

Operation Guide 5266

CASIO®

ENGLISH

Congratulations upon your selection of this CASIO watch.

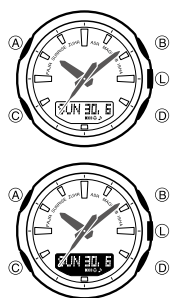
Warning !

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

- To ensure correct direction readings by this watch, be sure to perform bidirectional calibration before using it. The watch may produce incorrect direction readings if you do not perform bidirectional calibration. For more information, see "To perform bidirectional calibration" (page E-24).
- Keep the watch away from audio speakers, magnetic necklace, cell phone, and other devices that generate strong magnetism. Exposure to strong magnetism can magnetize the watch and cause incorrect direction readings. If incorrect readings continue even after you perform bidirectional calibration, it could mean that your watch has been magnetized. If this happens, contact your original retailer or an authorized CASIO Service Center.

E-1

About This Manual



- Depending on the model of your watch, digital display text appears either as dark figures on a light background, or light figures on a dark background. All sample displays in this manual are shown using dark figures on a light background.
- Button operations are indicated using the letters shown in the illustration.
- Note that the product illustrations in this manual are intended for reference only, and so the actual product may appear somewhat different than depicted by an illustration.

E-2

Things to check before using the watch

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

Use the procedure under "To configure Home City settings" (page E-12) to configure your Home City and daylight saving time settings.

Important!

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

2. Configure latitude and longitude settings for your current location.

See "To select a Home City by configuring latitude and longitude settings" (page E-14).

3. Set the current time.

See "Configuring Current Time and Date Settings" (page E-15).

The watch is now ready for use.

E-3

Contents

E-2 About This Manual

E-3 Things to check before using the watch

E-7 Mode Reference Guide

E-11 Timekeeping

E-12 Configuring Home City Settings

E-12 To configure Home City settings

E-13 To change the Daylight Saving Time (summer time) setting

E-14 Configure latitude and longitude settings for your current location

E-14 To select a Home City by configuring latitude and longitude settings

E-15 Configuring Current Time and Date Settings

E-15 To change the current time and date settings

E-17 To specify a Hijri date offset

E-19 Hand Home Position Adjustment

E-19 To adjust home positions

E-20 Determining the Direction to Qibla

E-20 To determine Qibla

E-22 To take a direction reading

E-24 To perform bidirectional calibration

E-26 To perform magnetic declination correction

E-28 Viewing Prayer Names and Prayer Times

E-29 To display today's prayer times

E-30 To view prayer times on a specific date

E-31 To turn a prayer alarm on or off

E-32 To stop a sounding prayer alarm

E-33 To select a prayer time calculation method (FAJR, ISHA)

E-36 Using Moon Data

E-36 To look up the Moon age on a specific date

E-37 Thermometer

E-37 To enter and exit the Thermometer Mode

E-38 To correct the temperature value

E-40 Specifying Temperature Unit

E-40 To specify the temperature unit

E-41 Using the Alarm

E-41 To enter the Alarm Mode

E-42 To set an alarm time

E-42 To test the alarm

E-43 To turn an alarm and the Hourly Time Signal on and off

E-43 To stop the alarm

E-44 Using the Stopwatch

E-44 To enter the Stopwatch Mode

E-44 To perform an elapsed time operation

E-44 To pause at a split time

E-4

E-5

Operation Guide 5266

CASIO®

E-45 Using the Countdown Timer

- E-45 To enter the Countdown Timer Mode
- E-45 To specify the countdown start time
- E-46 To perform a countdown timer operation
- E-46 To stop the alarm

E-47 Illumination

- E-47 To turn on illumination
- E-47 To change the illumination duration

E-49 Button Operation Tone

- E-49 To turn the button operation tone on and off

E-50 Troubleshooting

E-53 Specifications

Mode Reference Guide

Your watch has 9 "modes". The mode you should select depends on what you want to do.

