CASIO

ENGLISH

E-1

Congratulations upon your selection of this CASIO watch.

Applications

The built-in sensors of this watch measure barometric pressure, temperature and altitude. Measured values are then shown on the display. Such features make this watch useful when hiking, mountain climbing, or when engaging in other such outdoor activities

Warning !

Warning !
 The measurement functions built into this watch are not intended for taking measurements that require professional or industrial precision. Values produced by this watch should be considered as reasonable representations only.
 Note that CASIO COMPUTER CO., LTD. assumes no responsibility for any damage or loss suffered by you or any third party arising through the use of this product or its malfunction.

TF 10:081 <u>6,30</u>

About This Manual

- 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
- In this manual are shown using darkingures of a night background. Button operations are indicated using the letters shown in the illustration. Note that the product illustrations in this manual are
- intended for reference only, and so the actual product may appear somewhat different than depicted by an illustration.

E-2

Things to check before using the watch

1. Check the Home City and the daylight saving time (DST) setting.

Use the procedure under "To configure Home City settings" (page E-14) to configure your Home City and daylight saving time settings.

Important!

Proper World Time Mode data depend on correct Home City, time, and date settings in the Timekeeping Mode. Make sure you configure these settings correctly.

2. Set the current time.

See "Configuring Current Time and Date Settings" (page E-17).

The watch is now ready for use.

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Mode Reference Guide

To do this:	Enter this mode:	See
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E-3

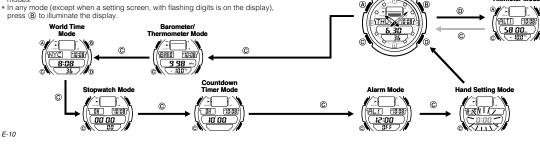
CASIO

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E-13

Selecting a Mode

- The illustration below shows which buttons you need to press to navigate between modes



General Functions (All Modes)

The functions and operations described in this section can be used in all of the modes. Auto Return Features

- The watch returns to the Timekeeping Mode automatically if you do not perform any button operation for two or three minutes in the Alarm Mode.
 The watch will return to the Timekeeping Mode automatically if you do not perform
- If you leave a setting screen with flashing digits on the display for two or three minutes without performing any operation, the watch exits the setting screen automatically.

Initial Screens

City code

۲. Kill

10:08

PM indicator

Hour : Minutes

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

Scrolling

The (B) and (D) buttons are used on the setting screen 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.

E-12

E-10

Configuring Home City Settings

ര Seconds

There are two Home City settings: actually selecting the Home City and selecting either standard time or daylight saving time (DST).

- To configure Home City settings 1. In the Timekeeping Mode, hold down (a) until the currently selected city code (Home City) starts to flash. This is the city code starts to flash, the message SET Hold will appear on the display. Keep (a) depressed until SET Hold disappears and the city code starts to flash. The watch will exit the setting mode automatically if you do not perform any operation for about two or
 - you do not perform any operation for about two o three minutes.
 - For details about city codes, see the "City Code Table" at the back of this manual
- E-14



- To change the Daylight Saving Time (summer time) setting

 DST indicator

 Image: Strain of the set of
 - code starts to flash 2. Press O to display the DST setting screen.
 - Press (D) to toggle between Daylight Saving Time (On) and Standard Time (OFF).
 - After all the settings are the way you want, press (A) to return to the Timekeeping Mode.
 The DST indicator appears to indicate that Daylight Saving Time is turned on.

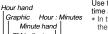
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To change the current time and date settings



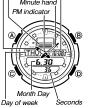
- the and afte settings 1. In the Timekeeping Mode, hold down (a) until the currently selected city code (Home City) starts to flash. This is the city code setting screen. Before the city code starts to flash, the message SET Hold will appear on the display. Keep (a) depressed until SET Hold disappears and the city code starts to flash.
- Use (0) and (0) to select the city code you want.
 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.

