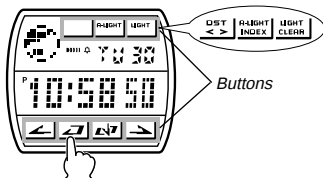


TOUCH SCREEN PRECAUTIONS

The touch screen of this watch shows a button menu that lets you select the function you want by simply pressing the correct on-screen button with your finger.

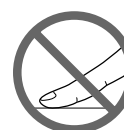
- The button menu shows only the functions that are currently available in the mode you are in. Buttons for unavailable functions are not displayed.



- Take care that you touch the part of the touch screen that contains the button whose function you want to perform.
- The following illustrations show the correct way to press an on-screen button.



Correct
Press straight down on the screen with your fingertip.



Incorrect
Finger at an angle pressing too strongly.

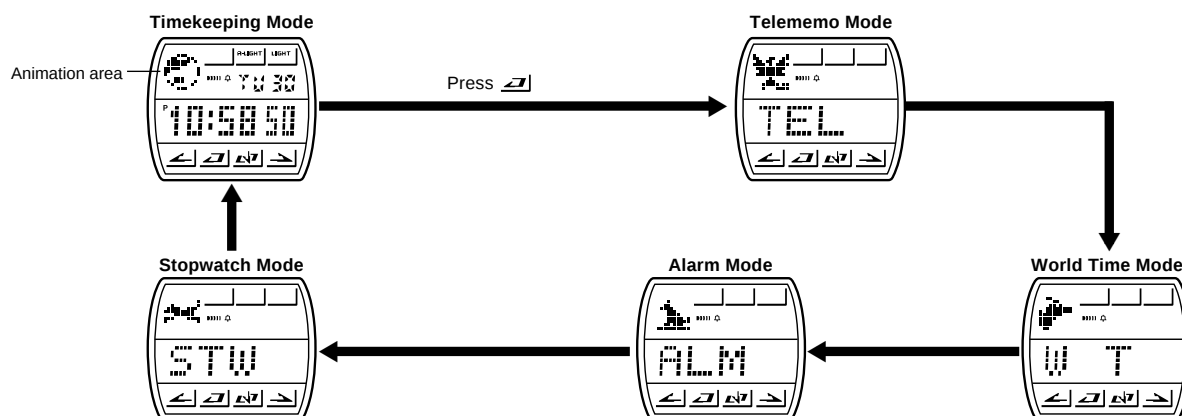
Important!

- Never press the touch screen with a sharp object, which can damage the screen. Use your finger only.
- The touch screen is installed on top of the glass. This type of construction may produce a rainbow effect on the display. The appearance of such phenomenon does not indicate any problem and there is no need for concern.
- You may experience problems with touch screen operation if the watch is left for a long time in an area subjected to temperatures above 60°C (140°F).
- This watch is not water resistant, so avoid high humidity and direct contact with water. Also, do not wear the watch during activities that may cause you to sweat a lot.
- The touch screen becomes convex at high temperatures and high altitudes. This watch can still be used normally, and the screen will become flat again when the temperature or altitude return to normal.

GENERAL GUIDE

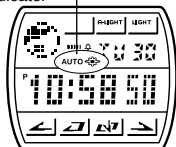
- If the digital display of your watch is continually changing, see "AUTO DISPLAY FUNCTION" for information on how to stop it.
- Press to change from mode to mode.

- After you perform an operation (except for backlight operation) in any mode, pressing returns to the Timekeeping Mode.
- The animation area shows different animated characters and graphics, depending on the mode and the operation being performed.



BACKLIGHT

Auto light switch on indicator



The backlight uses an EL (electro-luminescent) panel that causes the entire display to glow for easy reading in the dark. The watch's auto light switch automatically turns on the backlight when you angle the watch towards your face.

- The auto light switch must be turned on (indicated by the auto light switch on indicator) for it to operate.

