About This Manual

- · Button operations are indicated using the letters shown
- **(R) 1007** 1 SAT
- in the illustration.For the sake of simplicity, the sample displays in this For the sake of simplicity, the sample displays in this manual do not show the analog hands of the watch.
 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.
- DST_ALED 10:08 SAT

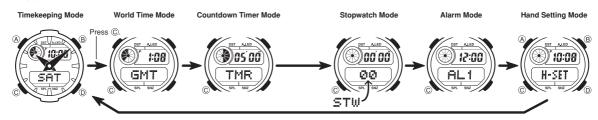
• Depending on the model of your watch, display text Depending on the model of your watch, display text appears either as dark figures on a light background or light figures on a dark background. All sample displays in this manual are shown using dark figures on a light background. For indicators, "On" is indicated by a dark indicator on the positive (dark-on-light) display, and by a light indicator on the negative (light-on-dark) display.



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General Guide

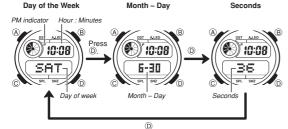
Press © to change from mode to mode.
In any mode (except when a setting screen is on the display), press ® to illuminate In any mod the display.



Timekeeping

This watch features separate digital and analog timekeeping. The procedures for setting the digital time and analog time are different.

. In the Timekeeping Mode, you can press D to change the display format as shown below



Digital Time and Date

- Digital Time and Date
 Use the Timekeeping Mode to set and view a digital display of the current time and date.
 When setting the digital time, you can also configure settings for summer time
 (Daylight Saving Time or DST), your Home City code (the code for the city where you normally use the watch), the 12/24-hour format, and the illumination duration.
 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 digital time, it is important that you select the correct city code for your Home City. If your location is not included in the preset city code, select the preset city code that is in the same time zone as your location. location.
- Note that all of the times for the World Time Mode city codes are displayed in accordance with the digital time and date settings you configure in the Timekeeping Mode
- After you correctly set your Home City time and date, you can set the watch up for timekeeping with a different city code simply by changing the Home City code in the Timekeeping Mode.



screen. 2. Press () twice to move the flashing to the Home City code setting (see the illustration below), and then use () and () to select the 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"

Table

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

Seconds ->	DST 🔶 Ho	me City Code	-> Hour	Minutes
Illumination Durati	on 🗲 Day 🗲	- Month	Year <	12/24-Hour Format

4. When the setting you want to change is flashing, use B and D to change it as described below

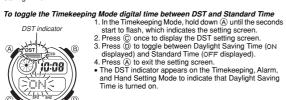
Screen	To do this:	Do this:	
36	Reset the seconds to @@	Press D.	
OFF	Toggle between Daylight Saving Time (ON) and Standard Time (OFF)	Press D.	
TYO	Change the Home City code	Use (D) (east) and (B) (west).	
10:08	Change the hour or minutes	Use () (+) and () (-).	
12H	Toggle between 12-hour (1 \ge H) and 24-hour (\ge 4H) timekeeping	Press D.	
2007	Change the year	Use () (+) and () (-).	
6-30	Change the month or day		
LT : Select three seconds or one second as the illumination duration		Press D.	

- ed automatically.
- Press (A) to exit the setting screen.
 Resetting the seconds only (without changing the DST, Home City code, hour, or minute setting) causes the analog minute hand setting to be adjusted automatical
 See "Digital Time Daylight Saving Time (DST) Setting" below for details about the Day
- DST setting. The 12-hour/24-hour timekeeping format you select in the Timekeeping Mode is
- applied in all modes.For details about illumination duration, see "Illumination".

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Digital Time Daylight Saving Time (DST) Setting Daylight Saving Time (summer time) advances the digital time setting by one hour from Standard Time. Remember that not all countries or even local areas use Daylight Saving Time



Setting the Analog Time

Perform the procedure below when the time indicated by the analog hands does not match the time of the digital display.

