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.

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.

Keep the watch exposed to bright light

The electricity generated by the solar cell of the watch is stored in a built-in battery. Leaving or using the watch where it is not exposed to light causes the battery to run down. Make sure the watch is exposed to light as much as possible.

• When you are not wearing the watch on your wrist, position the face so it is pointed at a source of bright light.
• You should try to keep the watch outside of your sleeve as much as possible. Charging is reduced significantly if the face is only partially covered.

• The watch continues to operate, even when it is not exposed to light. Leaving the watch in the dark can cause the battery to run down, which will result in some watch functions to be disabled. If the battery goes dead, you will have to re-configure the watch in the dark can cause the battery to run down, which will result in some watch functions to be disabled. If the battery goes dead, you will have to re-configure the watch.

Battery charges in the light. Battery discharges in the dark.

Solar cell (Converses light to electrical power)

[Diagram of solar cell]

Bright Light

[Diagram of bright light]

About This Manual

The operational procedures for Modules 3311 and 5052 are identical. All of the illustrations in this manual show Module 3311.

• 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.

Getting Acquainted

The analog time of this watch is synchronized with the digital time. Because of this, when using the watch outside the ranges of the U.S. and Japanese time signal transmitters, you have to adjust the current time setting manually as required. See “Analog Timekeeping” for more information.

This watch automatically adjusts its time setting in accordance with a time calibration signal transmitted in the United States (Fort Collins, Colorado) and the time calibration signals transmitted in Japan. 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.

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 necessary.

• 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 outside the ranges of the U.S. and Japanese time signal transmitters, you have to adjust the current time setting manually as required. See “Timekeeping” for more information about manual time setting.
• 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

1. In the Timekeeping Mode, hold down [B] until the transmitter indicator ( ) starts to flash, which indicates the setting screen.
2. The second hand will move at high speed to the 12 o’clock position, where it will stop.
3. Use [A] (start) and [C] (stop) to scroll through the city codes until the one you want to use as your Home City is displayed.

Module 3311

[Diagram of Module 3311]

Module 5052

[Diagram of Module 5052]

Battery Level Indicator

World Time Mode

[Diagram of World Time Mode]

Stopwatch Mode

[Diagram of Stopwatch Mode]

Alarm Mode

[Diagram of Alarm Mode]

Operation Guide 3311 5052
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 automatically picks up the time calibration signal five times a day: at 3:00 a.m., 1:00 p.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 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.
- This watch is designed to receive a time calibration signal at night. Because of this, you should place the watch near a window as shown in the illustration when you take it off at night. Make sure there are no metal objects nearby.

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

- Under good reception conditions, signal reception is possible within a radius of approximately 500 kilometers from the Fukushima and Fukuoka/Saga time calibration signal transmitters. The signal the watch will attempt to pick up depends on your current Home City code setting as shown below.
- Proper signal reception can be difficult or even impossible under the following conditions.
  - At distances further than about 500 kilometers from the Fukushima and Fukuoka/Saga time calibration signal transmitters, and so
  - Under good reception conditions, signal reception can be difficult or even impossible under the following conditions.
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- **Signal reception is normally better at night than during the day.**

- **Time calibration signal reception takes from two to seven minutes.** Take care that you do not operate any button operations or move the watch during this time.

- **When within range of the applicable transmitter, this watch can receive either the U.S. (Fort Collins, Colorado) or Japanese (Fukushima or Fukuoka/Saga) time calibration signals.** The signal the watch will attempt to pick up depends on your current Home City code setting as shown below.

**Home City Code**

<table>
<thead>
<tr>
<th>Home City Code</th>
<th>Transmitter</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATL, CHI, DEN, NYC, PHL, HNL, ANC</td>
<td>Fort Collins, Colorado</td>
<td>60kHz</td>
</tr>
<tr>
<td>TYO**, SEL, HKG</td>
<td>Fukushima</td>
<td>40kHz</td>
</tr>
<tr>
<td></td>
<td>Fukuoka/Saga</td>
<td>60kHz</td>
</tr>
</tbody>
</table>

- The areas covered by the SEL, HKG, PHL, and HNL City codes are quite far from the time calibration signal transmitters, and so
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- **When a reception starts, the second hand will move at high speed to the 12 o’clock position.**

- **Even in an area where signal strength is strong, it takes about 10 seconds for signal reception to stabilize enough for the receiving indicator to indicate strength.**

- **Use the receiving indicator as a guide for checking signal strength and for finding the 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 current time setting.**

- **The Level 4 receiving indicator indicates that at least one of the five calibration times was successful:**

- **If the reception is unsuccessful, the message ERR appears on the display for about two minutes.** After that, the watch returns to the Timekeeping Mode.