Turning on the backlight manually

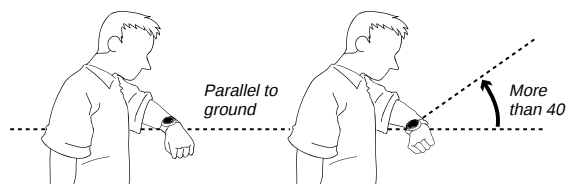
- In any mode, press to illuminate the display for about two seconds.
- The above operation turns on the backlight regardless of the current auto light switch setting.
- The backlight remains lit for about two seconds from the point you press , even if it is already lit when you press . If you keep depressed for five seconds, the backlight will automatically turn off.

About the Auto Light Switch

Turning on the auto light switch causes the backlight to turn on whenever you position your wrist as described below.

- 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.

Moving the watch to a position that is parallel to the ground and then tilting it towards you more than 40 degrees causes the backlight to light.

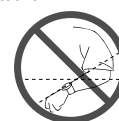


- The backlight turns off in about two seconds, even if you keep the watch pointed towards your face.
- The backlight may not light if the face of the watch is more than 15 degrees off the parallel as shown below. Make sure that the back of your hand is parallel to the ground.

Parallel to ground

More than 15 degrees too high

More than 15 degrees too low



- Static electricity or magnetic force can interfere with proper operation of the auto light switch. If the backlight does not light, try moving the watch back to the starting position (parallel with the ground) and then tilt it back toward 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 the backlight may not light until about one second or less after turn the face of the watch towards you. This does not necessarily indicate malfunction of the backlight.

Warning!

- Never try to read your watch when mountain climbing or hiking in areas that are dark or in areas with poor footing. Doing so is dangerous and can result in serious personal injury.
- Never try to read your watch when running where there is danger of accidents, especially in locations where there might be vehicular or pedestrian traffic. Doing so is dangerous and can result in serious personal injury.
- Never try to read your watch when riding on a bicycle or when operating a motorcycle or any other motor vehicle. Doing so is dangerous and can result in a traffic accident and serious personal injury.
- 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 the Timekeeping Mode, hold down for two seconds to turn the auto light switch on (AUTO- displayed) and off (AUTO- not displayed).

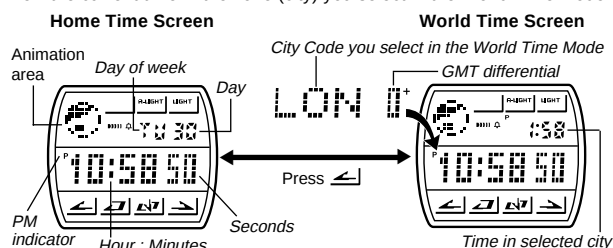
- In order to protect against running down the battery, the auto light switch is automatically turned off approximately three hours after you turn it on. Repeat the above procedure to turn the auto light switch back on if you want.
- The AUTO- indicator is on the display in all modes while the auto light switch is turned on.

Backlight Precautions

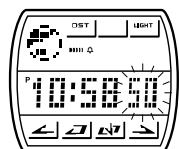
- The electro-luminescent panel loses illuminating power after very long use.
- The illumination provided by the backlight may be hard to see when viewed under direct sunlight.
- The watch will emit an audible sound whenever the display is illuminated. This is caused by a transformer that vibrates when the EL panel lights up. It does not indicate malfunction of the watch.
- The backlight automatically turns off whenever an alarm sounds.
- Turning on the backlight in the Timekeeping Mode causes animated figures to appear on the display.

TIMEKEEPING MODE

Use the Timekeeping Mode to set the current time and date. You can also view the current time in the zone (city) you select in the World Time Mode.