Timekeeping



ng Mo

Use the Timekeeping Mode to set and view the current time and date. In the Timekeeping Mode, the graphic in the center of



the display indicates the passage of seconds

Altimeter Mode



- DST indicato //_ Setting
- Press (D) (East) and (B) (West) to select the city code you want to use as your Home City.
 * Keep pressing (D) or (B) until the city code you want to select as your Home City appears on the display.
- 3. Press © to display the DST setting screen.
- Press () to toggle between Daylight Saving Time (On) and Standard Time (OFF).
 Note that you cannot switch between standard time and daylight saving time (DST) while UTC is selected as your Home City.
- 5. After all the settings are the way you want, press (a) to return to the Timekeeping Mode. The **DST** indicator appears to indicate that Daylight Saving Time is turned on. Note
 - After you specify a city code, the watch will use UTC* offsets in the World Time Mode to calculate the current time for other time zones based on the current time in your Home City. * Coordinated Universal Time, the world-wide scientific standard of timekeeping. The reference point for UTC is Greenwich, England. E-15
 - E-15

Configuring Current Time and Date Settings

You can use the procedure below to adjust the current time and date settings if they are off

Changing the digital Home City data should cause the analog time setting to change accordingly. If the analog time does not indicate the digital time, check the home positions of the hands and make adjustments if necessary (page E-22).



F-19

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

City Code DST - 12/24-H Format	Hour Seconds Hour Minute Year Month
Barometer Altitude unit	Temperature Illumination Eutron Operation Duration

 The following steps explain how to configure timekeeping settings only 4. When the timekeeping setting you want to change is flashing, use B and/or D to change it as described below.

Screen	To do this:	Do this:	
TYO	Change the city code	Use (D) (East) and (B) (West).	
0F F	Toggle between Daylight Saving Time (On) and Standard Time (OFF).	Press D.	

Screen	To do this:	Do this:	
Toggle between 12-hour (12H) and 24-hour (24H) timekeeping.		Press D.	
36	Reset the seconds to 00	Press D.	
° 10:08	Change the hour or minute	Use () (+) and () (-).	
2011 6.30	Change the year, month, or day		

5. Press (A) to exit the setting screen

E-20

Hand Home Position Correction

The hour and minute hands of the watch can be thrown off by exposure to strong

magnetism or impact. The watch is designed to correct the hour and minute hand positions manually. • All of the operations in this section are performed in the Hand Setting Mode, which you enter by pressing © (page E-11).

To adjust home positions

- Hour and minute hands Correct hour and nute hand positions
- In the Hand Setting Mode, hold down (A) for about two seconds until 0:00 appears on the display.
 This is the home position adjustment mode. Check the positions of the hour and minute hands.
 The hands are in the correct home positions if they are pointed at 12 c/clock. If they aren't, use (D) (clockwise) and (B) (counterclockwise) to adjust their positions.
- Press (a) to exit the setting screen.
 This will cause the hour and minute hands to move to the current Timekeeping Mode time.

Press (© five times to return to the Timekeeping Mode.
 The watch will return to the Timekeeping Mode automatically if you do not perform any operation for about one hour after entering the Barometer/Thermometer Mode

Barometric Pressure

Barometric pressure is displayed in units of 1 hPa (or 0.05 inHg).
The displayed barometric pressure value changes to --- if a measured barometric pressure falls outside the range of 260 hPa to 1,100 hPa (7.65 inHg to 32.45 inHg). The barometric pressure value will reappear as soon as the measured barometric pressure is within the allowable range.

Temperature

mi E-22

- Temperature
 Temperature is displayed in units of 0.1°C (or 0.2°F).
 The displayed temperature value changes to --- °C (or °F) if a measured temperature falls outside the range of -10.0°C to 60.0°C (14.0°F to 140.0°F). The temperature value will reappear as soon as the measured temperature is within the allowable range.

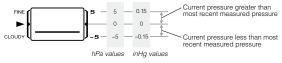
E-24

Reading Barometric Pressure Differential Pointer

Pressure differential is indicated in the range of ±5 hPa, in 1-hPa units If the pointer is located here It means this:

CLOUDY (-) Pressure is falling and v		Pressure is falling and weather will tend to deteriorate.
	FINE (+)	Pressure is rising and weather will tend to improve.
	. The nearby screen shot for	example, shows what the pointer would indicate when

the calculated pressure differential is approximately –3 hPa (approximately –0.09 inHg)



E-26

To calibrate the pressure sensor and the temperature sensor

- Take a reading with another measurement device to determine the exact current barometric pressure or B temperature.
- 2. With the watch in the Timekeeping Mode, press C to enter the Barometer/Thermometer Mode. D

4. Press O to move the flashing between the temperature value and barometric pressure value, to select the one you want to calibrate.

Hold down (à) until the current temperature value starts to flash on the display. This is the setting screen.
 Before the temperature value starts to flash, the message SET Hold will appear on the display. Keep (à) depressed until SET Hold disappears.