To do this:	Enter this mode:	See:
- View the current time and date in the Home City - Configure Home City and daylight saving time (DST) settings - Configure current location latitude and longitude settings - Configure time and date settings - Specify the Hijri calendar offset	Timekeeping Mode	E-11
- View the Qibla - Take direction readings and display one of 16 direction indicators and the angle relative to magnetic north	Qibla Mode	E-20
View today's prayer name and prayer times	Today's Salat Time Screen	E-28
View the prayer name and prayer times for a specified date	SALAT Time Search Mode	E-28
Determine a Moon age value	Moon Age Mode	E-36
Determine the temperature at your current location	Thermometer Mode	E-37
Set an alarm time	Alarm Mode	E-41
Use the stopwatch to measure elapsed time	Stopwatch Mode	E-44
Use the countdown timer	Countdown Timer Mode	E-45

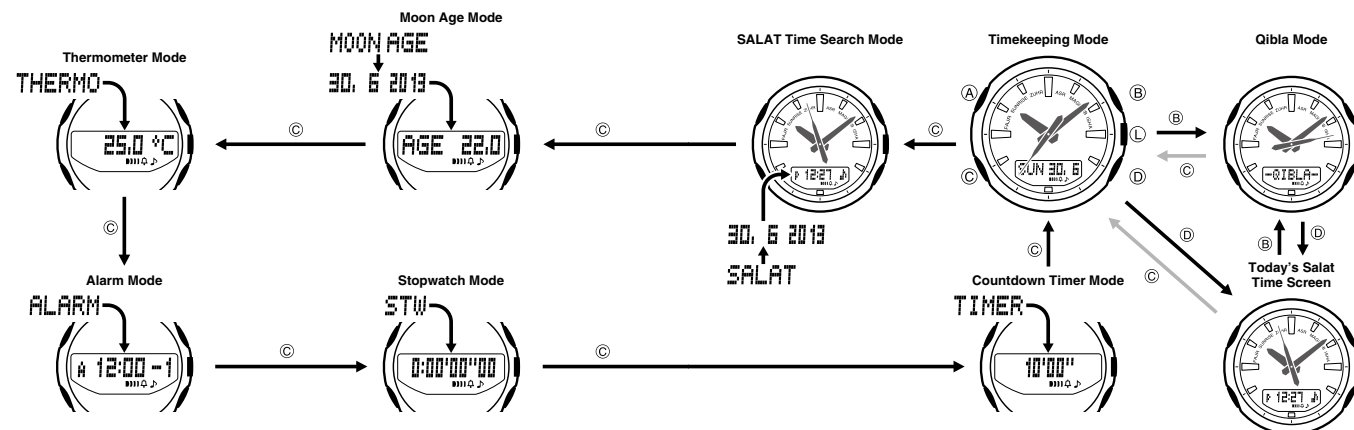
E-6

E-7

Selecting a Mode

- The illustration below shows which buttons you need to press to navigate between modes.
- To return to the Timekeeping Mode from any other mode, hold down (C) for about two seconds.
- In any mode, press (L) to illuminate the display.

- You also can take digital compass readings in the Qibla Mode (page E-22).



E-8

E-9

General Functions (All Modes)

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

Auto Return Features

- If you do not perform any button operation for two or three minutes in the Salat Search Mode, Moon Age Mode, or Alarm Mode, the watch will automatically return to the Timekeeping Mode.
- If you do not perform any button operation for one or two minutes in the Thermometer Mode or Qibla Mode, the watch will automatically return to the Timekeeping Mode.
- If you leave a screen with flashing digits on the digital display for two or three minutes without performing any operation, the watch exits the setting screen automatically.

Initial Screens

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

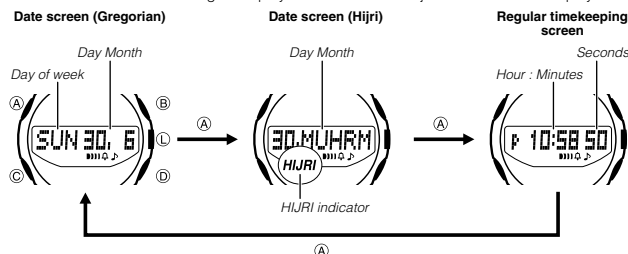
Scrolling

The (B) and (D) buttons are used on the setting screen to scroll through data on the digital display. In most cases, holding down these buttons during a scroll operation scrolls through the data at high speed.

Timekeeping

Use the Timekeeping Mode to set and view the current time and date.

- Each press of (A) in the Timekeeping Mode cycles the digital display between the current Gregorian calendar date, the current Hijri calendar date, and the current time.
- The HIJRI indicator on the digital display indicates that the Hijri calendar date is displayed.



