CASIO

Getting Acquainted

Congratulations upon your selection of this CASIO watch. To get the most out of your purchase, be sure to carefully read this manual and keep it on hand for later reference when necessary.

Expose the watch to bright light to charge its battery before using it. You can use this watch even as its battery is being charged by exposure to bright

Press (C)

Be sure to read "Battery" of this manual for important information you need to know when exposing the watch to bright light.

If the digital display of the watch is blank ..



If the Power Saving indicator (15) is flashing on the display, it means that the display is blank because the watch's Power Saving function has turned it off to conserve power. Power Saving automatically turns off the display and enters a sleep state whenever your watch is left for a certain period in an area where it is dark. If the watch is toot in the dirk for a longer period the apple bedrefu will Certain period in an area where it is dark. If the watch is kept in the dark for a longer period, the analog hands will also stop moving after a few days.
The initial factory default setting is Power Saving on.
The watch will recover from the sleep state if you move it to a well-lit area or if you press any button.
See "Power Saving Function" for more information.

Hand Setting Mode

ORLD TIME ALM D

H-S ET

- **General Guide**



Hour hand

I.

WE 30)

Minute hand

Radio-controlled Timekeeping This watch receives a time calibration signal and updates its time setting accordingly. The time calibration signal includes both Standard Time and Daylight Saving Time (summer time) data.

This watch is designed to pick up the time calibration signal transmitted from Rugby, England and the signal from Mainflingen, Germany.

Da Day of week Second hand

Current Time Setting

This watch automatically adjusts its time setting in accordance with a time calibration signal. You can also perform a manual procedure to set the time and date, when

- The first thing you should do after purchasing this watch is to set your Home City, which is the city where you will normally use the watch. For more information, see "To set your Home City" below.
 When using the watch in an area that is outside of the range of the transmitters in
- "To set your Home City' below. When using the watch in an area that is outside of the range of the transmitters in Rugby and Mainflingen, you need to manually adjust the time as required. See "Timekeeping" for information about manual settings. The analog time of this watch is synchronized with the digital time. Because of this, the analog time setting is automatically adjusted whenever you change the digital setting. See "Analog Timekeeping" for more information.
- To set your Home City



- In the Timekeeping Mode, hold down (), until the transmitter indicator (AT, D⊂F, M⊆F) starts to flash, which indicates the setting screen.
 If the displayed transmitter indicator shows something other than AT, use () to display AT before
- advancing to the next step. The second hand will move at high speed to the 12
- I ne second nand will move at nign speed to the 12 o'clock position, where it will stop.
 Press © to display the city code setting screen.
 Use © (east) and @ (west) to select the city code you want to use as your Home City.
 The following are the city codes for major cities in the Worter Surger Surger ages 2 3
- TIME ALM DS OŃ Western Europe time zones. LON: Londor City code

PRR and BER: Paris, Berlin, Milan, Rome, Amsterdam, Hamburg, Frankfurt, Vienna, Barcelona, Madrid 4. Press (A) twice to exit the setting screen.

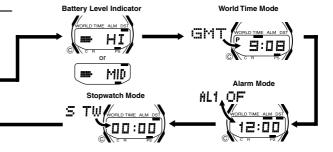
- The first press of (A) displays the 12/24-hour setting screen. Pressing (A) again exits
- the setting screen
- the setting screen. The second hand will advance at high speed to the correct position in accordance with seconds count of the digital time, and resume normal movement from there. Normally, your watch should show the correct time as scon as you select your Home City Code. If i does not, it should adjust automatically after the next auto receive (in the middle of the night). You can also perform manual receive or you can set the time manual the second set of the set of t manually.
- If you are in an area that does not use Davlight Saving Time (summer time), turn off the DST setting. • See "Transmitters" for details about the transmitter indicator.

About This Manual

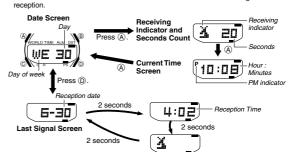


Button operations are indicated using the letters shown in the illustration.
 Each section of this manual provides you with the before the section of the section

information you need to perform operations in each mode. Further details and technical information can be found in the "Reference" section.