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 \overline{m}

P10:08

BARD

F-28

Note

- For information about selecting a Home City and configuring the DST setting, see "Configuring Home City Settings" (page E-14).
 While 12-hour format is selected for timekeeping, a P (PM) indicator will appear for times from moon to 11:59 a.m. With 24-hour format, time is displayed from 0:00 to 23:59, without any P (PM) indicator.
 The watch is built in full automatic colorador motion clause for different sector.
- 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.

E-21

Barometer/Thermometer

This watch uses a pressure sensor to measure air pressure (barometric pressure) and a temperature sensor to measure temperature



etric

To enter and exit the Barometer/Thermometer Mode

 While in the Timekeeping Mode, press © to enter the Barometer/Thermometer Mode.
 BARO will appear on the display, indicating that barometric pressure and temperature measurements are in progress. The measurement results will appear on the display after about five seconds

After you press ©, the watch will take readings every five seconds for the first three minutes, and then every two minutes after that.

E-23

Display Units

You can select either hectopascals (hPa) or inchesHg (inHg) as the display unit for the measured barometric pressure, and Celsius (°C) or Fahrenheit (°F) as the display unit for the measured temperature value. See "To specify temperature, barometric pressure, and altitude units" (page E-39).

Barometric Pressure Differential Pointer



Barometric pressure differential pointer pointer barometric pressure reading and the current barometric pressure reading and the barometric pressure value displayed in the Barometer/Thermometer Mode (page E-23).

E-25

Barometric pressure is calculated and displayed using hPa as the standard. The barometric pressure differential also can be read in inHg units as shown in the illustration (1 hPa \doteqdot 0.03 inHg).

Pressure Sensor and Temperature Sensor Calibration

The pressure sensor and temperature sensor built into the watch are calibrated at the factory and normally require no further adjustment. If you notice serious errors in the pressure readings and temperature readings produced by the watch, you can calibrate a sensor to the reading of another device to correct the errors.

Important!

- Incorrectly calibrating the temperature sensor can result in incorrect readings. Carefully read the following before doing anything. Compare the readings produced by the watch with those of another reliable and
- accurate thermometer. If adjustment is required, remove the watch from your wrist and wait for 20 or 30
- minutes to give the temperature of the watch time to stabilize

E-27

5. Use D (+) and B (–) to adjust the calibration value in the units shown below.

(+) and ((-)) (-) to adjust the califormia value in the dnits shown below. Temperature 0.1°C (0.2°F) Barometric Pressure 1 hPa (0.05 inHg)
 To return the currently flashing value to its initial factory default setting, press (B) and (D) at the same time. OFF will appear at the flashing location for about one second, followed by the initial default value.

6. Press (A) to return to the Barometer/Thermometer Mode screen.

Barometer and Thermometer Precautions

- Barometer and Inermometer Precautions
 The pressure sensor built into this watch measures changes in air pressure, which you can then apply to your own weather predictions. It is not intended for use as a precision instrument in official weather predictions or reporting applications.
 Sudden temperature changes can affect pressure sensor readings.
 Temperature measurements are affected by your body temperature (while you are wearing the watch), direct sunlight, and misture. To achieve a more accurate temperature measurement, remove the watch from your wrist, place it in a well ventilated location out of direct sunlight, and wipe all moisture from the case. It takes approximately 20 to 30 minutes for the case of the watch to reach the actual surrounding temperature. surrounding temperature.

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Altimeter

The watch displays altitude values based on air pressure readings taken by a built-in pressure senso

How the Altimeter Measures Altitude

The altimeter can measure altitude based on its own preset values (initial default method) or using a reference altitude specified by you.

When you measure altitude based on preset values

Data produced by the watch's barometric pressure sensor is converted to approximate altitude based on ISA (International Standard Atmosphere) conversion values stored in watch memory.

When you measure altitude using a reference altitude specified by you After you specify a reference altitude, the watch uses that value to convert barometric pressure readings to altitude (page E-34).

B A 9 9 9

- E-30
 - If you leave the watch in the Altimeter Mode, it will update the displayed altitude value regularly.
 Temperature is measured in the Barometer/Thermometer Mode and in the
- Altimeter Mode. For details about temperature readings, see "Temperature" (page E-24).
- 3. After you are finished using the Altimeter, press (C) to return to the Timekeeping Mode

Wode and stop auto measurement.
 The watch will return to the Timekeeping Mode automatically if you do not perform any operation for about 10 hours after entering the Altimeter Mode.