E-10

E-11

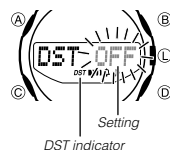
Configuring Home City Settings

There are two methods you can use to configure Home City settings: selecting a Home City and then selecting standard time or daylight saving time (DST), or selecting **CUSTOM** and then specifying an UTC offset.

To configure Home City settings

- In the Timekeeping Mode, hold down (A) for at least two seconds until **ADJUST** appears on the digital display. This is the setting mode. Release (A) after **ADJUST** appears.
 - The city name of the currently selected Home City data will appear on the digital display with an arrow (▶) flashing to the left.
 - The watch will exit the setting mode automatically if you do not perform any operation for about two or three minutes.
 - For details about city data, see the "City Data Table" at the back of this manual.
- Press (D) (East) and (B) (West) to scroll through city names until the one you want to use as your Home City data is displayed.
 - If you selected **CUSTOM** in place of a Home City, press (C) here to display the UTC offset setting screen. Use (D) (+) and (B) (-) change the UTC differential value in 15-minute increments. When you select **CUSTOM**, the standard time/daylight saving time selection screen does not appear. Jump to step 5 of this procedure.
- Press (C) to display the DST setting screen.
- Press (D) to toggle between Daylight Saving Time (**DST ON**) and Standard Time (**DST OFF**).
 - Note that you cannot switch between standard time and daylight saving time (DST) while **CUSTOM** is selected as your Home City.

E-12

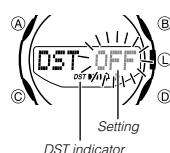


- When the setting is the way you want, press (A) twice to return to the Timekeeping Mode.
 - The **DST** indicator appears to indicate that Daylight Saving Time is turned on.

Note

- After you specify city data, the watch will use UTC* offsets to calculate the current time for other time zones based on the current time in your Home City.
- * Coordinated Universal Time, the world-wide scientific standard of timekeeping.
- The reference point for UTC is Greenwich, England.

To change the Daylight Saving Time (summer time) setting



- In the Timekeeping Mode, hold down (A) for at least two seconds until **ADJUST** appears on the digital display. Release (A) after **ADJUST** appears.
 - The name of the city currently selected as your Home City will appear on the digital display with an arrow (▶) flashing to the left.
- Press (C) to display the DST setting screen.
- Press (D) to toggle between Daylight Saving Time (**DST ON**) and Standard Time (**DST OFF**).
- When the setting is the way you want, press (A) twice to return to the Timekeeping Mode.
 - The **DST** indicator appears to indicate that Daylight Saving Time is turned on.
 - Note that you cannot switch between standard time and daylight saving time (DST) while **CUSTOM** is selected as your Home City.

E-13

Configure latitude and longitude settings for your current location

You can ensure correct display of Qibla, prayer times, and moon ages by configuring latitude and longitude settings for your current location.

To select a Home City by configuring latitude and longitude settings

- In the Timekeeping Mode, hold down (A) for at least two seconds until **ADJUST** appears on the digital display. This is the setting mode. Release (A) after **ADJUST** appears.
 - Your current Home City data will appear on the digital display with an arrow (▶) flashing to the left.
- Press (A) to display to the latitude setting screen with the current latitude setting flashing.
 - Use (D) (+) and (B) (-) to change the flashing value in 0.1° increments.
 - Holding down (D) or (B) while the latitude or longitude setting screen is displayed will scroll the value to the left of the decimal point (the value to the right does not change) at high speed.
- When the latitude is the value you want, press (C) to display the longitude setting screen with the current longitude setting flashing.
 - Use (D) (+) and (B) (-) to change the flashing value in 0.1° increments.
- When the settings are the way you want, press (A) to return to the Timekeeping Mode.

E-14

Configuring Current Time and Date Settings

You can use the procedure below to adjust the current time and date settings if they are off. Changing the digital Home City data should cause the analog time setting to change accordingly. If the analog time does not indicate the digital time, check the home positions of the hands and make adjustments if necessary (page E-19). This watch displays Hijri calendar months and days. The watch normally calculates and displays Hijri calendar dates automatically. If necessary, you can correct the displayed data by ±3 days.

To change the current time and date settings



- In the Timekeeping Mode, hold down (A) for at least two seconds until **ADJUST** appears on the digital display. This is the setting mode. Release (A) after **ADJUST** appears.
 - The name of the city currently selected as your Home City will appear on the digital display with an arrow (▶) flashing to the left.
- Use (D) and (B) to select the city data you want.
 - Select your Home City data before changing any other setting.
 - For full information on city data, see the "City Data Table" at the back of this manual.
- Press (C) to move the flashing in the sequence shown below to select the other settings.