To adjust the analog time

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- In the Timekeeping Mode, press © five times to enter the Hand Setting Mode.
 Hold down (A) until the current digital time starts to flash, which indicates the analog setting screen.
 Press (D) to advance the analog time setting by

- 20 seconds
- Holding down (D) advances the analog time setting at high speed.
- If you need to advance the analog time setting a long way, hold down () until the time starts advancing at high speed, and then press (). This locks the high-speed hand movement, so you can release the two buttons. High-speed hand movement continues until you press any button. It will also stop automatically after the time advances 12 hours or if an alarm (daily alarm, Hourly Time Signal, are suptime became that he average and the stop advances of the stop and the stop advances of the stop adva or countdown beeper) starts to sound.

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- Press (a) to exit the setting screen.
 The watch will automatically adjust the minute hand slightly to match its internal second count when you exit the setting screen.
 To return to the Timekeeping Mode, press (c).

World Time



World Time digitally displays the current time in 27 cities (29 time zones) around the world. All of the operations in this section are performed in the World Time Mode, which you enter by pressing ©.

To view the time in another city In the World Time Mode, press (D) to scroll eastwardly For full information about city codes, see the "City Code"

- If the current time shown for a city is wrong, it probably
- means there is a problem with your Timekeeping Mode time and/or Home City code settings. Go to the Timekeeping Mode and make the necessary adjustments.

- - The DST indicator is on the display whenever you display a city code for which Daylight Saving Time is turned on.
 - Note that the DST/Standard 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 EMT is selected as the city code

Countdown Timer

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GMT

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The countdown timer can be set within a range of one minute to 60 minutes. An alarm sounds when the minute to 60 minutes. An alarm sounds when the countdown reaches zero. The countdown timer also has an auto-repeat feature and a progress beeper that signals the progress of the countdown. All of the operations in this section are performed in the Countdown Timer Mode, which you enter by pressing

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Configuring the Countdown Time The following are the settings you should configure before

actually using the countdown timer Countdown start time; Auto-repeat on/off; Progress

See "To configure the countdown timer" for information about setting up the timer.

Auto-repeat When auto-repeat is turned on, the countdown automatically restarts from the When auto-repeat is furned on, the countown automatically restants from the countdown start time when it reaches zero. If left running, the countdown is repeated a total of eight times, after which it stops automatically.
 When auto-repeat is turned off, the countdown stops when it reaches zero and the display shows the original countdown start time.
 Pressing ⁽ⁱ⁾ while an auto-repeat countdown is in progress pauses the current countdown. You can resume the auto-repeat countdown by pressing ⁽ⁱ⁾, or you can press ⁽ⁱ⁾ to reset to the countdown time starting value.

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 countdown end beeper lets you know when the countdown reaches zero. When the progress beeper is turned off, the countdown end beeper sounds for about 10 seconds, or until you press any button to stop it. When the progress beeper is turned on, the countdown end beeper sounds for
- - about one second.

Progress Beeper

- When the progress beeper is turned on, the watch uses beeps to signal countdown progress as described below. Starting from five minutes before the end of the countdown, the watch emits four short beeps at the top of each countdown minute. 30 seconds before the end of the countdown, the watch emits four short beeps.

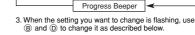
- The watch emits a short beep for each of the last 10 seconds of the countdown.
- If the countdown start time is six minutes or greater, the watch emits a short beep for each second of the final 10 seconds before the five-minute point is reached. Four short beeps are emitted to signal when the five-minute point is reached.



To configure the countdown timer . While the countdown start time is on the display in the Countdown Timer Mode, hold down (&) until the current countdown start time starts to flash, which indicates the countdown start time starts to flash, which indicates the setting screen.
 If the countdown start time is not displayed, use the procedure under "To use the countdown timer" to display it.
 Press © to move the flashing in the sequence shown below the counted with contrast.

below to select other settings

Start Time -> Auto-repeat



Setting	Screen	Button Operation
Start Time	05 [°] 00	Use () (+) and () (-) to change the setting. • You can set a start time in the range of 1 to 60 minutes in 1-minute increments.
Auto-repeat	B	Press () to toggle auto-repeat on (() displayed) and off () displayed).
Progress Beeper	ЪОN	Press (D) to toggle the progress beeper on (DN) and off (DF).

n

4. Press (A) to exit the setting screen.
You can also perform steps 1 and 2 of the above procedure whenever you need to view the current auto-repeat and progress beeper settings.

