ovimate

Charging Guide The following table shows the amount of time the watch needs to be exposed to light each day in order to generate enough power for normal daily operations.

#### Exposure Level (Brightness

| Exposure Lever (Brighness)                            | Exposure Time |
|---|---------------|
| Outdoor Sunlight (50,000 lux)                         | 5 minutes     |
| Sunlight Through a Window (10,000 lux)                | 24 minutes    |
| Daylight Through a Window on a Cloudy Day (5,000 lux) | 48 minutes    |
| Indoor Eluorescent Lighting (500 lux)                 | 8 hours       |

For details about the battery operating time and daily operating conditions, see the "Power Supply" section of the Specifications (page E-56).
Stable operation is promoted by frequent exposure to light.

#### 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.

#### Stopwatch

. You can use lap time measurement to time how long it takes to complete a specific

You can use split time measurement to time how long it takes to get from the start to a specific point in a race.

#### emory Management

Memory Management Each time you press (0) to start a new elapsed time or lap/split operation in the Stopwatch Mode (page E-17), the watch automatically creates a new "log" in its memory. The log remains open for data storage until you permanently close it by pressing (6) to clear the stopwatch to all zeros. The watch has enough memory to hold up to 121 records. Each log title screen (start date and time) and lap/split time uses up one record.

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If you are adding records to a log when there are multiple logs in memory and watch memory becomes full, adding another record causes the oldest log in memory and all of its records to be deleted automatically to make room for new records.

How Stopwatch Data is Stored The following table describes how data is stored when you perform the various button operations described on page E-18.

| Stopwatch Button Operation | Data Store Operation   |
|----------------------------|--|
| D Start (from all zeros)   | Creates a new log for the current date. (The log is updated as timing progresses.)         |
| D Stop                     | Time measurement stops, without storing data in<br>memory.                                 |
| D Re-start                 | Time measurement re-starts, without storing<br>data in memory.                             |
| B Lap/Split                | Creates new record: displayed lap/split times  |
| B Clear                    | Creates new record: displayed lap/split times (Stopwatch display is cleared to all zeros.) |

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#### **Button Operation Tone**



The button operation tone sounds any time you press one of the watch's buttons. You can turn the button operation tone on or off as desired. Even if you turn off the button operation tone, alarms, the Hourly Time Signal, and other beepers all operate percendity.

normally.



- To turn the button operation tone on and off To turn the button operation tone on and off 1. In the Timekeeping Mode, hold down (a) until the city code starts to flash, which indicates the setting screen. 2. Press (C) nine times until the current button operation tone setting (*KEY* or *MUTE*) appears. 3. Press (C) to toggle the setting between *KEY* (tone on) and *MUTE* (tono ch)

E-50

- and *HUTE* (tone off).
   Press (a) to exit the setting screen.
   The mute indicator is displayed in all modes when the button operation tone is turned off.

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. • Nove the watch to a well-lit area.

· Press any button.

To turn Power Saving on and off



- 1. In the Timekeeping Mode, hold down (a) until the city code starts to flash, which indicates the setting screen. 2. Press (c) 11 times until the Power Saving on/off screen 2. Press () If these thin his rows being appears.
  3. Press () to toggle Power Saving on (**f** (**f**)) and off (**f**).
  4. Press () to exit the setting screen.
  5. The Power Saving indicator is on the display in all modes while Power Saving is turned on.
- . On/Off status

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- Timekeeping
  Resetting the seconds to 00 while the current count is in the range of 30 to 59 causes the minutes to be increased by 1. In the range of 00 to 29, the seconds are reset to 00 without changing the minutes.
  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.
  The current time for all city codes in the Timekeping Mode and World Time Mode is calculated in accordance with the Coordinated Universal Time (UTC) for each city, based on your Home City time setting.

#### World Time

The seconds count of the World Time is synchronized with the seconds count of the Timekeeping Mode.

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World Time: 48 cities (31 time zones)

Other: Daylight Saving Time/Standard Time Other: Daylight Saving Time/Standard Time Alarms: 5 daily alarms (four one-time alarms; one snooze alarm); Hourly Time Signal Illumination: LED (light-emitting diode); Selectable illumination duration Other: Button operation tone on/off

 Other: Button operation tone one one chargeable battery

 Approximate battery operating time: 11 months (from full charge to Level 4) under the following conditions:

 • Watch not exposed to light

 • Internal timekeeping

 • Display on 18 hours per day, sleep state 6 hours per day

 • 1illumination operation(1.5 second) per day

 • 10 seconds of alarm operation per day

Citv

Code RIO

FEN

RAI

UTC LIS

LON

MAD

PAR

BOM

BER

STO ATH

CAI

JRS

Citv

Rio De Janeiro

Fernando de Noronh

Praia

Lisbor

London

Madrid

Paris

Rome

Berlin

Stockholm Athens

Cairo

Jerusale

UTC Offset/

GMT Differential

0

+1

+2

Frequent use of illumination runs down the battery.