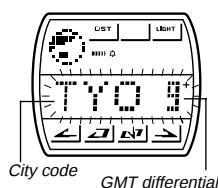
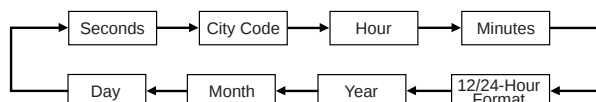


- The current time where you are normally located appears on a Home Time screen, while the time in the zone (city) you select in the World Time Mode appears on a World Time screen.
- Home Time and World Time are linked. Changing the time or date setting of the Home time also changes the corresponding World Time setting accordingly.
- See "WORLD TIME MODE" for details on using the World Time Mode.
- The GMT differential is the time difference of the time zone where the city code is located from Greenwich Mean Time.
- The animation area in the Timekeeping Mode normally shows a rotating globe. This changes to a different animation at the top of each minute.

Setting the Time and Date

1. Hold down while in the Timekeeping Mode until the seconds digits start to flash on the display. The seconds flash because they are selected.
2. While the seconds digits are selected (flashing), press to reset the seconds to 00.
 - If you press while the seconds count is in the range of 30 to 59, the seconds are reset to 00 and 1 is added to the minutes. If the seconds count is in the range of 00 to 29, the minutes count is unchanged.

3. Press to change the selection in the following sequence.



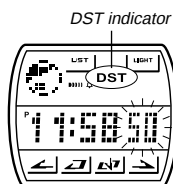
4. Use to select the city code setting.
5. Use and to scroll through the city codes until you find the one you want to set as your home city (the city where you normally use the watch).
 - scrolls forward, while scrolls back through city codes. Holding down either button scrolls through the city codes at high speed.

- See the "CITY CODE TABLE" for a complete list of available codes.
- 6. Use to select the hour, minutes, 12/24-hour format, year, month, and day, and make the settings you want for each.
- While hour, minutes, year, month, or day is selected (flashing), press to increase the setting or to decrease it. Holding down either button changes the setting at high speed.
- While the 12/24-hour setting is selected (flashing), press to switch between the 12-hour (12H) and 24-hour (24H) formats.
- 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 pm. Times from midnight to 11:59 am are shown without any indicator.
- With the 24-hour format, times are indicated in the range of 00:00 to 23:59, with a 24 indicator to the left of the hour digits.
- 7. After you make the setting you want, press to return to the Timekeeping Mode.
- The day of the week is automatically set in accordance with the date.
- The date can be set within the range of January 1, 1995 to December 31, 2039.
- If you do not operate any button for a few minutes while a selection is flashing, the flashing stops and the watch goes back to the Timekeeping Mode automatically.

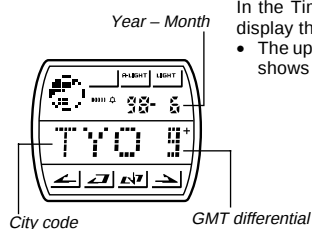
Switching the Home Time between Standard Time and Daylight Saving Time

Daylight saving time (DST), which is also sometimes called "summer time," advances the time for one hour, as is the custom in some areas during the summer. Remember that not all countries or even local areas use Daylight Saving Time.

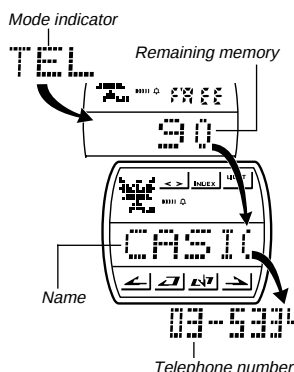
- The GMT city code's time cannot be switched to DST. However, the times of other cities located in the same time zone as GMT (Greenwich Mean Time) can be switched to DST.



1. Hold down while in the Timekeeping Mode until the seconds digits start to flash on the display.
2. Press to toggle Daylight Saving Time on (DST displayed) and off (DST not displayed).
3. After you make the setting you want, press to return to the Timekeeping Mode.

Viewing the Home Time City Settings

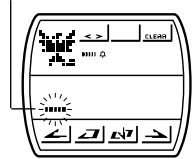
- In the Timekeeping Mode, hold down to display the currently set Home Time city.
- The upper part of the Home Time city screen shows the year and month.