To use the countdown time

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- Press D while in the Countdown Timer Mode to start the **B**O<u>459</u>

 - Press () while in the Countdown Timer Mode to start the countdown timer.
 The countdown timer operation continues even if you exit the Countdown Timer Mode.
 Press () while a countdown operation is in progress to pause it. Press () again to resume the countdown.
 To completely stop a countdown operation, first pause it (by pressing ()), and then press (). This returns the countdown time to its starting value.



The stopwatch lets you measure elapsed time, split times, The stopwatch lets you measure elapsed time, spin tim and two finishes.
The display range of the stopwatch is 59 minutes, 59.99 seconds.
The stopwatch continues to run, restarting from zero

- after it reaches its limit, until you stop it.
- The stopwatch measurement operation continues even if you exit the Stopwatch Mode
- If you exit the Stopwatch Mode while a split time is frozen on the display clears the split time and returns to elapsed time measurement. All of the operations in this section are performed in the Stopwatch Mode, which you enter by pressing ©.
- 1/100 second

To measure times with the stopwatch

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Elapsed Time \bigcirc **)** D 🔶 🛈 = Stop Start Re-start Ston Clear Split Time (A) = (A) = (D) = ۱ س Start Split Split release Stop Clear (SPL displayed) Two Finishes A (D) (A) (A) (D) Split release Start Split Stop Clear First runner finishes. Display time of first runner. Second runner finishes. Display time or second runner

Stopwatch



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Alarms



You can set five independent Daily Alarms. When an alarm is turned on, the alarm tone sounds when the alarm time is reached. One of the alarms is a snooze alarm, time is reached. One of the alarms is a snoze alarm, while the other four are one-time alarms. You can turn on an Hourly Time Signal that causes the watch to beep twice every hour on the hour. • There are six screens in the Alarm Mode. Four are for one-time alarms (indicated by numbers from $\operatorname{FiL} 1$ through $\operatorname{FiL} 2$), one is for a snoze alarm (indicated by Fall 2).



(indicated by ShZ), and one is for the Hourly Time Signal (indicated by ShZ). And one is for the Hourly Time Signal (indicated by S1G). All of the operations in this section are performed in the Alarm Mode, which you enter by pressing \bigcirc .

To set an alarm time





- Cover and the setting screen.
 Cover a construction of the screens indicated by an alarm number from RL 1 through RL4. To set the snoze alarm, display the screen indicated by SNZ.
 The snoze alarm repeats every five minutes.
 2. After you select an alarm, hold down (³) until the hour setting of the alarm time starts to flash, which indicates the setting screen.
 This operation automatically turns on the alarm.
 3. Press (³) to move the flashing between the hour and minute settings.
 4. While a setting is flashing, use (³) (+) and (³) (-) to change it.
 When setting the alarm time using the 12-hour format, take care to set the time correctly as a.m. (no indicator) or p.m. (P indicator).
 5. Press (³) to exit the setting screen.

Alarm Operation

Alarm or perform of the preset time for about 20 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, or until you turn the alarm off. Alarm and Hourty Time Signal operations are performed in accordance with the Timekeeping Mode digital time.

