Operation Guide 4303

CASIO

Getting Acquainted

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



Before using the watch for the first time...

Some watches are sent from the factory with timekeeping stopped, and the second hand at 12 o'clock. Press the (A) on to start the second hand

This watch does not have a time zone that corresponds to the Greenwich Mean Time differential of -3.5 hours. Because of this, the radio-controlled timekeeping and World Time functions will not display the correct time for Newfoundland, Canada.

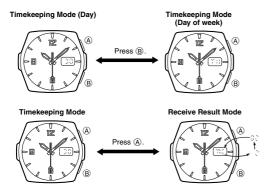
About This Manual



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

- This watch is designed so the function of a button is executed when you release the button, not when you press it.

 Use (A) and (B) to change from mode to mode as shown below



Radio-controlled Atomic 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 in the United States (Fort Collins) and England (Rugby)

Current Time Setting

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

- signal. You can also perform a manage performancessary.

 The first thing you should do after purchasing this watch is to specify your Home Time Zone, which is the time zone where you will normally use the watch. For more information, see "To specify your Home Time Zone" below.

 When using the watch outside the range of the time signal transmitters, you will have to adjust the current time setting manually as required. See "Timekeeping" for more information about manual time settings.



To specify your Home Time Zone

1. In the Timekeeping Mode, hold down

1. In the Time

and the currently selected time zone. 2. Press A to select the time zone you want to use as

your Home Time Zone.
E (GMT- 5): New York, Detroit, Miami, Boston
C (GMT- 6): Chicago, Houston, Dallas/Fort Worth,
New Orleans

M (GMT-7): Denver, El Paso, Culiacan
P (GMT-8): Los Angeles, San Francisco, Las Vegas,
Seattle/Tacoma, Tijuana

O (GMT 0): London
 Hongram
 (GMT+1): Paris, Berlin, Milan, Rome, Amsterdam,
 Hamburg, Frankfurt, Vienna, Barcelona,
 Madrid

- The U.S. time calibration signal can be picked up by the watch while in North
- America.*

 The term "North America" in this manual refers to the area that consists of Canada, the continental United States, and Mexico.

- Press (B) ten times to exit the setting mode.
 The watch will also return to the Timekeeping Mode if you do not perform any
- operation for about three minutes.

 Normally, your watch should show the correct time as soon as you exit the Home
- Normally, your watch should show the correct time as soon as you exit the Home Time Zone setting screen. If it does not, it should adjust automatically after the next auto receive operation (in the middle of the night). You can also perform manual receive or you can set the time manually. Even if the time calibration signal is received correctly, there are some times when the analog hands may not indicate the correct time. If this happens, use the procedures under "Adjusting the Home Positions" to check the home positions of the hands, and make adjustments as required.

 The watch will receive the time calibration signal automatically from the anglicable.
- nands, and make adjustments as required.

 The watch will receive the time calibration signal automatically from the applicable transmitter (in the middle of the night) and update its settings accordingly. For information about the relationship between time zones (GMT differential values) and transmitters, see "Transmitters".

 See the maps under "Reception Ranges" for information about the reception ranges of the week.
- You can disable time signal reception, if you want. See "To set the time and date manually" for more information

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

With auto receive, the watch receives the time calibration signal automatically up to five times a day. When any auto receive is successful, the remaining auto receive operations are not performed. For more information, see "About Auto Receive".

Manual Receive

Manual receive lets you start a time calibration receive operation with the press of a button. For more information, see "To perform manual receive".

 When getting ready to receive the time calibration signal, position the watch as shown in the nearby illustration, with its 6 o'clock side facing towards a window. Make sure there are no metal objects nearby



- The watch should not be facing the wrong way.

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



- phone
- Signal reception is normally better at night than during the day.
 Time calibration signal reception takes from two to seven minutes, but in some cases it can take as long as ten minutes. Take care that you do not perform any button operations or move the watch during this time.

Reception Ranges





- Under good reception conditions, signal reception is possible within a radius of about 2,000 miles (3,000 kilometers) from the Fort Collins (the United States) transmitter
- 2,000 miles (3,000 kilometers) from the Fort Collins (the United States) transmitter.
 At distances further than about 600 miles (1,000 kilometers) from the Fort Collins (the United States) transmitter, signal reception may not be possible during certain times of year or times of day. Radio interferance may also cause problems with reception.
 Under good reception conditions, signal reception is possible within a radius of about 1,500 kilometers (930 miles) from the Mainflingen (Germany) or Rugby (England) transmitter.
 At distances further than about 500 kilometers (310 miles) from the Mainflingen
- (Germany) or Rugby (England) transmitter, signal reception may not be possible during certain times of year or times of day. Radio interferance may also cause
- turning certain intensity year of infines of value, hadro interiorance may also cause problems with reception.