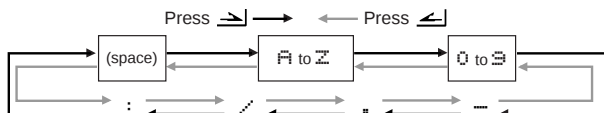
TELEMemo MODE

The Telememo Mode lets you store up to 100 pairs of name and telephone number data. Data is automatically sorted based on the characters of the name. You can recall data by scrolling through it on the display or by inputting the first character of the name you want to look up.

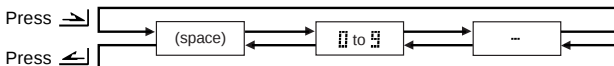
- See the "CHARACTER LIST" for details on how the watch sorts data.
- The data item on the display when you exit the Telememo Mode appears first the next time you enter the Telememo Mode.
- If you do not operate any button for 2 or 3 minutes while in the Telememo Mode, the watch automatically goes back to the Timekeeping Mode.

Inputting new Telememo data

- Cursor**
- 
- [New Data Screen]**
- In the Telememo Mode, press $\leftarrow$ or $\rightarrow$ until the new data screen appears.
 - The new data screen is the one that is blank (contains no name and telephone number).
 - If the message **FULL** appears on the display, it means that memory is full. To store more data, you will first have to delete some of the data stored in memory.
 - Hold down $\rightarrow$ until the **NAME** appears on the display.
 - After a few moments, **NAME** is replaced by a cursor.
 - NAME** indicates the name input field.
3. Use $\leftarrow$ and $\rightarrow$ to change the character at the cursor position in the name field. The character changes in the following sequence.



- Holding down either button changes the character at high speed.
- When the character you want is at the cursor position, press $\rightarrow$ to move the cursor to the right.
 - Repeat the steps 3 and 4 until your text is complete.
 - You can input up to eight characters for the name.
 - After you input a name, press $\rightarrow$ to move the cursor to the number field.
 - The indicator **NO** appears for a few moments, followed by a cursor.
 - NO** indicates the number input field.
 - Use $\leftarrow$ and $\rightarrow$ to change the character (space, number, or hyphen) at the cursor position in the number field. The character changes in the following sequence.



- Holding down either button changes the character at high speed.
- When the character you want is at the cursor position, press $\rightarrow$ to move the cursor to the right.
 - Repeat steps 7 and 8 until you complete number input.
 - You can input up to 12 digits for the number.
 - After inputting your data, press $\rightarrow$ to store it.
 - When you press $\rightarrow$ to store data, the message **SORT** appears on the display for a few seconds. After the sort operation is complete, the cursor appears in the name field, ready for input a new Telememo data item.
 - Input more data (starting from step 3) or press $\rightarrow$ again to return to the Telememo Mode data screen (without the cursor).
 - If you do not perform any button operation for few minutes while the cursor is on the display, the watch automatically returns to the Telememo Mode data screen.
 - The name field can show up to four characters and the number field can show up to six characters, so longer text scrolls continually from right to left.

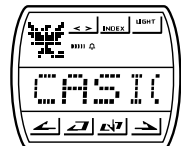
Recalling Telememo data

There are two methods you can use to search for Telememo data: *scroll search and index search*.

To use scroll search to recall data

In the Telememo Mode, press $\rightarrow$ to scroll forward through stored data items or $\leftarrow$ to scroll in reverse.

[Name Field Screen]



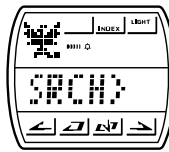
[Number Field Screen]



Continuously scrolls

- Holding down either button scrolls through the data at high speed.
- During scroll search only name field data appears on the display.
- When the name you are looking for is on the display, release the scroll button ($\leftarrow$ or $\rightarrow$). About one second later, the display automatically switches to the number field for the name.
- Press $\rightarrow$ to switch between display of the name and number fields. The name field remains on the display for only about one second, after which it switches back to the number field.