- To stop the alarm tone after it starts to sound, press any button.
 Performing any one of the following operations during a 5-minute interval between
- snoze alarm scancels the current snoze alarm operation. Displaying the Timekeeping Mode setting screen Displaying the SH로 setting screen

To test the alarm

*) 3:00

arm Mode, hold down D to sound the alarm

To turn an alarm on and off

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Snooze alarm indicato



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- . In the Alarm Mode, use D to select an alarm. 1 . Press ④ to toggle it on and off. Turning on a one-time alarm (풔나 1 through 풔나랴) displays the alarm on indicator on its Alarm Mode
- Screen. Turning on the snooze alarm (SNZ) displays the alarm on indicator and snooze alarm indicator on the Alarm Mode snooze alarm screen, and in all other modes. In all modes (except for the Alarm Mode), the alarm on
- indicator is shown for any alarm that is currently turned on. • The alarm on indicator flashes while the alarm is
- The snooze alarm indicator flashes during the 5-minute intervals between alarms.

To turn the Hourly Time Signal on and off 1. In the Alarm Mode, use (1) to select the Hourly Time Signal (SIG). 2. Press (A) to toggle it on and off. The Hourly Time Signal on indicator is shown on the display on the Alarm Mode Hourly Time Signal screen, and in all other modes while the Hourly Time Signal is turned on.

turned on.

Illumination

Auto light switch indicato ALED

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Hourly time signal on indicator

An LED (light-emitting diode) illuminate the display for easy reading in the dark. The watch's auto light switch illuminates the display automatically when you angle the watch towards your face.

- The auto light switch must be turned on (indicated by the auto light switch indicator) for it to operate. • See "Illumination Precautions" for more important

To turn on illumination manually In any mode (except when a setting screen is on the display), press (B) to turn on

illumination The above operation turns on illumination regardless of the current auto light switch

information

- You can use the procedure below to select either one second or three seconds as the illumination duration. When you press (B), the illumination will remain on for about one second or three seconds, depending on the current illumination duration setting.



- 2 Press (C) nine times so the illumination duration setting
- Press © hine direction in manifestion duration setting screen is on the display.
 While the illumination duration setting is flashing, press
 © to toggle the setting between one second (*) and
- three seconds (#).
- 4. Press (A) to exit the setting screen.

About the Auto Light Switch

While the auto light switch is enabled, illumination turns on for about one second or three seconds, whenever you position your wrist as described below in any mode.

Moving the watch to a position that is parallel to the ground and then tilting it towards you more than 40 degrees causes illumination to turn on. • Wear the watch on the outside of your wrist.



Warning!

- Always make sure you are in a safe place whenever you are reading the watch using the auto light switch. Be especially careful when running or engaged in any other activity that can result in accident or injury. Also take care that sudden illumination by the auto light switch does not surprise or distract Δ1w others around you.
- When you are wearing the watch, make sure that its auto light switch is turned off before riding on a bicycle or operating a motorcycle or any other motor vehicle. Sudden and unintended operation of the auto light switch can create a distraction, which can result in a traffic accident and serious personal injury.

To turn the auto light switch on and off

In any mode, hold down (® for about two seconds to toggle the auto light switch on (auto light switch indicator displayed) or off (auto light switch indicator not displayed). The auto light switch indicator is on the display in all modes while the auto light switch is turned on.

In order to protect against running down the battery, the auto light switch automatically turns off approximately six hours after you turn it on.

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.

Graphic Area

The following describes the information indicated by the graphic area in each mode.



Auto Return Feature

If you leave a screen with flashing digits on the display for two or three minutes without performing any operation, the watch automatically exits the setting screen.

Scrolling

The B and D buttons 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 through the data at high speed.

Initial Screens

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

Timekeeping

- Resetting the seconds to øø 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 øø without changing the minutes.
 With the 12-hour format, the P (PM) indicator appears on the display for times in the range of noon to 11:59 p.m. and no indicator appears for times in the range of midnight to 11:59 p.m..
 With the 24-hour format, times are displayed in the range of 0:00 to 23:59, without any indicator.
- any indicator.
- The year can be set in the range of 2000 to 2039.
- 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 batteries replaced.