Note

- The measurement range for altitude is -700 to 10.000 meters (-2.300 to 32.800 feet)
- The displayed altitude value changes to - - if an altitude reading falls outside the measurement range. An altitude value will reappear as soon as the altitude reading is within the allowable range.

E-32

To specify a reference altitude value 1. In the Altimeter Mode, hold down (A) until the current reference altitude value starts to flash. This is the <u>EETII 170,08</u>

 Before the reference altitude value starts to flash, Before the reference altitude value starts to flash, the message SET Hold will appear on the display. Keep (a) depressed until SET Hold disappears.

- 2. Press (0) (+) or (8) (-) to change the current reference altitude value by 5 meters (or 20 feet).
 Specify a reference altitude value based on accurate altitude information about your current location from a map, etc.
- You can set the reference altitude value within the range of -10,000 to 10,000 meters (-32,800 to 32,800 feet).
 Pressing
 and
 at the same time returns to OFF (no reference altitude value), so the watch performs air pressure to altitude conversions based on preset data only
- 3. Press (A) to exit the setting screen.

58 00,

E-34

E-36



Note that the following conditions will prevent you from obtaining accurate readings: When air pressure changes because of changes in the weather Extreme temperature changes When the watch itself is subjected to strong impact

 When mountain climbing, you can specify a reference altitude value in accordance with a marker along the way or altitude information from a map. After that, the altitude readings produced by the watch will be more accurate than they would without a reference altitude value. To take an altimeter reading 1. Make sure the watch is in the Timekeeping Mode. Current time 2. Press D to start Altimeter measurement.



- Press () to start Attimeter measurement.
 ALTI will appear on the display, indicating that Altimeter measurement is in progress. The first reading will appear on the display after about four or five seconds.
 The current altitude value is displayed in units of 5 meters (20 feet).
 Atter the first reading is obtained, the watch continuer
- After the first reading is obtained, the watch continues to take altimeter readings automatically every five seconds for the first three minutes, and then every two minutes after that.

E-31

- Normally, displayed altitude values are based on the watch's preset conversion values. You also can specify a reference altitude value, if you want. See "Specifying a Reference Altitude Value" below. You can change the unit for displayed altitude values to either meters (m) or feet (ft). See "To specify temperature, barometric pressure, and altitude units" (page E-39).

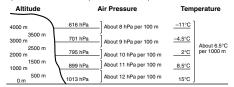
Specifying a Reference Altitude Value

The altitude readings produced by this watch are subject to error caused by changes in air pressure. Because of this, we recommend that you update the reference altitude value whenever accurate altitude information is available during your climb. After you specify a reference altitude value, the watch adjusts its air-pressure-to-altitude conversion calculation accordingly.

E-33

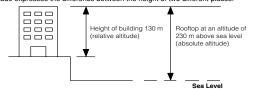
How does the altimeter work?

Generally, air pressure and temperature decrease as altitude increases. This watch bases its altitude measurements on International Standard Atmosphere (ISA) values stipulated by the International Civil Aviation Organization (ICAO). These values define relationships between altitude, air pressure, and temperature.



E-35

There are two standard methods of expressing altitude: Absolute altitude and relative altitude. Absolute altitude expresses an absolute height above sea level. Relative altitude expresses the difference between the height of two different places.



E-37

Altimeter Precautions

- Altimeter precations This watch estimates altitude based on air pressure. This means that altitude readings for the same location may vary if air pressure changes. The semiconductor pressure sensor used by the watch for altitude measurements is also affected by temperature. When taking altitude measurements, do not subject the watch to temperature changes.
- is also affected by temperature. When taking altitude measurements, do not subject the watch to temperature changes.
 Do not rely upon this watch for altitude measurements or perform button operations while sky diving, hang gliding, or paragliding, while riding a gyrocopter, glider, or any other aircraft, or while engaging in any other activity where there is the chance of sudden altitude changes.
 Do not use this watch for measuring altitude in applications that demand professional or industrial level precision.
 Remember that the air inside of a commercial aircraft is pressurized. Because of this the readings produced by the watch will be altitude readings.
- this, the readings produced by this watch will not match the altitude readings announced or indicated the flight crew.

Specifying Temperature, Barometric Pressure, and Altitude Units

Use the procedure below to specify the temperature, barometric pressure, and altitude units to be used in the Barometer/Thermometer Mode and the Altimeter Mode.