City data
CUSTOM

DST

12/24-Hour Format

Seconds

Hour

Minute

Year

Month

UTC Offset/GMT Differential

Date Display Format

Illumination Duration

Button Operation Tone On/Off

Day

- The following steps explain how to configure timekeeping settings only.

E-15

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

Screen	To do this:	Do this:
JEDDAH	Change the city name	Use (D) (East) and (B) (West).
DST OFF	Toggle between Daylight Saving Time (DST ON) and Standard Time (DST OFF).	Press (D).
12H	Toggle between 12-hour (12H) and 24-hour (24H) timekeeping.	Press (D).
10:58:50	Reset the seconds to 00	Press (D).
	Change the hour or minute	
2013 6.30	Change the year, month, or day	Use (D) (+) and (B) (-).
D/M/Y	Select the date display format (DMY, YMD, MDY)	Press (D).

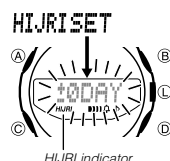
- When the settings are the way you want, press (A) twice to return to the Timekeeping Mode.

Note

- For information about selecting a Home City and configuring the DST setting, see "Configuring Home City Settings" (page E-12).
- 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.
- Changing your Home City setting will cause all of the following settings to become initialized: latitude and longitude (to the location of the Home City), the prayer calculation method (Fajr, Isha, Asr), and the Qibla declination (in accordance with the selected Home City). Note that these settings are not initialized when **CUSTOM** is selected for the Home City setting.

E-16

To specify a Hijri date offset



- In the Timekeeping Mode, hold down (A) for at least four seconds until **HIJRI SET** appears on the digital display. This is the setting mode. Release (A) after **HIJRI SET** appears.
 - Releasing (A) will cause the current Hijri date offset to flash on the digital display.
- Use (D) (+) and (B) (-) to change the offset within a range of ±3 days.
- When the setting is the way you want, press (A).
 - This will display the corrected Hijri date.

Note

- The Hijri offset setting is temporary. At the end of each month, the watch automatically corrects the Hijri date and returns to **±0DAY**.
- Note that the Hijri offset also returns to **±0DAY** whenever you change the watch's Gregorian date setting or the latitude and/or longitude settings.
- Changing the watch's Gregorian date setting can cause an error in the displayed Hijri until the watch performs automatic Hijri date correction at the end of the month (on the 29th or 30th day of the month). If the Hijri date display is wrong, adjust it by changing the Hijri date offset.

Hijri Calendar Precautions

Hijri dates displayed by this calculator are the results of calculations. Actual Hijri dates may be determined by religious authorities based on observations of a New Moon following sundown. This can result in dates calculated by the watch being different from actual Hijri dates.

E-17

Hijri Calendar Months

This watch displays Hijri calendar months and days using the abbreviations below.

MUHRM : First month
SAFAR : Second month
RABI1 : Third month
RABI2 : Fourth month
JUMD1 : Fifth month
JUMD2 : Sixth month
RAJAB : Seventh month
SHABN : Eighth month
RAMDN : Ninth month
SHWAL : Tenth month
D.QDH : Eleventh month
D.HJH : Twelfth month

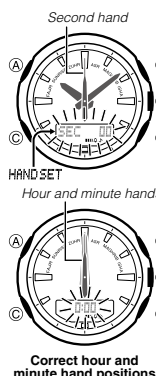
E-18

Hand Home Position Adjustment

The hour, minute, and second hands of this watch can be put out of position by strong magnetism or strong impact. When this happens, you can use the procedure below to adjust the hand positions.

To adjust home positions

- In the Timekeeping Mode, hold down (A) for at least six seconds until **HAND SET** appears on the digital display. This is the setting mode. Release (A) after **HAND SET** appears.
 - This will cause **SEC 00** to flash on the digital display, indicating the second hand adjustment mode.
- Check the position of the second hand.
 - If the second hand is pointing to 12 o'clock, it is in the correct home position. If it isn't, use (D) (forward) and (B) (back) to adjust the second hand position so it points to 12 o'clock.
 - Holding down either button will cause the second hand to move at high speed.
- Press (C). This will cause **0:00** to flash on the digital display, indicating the hour and minute adjustment mode.
- Check the positions of the hour and minute hands.
 - The hands are in the correct home positions if they are pointing to 12 o'clock. If they aren't, use (D) (forward) and (B) (back) to adjust their positions.
 - Holding down either button will cause the hour and minute hands to move at high speed.
- Press (A) to exit the setting screen.
 - This will cause the hour and minute hands to move to the current Timekeeping Mode time.



