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.



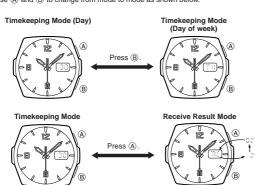
Before using the watch for the first time... Some watches are sent from the factory with timekeeping stopped, and the second hand at 12 o'clock. Press the A on to start the second hand

About This Manual

- Minute hand
- Hour I ١Ž A
- · Button operations are indicated using the letters shown in the illustration. 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.

General Guide

- This watch is designed so the function of a button is executed when you release the
- Use (A) and (B) to change from mode to mode as shown below



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 in Germany (Mainflingen), England (Rugby), the United States (Fort Collins) and the time calibration signals transmitted in Japan.

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 necessarv

- necessary. 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 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.



To specify your Home Time Zone 1. In the Timekeeping Mode, hold down (B) for about five seconds until the currently selected Time Zone appears on the display. This is the setting mode. • The GMT differential value indicates the time

- difference in hours between Greenwich Mean Time and the currently selected time zone
- Press (A) to select the time zone you want to use as your Home Time Zone.
 - our Home Time Zone. 0 (GMT 0) : London +1 (GMT+1) : Paris, Berlin, Milan, Rome, Amsterdam, Hamburg, Frankfurt, Vienna, Barcelona, Madrid +2 (GMT+ 2) : Athens +9 (GMT+ 9) : All cities in Japan

E (GMT–5) : New York, Detroit, Miami, Boston, Montreal C (GMT–6) : Chicago, Houston, Dallas/Fort Worth, New Orleans, Winnipeg, Mexico City M (GMT–7) : Denver, El Paso, Edmonton, Culiacan P (GMT–8) : Los Angeles, San Francisco, Las Vegas, Seattle/Tacoma, Vancouver,

- Tijuana

- 3. 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.
- operation for about three minutes. 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 "adjustion the Jones Desitions" to chack the bore positions of the
- procedures under "Adjusting the Home Positions" to check the home positions of the hands, and make adjustments as required.
- 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 surface.
- of the watch.
- 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

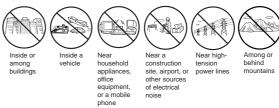
• Auto Receive With auto receive, the watch receives the time calibration signal automatically up to five times a day. When any auto receive is successful, the remaining auto receive operations are not performed. For more information, see "About Auto Receive".

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".

Important!

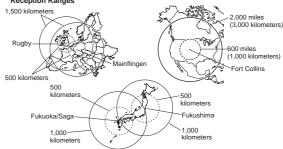
- When getting ready to receive the time calibration signal, position the watch as shown in the nearby illustration, with its 6 o'clock side facing towards a window. Make sure there are no metal objects nearby
 - 6 o'clock C R
- The watch should not be facing the wrong way. Proper signal reception can be difficult or even impossible under the conditions listed below



- 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.
- The time calibration signal the watch will attempt to pick up depends on its current Home City code setting as shown below.

Home City Code	Transmitter	Frequency	
GMT 0	Rugby (England)	60.0 kHz	
GMT+1, GMT+2	Mainflingen (Germany)	77.5 kHz	
GMT+ 9	Fukushima (Japan)	40.0 kHz	
	Fukuoka/Saga (Japan)	60.0 kHz	
E(GMT-5), C(GMT-6), M(GMT-7), P(GMT-8)	Fort Collins, Colorado (the United States)	60.0 kHz	

Reception Ranges



- r good reception conditions, signal reception is possible within a radius of about kilometers (930 miles) from the Mainflingen (Germany) or Rugby (England) 1,500 ki 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 problems with reception.

CASIO

- 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.
- 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 1,000 kilometers (600 miles) from the Fukushima and Fukuoka/ Saga (Japan) transmitter.
- At distances further than about 500 kilometers (310 miles) from the Fukushima and Fukuoka/ Saga (Japan) transmitter, signal reception may not be possible during certain times of year or times of day. Radio interferance may also cause problems
- with reception. See the information under "Signal Reception Troubleshooting" if you experience problems with time calibration signal reception.

About 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. The reception schedule (calibration times) depends on your currently selected Home Time Zone, and whether standard time or Daylight Saving Time is selected for your Home Time Zone.