To use index search to recall data



- In the Telememo Mode, hold down **INDEX** until the **SEARCH** (search) message appears on the display.
 - Use $\leftarrow$ and $\rightarrow$ to input the first character of the name field of the data you want to recall.
 - The only characters that appear when you press $\leftarrow$ and $\rightarrow$ are those that are first characters of name data that is already stored in memory. Unused characters do not appear.
- Performing the next step to start the search operation without inputting a character here causes the new data screen to appear.
- Press **INDEX** to jump to the first data item whose name field data start with the character you input in step 2.
 - Use scroll reach to recall other data items.

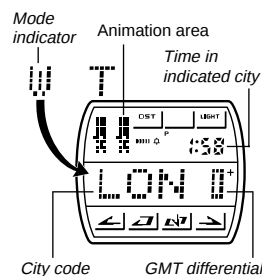
Editing Telememo data items

- In the Telememo Mode, scroll through the data items and display the one you want to edit.
- Hold down $\rightarrow$ until the flashing cursor appears on the display.
- The contents of the data item's name field appear with the flashing cursor located at the first character.
- Each press of $\rightarrow$ causes the cursor to jump between the name and number fields.
- Use $\rightarrow$ to move the cursor to the character you want to change.
- Use $\leftarrow$ and $\rightarrow$ to change the character.
- For details on inputting characters, see "Inputting new Telememo data" (steps 3 for name input and 7 for number).
- After making the changes that you want, press $\rightarrow$ to store them and return to the Telememo Mode data screen.

Deleting Telememo data

- In the Telememo Mode, scroll through the data items and display the one you want to delete.
- Hold down $\rightarrow$ until the flashing cursor appears on the display.
- Hold down **INDEX** about two seconds to delete the data item.
 - When you hold down **INDEX** the message **CLF** (clear) first appear on the display. Keep **INDEX** pressed until the message stops flashing.
 - After the data is deleted, the cursor is located in the name field ready for more input.
- Input data or press $\rightarrow$ to return to the Telememo Mode data screen.

WORLD TIME MODE



The World Time Mode shows the current time in 40 cities (29 time zones) around the world.

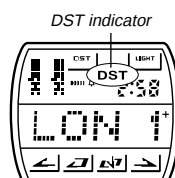
- For full information on city codes, see the "CITY CODE TABLE".
- The GMT differential is the time difference of the time zone where the city code is located from Greenwich Mean Time.
- The GMT differentials used by this watch are based on Universal Time Coordinated (UTC) data.
- The time zone that is displayed when you leave the World Time Mode will still be displayed when you enter the World Time Mode again.

Viewing the Time in Another Zone

While in the World Time Mode, press $\rightarrow$ to scroll forward through the city codes (time zones) and $\leftarrow$ to scroll back.

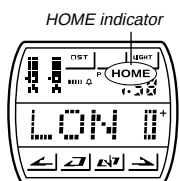
- Holding down either button scrolls through the city codes at high speed.
- Normally, a rotating globe appears in the animation area in the World Time Mode. When the NYC, SCL, LON, BCH, ZRH, CAI, MOW, HKG, TYO, and SYD city codes are displayed, however, the animation area changes to an animated figure that is characteristic of the city represented by the city code. TYO (Tokyo), for example, shows a sumo wrestler, etc. for about 15 seconds.

Switching a Zone between Standard Time and Daylight Saving Time



- In the World Time Mode, display the time zone (city code) whose standard time/daylight saving time setting you want to change.
 - You can make separate settings for each zone.
- Hold down **DST** for about one second to toggle daylight saving time on (**DST** displayed) and off (**DST** not displayed).
- The **DST** indicator appears whenever daylight saving time is turned on for the zone (city) whose time is currently on the display.