- To display the digital time and last signal screen
 In the Timekeeping Mode, press (A) to cycle through the digital time screens as
- In the Timekeeping Mode, press (A) to cycle through the olgital time screens as shown below. In the Timekeeping Mode, press (D) to display the last signal screen. The last signal screen shows the date and time of the last successful time calibration signal



Time Calibration Signal Reception

- There are two different methods you can use to receive the time calibration signal: auto receive and manual receive Auto Receive
- Auto Receive With auto receive, the watch automatically picks up the time calibration signal five times a day at 0:00 a.m., 1:00 a.m., 2:00 a.m., 3:00 a.m., and 4:00 a.m. For more information, see "About Auto Receive". Manual Receive Manual receive lets you start time calibration signal reception with the press of a bitton. Ere more information, non-To proform more projuter ".
- button. For more information, see "To perform manual receive
- Important!
 When getting ready to receive the time calibration signal, position the watch as shown in the nearby illustration, with its 12 o'clock side facing towards a window. Make sure there are no metal objects nearby.



. The watch should not be on its side or facing the wrong way.

Proper signal reception can be difficult or even impossible under the conditions listed below



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



- This watch is designed to receive the time calibration signal transmitted from Rugby,
- This watch is designed to receive the time calibration signal itarismitted infinited England and the signal from Mainfingen, Germany. Signal reception is possible within the area represented by a circle with a radius of about 1,500 kilometers.
 At distances further than about 500 kilometers from a transmitter, signal reception may not be possible during certain times of year or times of day. Radio interference may also cause problems with reception.
 See the information under "Signal Reception Troubleshooting" if you experience problems with time cellbration greating recention.
- problems with time calibration signal reception

About Auto Receive

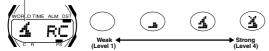
When auto receive is turned on, the watch automatically starts to receive the time calibration signal when the time in the Timekeeping Mode reaches 0:00 a.m., 1:00 a.m., 1:00 a.m., and 4:00 a.m. each day (calibration times). The watch will also perform an additional auto receive at 5:00 a.m. if none of the regularly scheduled auto receive are successful

Note

- Note
 Auto receive is performed only if the watch is in the Timekeeping Mode or World Time Mode when one of the calibration times is reached. It is not performed if a calibration time is reached while an alarm is sounding, or while you are configuring settings (while settings are flashing on the display).
 When a reception starts, the second hand will move at high speed to the 12 o'clock position where it will stop until the reception is complete.
 Auto receipt of the calibration signal is designed to be performed early in the morning, while you sleep (provided that the Timekeeping Mode time is set correctly). Before going to bed for the neight, remove the watch from your wrist, and put it in a location where it can easily receive the signal.
 When auto receive is turned on, the watch receives the calibration signal for two to seven minutes everyday when the time in the Timekeeping Mode reaches each of the five calibration times. Do not perform any button operation within seven minutes before or after any of the five calibration times. Doing so can interfere with correct calibration. calibration
- Remember that reception of the calibration signal depends on the time kept in the Hemember that reception of the calibration signal depends on the time kept in the digital display. The reception will be performed whenever the display shows one of the five calibration times, regardless of whether or not the displayed time is actually the correct time. When two, three, four, or five receptions are successful, the watch uses the data of the last reception for calibration. When only one reception is successful, the watch uses the data of the successful reception.

About the Receiving Indicator The receiving indicator shows the strength of the calibration signal being received. For best reception, be sure to keep the watch in a location where signal strength is strongest

Ror



- Even in an area where signal strength is strong, it takes about 10 seconds for signal Use the receiving indicator as a guide for checking signal strength.
- best location for the watch during signal reception. The Level 4 receiving indicator appears on the Timekeeping Mode's Receiving Indicator and Seconds Count screen only. The Level 4 receiving indicator is not displayed if signal reception was unsuccessful or after manual adjustment of the oursectime ontime.
- Current time setting. The Level 4 receiving indicator indicates that at least one of the five calibration signal reception was successful. Note, however, that the Level 4 receiving indicator is cleared from the display at 3:00 a.m. each day.

To perform manual receive 1. Place the watch on a stable surface so its top (12 in the initial is foring towards a window.

- eiving indicator
- In the Timekeeping Mode, hold down (D) for about two seconds until the watch beeps.
 Release (D) and RC flashes to indicate that signal reception has started.
 - When a reception starts, the second hand will move at high speed to the 12 o'clock position where it will stop until the reception is complete.