 See the information under "Signal Reception Troubleshooting" if you experience problems with time calibration signal reception.

The watch receives the time calibration signal automatically up to five times a day. When any auto receive is successful, the remaining auto receive operations are not performed. The reception schedule (calibration times) depends on your currently selected Home Time Zone, and whether standard time or Daylight Saving Time is calcated for the Time Zone.

Your Home Time Zone		Auto Receive Start Times					
		1	2	3	4	5	
GMT 0	Standard Time Daylight Saving Time		2:00 am 3:00 am		4:00 am 5:00 am	5:00 am Midnight	
GMT +1	Standard Time Daylight Saving Time		3:00 am 4:00 am	4:00 am 5:00 am	5:00 am Midnight	Midnight 1:00 am next day	
E (GMT -5), C (GMT -6), M (GMT -7), P (GMT -8)	Standard Time and Daylight Saving Time	Midnight	1:00 am	2:00 am	3:00 am	4:00 am	

- When a calibration time is reached, the watch will automatically receive the calibration signal only if it is in either the Timekeeping Mode or Receive Result Mode. It is not performed if a calibration time is reached while you are configuring
- Mode. It is not performed if a calibration time is reached write you are companing settings.

 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 night, remove the watch from your wrist, and put it in a location where it can receive the signal easily.

 The watch receives the calibration signal for two to ten minutes everyday when the time is the Timekeeping Mode reaches each of the calibration times. Do not perform
- time in the Timekeeping Mode reaches each of the calibration times. Do not perform any button operation within ten minutes before or after any one of the calibration
- times. Doing so can interfere with correct calibration.

 Remember that reception of the calibration signal depends on the current time in the Timekeeping Mode. The receive operation will be performed whenever the display shows any one of the calibration times, regardless of whether or not the displayed time is actually the correct time.

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

The receiving indicator is displayed while an auto or manual receive operation is in

Receiving indicato





Use the receiving indicator as a guide for checking signal strength and for finding the best location for the watch during signal reception

To perform manual receive





Receive failed



- Ve

 1. Place the watch on a stable surface so its 6 o'clock side is facing towards a window.

 2. Hold down (a) for about two seconds until 'Ra starts to flash on the display.

 The second hand will move to 12 o'clock and stay there
- while actual reception is in progress.
- The hour and minute hands continue to keep time
- The nour and minute names continue to keep time normally.
 Time calibration signal reception takes from two to ten minutes. Take care that you do not perform any button operations or move the watch during this time.
 When receive is successful, the display shows the time that receive use a useoful.
- that receive was successful.
- The watch will enter the Timekeeping Mode if you press
- The watch will enter the 1 innekeeping Mode if you press (A) or if you do not perform any button operation for about three minutes.

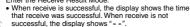
 When receive is unsuccessful, the display shows "--". The watch will enter the Timekeeping Mode without changing the time setting if you press (A) or if you do not perform any button operation for about three minutes.

• To interrupt a receive operation and return to the Timekeeping Mode, press (A)

Viewing the Latest Signal Reception Results

You can use the Receive Result Mode to check if signal reception was performed correctly.

neck the latest signal reception results Enter the Receive Result Mode



successful, the display shows "--".
To return to the Timekeeping Mode, press (A).
If you adjust the time or date setting manually, The display shows "--".

Signal Reception Troubleshooting
Check the following points whenever you experience problems with signal reception.

Problem	Probable Cause	What you should do
Cannot perform manual receive.	The watch is not in the Timekeeping Mode or Receive Result Mode. Your current Home Time Zone setting is not one of the following: 0, +1, E (GMT-5), C (GMT-6), M (GMT-7) or P (GMT-8).	Enter the Timekeeping Mode and try again. Select 0, +1, E (GMT-5), C (GMT-6), M (GMT-7) or P (GMT-8) as your Home Time Zone.
Auto receive is not being performed successfully (" " displayed).	You changed the time setting manually. You were adjusting the watch settings when the auto receive start times were reached. You pressed (A) while signal receive was in progress.	Perform manual signal receive or wait until the next auto signal receive operation is performed. Check to make sure the watch is in a location where it can receive the signal.
Time setting is incorrect following signal reception.	The Home Time Zone setting is not correct for the area where you are using the watch. The home position of the hands is off.	Select the correct Home Time Zone. Enter the Home Position Adjustment Mode and adjust the home position.

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

Adjusting the Home Positions

If the time and date settings are wrong even after the time calibration signal is received normally, use the following procedure to adjust their home positions.