Making a Zone Your Home Zone



1. In the World Time Mode, display the zone (city code) that you want to make your home zone.
2. To make the displayed zone (city) your home zone, hold down **[L]** for about one second.
 - The zone with the **HOME** indicator is the home zone.
 - The time displayed in the Timekeeping Mode changes in accordance with the zone you select with the above procedure.

Timekeeping in the World Time Mode

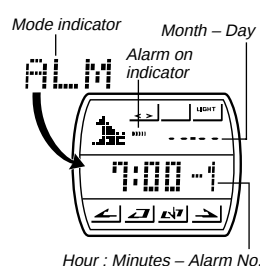
The current time in all the World Time zones is calculated in accordance with the Greenwich Mean Time (GMT) differential for each zone, based on the current Home Time setting in the Timekeeping Mode.

You can also turn Daylight Saving Time (DST) on or off separately for each time zone. Turning on daylight saving time automatically advances the corresponding time setting by one hour.

A simple operation switches between the Home Time and the World Time, so you can quickly and easily change times when travelling from one time zone to another.

- The seconds count of the World Time is synchronized with the seconds count in the Timekeeping Mode.
- The 12-hour/24-hour format of the World Time matches the format you select in the Timekeeping Mode.
- With daylight saving time, clocks are advanced one hour from standard time in order to better take advantage of daylight hours during the summer, when days are longer. Whether or not daylight saving time is used depends on the country you are in.

ALARM MODE



You can set five independent alarms with hour, minutes, month, and day. When the alarm is turned on, the alarm sounds for 20 seconds at the preset time. Press any button to stop the alarm after it starts to sound. When the Hourly Time Signal is turned on, the watch beeps every hour on the hour.

- The alarms and Hourly Time Signal sound in accordance with the Timekeeping Mode's Home Time.
- If you do not operate any button for 2 or 3 minutes while in the Alarm Mode, the watch automatically goes back to the Timekeeping Mode.

Alarm Types

The alarm type is determined by the settings you make, as described below.

• Daily alarm

Set the hour and minutes for the alarm time. Set -- for the month and day (see step 4 under "Setting Alarms"). This type of setting causes the alarm to sound every day at the time you set.

• Date alarm

Set the month, day, hour and minutes for the alarm time. This type of setting causes the alarm to sound at the specific time, on the specific date you set.

• 1-Month alarm

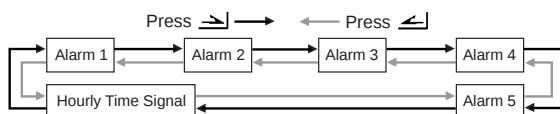
Set the month, hour and minutes for the alarm time. Set -- for the day (see step 4 under "Setting Alarms"). This type of setting causes the alarm to sound every day at the time you set, only during the month you set.

• Monthly alarm

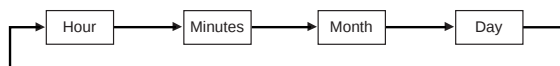
Set the day, hour and minutes for the alarm time. Set -- for the month (see step 4 under "Setting Alarms"). This type of setting causes the alarm to sound every month at the time you set, on the day you set.

Setting Alarms

1. Press **[L]** or **[R]** while in the Alarm Mode to select the alarm whose time you want to set.



2. After you select an alarm, hold down **[L]** until the hour digits start to flash on the display. The hour digits flash because they are *selected*.
 - This operation automatically turns on the alarm.
3. Press **[L]** to change the selection in the following sequence.