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| City | Code Table |   |
|------|------------|---|
|      |            | - |

|        | City<br>Code | City        | UTC Offset/<br>GMT Differential |
|--------|--------------|-------------|---------------------------------|
|        | PPG          | Pago Pago   | -11                             |
|        | HNL          | Honolulu    | -10                             |
|        | ANC          | Anchorage   | -9                              |
|        | YVR          | Vancouver   | 8                               |
|        | LAX          | Los Angeles | -0                              |
|        | YEA          | Edmonton    | -7                              |
|        | DEN          | Denver      | -/                              |
|        | MEX          | Mexico City | -6                              |
|        | CHI          | Chicago     | -0                              |
|        | NYC          | New York    | -5                              |
| SCL Sa |              | Santiago    | _4                              |
|        | YHZ          | Halifax     | -4                              |
|        | YYT          | St. Johns   | -3.5                            |

### Power Saving Function



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

| Elapsed Time<br>in Dark | Display  | Operation   |
|-------------------------|--|---|
| 60 to 70 minutes        | Blank, with Power Saving<br>indicator flashing     | All functions enabled, except for the display           |
| 6 or 7 days             | Blank, with Power Saving<br>indicator not flashing | Beeper tone, illumination, and display<br>are disabled. |

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## Auto Return

Auto network If you do not perform any operation for about two or three minutes while a setting screen (with a flashing setting) is on the display, the watch will exit the setting screen automatically.

## Scrolling

The B and D are used in various modes and setting screens to scroll through data on the display. In most cases, holding down these buttons during a scroll operation scrolls at high speed.

#### Initial Screens

When you enter the World Time Mode or Alarm Mode, the data you were viewing when you last exited the mode appears first.

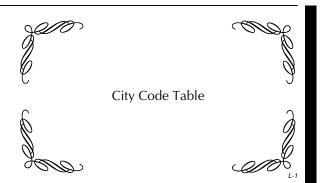
E-53

## Specifications

- Specifications
  Accuracy at normal temperature: ± 30 seconds a month
  Timekeeping: Hour, minutes, seconds, p.m. (P), year, month, day, day of the week
  Time format: 12-hour and 24-hour
  Calendar system: Full Auto-calendar pre-programmed from the year 2000 to 2099
  Other: Home Gity code (can be assigned one of 48 city codes); Standard Time /
  Daylight Saving Time (summer time)
  Stopwatch: Time measurements
  Measuring capacity: 921 records (used by lap/split times
  Measuring modes: Elapsed time, lap/split time records and log title screens)
  Countdown Timer:
  Number of timers: 2 (one set)
  Setting unit: 5 seconds
  Range: 99 minutes 55 seconds each timer
  Countdown unit: 1 second

- Range: 99 minutes 55 Sec Countdown unit: 1 second
- Number of repeats: 1 to 10 Other: 5-second time up beeper

E-55



| City<br>Code | City      | UTC Offset/<br>GMT Differential |
|--------------|-----------|---------------------------------|
| MOW          | Moscow    | +3                              |
| JED          | Jeddah    | +3                              |
| THR          | Tehran    | +3.5                            |
| DXB          | Dubai     | +4                              |
| KBL          | Kabul     | +4.5                            |
| KHI          | Karachi   | +5                              |
| DEL          | Delhi     | +5.5                            |
| KTM          | Kathmandu | +5.75                           |
| DAC          | Dhaka     | +6                              |
| RGN          | Yangon    | +6.5                            |
| BKK          | Bangkok   | +7                              |

| City<br>Code | City       | UTC Offset/<br>GMT Differential |
|--------------|------------|---------------------------------|
| SIN          | Singapore  | +8                              |
| HKG          | Hong Kong  |                                 |
| BJS          | Beijing    |                                 |
| TPE          | Taipei     |                                 |
| SEL          | Seoul      | +9                              |
| TYO          | Tokyo      |                                 |
| ADL          | Adelaide   | +9.5                            |
| GUM          | Guam       | +10                             |
| SYD          | Sydney     |                                 |
| NOU          | Noumea     | +11                             |
| WLG          | Wellington | +12                             |

Based on data as of December 2010.
The rules governing global times (UTC offset and GMT differential) and summer time are determined by each individual country.

## CASIO