12 o'clock

While in the Timekeeping Mode, hold down (A) and (B)



Correct second hand

home position

- 1. Writing in the innecepting whose, hold down (s) and for about five seconds.

 The analog hands do not keep time during home position adjustment.

 2. Check the position of the second hand.

 The second hand home position is correct if it is pointing at 12 o'clock.

 If the second hand is not pointing at 12 o'clock, it means that its home position is off. If this happens, press (A) to move the second hand clockwise in one-
- second steps, until it points at 12 o'clock.
 Holding down (A) for more than two seconds causes
 the hands to move at high speed. Pressing (A) again
 stops the hands.
- 3. Press (B) to advance to hour and minute hand home
- position adjustment.

 If current hour and minute hand alignment is correct,
- they will both move to 12 o'clock.
 Check the position of the hour and minute hands.
 If the hour and minute hands are not pointing at 12 o'clock, it means that their home position is off. If this happens, press (A) to move the hour and minute hands clockwise in 20-second steps, until they point at 12 o'clock.
- at 12 o'clock.

 Holding down (a) for more than two seconds causes the hands to move at high speed. Pressing (a) again stops the hands.

 5. Pressing (a) exits the home position adjustment mode and enters the Timekeeping Mode.

Timekeeping

Correct hour

and minute hand



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

If you become confused and lose your way during the

- following procedures, simply put the watch down and do not perform any button operation for about three minutes. This will cause the watch to enter the minutes. This will cause the watch to enter the Timekeeping Mode (indicated by normal one-second movement of the second hand) automatically. After that, you can try performing the manual setting procedure again from the beginning.

 • All of the operations in this section are performed in the
- Timekeeping Mode.

B)

- To set the time and date manually

 12 o'clock

 1. In the Timekeeping Mode, hold down

 in for about five seconds.
 - This will cause the second hand to move to 12 o'clock.
 The hour and minute hands do not move in the setting mode.
 Press
 to cycle through settings in the sequence shown



Operation Guide 4303

3. Select the setting you want to change, and then use ${\Bbb A}$ to change it as shown

Screen	To do this:	Do this:	
0	Cycle through time zones	Press (A).	
XC or	Toggle between Daylight Saving Time (000), Standard Time (000), or Auto DST (000)	Press (A).	
36	Reset the seconds to 00	Press (A).	
(0)	Change the hour	Press (A).	
0.0	Change the minutes	Press (A).	
₹_05	Change the year	Press (A).	
#G_06	Change the month	Press (A).	
₹30	Change the day	Press (A).	
€n	Cycle through day of the week languages (a: English (3: Spanish (3: French (3) C German (7: Italian	Press (A).	
M€ _{Ga}	Toggle signal auto receive on (@.) and off (@f) (This setting is possible only for time zones that support time calibration signal reception.)	Press (A).	

- When setting the day, the watch automatically will skip days (30 and 31) that are not included in the currently selected month. If you can't select 30 or 31 when you want to, check to make sure that the proper month is selected.

 Press (8) to exit the setting mode.

 This will cause the hands to move to the current time, and resume normal movement.

Note
The auto receive setting is used for time calibration signal reception only. See "About"

Daylight Saving Time (DST)

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.
The time calibration signals transmitted from Rugby (England), or Fort Collins (the
United States) include 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 preparedness with the cipable.

- Is turned on, the watch switches between standard Time and DST (summer time) automatically in accordance with the signals.

 The default DST setting is Auto DST (RT) whenever you select 0, +1, E (GMT –5), C (GMT–6), M (GMT–7), or P (GMT–8) 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 Daylight Saving Time (summer time) manually.

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

 1. In the Timekeeping Mode, hold down

 until the currently selected Time Zone appears on the display. This is the setting mode.

 Press
 and the DST setting screen appears.

 Use
 to cycle through the DST settings in the sequence shown below.



4. When the setting you want is selected, press (B) nine times to exit the setting

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.

Auto Return Features

- If you leave the watch in the Home Position Adjustment Mode for about three minutes without performing any operation, it returns to the Timekeeping Mode
- automatically. If you do not perform any operation for about three minutes while a setting mode is selected, the watch will exit the setting mode automatically.

Button Operation Timing

This watch is designed so the function of a button is executed when you release the button, not when you press it.

Scrolling

- The (A) button is used to change the hand setting in various setting modes. In most cases, holding down the (A) button will start high-speed movement of the applicable
- High-speed movement of the hands will continue until it completes a 12-hour cycle. or until you press (A) button to stop it.