4. Press **[L]** to increase the setting and **[R]** to decrease it. Holding down either button changes the setting at high speed.
 - To set an alarm that does not include a month (Daily alarm, Monthly alarm), set -- for the month. Press **[L]** or **[R]** until the -- mark appears (between 12 and 1) while the month digits are flashing.
 - To set an alarm that does not include day (Daily alarm, 1-Month alarm), set -- for the day. Press **[L]** or **[R]** until the -- mark appears (between 31 and 1) while the day digits are flashing.
 - The format (12-hour and 24-hour) of the alarm time matches the format you select for normal timekeeping.
 - When setting the alarm time using the 12-hour format, take care to set the time correctly as morning (no indicator) or afternoon (**P**).
5. After you set the alarm, press **[L]** to return to the Alarm Mode.
 - If you do not operate any button for a few minutes while a selection is flashing, the flashing stops and the watch goes back to the Alarm Mode automatically.

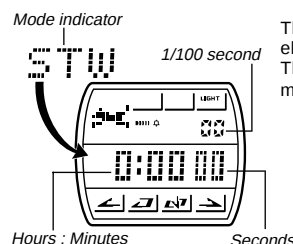
Switching an Alarm and Hourly Time Signal on and off

1. In the Alarm Mode, press **[L]** or **[R]** to select an alarm or the Hourly Time Signal.
2. When the alarm or Hourly Time Signal you want to is selected, press **[L]** or **[R]** to turn it on and off.
 - **[L]** Indicates alarm is ON.
 - **[R]** Indicates Hourly Time Signal is ON.
 - The alarm on indicator (**[L]**) and the Hourly Time Signal on indicator (**[R]**) are shown on the display in all modes while these functions are turned on.
 - If any alarm is on, the Alarm On Indicator is shown on the display when you change to another mode.

Testing the alarm

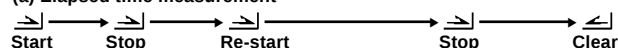
Hold down **[L]** while in the Alarm Mode to sound the alarm.

STOPWATCH MODE

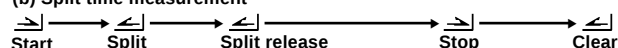


The Stopwatch Mode lets you measure elapsed time, split times, and two finishes. The range of the stopwatch is 23 hours, 59 minutes, 59.99 seconds.

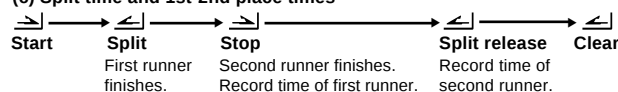
(a) Elapsed time measurement



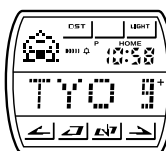
(b) Split time measurement



(c) Split time and 1st-2nd place times



AUTO DISPLAY FUNCTION



The Auto Display function of this watch continually changes the contents of the digital display. Note that you cannot use any of the watch's other functions while the Auto Display function is operating.

Turning the Auto Display On

Hold down **[L]** for about three seconds in any mode until the watch beeps.

Turning the Auto Display Off

Hold down **[L]** for about three seconds until the watch beeps.

Note

The Auto Display function cannot be performed while you are making settings.

ABOUT THE BATTERY

Should battery power drop below a certain level, display characters will appear dim, the backlight may fail to light, and the alarm may fail to sound. Also, the  indicator will appear, and further operation will be impossible when you try to input or recall data in the Telememo Mode or when you try to scroll the World Time city codes. Should any or all of this happen, have the battery replaced as soon as possible. Using the watch while the battery is low can result in abnormal operation.

ALWAYS LEAVE BATTERY REPLACEMENT UP TO THE DEALER WHERE YOU BOUGHT THE WATCH OR TO AN AUTHORIZED CASIO DISTRIBUTOR. BE SURE TO SHOW THE FOLLOWING INFORMATION TO THE PERSON REPLACING THE BATTERY.

Attention dealer or CASIO distributor

Be sure to use the following procedure when replacing the battery.