Important!

be changed 0

When **TYO** (Tokyo) is selected as the Home City, the altitude unit is set automatically to meters (**m**), the barometric pressure unit to hectopacals (**hPa**), and the temperature unit to Celsius (**°C**). These settings cannot

To specify temperature, barometric pressure, and altitude units

1. In the Timekeeping Mode, hold down (A) until the currently selected city code starts to flash. This is the city code setting screen.

F-39

CASIO

 Before the city code starts to flash, the message SET Hold will appear on the display. Keep (A) depressed until SET Hold disappears and the city code starts to flash

- Keep pressing © until TEMP (temperature), ALTI (altitude), or BARO (barometric pressure) appears in the left corner of the screen.
 See step 3 under "To change the current time and date settings" (page E-18) for information about how to scroll through setting screens.
- 3. Perform the operations below to specify the units you want.

To specify this unit:	Press this key:	To toggle between these settings:	
Temperature (D) °C (Celsius) and °F (Fahrenheit)		°C (Celsius) and °F (Fahrenheit)	
Altitude	D	m (meters) and ft (feet)	
Barometric Pressure	D	hPa (hectopascals) and inHg (inches of mercury)	

4. After the settings are the way you want, press (A) to exit the setting screen.

is called the "World Time City'

To enter the World Time Mode

E-40

Checking the Current Time in a Different Time Zone

Currently selected World Time City

®/ 1<u>NYC (10:08</u>) -8:08 36 10 O Current Timek Mode time epina

Use © to select the World Time Mode (WT) as shown on page E-10. • WT will appear on the display for about one second. Next, the display will change to show the city code of the currently selected World Time City

To view the time in another time zone

You can use the World Time Mode to view the current time in one of 31 time zones (48 cities) around the globe. The city that is currently selected in the World Time Mode

the World Time Mode, use (D) (East) to scroll through

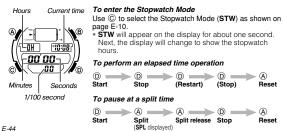
Current time in the currently selected World Time City

E-42

Using the Stopwatch

The stopwatch measures elapsed time, split times, and two finishes

city codes



Next, the display will change to show the stopwatch To perform an elapsed time operation $\rightarrow \bigcirc$ D (Restart) (Stop) Reset

> 0 Split (SPL displayed) Split release Stop Reset

Using the Countdown Timer

The countdown timer can be configured to start at a preset time, and sound an alarm when the end of the countdown is reached.



To enter the Countdown Timer Mode Use (C) to select the Countdown Timer Mode (TMR) as

TMR will appear on the display for about one second.
 Next, the display will change to show the countdown time hours.

To specify the countdown start time 1. Enter the Countdown Timer Mode.

 If a countdown is in progress (indicated by the seconds counting down), press (indicated by the then press (indicated by the seconds counting down), press (indicated by the seconds countdown) start time

If a countdown is paused, press (A) to reset to the current countdown start time.

To perform a countdown timer operation

0				A
Start	Stop	(Restart)	(Stop)	Reset

· Before starting a countdown timer operation, check to make sure that a countdown

Berore starting a countdown inner operation, check to make sure inat a countdown operation is not already in progress (indicated by the seconds counting down). If it is, press () to stop it and then () to reset to the countdown start time.
 An alarm sounds for five seconds when the end of the countdown is reached. This alarm will sound in all modes. The countdown time is reset to its starting value automatically when the alarm sounds.

To stop the alarm Press any button

Precautions Concerning Simultaneous Measurement of Altitude and Temperature

Though you can perform altitude and temperature measurements at the same time, you should remember that each of these measurements requires different conditions for best results. With temperature measurement, it is best to remove the watch from your wrist in order to eliminate the effects of body heat. In the case of altitude measurement, on the other hand, it is better to leave the watch on your wrist, because doing so keeps the watch at a constant temperature, which contributes to more

- doing so keeps the watch at a constant temperature, which continuoues to more accurate altitude measurements.
 To give altitude measurement priority, leave the watch on your wrist or in any other location where the temperature of the watch is kept constant.
 To give temperature measurement priority, remove the watch from your wrist and allow it to hang freely from your bag or in another location where it is not exposed to direct sunlight. Note that removing the watch from your wrist can affect pressure senser readings momentarily. sensor readings momentarily.