- **You can also change from the last signal or EPP screen to the normal timekeeping screen by pressing.**

- **To interrupt a reception and return to the Timekeeping Mode, press (SEL).**

- **Perform manual receive or move the watch during this time.**

- **After signal reception is complete, the display of the watch changes to the last signal screen.**

- **Note:**
  - **If the reception is unsuccessful, the message EPP 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 EPP screen to the normal timekeeping screen by pressing (SEL).**

- **To turn auto receive on and off**

  1. In the Timekeeping Mode, hold down (SEL) until the transmitter indicator starts to flash, which indicates the setting screen.

  2. The second hand will move at high speed to the 12 o’clock position, where it will stop.

  3. Press (SEL) 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.

<table>
<thead>
<tr>
<th>Problem</th>
<th>Likely Cause</th>
<th>What you should do</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cannot perform manual receive</td>
<td>The watch is not in the Timekeeping Mode.</td>
<td>Enter the Timekeeping Mode by pressing (SEL).</td>
</tr>
<tr>
<td>No Home City code</td>
<td>Your current Home City is not one of the following city codes: (SEL), (HNL), (PHL), (ANC), (CHI), (DEN), (NYC), (SEL), (TYO) or (LAX).</td>
<td>Select (SEL), (HNL), (PHL), (ANC), (CHI), (DEN), (NYC), (SEL), or (TYO) as your Home City.</td>
</tr>
<tr>
<td>Auto receive is turned off.</td>
<td>The Level 4 receiving indicator does not appear on the Timekeeping Mode display.</td>
<td>Enter the Timekeeping Mode by pressing (SEL).</td>
</tr>
<tr>
<td>Auto receive is turned off, but the Level 4 receiving indicator does not appear on the Timekeeping Mode display.</td>
<td>You changed the time setting manually.</td>
<td>Enter the Timekeeping Mode by pressing (SEL).</td>
</tr>
<tr>
<td>Auto receive is turned off, but the Level 4 receiving indicator does not appear on the Timekeeping Mode display.</td>
<td>The watch was not in the Timekeeping Mode or World Time Mode, or you were performing a button operation during the auto receive.</td>
<td>Enter the Timekeeping Mode by pressing (SEL).</td>
</tr>
<tr>
<td>Auto receive is turned off, but the Level 4 receiving indicator does not appear on the Timekeeping Mode display.</td>
<td>Even if reception is successful, the Level 4 receiving indicator disappears every day at 4 a.m.</td>
<td>Enter the Timekeeping Mode by pressing (SEL).</td>
</tr>
<tr>
<td>Auto receive is turned off, but the Level 4 receiving indicator does not appear on the Timekeeping Mode display.</td>
<td>The Level 4 receiving indicator appears only when time data and date data (year, month, day) are both received.</td>
<td>Enter the Timekeeping Mode by pressing (SEL).</td>
</tr>
<tr>
<td>Auto receive is turned off, but the Level 4 receiving indicator does not appear on the Timekeeping Mode display.</td>
<td>If the received time is one hour off, the CST setting may be incorrect.</td>
<td>Enter the Timekeeping Mode by pressing (SEL).</td>
</tr>
<tr>
<td>Auto receive is turned off, but the Level 4 receiving indicator does not appear on the Timekeeping Mode display.</td>
<td>The Home City code setting is not correct for the area where you are using the watch.</td>
<td>Enter the Timekeeping Mode by pressing (SEL).</td>
</tr>
</tbody>
</table>

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

The World Time Mode digitally displays the current time in 30 cities (29 time zones) around the world.

To view the time in another city
While in the World Time Mode, press \( \text{C} \) to scroll through the city codes (time zones).

Tips for using the World Time Mode
• For full information on city codes, see the “City Code Table”.
• To toggle a city code between Standard Time and Daylight Saving Time

To set an alarm time
1. In the Alarm Mode, press \( \text{A} \) to display the city code (time zone) whose Standard Time/Daylight Saving Time setting you want to change.

To test the alarm
1. In the Alarm Mode, press \( \text{A} \) to display the selected city code.

Split Time

The stopwatch lets you measure elapsed time, split times, and two finishes.

• The display range of the stopwatch is 99 minutes, 59.99 seconds.

To measure times with the stopwatch
1. Hold down \( \text{A} \) to turn on the stopwatch.

• The stopwatch measurement operation continues even if you exit the Stopwatches Mode.

The 1/100-second value appears while the elapsed time operation is stopped or while a split time is frozen on the display.