1. Open and remove the back cover.
- If **CLOSE** appears on the display when you open the back cover, replace the back cover. Wait for a few minutes and try again.
2. Remove the battery holder.
3. Remove the old battery and load a new one.
4. Replace the battery holder.
5. Touch the AC contact and the battery (+) side with metallic tweezers.
- The AC (all clear) operation DOES NOT delete data stored in memory.
6. Close the back cover.
- The message **WLT** appears on the display about 20 seconds after you perform the AC (all clear) operation in step 5 of the above procedure, indicating that the watch is performing an internal self-check for data errors.
- The **WLT** indicator remains on the display up to 6 minutes while the watch performs an internal check of data in memory. Though you can change the time setting of the watch while the **WLT** indicator is on the display, other operations are disabled.

CHARACTER LIST

1	(space)	11	J	21	T	31	3	41	:
2	A	12	K	22	U	32	4		
3	B	13	L	23	V	33	5		
4	C	14	M	24	W	34	6		
5	D	15	N	25	X	35	7		
6	E	16	O	26	Y	36	8		
7	F	17	P	27	Z	37	9		
8	G	18	Q	28	0	38	-		
9	H	19	R	29	1	39	.		
10	I	20	S	30	2	40	/		

CITY CODE TABLE

City Code	City	GMT Differential	Other major cities in same time zone
---		-11	PAGO PAGO
HNL	HONOLULU	-10	PAPEETE
ANC	ANCHORAGE	-09	NOME
YVR	VANCOUVER	-08	LAS VEGAS, SEATTLE, DAWSON CITY
SFO	SAN FRANCISCO		
LAX	LOS ANGELES		
DEN	DENVER	-07	EL PASO, EDMONTON
MEX	MEXICO CITY	-06	HOUSTON, DALLAS/FORT WORTH, NEW ORLEANS, WINNIPEG
CHI	CHICAGO		
MIA	MIAMI	-05	MONTREAL, DETROIT, BOSTON, PANAMA CITY, HAVANA, LIMA, BOGOTA
NYC	NEW YORK		
SCL	SANTIAGO	-04	LA PAZ, PORT OF SPAIN
CCS	CARACAS		
RIO	RIO DE JANEIRO	-03	SAO PAULO, BUENOS AIRES, BRASILIA, MONTEVIDEO
---		-02	
---		-01	PRAIA
GMT		+00	DUBLIN, LISBON, CASABLANCA, DAKAR, ABIDJAN
LON	LONDON		
BCN	BARCELONA	+01	MILAN, MADRID, AMSTERDAM, ALGIERS, HAMBURG, FRANKFURT, VIENNA, STOCKHOLM, BERLIN
PAR	PARIS		
ZRH	ZURICH		
ROM	ROME		
CAI	CAIRO	+02	ATHENS, HELSINKI, ISTANBUL, BEIRUT, DAMASCUS, CAPE TOWN
JRS	JERUSALEM		
QOW	MOSCOW	+03	KUWAIT, RIYADH, ADEN, ADDIS ABABA, NAIROBI
JED	JEDDAH		
THR	TEHRAN	+3.5	SHIRAZ
DXB	DUBAI	+04	ABU DHABI, MUSCAT
KBL	KABUL	+4.5	
KHI	KARACHI	+05	
DEL	DELHI	+5.5	MUMBAI, CALCUTTA
DAC	DHAKA	+06	COLOMBO
RGN	YANGON	+6.5	
BKK	BANGKOK	+07	JAKARTA, PHNOM PENH, HANOI, VIENTIANE
SIN	SINGAPORE	+08	KUALA LUMPUR, MANILA, PERTH, ULAANBAATAR
HKG	HONG KONG		
BJS	BEIJING		
TPE	TAIPEI		
SEL	SEOUL	+09	PYONGYANG
TYO	TOKYO		
ADL	ADELAIDE	+9.5	DARWIN
SYD	SYDNEY	+10	MELBOURNE, GUAM, RABAU
NOU	NOUMEA	+11	PORT VILA
WLG	WELLINGTON	+12	CHRISTCHURCH, NADI, NAURU ISLAND

* Based on data as of December 1997.