- Time calibration signal reception normally takes from two to seven minutes, but in some cases it can take as long as 14 minutes. Take care that you do not perform any button operations or move the watch during this time.
- After signal reception is complete, the display of the watch changes to the last signal screen

Note

- To interrupt a reception and return to the Timekeeping Mode, press ().
 If the reception is unsuccessful, the message ERR appears on the display for about one or two minutes. After that, the watch returns to the Timekeeping Mode.
 You can also change from the last signal or ERR screen to the normal timekeeping
- screen by pressing D

To turn auto receive on and off 1. In the Timekeeping Mode, hold down (A) until the transmitter indicator starts to flash, which indicates the



- The second hand will move at high speed to the 12 o'clock position, where it will stop. 2. Press © three times to move the flashing to the auto
- receive on/off setting.
- S Press (D) to toggle auto receive on (DN) and off (DF).
 If the current Home City setting is a city code that does not support auto receive, "----" appears in place of the on/off indicator. This means you cannot turn out exceeding the order of the one of the o
- auto receive on or off. 4. Press (A) twice to exit the setting screen.
- . The second hand will advance at high speed to the correct position in accordance
- with the digital time seconds count, and resume normal movement from there. For information about city codes that support signal reception, see "To set your Home City".

Signal Reception Troubleshooting

Check the following points whenever you experience problems with signal reception. Probable Cause Problem What you should do Cannot perform manual receive. Enter the Timekeeping Mode and The watch is not in the Timekeeping Enter the Timekeeping Mode and try again. Select BER, PAR, or LON as your home City. Select the appropriate transmitter setting for your current location. Select the appropriate transmitter setting for your current location. Perform manual receive or wait until the next auto receive is performed. Mode. Your current Home City is not one of the following city codes: **BER**, **PAR**, or Auto receive is turned on, but the Level 4 receiving indicator does You changed the time setting You changed the time setting manually. The watch was not in the Timekeepin, or World Time Mode, or you were performing some button operation during auto receive. Even if reception is successful, the Level 4 receiving indicator disappears every day at 3 a.m. Time data (hour, minutes, seconds) only was received during the last reception. The Level 4 receiving indicator appears only when time data and date data (year, month, day) are both received. performed. Check to make sure the watch is in a location where it can receive the signal. not appear on the Timekeeping Mode display If the time is one hour off, the DST setting may be incorrect.
 The Home City code setting is not correct for the area where you are using the watch. Change the DST setting to Auto Time setting is incorrect following signal reception. DST Select the correct Home City code

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

World Time



Pressing (A) in the World Time Mode causes the world.
Pressing (A) in the World Time Mode causes the applicable city code to appear on the digital display for about two seconds.
If the current time shown for a city is wrong, check your Home City time settings and make the necessary changes

The World Time Mode digitally displays the current time

- changes.
- changes. The watch will perform a signal reception even if it is in the World Time Mode when a calibration time is reached. If this happens, the World Time Mode time settings will be adjusted in accordance with the Timekeeping Mode's Home City time. All of the operations in this section are performed in the World Time Mode, which you enter by pressing O.
- To view the time in another city

While in the World Time Mode, press () to scroll through the city codes (time zones)
 For full information on city codes, see the "City Code Table".

To toggle a city code time between Standard Time and Daylight Saving Time 1. In the World Time Mode, use ⁽¹⁾ to display the city code (time zone) whose Standard Time/Daylight



DST indicato

Code (time Zone) whose Standard Time/Daylight Saving Time setting you want to change.
 Pressing (A) in the World Time Mode causes the applicable city code to appear on the digital display for about two seconds.
 Hold down (A) to toggle Daylight Saving Time (DST indicator displayed) and Standard Time (DST indicator tot displayed)

- 2 not displayed).
- not displayed). Note that you cannot use the World Time Mode to change the DST setting of the Home City code you currently have selected in the Timekeeping Mode. See "To change the Daylight Saving Time (summer time) setting" for information about turning the Home City code DST setting on and off.
- The DST indicator will appear on the display whenever you display a city code for which Daylight Saving Time is turned on.
 Note that you cannot switch between Standard Time and Daylight Saving Time while GMT is selected as the city code.
 Note that the DST/Standard Time setting affects only the currently displayed city where the provide of t
- code. Other city codes are not affected

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Alarms

On/Off status Alarm Mode numbe OF LD TIM AL1_OF PS D Alternate at two-second interval 12:00

Alarm time (Hour : Minutes) To set an alarm time

RLD TIME ALM DS

AL2 OF

1. In the Alarm Mode, press (D) to select the alarm whose time you want to set.

You can set three independent Daily Alarms. When an

alarm is turned on, the alarm tone sounds when the alarm time is reached. You can also turn on an Hourly Time

time is reached. You can also turn on an Hourly Time Signal that causes the watch to beep twice every hour on the hour.
The alarm and Hourly Time Signal operate in accordance with the current digital time.
The alarm number (AL1 though AL3) indicates an alarm screen. SIG appears in place of the alarm number when the Hourly Time Signal screen is shown.
All of the operations in this section are performed in the Alarm Mode, which you enter by pressing ^(C).