E-19

Determining the Direction to Qibla

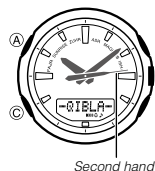
This part of the manual tells you how to determine Qibla, which is the direction of the Kaaba in Makkah. It also explains how to determine magnetic north, and display one of 16 direction indicators along with the angle between magnetic north and the direction that the watch's 12 o'clock position is facing.

Important!

Be sure to keep this watch away from any sources of strong magnetism whenever using the digital compass to determining directions or Qibla. Also note that proper digital compass operation is impossible while inside a motor vehicle. For details, see "Digital Compass Precautions" on page E-27 of this manual.

To determine Qibla

- Configure your current Home City settings. See "Configuring Home City Settings" (page E-12).
- Place the watch on flat surface or (if you wearing the watch), make sure that your wrist horizontal (in relation to the horizon).
 - Trying to take a Qibla direction reading while the watch is not horizontal can produce erroneous results.
- In the Timekeeping Mode or while the Today's Salat Time Screen is displayed, press (B).
 - This enters the Qibla Mode.
 - QIBLA-** appears on the digital display and the second hand points to 12 o'clock. Next, Qibla readings start.
 - The watch will take readings every second for about 20 seconds, and the second hand will point towards Qibla.

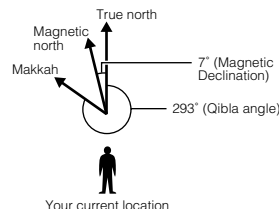


E-20

- If the watch's current latitude and longitude setting is in the vicinity of Makkah (21.4° north latitude, 39.8° east longitude), **MAKKAH** will appear on the digital display and the second hand will point to 12 o'clock.
- appears on the digital display after measurement is complete.
- After Qibla readings are complete, press (C) to return to the Timekeeping Mode. To perform measurement again, press (B).
- If you do not perform any operation for one or two minutes, the watch will automatically return to the Timekeeping Mode or the Today's Salat Time Screen.

About the Qibla angle

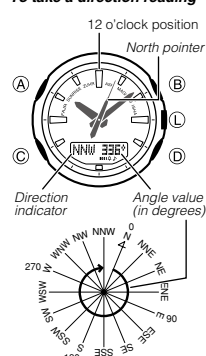
The Qibla angle represents the clockwise angle formed between a line starting from your current location extending to magnetic north, and a line starting from your current location extending to Makkah. When you are near Makkah, moving to a different location can cause a major change in the Qibla angle, even if the move is a short distance.



E-21

To take a direction reading

- In the Qibla Mode, point the 12 o'clock position of the watch in the direction you want to determine, and then press (A).
 - NORTH-** will appear on the digital display and the second hand will move to 12 o'clock.
 - After about one second, a direction reading operation will start.
 - The second hand will move to magnetic north, and one of 16 direction indicators will appear on the digital display along with an angle value that indicates the angle between magnetic north and the direction that the 12 o'clock position of the watch is pointing.
 - See "Digital Compass Readings" on page E-23 for information about what appears on the digital display.
 - The watch will continue to take direction readings every second for 20 seconds.
 - appears on the digital display after measurement is complete.
 - Press (A) to return to the Qibla Mode.



E-22

Digital Compass Readings

- The following table shows the meanings of each of the direction abbreviations that appear on the digital display.

Direction	Meaning	Direction	Meaning	Direction	Meaning	Direction	Meaning
N	North	NNE	North-northeast	NE	Northeast	ENE	East-northeast
E	East	ESE	East-southeast	SE	Southeast	SSE	South-southeast
S	South	SSW	South-southwest	SW	Southwest	WSW	West-southwest
W	West	WNW	West-northwest	NW	Northwest	NNW	North-northwest

Calibrating the Bearing Sensor Reading

You should calibrate the bearing sensor whenever you feel that the direction readings being produced by the watch are off. Bearing sensor calibration is performed using bidirectional calibration. After calibration the sensor, you can also manually perform magnetic declination correction.