Your Home Time Zone		Auto Receive Start Times				
		1	2	3	4	5
GMT 0	Standard Time	1:00 am	2:00 am	3:00 am	4:00 am	5:00 am
	Daylight Saving Time	2:00 am	3:00 am	4:00 am	5:00 am	Midnight
GMT +1	Standard Time	2:00 am	3:00 am	4:00 am	5:00 am	Midnight
	Daylight Saving Time	3:00 am	4:00 am	5:00 am	Midnight	1:00 am next day
GMT +2	Standard Time	3:00 am	4:00 am	5:00 am	Midnight	1:00 am next day
	Daylight Saving Time	4:00 am	5:00 am	Midnight	1:00 am next day	2:00 am next day
GMT +9	Standard Time	Midnight	1:00 am	2:00 am	3:00 am	4:00 am
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

- Note 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
- 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 in the Timekeeping Mode reaches each of the calibration times. Do not perform why they expertise within the minutes before or ofter pay one of the calibration
- any button operation within ten minutes before or after any one of the calibration
- any oution 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 strongest. The receiving indicator is displayed while an auto or manual receive operation is in program.

progress

18

792

83

Strong (Level 3)

78 (1

Weak (Level 0)

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

Receiving

Receive successful

7

B

 Place the watch on a stable surface so its 6 o'clock side is facing towards a window.
 Hold down (A) for about two seconds until **70** 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

Place the watch on a stable surface so its 6 o'clock side

- The nour and minute hands 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 was successful.
- The watch will enter the Timekeeping Mode if you press (A) or if you do not perform any button operation for about three minutes
- Receive failed 12 B

 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.

To check the latest signal reception results Enter the Receive Result Mode



When receive is successful, the display shows the time that receive was successful. When receive is not and rectire was successful, when before is not successful, the display shows "--".
 To return to the Timekeeping Mode, press (Å).
 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.

	01 , 1 1	0 1		
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, +2, +9, E (GMT-6), C (GMT-6), M (GMT-7) or P (GMT-8) 	 Enter the Timekeeping Mode and try again. Select 0, +1, +2, +9, 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 "Importantl" under "Time Calibration Signal Recention" 				

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

Adjusting the Home Positions

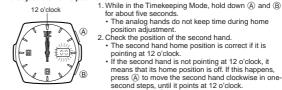
If the time and date settings are wrong even after the time calibration signal is received normally, use the following procedure to adjust their home positions.

stops the hands.

stops the hands.

and enters the Timekeeping Mode

To adjust the home positions

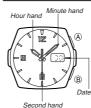


Correct second hand home position



Correct hour and minute hand home position

Timekeeping



12 o'clock

ıž

8

g

7

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.

The second hand home position is correct if it is

3. Press (B) to advance to hour and minute hand home

Press (b) to dvartce to hour and infinite 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

nands clockwise in 20-second steps, until they point at 12 o'clock. Holding down (A) for more than two seconds causes the hands to move at high speed. Pressing (A) again

5. Pressing B exits the home position adjustment mode

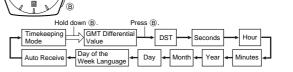
If the second hand hold both both is correct in it is pointing at 12 o'clock. If the second hand is not pointing at 12 o'clock, it means that its home position is off. If this happens, press (a) to move the second hand clockwise in one-second steps, until it points at 12 o'clock. Holding down (a) for more than two seconds causes the hands to move at high speed. Pressing (a) again store the hands.

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 Timekeeping Mode (indicated by normal one-second movement of the second hand) automatically. After that, wu exp th upforgraine the monuted citing percedure.

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.

To set the time and date manually 12 o'clock 1. In the Timekeeping Mode, hold down (B) for about five seconds

This will cause the second hand to move to 12 o'clock A The hour and minute hands do not move in the setting mode. 2. Press $\ensuremath{\textcircled{B}}$ to cycle through settings in the sequence shown below



2

CASIO

3. Select the setting you want to change, and then use (A) to change it as shown

Screen	To do this:	Do this:
0	Cycle through time zones	Press (A).
305 - 07	Toggle between Daylight Saving Time (0.0), Standard Time (0.0), or Auto DST (0.0)	Press (A).
36	Reset the seconds to 00	Press (A).
(6)	Change the hour	Press (A).
0.0	Change the minutes	Press (A).
₹ → 05	Change the year	Press (A).
.05 → 06	Change the month	Press (A).
< ↓ 30	Change the day	Press (A).
ξa	Cycle through day of the week languages	Press (A).
	So : English	
	C:: Spanish	
	58 : French	
	100 : German	
	: 7 : Italian	
79 (Toggle signal auto receive on (😳) and off (🔅)	Press (A).
S → Ga	(This setting is possible only for time zones that support time calibration signal reception.)	

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 (B) to exit the setting mode This will cause the hands to move to the current time, and resume normal movement.