2. Hold down (A) until the hour setting of the alarm time starts to flash, which indicates the setting screenThis automatically turns on the alarm.

- Press © to move the flashing between the hour and minute settings.
 While a setting is flashing, use © (+) and ® (-) 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).
 If you have 24-hour timekeeping selected in the Timekeeping Mode, the alarm time is also displayed in 24-hour format.
- 5. Press (A) to exit the setting screen.

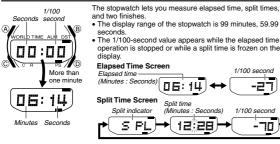
Alarm Operation

The alarm sounds in all modes at the preset time for about 10 seconds, or until you stop it by pressing any button.

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

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

Stopwatch



. The stopwatch continues to run, restarting from zero after it reaches its limit, until

- The stopwatch measurement.
 The stopwatch measurement.
- Mode
- All of the operations in this section are performed in the Stopwatch Mode, which you enter by pressing (C).

To measure times with the stopwatch

Elapsed Time

0	→0—	→0——	→0——	→A
Start	Stop	Re-start	Stop	Clear
Split Time				
(D)	→@	→A	→0——	→A
Start	Split	Split release	Stop	Clear
Two Finishe	S			

0	→@——	→D	→@	→A
Start	Split	Stop	Split release	Clear
	First runner finishes. Display time of first runner.	Second runner finishes.	Display time of second runner.	

Illumination



An LED (light-emitting diode) and a light guide panel illuminate the digital display for easy reading in the dark. • See "Illumination Precautions" for other important information.

To illuminate the display
In any mode, press (B) to illuminate the display.
You can specify 1.5 seconds or 2.5 seconds as the illumination duration. See 'To set the current digital time and date manually" for more information.

Battery

This watch is equipped with a solar cell and a rechargeable battery (secondary battery) that is charged by the electrical power produced by the solar cell. The illustration shown below shows how you should position the watch for charging.

Example: Orient the watch so its face

- Example: Orient the watch so its face is pointing at a light source. The illustration shows how to position a watch with a resin band. Note that charging efficiency drops when any part of the solar cell is

- when any part of the solar cell is blocked by clothing, etc. Normally, you should try to keep the watch outside of your sleeve as much as possible. Charging is significantly reduced if the face is only partially covered.

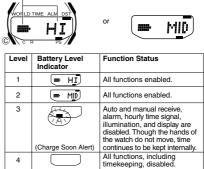
Important!

- Storing the watch for long periods in an area where there is no light or wearing it in such a way that it is blocked from exposure to light can cause rechargeable battery power to run down. Make sure that the watch is normally exposed to bright light undersement with the sure that the watch is normally exposed to bright light
- whenever possible. Normally, the rechargeable battery should not need replacement, but after very long Normally, the rechargeable battery should not need replacement, but after very long use over a number of years, the rechargeable battery may lose its ability to achieve a full charge. Should you notice problems with getting the rechargeable battery to a full charge, contact your dealer or CASIO distributor about having it replaced.
 The rechargeable battery should be replaced with a CASIO-specified CTL1616 battery only. Other rechargeable batteries can cause damage to the watch.
 All data stored in memory is deleted, and the current time and all other settings return to their initial factory defaults whenever battery level drops to Level 4 and when you have the battery replaced.
 Turn on the watch's Power Saving function and keep it in an area normally exposed to bright light when storing it for long periods. This helps to keep the rechargeable battery eable.

- battery from going dead

- To check the current battery level In the Timekeeping Mode, press © once to display the battery level indicator. The battery level indicator shows the battery level either as HI (Level 1) or MID (Level 2).
- If the battery level drops below Level 2 (MID), a charge soon alert (Level 3) is displayed in all modes

Battery level indicator



- The flashing charge indicator () at Level 3 tells you that battery power is very low, and that exposure to bright light for charging is required as soon as possible.
 At Level 4, all functions are disabled and settings return to their initial factory defaults. Functions are enabled once again after the rechargeable battery is charged, but you need to set the time and date, after the battery reaches Level 2 after dropping to Level 4.
 Leaving the watch in direct sunlight or some other very strong light source can cause the battery level indicator to temporarily show a reading that is higher than the actual battery level. The correct battery level indicator should appear after a few minutes.