Illumination

An LED (light-emitting diode) and a light guide panel illuminate the digital display for easy reading in the dark.

Power Supply

This watch is equipped with a solar cell and a special 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 is pointing at a light source.

To illuminate the display
You can specify 1.5 seconds or 2.5 seconds as the illumination duration. See “Illumination Precautions” for other important information.
To check the current battery level
In the Timekeeping Mode, press D once to display the battery level indicator.
- The battery level indicator shows the battery level either as 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

Battery Level Indicator and Charge Indicator

The battery level indicator shows you the current power level of the rechargeable battery.

<table>
<thead>
<tr>
<th>Level</th>
<th>Battery Level Indicator</th>
<th>Function Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td><img src="image" alt="Battery Level 4" /></td>
<td>All functions enabled.</td>
</tr>
<tr>
<td>3</td>
<td><img src="image" alt="Battery Level 3" /></td>
<td>Auto and manual receive, alarm, hourly time signal, illumination, and display are disabled. Though the hands of the watch do not move, time continues to be kept internally.</td>
</tr>
<tr>
<td>2</td>
<td><img src="image" alt="Battery Level 2" /></td>
<td>All functions, including timekeeping, are disabled.</td>
</tr>
<tr>
<td>1</td>
<td><img src="image" alt="Battery Level 1" /></td>
<td>All functions enabled.</td>
</tr>
</tbody>
</table>

- 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.
- The Home City reverts to TYO (Tokyo), which means that the watch is configured to receive the Japanese time calibration signal, whenever battery power drops to Level 4. If you are using the watch in North America, you will need to configure your Home City code setting whenever battery power recovers 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.
- The correct battery level indicator should appear after a few minutes.

Recovery Times

If the battery level drops below Level 2 (MID), a charge soon alert (Level 3) is displayed in all modes.

- 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 time and date.

- When setting the time, you can also configure the watch 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 D.

Day of the Week Indicators

- Sunday: SU
- Monday: MO
- Tuesday: TU
- Wednesday: WE
- Thursday: TH
- Friday: FR
- Saturday: SA

Daylight Through a Window (5,000 lux)

Time needed to fully charge the battery.

5 minutes

Sunlight Through a Window (10,000 lux)

4 minutes

Outdoor Sunlight (50,000 lux)

46 minutes

Indoor Fluorescent Lighting (600 lux)

4 hours

Too close to an incandescent lamp

Results may be different.

Watch left in the sleep state

- Timekeeping remains enabled for about 5 minutes.
- 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

<table>
<thead>
<tr>
<th>Exposure Level</th>
<th>Approximate Exposure Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outdoor Sunlight (50,000 lux)</td>
<td>5 minutes</td>
</tr>
<tr>
<td>Sunlight Through a Window (10,000 lux)</td>
<td>24 minutes</td>
</tr>
<tr>
<td>Daylight Through a Window on a Cloudy Day (6,000 lux)</td>
<td>48 minutes</td>
</tr>
<tr>
<td>Indoor Fluorescent Lighting (600 lux)</td>
<td>8 hours</td>
</tr>
</tbody>
</table>

- Since these are the specs, we can include all the technical details.
- 5 months (from full charge to Level 3 when the watch is not exposed to light)
- 1 illumination operation (1.5 seconds) per day
- 10 seconds of alarm operation per day
- 5 times calendar reception per day
- 2 years under the following conditions:
  - Watch left in the sleep state
  - Stable operation is promoted by frequent charging.

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 this Timekeeping Mode.

To set the current digital time and date manually:

1. In the Timekeeping Mode, hold down D until the transmitter indicator starts to flash, which indicates the setting screen.
2. The second hand will move at high speed to the 12 o'clock position, where it will stop.
3. Use (a) or (c) to move the flashing in the sequence shown below to select other settings.

Transmitter indicator

- The transmitter indicator that appears indicates whether the currently selected Home City code is one that supports time calibration signal reception.

Time/Date Settings

- Press D to display the transmitter screen.
- Use (a) and (c) to select the other time and date settings, and change the settings as described above.

The current selected Home City code supports signal reception.

The currently selected Home City code does not support signal reception.

<--- The settings will change when the receiver signal is received.

- US 38 represents for the transmitter within NYC, CHI, DEN, LAX, ANC, or HNL, is selected as the Home City. In this case, there is no need to select a transmitter.
- You can change the transmitter when HNL, TYO, or SEL is selected as the Home City. For details, see “To configure the transmitter selection mode setting”.
- Use (a) and (c) to change the transmitter that you want to select.