E-41



To specify standard time or daylight saving time (DST) for a city (In the World Time Mode, use (In (East) to display the city code (time zone) whose Standard Time/Daylight Saving Time setting you want to change. 2. Hold down (A) until DST Hold appears on the display

and then disappears. Release (A) after DST Hold disappears

DST indicato

This toggles the city code you selected in step 1 between Daylight Saving Time (**DST** indicator displayed) and standard time (**DST** indicator not

- displayed) . You cannot use the World Time Mode to change the current standard time/
- You cannot use the World Time Mode to change the current standard time/ daylight saving time (DST) setting of the Home City.
 Note that you cannot switch between standard time/daylight saving time (DST) while UTC is selected as the World Time City.
 Note that the standard time/daylight saving time (DST) setting affects only the currently selected time zone. Other time zones are not affected.

E-43

A

To measure two finishes

First runner Second runner Displ			D	A
	tart	First runner finishes. Display time of	Second runner	Split r Displa second

release Reset ay time of nd runner

Note

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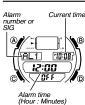
- The Stopwatch Mode can indicate elapsed time up to 23 hours, 59 minutes, 59.99
- seconds. Once started, stopwatch timing continues until you press (A) to stop it, even if you exit the Stopwatch Mode to another mode and even if timing reaches the stopwatch limit defined above.
- Exiting the Stopwatch Mode while a split time is frozen on the display clears the split time and returns to elapsed time measurement.

E-45

- 2. Hold down (A) until the hour setting of the current countdown start time starts to flash. This is the setting screen. Before the hour setting starts to flash, the message **SET Hold** will appear on the display. Keep (A) depressed until **SET Hold** disappears and the hour setting
- starts to flash. 3. Press (C) to move the flashing between the hour and minute settings.
- 4. Use (D) (+) and (B) (-) to change the flashing item. To set the starting value of the countdown time to 24 hours, set **0H 00'00**.
- 5. Press (A) to exit the setting screen.

E-47

Using the Alarm



You can set five independent daily alarms. When a daily alarm is turned on, an alarm tone will sound for about 10 seconds each day when the time in the Timekeeping Mode reaches the preset alarm time. This is true even if the watch is not in the Timekeeping Mode. You can also turn on an Hourly Time Signal, which will cause the watch to beep twice every hour on the hour.

To enter the Alarm Mode

- To enter the Alarm Mode Use © to select the Alarm Mode (ALM) as shown on page E-10. * ALM will appear on the display for about one second. Next, the display will change to show an alarm number (AL1 through AL5) or the SIG indicator. The alarm number indicates an alarm screen SIG is shown when the Hourly Time Signal screen is on the display. * When you enter the Alarm Mode, the data you were viewing when you last exited the mode appears first. E-4

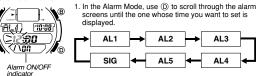
F-49

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CASIO

To set an alarm time



Hold down (A) until the alarm time starts to flash. This is the setting screen.
 Before the alarm time starts to flash, the message SET Hold will appear on the display. Keep (A) depressed until SET Hold disappears and the alarm time starts to flash.

3. Press C to move the flashing between the hour and minute settings.

E-50

To turn an alarm and the Hourly Time Signal on and off 1. In the Alarm Mode, use (1) to select an alarm or the Hourly Time Signal. 2. When the alarm or the Hourly Time Signal you want is selected, press (A) to toggle



The alarm on indicator (when any alarm is on) and the Hourly Time Signal on indicator (when the Hourly Time Signal is on) are shown on the display in all

To stop the alarm

Press any button.

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Keep pressing [®] until LT1 or LT3 is displayed in the left corner of the display.
 See step 3 under "To change the current time and date settings" (page E-18) for information about how to scroll through setting screens.

- Press (D) to toggle the illumination duration between three seconds (LT3 displayed) and one second (LT1 displayed).
- 4. After the settings are the way you want, press A to exit the setting screen.

Illumination Precautions

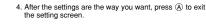
- Illumination may be hard to see when viewed under direct sunlight
- Illumination may be hard to see when viewed under direct sunlight.
 Illumination turns off automatically whenever an alarm sounds.
 Frequent use of illumination runs down the battery.
 The watch may emit an audible sound whenever the display is illuminated. This is due to vibration of the EL panel used for illumination, and does not indicate malfunction.