If you use the light or alarms a number of times during a short period, the recover indicator (a) appears on the display and the following operations become disabled until battery power recovers.

Beeper tone Coordination between digital and analog timekeeping

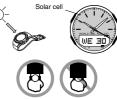
Time calibration signal reception After some time, battery power will recover and the recover indicator will disappear, indicating that the above functions are enabled again.

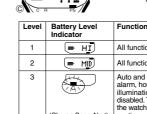
Charging Precautions Certain charging conditions can cause the watch to become very hot. Avoid leaving the watch in the areas described below whenever charging its rechargeable battery. Also note that allowing the watch to become very hot can cause its liquid crystal display to black out. The appearance of the LCD should become normal again when the watch returns to a lower temperature.

Warning!

Leaving the watch in bright light to charge its rechargeable battery can cause it to become quite hot. Take care when handling the watch to avoid burn injury. The watch can become particularly hot when exposed to the following

- conditions for long periods.On the dashboard of a car parked in direct sunlight Too close to an incandescent lamp
- · Under direct sunlight





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Charging Guide

After a full charge, timekeeping remains enabled for up to about 5 months.
The following table shows the amount of time the watch needs to be exposed to light each day in order to generate enough power for normal daily operations.

Exposure Level (Brightness)	Approximate Exposure Time
Outdoor Sunlight (50,000 lux)	5 minutes
Sunlight Through a Window (10,000 lux)	24 minutes
Daylight Through a Window on a Cloudy Day (5,000 lux)	48 minutes

Indoor Fluorescent Lighting (500 lux) 8 hours

Since these are the specs, we can include all the technical details.

1 illumination operation (1.5 seconds) per day
 10 seconds of alarm operation per day
 5 times calibration reception per day
 Stable operation is promoted by frequent charging.

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

Exposure Level	Approximate Exposure Time			
(Brightness)	Level 4	Level 3	Level 2	Level 1
Outdoor Sunlight (50,000 lux)	1 h	our	10 hours	5 hours
Sunlight Through a Window (10,000 lux)	4 ho	ours	48 hours	22 hours
Daylight Through a Window on a Cloudy Day (5,000 lux)	8 ho	ours	99 hours	46 hours
Indoor Fluorescent Lighting (500 lux)	76 h	ours		

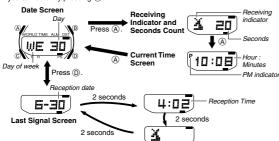
The above exposure time values are all for reference only. Actual required exposure times depend on lighting conditions

Timekeeping

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

When setting the time, you can also configure settings for the illumination duration, the 12/24-hour format, and power saving on/off.
 All of the operations in this section are performed in the Timekeeping Mode, which you can enter by pressing [©].





Setting the Digital Time and Date Manually

Make sure you select your Home City code before you change the current time and date settings. World Time Mode times are all displayed in accordance with the Timekeeping Mode settings. Because of this, World Time Mode times will not be correct if you do not select the proper Home City code before setting the time and date in the Timekeeping Mode.

To set the current digital time and date manually 1. In the Timekeeping Mode, hold down (A) until the transmitter indicator starts to flash, which indicates the



nitter indicato

Trans

The second hand will move at high speed to the 12 o'clock position, where it will stop.
Use (A) or (C) to move the flashing in the sequence

shown below to select other settings

Press ©.→/ Press (A).=> Transmitter/ City Settings Auto Receive City Code Transmitter DST Л ΩĻ Time/Date Settings 12/24-Hour Second Hour Minutes Pow Day Month Year

3. When the setting you want to change is flashing, use (B) and/or (D) to change it as described belo

Transmitter/City Settings

Screen:	To do this:	Do this:
AT	Change the transmitter setting (AT, MSF, orDCF)	Use D.
L ON	Change the city code	Use D (east) and B (west).
	Toggle between Daylight Saving Time (디어), Standard Time (디F), or Auto DST (न)	Press D.
R/C ON	Toggle between auto receive on (ON) and off (OF)	Press D.

See "City Code Table" for a complete list of available city codes.