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 Mainflingen (Germany), 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 accordance with the signals. • The time calibration signals transmitted from Fukushima and Fukuoka/Saga (Japan) do not include summer time data. • The default DST setting is Auto DST (**R T**) whenever you select 0, +1, +2, 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 (B) until the currently selected Time Zone
 appears on the display. This is the setting mode.
 2. Press (B) and the DST setting screen appears.
 3. Use (A) 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
- 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 Timekeeping Precautions

- Kradio-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

- 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
- 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 the time setting to be off by up to one second.
 The current time 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 verse.
- ars
- 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. If you have problems with proper time calibration signal reception or if the time setting is wrong after signal reception, check your Home Time Zone (GMT)

To find out the module number of your watch, look at its back cover. The Module number (4304 or 4305) is engraved inside the box on the back cover.

differential) setting. The following are the initial factory defaults for this setting. Module 4304: GMT +1.0 Module 4305: GMT 0.0



Transmitters
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 signal
- When a U.S. time Zone is selected, the watch receives the time calibration signal transmitted from the United States (Fort Collins).
 When a Japanese time zone is selected, the watch receives the time calibration signal transmitted from the Japan (Fukushima and Fukuoka/Saga).
 When a European time zone is selected, the watch receives the time calibration signals transmitted from Germany (Mainflingen) and England (Rugby). The following tables show the reception priority for the European signals.

Module 4304

In this case:	The watch does this:
The first signal search operation after factory default settings are in effect.	 Checks the Mainflingen signal first. If the Mainflingen signal cannot be received, checks the Rugby signal.
The first signal search operation after the Home Time Zone has been changed.	 Checks the Rugby signal first. If the Rugby signal cannot be received, checks the Mainflingen signal.

Adule 4305

In this case:	The watch does this:
The first signal search operation after factory default settings are in effect.	 Checks the Rugby signal first. If the Rugby signal cannot be received, checks the Mainflingen signal.
The first signal search operation after the Home Time Zone has been changed.	 Checks the Rugby signal first. If the Rugby signal cannot be received, checks the Mainflingen signal.

- 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
- 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

Time Zone Table

Display Indicator *1	GMT Differential	Major cities in same time zone (Letters in parentheses are city codes.*1)
malcator	-11.0	Pago Pago (PPG)
- 10	-10.0	Honolulu (HNL), Papeete
	-09.0	Anchorage (ANC), Nome
2	-08.0	Los Angeles (LAX), San Francisco, Las Vegas, Vancouver, Seattle/Tacoma, Dawson City
20	-07.0	Denver (DEN), El Paso, Edmonton
6	-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
- 9	-04.0	Caracas (CCS), La Paz, Santiago, Port Of Spain
- 3	-03.0	Rio De Janeiro (RIO), Sao Paulo, Buenos Aires, Brasilia, Montevideo
	-02.0	
~ {	-01.0	Praia (RAI)
÷.	+00.0	London (LON), Dublin, Lisbon, Casablanca, Dakar, Abidjan
1 (+01.0	Paris (PAR), Milan, Rome, Madrid, Amsterdam, Algiers, Hamburg, Berlin (BER), Frankfurt, Vienna, Stockholm
4 Q	+02.0	Cairo (CAI), Jerusalem (JRS), Helsinki, Istanbul, Beirut, Damascus, Cape Town, Athens
+ 3	+03.0	Jeddah (JED), Kuwait, Riyadh, Aden, Addis Ababa, Nairobi, Moscow
÷ 9	+04.0	Dubai (DXB), Abu Dhabi, Muscat
	+05.0	Karachi (KHI), Male
4 6	+06.0	Dhaka (DAC), Colombo
÷ 3	+07.0	Bangkok (BKK), Jakarta, Phnom Penh, Hanoi, Vientiane
÷ 8	+08.0	Hong Kong (HKG), Singapore, Kuala Lumpur, Beijing, Taipei, Manila, Perth, Ulaanbaatar
÷ 0	+09.0	Tokyo (TYO), Seoul, Pyongyang
: 10	+10.0	Sydney (SYD), Melbourne, Guam, Rabaul
÷ { }	+11.0	Noumea (NOU), Port Vila
112	+12.0	Wellington (WLG), Christchurch, Nadi, Nauru Island

Based on data as of December 2004

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

Days of the Week

	English	Spanish	French	German	Italian
Sunday	58	100	10 (50	100
Monday	M0	LU	LU	610	LU
Tuesday	ΥU	61A	671 A	10 (ANA .
Wednesday	ШE	M (671E	67) (661 <u>6</u>
Thursday	1 H	48	d E	100	61
Friday	F R	<u>1</u> 11	ΉE	F'R	<u>118</u>
Saturday	58	58	58	58	58

CASIO_®

Free Manuals Download Website <u>http://myh66.com</u> <u>http://usermanuals.us</u> <u>http://www.somanuals.com</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.com</u> <u>http://www.404manual.com</u> <u>http://www.luxmanual.com</u> <u>http://aubethermostatmanual.com</u> Golf course search by state

http://golfingnear.com Email search by domain

http://emailbydomain.com Auto manuals search

http://auto.somanuals.com TV manuals search

http://tv.somanuals.com