E-54

Keep pressing [®] until MUTE or KEY [▶] is displayed in the left corner of the display.
 See step 3 under "To change the current time and date settings" (page E-18) for information about how to scroll through setting screens.



3. Press (D) to toggle the button operation tone between on (KEY) and off (MUTE).



Note The mute indicator is displayed in all modes when the button operation tone is turned off.

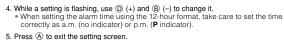
E-56

The battery indicator () appears while a sensor operation is being



The battery indicator appears in the left corner of the digital display whenever there is not enough battery power available to perform a sensor operation in the Barometer/Thermometer Mode or Altimeter Mode. Sensor operation is disabled while the battery indicator is displayed. * Normal operation should return after battery power recovers.

■ "ERR" appears while a sensor operation is in progress. Subjecting the watch to strong impact can cause sensor malfunction or improper contact of internal circuitry. When this happens, ERR (error) will appear on the display and sensor operations will be disabled.



To test the alarm

In the Alarm Mode, hold down D to sound the alarm.



Illumination

The display of the watch is illuminated for easy reading in the dark

To turn on illumination

to turn on illumination
In any mode (except when a setting screen is on the display), press (a) to illuminate the display.
You can use the procedure below to select either one second or three seconds as the illumination duration. When you press (b), the display will remain illuminated for about one second or three seconds, depending on the current illumination duration setting.

To change the illumination duration

In the Timekeeping Mode, hold down (a) until the currently selected city code starts to flash. This is the city code stetting screen.
 Before the city code starts to flash, the message SET Hold will appear on the display. Keep (a) depressed until SET Hold disappears and the city code starts to flash.

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E-51

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, the alarm, Hourly Time Signal, and Countdown Timer Mode alarm all operate normally.

To turn the button operation tone on and off



 In the Timekeeping Mode, hold down (*) until the currently selected city code starts to flash. This is the city code setting screen.
 Before the city code starts to flash, the message SET Hold will appear on the display. Keep (*) depressed until SET Hold disappears and the city code starts to flash. code starts to flash

E-55

Troubleshooting

Time Setting

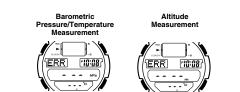
The current time setting is off by hours. Your Home City setting may be wrong (page E-14). Check your Home City setting and correct it, if necessary

■ The current time setting is off by one hour. You may need to change your Home City's standard time/daylight saving time (DST) setting. Use the procedure under "To change the current time and date settings" (page E-18) to change the standard time/daylight saving time (DST) setting.

Sensor modes

I can't change the temperature, barometric pressure, and altitude units. When **TYO** (Tokyo) is selected as the Home City, the altitude unit is set automatically to meters (m), the barometric pressure unit to hectopascals (hPa), and the temperature unit to Celsius (°C). These settings cannot be changed.

E-57



- If ERR appears while a measurement operation is being performed in a sensor mode.
- If IEHR appears while a measurement operation is being performed in a sensor mode, restart the measurement. If ERR appears on the display again, it can mean there is something wrong with the sensor.
 Barometer/Thermometer Mode and Altimeter Mode sensor operations are disabled whenever there is not enough battery power available to perform a sensor operation. This is true regardless of the current battery level. In this case, ERR will appear on the display decomposed here decomposed here the display decomposed here the d the display. This does not indicate malfunction, and sensor operation should resume once battery voltage returns to its normal level.

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CASIO

• If ERR keeps appearing during measurement, it could mean there is a problem with the applicable sensor

Whenever you have a sensor malfunction, take the watch to your original dealer or nearest authorized CASIO distributor as soon as possible.

- The barometric pressure differential pointer does not appear on the display when I enter the Barometer/Thermometer Mode. This could indicate sensor error. Try using © to re-enter the Barometer/ Thermometer Mode.
- The barometric pressure differential pointer is not displayed when the displayed current barometric value is outside of the allowable measurement range (260 to 1,100 hPa).