Time/Date Settings

Screen:	To do this:	Do this:		
15 H	Toggle between 12-hour (1 ∈ H) and 24-hour (∈ H) timekeeping	Press D.		
(* 50)	Reset the seconds to DD	Press D.		
	Toggle the illumination duration setting between 1.5 second (*) and 2.5 seconds (*)	Press B.		
10:08	Change the hour or minutes	Use () (+) and () (-).		
20 04	Change the year	Use () (+) and () (-).		
6-30	Change the month or day	Use () (+) and () (-).		
PS ON	Toggle Power Saving on (CN) and off (CF)	Press D.		

• For information about settings other than the time and date, see the following. Illumination duration: Illumination

- Illumination duration: Illumination Power Saving: Power Saving Function 4. Use (a) to exit the setting screen. If a Transmitter/City Setting screen is displayed, press (a) twice. If a Time/Date Setting screen is displayed, press (b) once. The second hand will advance at high speed to the correct position in accordance with the digital time seconds count, and resume normal movement from there. When you exit the setting screen, the analog hands are adjusted automatically to match the digital time. See "Analog Timekeeping" for more information.
- Note
- See "Transmitters" for more information.
 Auto DST (귀) can be selected only while BER, P줘R, LQN, or 귀TH is selected as the Home City code. For more information, see "Daylight Saving Time (DST)" below.
 The auto receive setting is used for time calibration signal reception only. See "About Auto Receive" for details.

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

Saving Time. The time calibration signals transmitted from Rugby and Mainflingen includes both Standard Time and DST data. When the Auto DST setting is turned on, the watch switches between Standard Time and DST (summer time) automatically in accordance with the received time signal. • The default DST setting is Auto DST (R) whenever you select BER, PAR, LON, or RTH as your Home City code. • If you experience problems receiving the time calibration signal in your area, it is probably best to switch between Standard Time and Pavlinb Raving Time (summer

- probably best to switch between Standard Time and Daylight Saving Time (summer time) manually.
- To change the Daylight Saving Time (summer time) setting
 I. In the Timekeeping Mode, hold down (a) until the transmitter indicator starts to
 flash, which indicates the setting screen.
 2. Press (C) twice and the DST setting screen appears.
 J. Use (a) to cycle through the DST settings in the sequence shown below.



4. When the setting you want is selected, press (A) twice to exit the setting screen.
The DST indicator appears on the display to indicate that Daylight Saving Time is turned on.

Analog Timekeeping The analog time of this watch is synchronized with the digital time. The analog time setting is adjusted automatically whenever you change the digital time.

Note

 The hands for the analog timepiece move to adjust to a new setting whenever any of The hands for the analog unrepreterieve to adjust to a for solving intersecting int

- described under "To adjust the analog time" to match the analog setting to the digital
- described under to adjust the digital and the analog time settings manually, make sure you adjust the digital setting first.
 Depending on how much the hands have to move in order to adjust to the digital time, it may take some time before they stop moving.

To adjust the analog time



- In the Timekeeping Mode, press ⓒ five times to enter the Hand Setting Mode.
 Hold down ⓐ until □ □ starts to flash, which indicates the setting screen.
 The second hand will move at high speed to the 12 o'clock position, where it will stop.
 If the second hand is not pointing precisely at 12 o'clock at this time, use ⓐ to adjust its position.
 Each press of ⓑ causes the second hand to advance by one second.

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- 4. Press ©. This will cause the time on the digital display to flash, which indicates that adjustment of hour and minute hands is selected. 5. Use (D) and (B) to adjust the analog setting as described below.
- When you want to do this: Perform this button operation: • Press D. Move the hand setting forward 20 seconds • Press (B) Move the hand setting back 20 seconds Move the hand setting a short Hold down (D) way forward at high speed • Release (D) when the hands reach the setting vou want

	Jou Haili
Move the hand setting a short way back at high speed	 Hold down (B). Release (B) when the hands reach the setting you want.
Move the hand setting a long way forward at high speed	While holding down ① to move the hands at high-speed, press ⑧ to lock the high-speed hand movement. To stop the hand movement, press any button. Hand movement stops automatically if the hour hand makes one full (12-hour) revolution.
Move the hand setting a long way back at high speed	While holding down (B) to move the hands at high-speed, press (D) to lock the high-speed hand movement. To stop the hand movement, press any button. Hand movement stops automatically if the hour hand makes one full (12-hour) revolution.