3. Use (a) to display the transmitter selection screen.

To configure the transmitter selection mode setting:

Press D, and select in order of Timekeeping,
- Day/Date, Year/Month/Day,
- DST
- City Code
- Language

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Operation Guide 3311 5052
To do this:

1. In the Timekeeping Mode, hold down \( \text{B} \) until the transmitter indicator starts to flash, which indicates the setting screen.
2. Press \( \text{B} \) again.
3. Press \( \text{A} \) eight times until the Power Saving on/off screen appears.
4. Press \( \text{A} \) to toggle Power Saving on (\( \text{ON} \)) and off (\( \text{OFF} \)).

Power Saving Function

When you exit the setting screen, the analog hands are adjusted automatically to match the digital time. See “Analog Timekeeping” for more information.

Note

- Auto DST (R) can be selected only while HNL, HPC, LAX, DEN, CHI, HVC, HKG, T\(\text{Y}0\), T\(\text{Y}1\), or SEL is selected as your Home City code. For more information, see “Daylight Saving Time DST” below.
- The real auto receive 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.

The time calibration signal transmitted from Fort Collins includes both Standard Time and DST data. When the Auto DST feature is turned on, the watch switches between Standard Time and DST (summer time) automatically in accordance with the time calibration signal transmitted from Fort Collins.

- The time calibration signals transmitted from Fukushima and Fukuoka/Saga do not include summer time data.
- The Auto DST (R) feature is effective only if the time zone is not the same as the Home City code.
- The Power Saving indicator (PS ON) flashes, which indicates the setting screen.

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

1. In the Timekeeping Mode, hold down \( \text{A} \) until the transmitter indicator starts to flash, which indicates the setting screen.
2. Press \( \text{A} \) twice and the DST setting screen appears.
3. Use \( \text{A} \) to cycle through the DST settings in the sequence shown below.

Auto DST (R) \( \rightarrow \) DST off (\( \text{OFF} \)) \( \rightarrow \) DST on (\( \text{ON} \))

4. When the setting you want is selected, press \( \text{A} \) 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 following occur:
  - When you change the digital time setting manually
  - When the digital time setting is changed by time calibration signal reception
  - When you change the Home City code and/or DST setting
- If the analog time does not match the digital time for any reason, use the procedure described under “To adjust the analog time” to match the analog setting to the digital setting.
- Whenever you need to adjust both 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:

1. In the Timekeeping Mode, press \( \text{A} \) five times to enter the Hand Setting Mode.
2. Hold down \( \text{A} \) until \( \text{A} \) starts to flash, which indicates the setting screen.
3. Press \( \text{A} \) until the hand you want to adjust is selected.
4. The hand will move at high speed to the correct position in accordance with the second hand.
5. To stop the hand movement, press any button.
6. Release the hand setting \( \text{A} \) when the hand reaches the setting position you want.

To return to the Timekeeping Mode, press \( \text{A} \).

Auto Return Features

- If you leave the watch in the Alarm or Hand Setting Mode, or with the Battery Level Indicator (H or MID) displayed for two or three minutes without performing any operation, it 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.

Scrolling

The \( \text{A} \) and \( \text{B} \) buttons are used in various modes and settings to scroll through data on the display. Hold down the desired button during a scroll operation to stop the scroll operation at the data of high speed.

Initial Screen

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

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.
Radio-controlled Atomic Timekeeping Precautions

• Strong electrostatic charge can result in the wrong time being set.
• 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, can affect the signal's accuracy.
• The time setting may change if the watch is moved to a different location.
• 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 day of the week is automatically displayed in accordance with the date (year, month, and day) settings. Correct time in accordance with GMT (Greenwich Mean Time) data received by the watch. Use the setting screen to select the time zone you are in, or select the time zone that is most convenient. Use the world time display to check the current time in major cities around the globe.

Timekeeping

To configure the transmitter selection mode setting

1. In the Timekeeping Mode, hold down the A button until the transmitter indicator starts to flash, which indicates the setting screen.
2. The second hand will move at high speed to the 12 o’clock position, where it will stop.
3. Use the B button to select the transmitter you want to use.
4. Each press of the B button cycles through the available settings as described below.

- AT: Switches the frequency that has the strongest signal.
- JP ID: Receives the signal from Fukushima (48kHz).
- JP BD: Receives the signal from Fukushima/Saga (60kHz).

• Press the A button twice to exit the setting screen.

3. Press the A button twice to exit the setting screen.

• Reception can take up to 14 minutes when the watch is set to receive.

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, can affect the signal’s accuracy. The watch keeps time with an accuracy within ±15 seconds at normal temperature. The time calibration signal can be received at any time of day.

3. Press the A button twice to exit the setting screen.

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