World Time

- All World Time Mode times are calculated from the current Home City time in the Timekeeping Mode using UTC time differential values.
 The UTC differential is a value that indicates the time difference between a reference point in Greenwich, England and the time zone where a city is located.
 The letters "UTC" is the abbreviation for "Universal Time Coordinated", which is the world-wide scientific standard of timekeeping. It is based upon carefully maintained atomic focume cleake that keep time accurately to within programmed. atomic (cesium) clocks that keep time accurately to within microseconds. Leap seconds are added or subtracted as necessary to keep UTC in sync with the Earth's rotation

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 sounds.
 Frequent use of illumination runs down the battery.

Auto light switch precautions

More than 15 degrees



- Avoid wearing the watch on the inside of your wrist. Doing so causes the auto light switch to operate when it is not needed, which shortens battery life. If you want to wear the watch on the inside of your wrist, turn off the auto light switch feature.
 Illumination may not turn on if the face of the watch is more than 15 degrees above or below parallel. Make sure that the back of your hand is parallel to the ground.
 Illumination turns off in about one second or three seconds, even if you keep the watch pointed towards your face.

- your tace. Static electricity or magnetic force can interfere with proper operation of the auto light switch. If illumination does not turn on, try moving the watch back to the starting position (parallel with the ground) and then tilt it back towards you again. If this does not work, drop your arm all the way down so it hangs at your side, and then bring it back up again. Under certain conditions, illumination may not turn on until about one second after you turn the face of the watch towards you. This does not necessarily indicate malfunction of the auto light switch. You may notice a very faint clicking sound coming from the watch when it is shaken back and forth. This sound is caused by mechanical operation of the auto light switch, and does not indicate a problem with the watch.

City Code Table

City Code	City	GMT Differential	Other major cities in same time zone		
		-11.0	Pago Pago		
HNL	Honolulu	-10.0	Papeete		
ANC	Anchorage	-09.0	Nome		
LAX	Los Angeles	-08.0	San Francisco, Las Vegas, Vancouver, Seattle/Tacoma, Dawson City		
DEN	Denver	-07.0	El Paso, Edmonton		
СНІ	Chicago	-06.0	Houston, Dallas/Fort Worth, New Orleans, Mexico City, Winnipeg		
NYC	New York	-05.0	Montreal, Detroit, Miami, Boston, Panama City, Havana, Lima, Bogota		
CCS	Caracas	-04.0	La Paz, Santiago, Port Of Spain		
RIO	Rio De Janeiro	-03.0	Sao Paulo, Buenos Aires, Brasilia, Montevideo		
		-02.0			
		-01.0	Praia		
GMT		+00.0	Dublin, Lisbon, Casablanca, Dakar, Abidian		
LON	London	+00.0	··· / ··· / ··· / · ·· / · · /		
PAR	Paris	+01.0	Milan, Rome, Madrid, Amsterdam, Algiers, Berlin, Hamburg, Frankfurt, Vienna, Stockholm		
CAI	Cairo	+02.0	Athens, Helsinki, Istanbul, Beirut, Damascus,		
JRS	Jerusalem		Cape Town		
JED	Jeddah	+03.0	Kuwait, Riyadh, Aden, Addis Ababa, Nairobi, Moscow		
THR	Tehran	+03.5	Shiraz		
DXB	Dubai	+04.0	Abu Dhabi, Muscat		
KBL	Kabul	+04.5			
KHI	Karachi	+05.0	Male		
DEL	Delhi	+05.5	Mumbai, Kolkata		
DAC	Dhaka	+06.0	Colombo		
RGN	Yangon	+06.5			
BKK	Bangkok	+07.0	Jakarta, Phnom Penh, Hanoi, Vientiane		
HKG	Hong Kong	+08.0	Singapore, Kuala Lumpur, Beijing, Taipei, Manila, Perth, Ulaanbaatar		
TYO	Tokyo	+09.0	Seoul, Pyongyang		
ADL	Adelaide	+09.5	Darwin		
SYD	Sydney	+10.0	Melbourne, Guam, Rabaul		
NOU	Noumea	+11.0	Port Vila		
WLG	Wellington	+12.0	Christchurch, Nadi, Nauru Island		
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*Based on data as of December 2005.

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