6. Press (A) to exit the setting screen. • The minute hand will be adjusted slightly to match the seconds when you exit the setting screen.

To return to the Timekeeping Mode, press (C)

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.

Power Saving Function



When turned on, the Power Saving function automatically enters a sleep state whenever the watch is left in an area where lighting is dim (less than about 30 lux). The following shows how watch functions are affected when left in a dark place while in the sleep state

indicato

Approximate Period in sleep state	Functions	
3 to 4 days	 LCD off Alarm, hourly time signal, analog timekeeping and auto receive enabled 	
8 days or more LCD off, alarm and hourly time signal disabled Analog timekeeping stopped at 12 o'clock Auto receive disabled		
The sleep state is indicated by a blank screen with the Power Saving indicator (PS)		

flashing on it. • Wearing the watch inside the sleeve of clothing can cause it to enter the sleep state.

To recover from the sleep state

Perform any one of the following operations.Move the watch to a well-lit area.

· Press any button.

To turn Power Saving on and off



- 1. In the Timekeeping Mode, hold down (A) until the transmitter indicator starts to flash, which indicates the The second hand will move at high speed to the 12 orclock position, where it will stop.
 Press (à again.
 Press (à seven times until the Power Saving on/off orclock program.
- screen appears. 4. Press D to toggle Power Saving on (CH) and off
- (OF)
- 5. Press (A) to exit the setting screen.
- The second hand will advance at high speed to the correct position in accordance with the digital time seconds count, and resume normal movement from there.
 The Power Saving indicator () is on the display in all modes while the Power Optimized and the second sec
- Saving is turned on

Auto Return Features

- Auto Return Features I fyou leave the watch in the Alarm or Hand Setting Mode, or with the Battery Level Indicator (HI or MID) displayed for two or three minutes without performing any operation, if automatically returns to the Timekeeping Mode. If you leave the watch with a flashing setting on the display for two or three minutes without performing any operation, the watch automatically exits the setting screen.
- If

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

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

Radio-controlled Timekeeping Precautions

- Strong electrostatic charge can result in the wrong time being set.
 Even when the watch is within the reception range of the transmitter, signal reception will be impossible if the signal is blocked by mountains or other geological formations between the watch and signal source.
 Signal reception is affected by weather, atmospheric conditions, and seasonal
- changes
- The time calibration signal bounces off the ionosphere. Because of this, such factors as changes in the reflectivity of the ionosphere, as well as movement of the ionosphere to higher altitudes due to seasonal atmospheric changes or the time of day may change the reception range of the signal and make reception temporarily impossible.
- Even if the time calibration signal is received properly, certain conditions can cause
- Even in the time setting to be off by up to one second.
 The current time setting to be off by up to one second.
 The current time setting you make manually.
 The watch is designed to automatically update the date and day of the week for the period January 1, 2000 to December 31, 2099. Setting of the date by the time calibration signal cannot be performed starting from January 1, 2100.
 This watch can receive signals that differentiate between leap years and non-leap years
- Pears.
 Though this watch is designed to receive both time data (hour, minutes, seconds) and date data (year, month, day), certain signal conditions can limit reception to time
- Normally, the signal reception date shown by the last signal screen is the date data included in the received time calibration signal. When only time data is received, however, the last signal screen shows the date as kept in the Timekeeping Mode at the bit of the scheme screen shows the date as kept in the Timekeeping Mode at the time of signal reception.
- If you are in an area where proper time calibration signal reception is impossible, the watch keeps time within ±15 seconds a month at normal temperature.
 If you have problems with proper time calibration signal reception or if the time setting is wrong after signal reception, check your transmitter, current city code, DST (summer time), and auto receive settings. The following are the initial factory defaults for these settings.

Setting	Initial Factory Default
Transmitter	AT
City code	LON (London) (Module 3353) BER (Berlin) (Module 3354)
DST (summer time)	Auto switching)
Auto receive	R/C ON (Auto receive)

Transmitters

This watch is designed to receive the time calibration signal transmitted from Rugby, England and the signal from Mainflingen, Germany. You can select either one of the transmitters, or you can configure the watch to automatically select the transmitter that has the strongest signal.

The following explains how the watch determines which transmitter it should check first while the watch is configured for auto transmitter search (AT).

.