World Time Mode

■ The time for my World Time City is off in the World Time Mode. This could be due to incorrect switching between standard time and daylight saving time. See "To specify standard time or daylight saving time (DST) for a city" (page E-43) for more information. E-60

Measurement timing: 5-second interval for first 3 minutes followed by 2-minute interval for next 10 hours Other: Reference altitude setting

Masurement and display range: 260 to 1,100 hPa (or 7.65 to 32.45 inHg) Display unit: 1 hPa (or 0.05 inHg) Measurement timing: 5-second interval for first 3 minutes followed by 2-minute interval for next 10 hours in the Barometer/Thermometer Mode Other: Calibration; Barometric pressure differential pointer

Thermometer: Measurement and display range: −10.0 to 60.0°C (or 14.0 to 140.0°F) Display unit: 0.1°C (or 0.2°F) Measurement timing: 5-second interval for first 3 minutes followed by 2-minute interval for next 10 hours Other: Calibration

E-62

Stopwatch: Measuring unit: 1/100 second Measuring capacity: 23:59' 59:99" Measuring modes: Elapsed time, split time, two finishes

Countdown Timer: Measuring unit: 1 second Countdown start time setting range: 1 minute to 24 hours (1-hour increments and 1-minute increments)

Alarms: 5 Daily alarms; Hourly time signal

Illumination: EL (electro-luminescent panel); Selectable illumination duration (approximately 1 second or 3 seconds) Other: Low-temperature resistance (-10°C/14°F); Button operation tone on/off

E-64

City Code Table

City Code	City	UTC Offset/ GMT Differential	City Code	City	UTC Offset/ GMT Differential
PPG	Pago Pago	-11	SCL	Santiago	-4
HNL	Honolulu	-10	YHZ	Halifax	-4
ANC	Anchorage	-9	YYT	St. Johns	-3.5
YVR	Vancouver	-8	RIO	Rio De Janeiro	-3
LAX	Los Angeles	-0	FEN	Fernando de	-2
YEA	Edmonton	-7	I LIN	Noronha	-2
DEN	Denver	-/	RAI	Praia	-1
MEX	Mexico City	6	UTC		
CHI	Chicago	-6	LIS	Lisbon	0
NYC	New York	-5	LON	London	

City Code	City	UTC Offset/ GMT Differential
SEL	Seoul	+9
TYO	Tokyo	+9
ADL	Adelaide	+9.5
GUM	Guam	+10
SYD	Sydney	+10
NOU	Noumea	+11
WLG	Wellington	+12

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

- Specifications
- Accuracy at normal temperature: ±30 seconds a month
- Digital Timekeeping: Hour, minutes seconds a month Time format: 12-hour and 24-hour Calendar system: Full Auto-calendar pre-programmed from the year 2000 to 2099 Other: Home City code (can be assigned one of 48 city codes); Standard Time / Daylight Saving Time (summer time)
- Analog Timekeeping: Hour, minutes (hand moves every 20 seconds) Altimeter:
 - Measurement range: -700 to 10.000 m (or -2.300 to 32.800 ft.) without reference altitude

alitude Display range: -10,000 to 10,000 m (or -32,800 to 32,800 ft.) Negative values can be caused by readings produced based on a reference alitude or due to atmospheric conditions. Display unit: 5 m (or 20 ft.)

E-61

Pressure Sensor Precision:

City Code

MAD

PAR

ROM

BER

STO

ATH

CAI

JRS

MOW

JED

THR

DXB

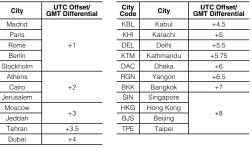
	Conditions (Altitude)	Altimeter	Barometer	
Fixed	0 to 6000 m 0 to 19680 ft.	± (altitude differential × 2% + 15 m) m ± (altitude differential × 2% + 50 ft.) ft.	± (pressure differential × 2% + 2 hPa) hPa	
temperature	6000 to 10000 m 19680 to 32800 ft.	± (altitude differential × 2% + 25 m) m ± (altitude differential × 2% + 90 ft.) ft.	± (pressure differential × 2' + 0.059 inHg) inHg	
Effect of variable temperature	0 to 6000 m 0 to 19680 ft.	± 50 m every 10°C ± 170 ft. every 50°F	± 5 hPa every 10°C	
	6000 to 10000 m 19680 to 32800 ft.	± 70 m every 10°C ± 230 ft. every 50°F	± 0.148 inHg every 50°F	

 Values are guaranteed for a temperature range of -10°C to 40°C (14°F to 104°F)
 Precision is lessened by strong impact to either the watch or the sensor, and by temperature extremes. E-63

Battery: One lithium battery (Type: CR2016) Approximate battery operating time: 3 years under the following conditions: • 1 illumination operation (1.5 seconds) per day • 10 seconds of alarm operation per day • 10 hours of altimeter measurement, once per month

Frequent use of illumination runs down the battery.

E-65



L-1

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