Radio-controlled Atomic Timekeeping Precautions

- Radio-controlled Atomic 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, as well as movement of the ionosphere as well as movement of the ionosphere to higher altitudes due to seasonal atmospheric changes or the time of determine the control of the property in the present in th day may change the reception range of the signal and make reception temporarily impossible.
- Impossione.

 Even if the time calibration signal is received properly, certain conditions can cause the time setting to be off by up to one second.

 The current time setting in accordance with the time calibration signal takes priority
- The current current setting in accordance with the time calibration signal takes priority over any time settings you make manually.
 The watch is designed to update the date and day of the week automatically for the period January 1, 2001 to December 31, 2098. Setting of the date by the time calibration signal cannot be performed starting from January 1, 2099.
 This watch can receive signals that differentiate between leap years and non-leap years.
- years.
 If you are in an area where proper time calibration signal reception is impossible, the watch keeps time within ±20 seconds a month at normal temperature.

The time calibration signal received by this watch depends on the currently selected home time zone.

- . When a U.S. time zone is selected, the watch receives the time calibration
- when a Cure is acceptant and in several the united dates (Fort Collins).

 When a European time zone is selected, the watch receives the time calibration signal transmitted from England (Rugby).

Timekeeping

- Timekeeping
 The year can be set in the range of 2001 to 2098.
 The watch's built-in full automatic calendar makes allowances for different month lengths and leap years. Once you set the date, there should be no reason to change it except after you have the watch's battery replaced.
 The current time for all time zones in the Timekeeping Mode is calculated in accordance with the Greenwich Mean Time (GMT) differential of each zone, based
- on your Home Time Zone time setting.

 GMT differential is calculated by this watch based on Universal Time Coordinated
- CUTC*) 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

Time Zone Table

Diamia	GMT	Maiar altias in asses time asses		
Display Indicator *1	Differential	Major cities in same time zone (Letters in parentheses are city codes.*1)		
IIIuicatoi	-11.0	Pago Pago (PPG)		
-18	-10.0	Honolulu (HNL), Papeete		
- 10	-09.0			
	-09.0	Anchorage (ANC), Nome Los Angeles (LAX), San Francisco, Las Vegas, Vancouver,		
P	-08.0	Seattle/Tacoma, Dawson City		
60	-07.0	Denver (DEN), El Paso, Edmonton		
ξ	-06.0	Chicago (CHI), Houston, Dallas/Fort Worth, New Orleans, Mexico City, Winnipeg		
8	-05.0	New York (NYC), Montreal, Detroit, Miami, Boston, Panama City, Havana, Lima, Bogota		
- 4	-04.0	Caracas (CCS), La Paz, Santiago, Port Of Spain		
7	-03.0	Rio De Janeiro (RIO), Sao Paulo, Buenos Aires, Brasilia, Montevideo		
- 2	-02.0			
- 1	-01.0	Praia (RAI)		
0	+00.0	London (LON), Dublin, Lisbon, Casablanca, Dakar, Abidjan		
1.1	+01.0	Paris, Milan, Rome, Madrid, Amsterdam, Algiers, Hamburg, Berlin (BER), Frankfurt, Vienna, Stockholm		
÷ 2*	+02.0	Cairo (CAI), Jerusalem (JRS), Helsinki, Istanbul, Beirut, Damascus, Cape Town, Athens		
4.3	+03.0	Jeddah (JED), Kuwait, Riyadh, Aden, Addis Ababa, Nairobi, Moscow		
1.17	+04.0	Dubai (DXB), Abu Dhabi, Muscat		
4.5	+05.0	Karachi (KHI), Male		
4.6	+06.0	Dhaka (DAC), Colombo		
1.7	+07.0	Bangkok (BKK), Jakarta, Phnom Penh, Hanoi, Vientiane		
+ 0	+08.0	Hong Kong (HKG), Singapore, Kuala Lumpur, Beijing, Taipei, Manila, Perth, Ulaanbaatar		
1.0	+09.0	Tokyo (TYO), Seoul, Pyongyang		
4.10	+10.0	Sydney (SYD), Melbourne, Guam, Rabaul		
411	+11.0	Noumea (NOU), Port Vila		
110	+12.0	Wellington (WLG), Christchurch, Nadi, Nauru Island		

Based on data as of December 2004.

*1 Diopley is -!!--

Days of the Week

_				ı	
	English	Spanish	French	German	Italian
Sunday	58	mo	10 (50	100
Monday	60.0	11	LU	mg	LU
Tuesday	TH	MA	នាន	D (MA
Wednesday	ШE	3	ME	61.1	ME
Thursday	TH	11	₫E	100	(5)
Friday	FR	 	UE.	FIR	UE.
Saturday	58	58	58	58	58

Display indicators and city codes are marked on the back cover of the watch