Module 3353	
In this case:	The watch does this:
The first signal auto search operation after factory default settings are in effect, or after the city code has been changed	 Checks the Rugby signal first. If the Rugby signal cannot be received, checks the Mainflingen signal.
Any case other than the above.	 Checks the last successfully received signal first. If the last successfully received signal cannot be received, checks the other signal.
Module 3354	
In this case:	The watch does this:
The first signal auto search operation after factory default settings are in effect, or after the city code has been changed	 Checks the Mainflingen signal first. If the Mainflingen signal cannot be received, checks the Rugby signal.
Any case other than the above.	 Checks the last successfully received signal first. If the last successfully received signal

cannot be received, checks the other signa Since the watch checks signals from both transmitters when $\exists T$ is selected as the transmitter setting, signal reception can take as long as 14 minutes.



 To find out the module number of your watch, look at its back cover. The Module number (3353 or 3354) is engraved inside the box on the back cover



1. In the Timekeeping Mode, hold down A until the transmitter indicator starts to flash, which indicates the

. The second hand will move at high speed to the 12 The second nand will move at minimore the result of the res

Trans nitter indicato

To set up the watch to do this:	Select this transmitter setting:
Automatically select the Rugby or Mainflingen signal	AT
Receive the Mainflingen signal	DCF
Receive the Rugby signal	MSF

Note that ---- appears in place of the transmitter indicator when any city code besides LON, PAR, BER, or ATH is selected as the Home City code. This . Note that -

- besides LUN, PHR, BER, or H H is selected as the Home City code. This indicates that you cannot specify a transmitter.
 3. Press (A) twice to exit the setting screen.
 Reception can take up to 14 minutes when the AT option is selected.
 The second hand will advance at high speed to the correct position in accordance with seconds count of the digital time, and resume normal movement from there.

B setting screen.

CASIO.

- Timekeeping
 Resetting the seconds to 00 while the current count is in the range of 30 to 59 causes the minutes to be increased by 1. In the range of 00 to 29, the seconds are reset to 00 without changing the minutes.
 The day of the week is automatically displayed in accordance with the date (year, month and day) setting.

- The day of the week is automatically displayed in accoroance with the date (year, month, and day) settings.
 The year can be set in the range of 2000 to 2099.
 The watch's built-in full automatic calendar makes allowances for different month lengths and leap years. Once you set the date, there should be no reason to change it except after you have the watch's battery replaced or when battery level drops to Level 4.
 The current time for all city codes in the Timekeeping Mode and World Time Mode is calculated in accordance with the Greenwich Mean Time (GMT) differential for each city, based on your Home City time setting.
 GMT differential is calculated by this watch based on Universal Time Coordinated (UTC*) data.
- GMI differential is calculated by this watch based on Universal Time Coordinated (UTC') data.
 UTC is the world-wide scientific standard of timekeeping. It is based upon carefully maintained 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. The reference point for UTC is Greenwich, England.

- 12-hour/24-hour Timekeeping Formats
 The 12-hour/24-hour timekeeping format you select in the Timekeeping Mode is also applied in all other modes.
 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 a.m.
 With the 24-hour format, times are displayed in the range of 0:00 to 23:59 without any indicator.
- any indicator.

- 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 shortens the battery operating time.

City Code Table

-11.0 Pago Pago HNL Honolulu 10.0 Pagetete ANC Anchorage -03.0 Nome LAX Los Angeles -08.0 Sam Francisco, Las Vegas, Vancouver, Seattle/Tacoma, Dawson City DEN Denver -07.0 El Paso, Edmonton CHI Chicago -06.0 New Orteans, Mexico City, Winnipeg NYC New York -05.0 Parama City, Havana, Lima, Bogota CCS Caracas -04.0 La Paz, Samiago, Pt. Of Spain RIO Rio Daneiro -03.0 Sao Paulo, Buenos Aires, Brasilia, Montevideo -01.0 Praia Dublin, Liston, Casablanca, Dakar, Abidjan LON London +00.0 Dublin, Istanbul, Beirut, Damascus, Care Town JBER Berlin +01.0 Venna, Stockhon, Barcelona, Marid ATH Athens -04.0 Cape Town JBES Jenuslem +03.5 Shiraz JBEN Jeddah +03.5 Murbai, Klayadh, Aden, Addis Ababa, Nairobi, Moscow THH	City Code	City	GMT Differential	Other major cities in same time zone
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WLG Wellington +12.0 Christchurch, Nadi, Nauru Is.	NOU		+11.0	
	WLG	Wellington	+12.0	Christchurch, Nadi, Nauru Is.

Based on data as of June 2003.