Bidirectional Calibration

Bidirectional calibration calibrates the bearing sensor in relation to magnetic north. Use bidirectional calibration when you want to take readings within an area exposed to magnetic force. This type of calibration should be used if the watch becomes magnetized for any reason.

E-23

Important!

- To ensure correct direction readings by this watch, be sure to perform bidirectional calibration before using it. The watch may produce incorrect direction readings if you do not perform bidirectional calibration.
- Keep the watch away from audio speakers, magnetic necklace, cell phone, and other devices that generate strong magnetism. Exposure to strong magnetism can magnetize the watch and cause incorrect direction readings. If incorrect readings continue even after you perform bidirectional calibration, it could mean that your watch has been magnetized. If this happens, contact your original retailer or an authorized CASIO Service Center.

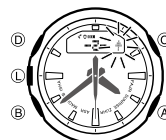
Precautions about bidirectional calibration

- You can use any two opposing directions for bidirectional calibration. You must, however, make sure that they are 180 degrees opposite each other. Remember that if you perform the procedure incorrectly, you will get wrong bearing sensor readings.
- Do not move the watch while calibration of either direction is in progress.
- You should perform bidirectional calibration in an environment that is the same as that where you plan to be taking direction readings. If you plan to take direction readings in an open field, for example, calibrate in an open field.

To perform bidirectional calibration



- In the Qibla Mode, hold down (A) for two seconds.
 - This will cause the bidirectional calibration screen to appear on the digital display.
 - The second hand will move to 12 o'clock. This causes an arrow (→) symbol to flash on the left side of the digital display and -1- to be displayed to indicate that the watch is ready for calibration of the first direction.



- Place the watch on a level surface facing any direction you want, and press (B) to calibrate the first direction.
 - will remain on the digital display while calibration is in progress. OK will appear when first direction calibration is complete. About one second after that, the flashing arrow will change to point downwards (↓) and -2- will be displayed. This means that the watch is ready for calibration of the second direction.
- Rotate the watch 180 degrees.
- Press (B) again to calibrate the second direction.
 - will remain on the digital display while calibration is in progress. OK will appear when second direction calibration is complete.
 - If ERR appears on the digital display, press (B) again to restart calibration.

Magnetic Declination Correction

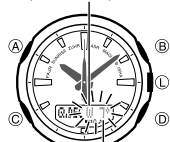
With magnetic declination correction, you input a magnetic declination angle (difference between magnetic north and true north), which allows the watch to indicate true north. You can perform this procedure when the magnetic declination angle is indicated on the map you are using. Note that you can input the declination angle in whole degree units only, so you may need to round off the value specified on the map. If your map indicates the declination angle as 7.4°, you should input 7°. In the case of 7.6° input 8°, for 7.5° you can input 7° or 8°.

E-24

E-25

To perform magnetic declination correction

Magnetic declination angle direction value (E, W, or OFF)



Magnetic declination angle value



- In the Qibla Mode, hold down (A) for two seconds.
 - This will cause the bidirectional calibration screen to appear on the digital display.
- Press (C) to display the Qibla magnetic declination setting screen (Q.DEC).
 - Pressing (C) again will display the northerly magnetic declination setting screen (N.DEC).
 - This will cause the current magnetic declination angle setting to flash on the digital display.
- Use (D) (East) and (B) (West) to change the settings.
 - The following explains magnetic declination angle direction settings.
 - OFF: No magnetic declination correction performed. The default setting for each city will be used for the Qibla magnetic declination. The northerly magnetic declination setting (N.DEC) will be 0°.
 - E: When magnetic north is to the east (east declination)
 - W: When magnetic north is to the west (west declination)
 - You can select a value within the range of W 90° to E 90° with these settings.
 - You can turn off (OFF) magnetic declination correction by pressing (D) and (B) at the same time.
 - Pressing (D) and (B) at the same time will cause the Qibla magnetic declination correction value (Q.DEC) to change to the initial default setting of the currently selected Home City, and the northerly magnetic declination setting (N.DEC) to change to OFF (0°).

- The illustration, for example, shows the value you should input and the direction setting you should select when the map shows a magnetic declination of 7° West.

- When the setting is the way you want, press (A) to exit the setting screen.

Digital Compass Precautions

This watch features a built-in magnetic bearing sensor that detects terrestrial magnetism. This means that north indicated by this watch is magnetic north, which is somewhat different from true polar north. The magnetic north pole is located in northern Canada, while the magnetic south pole is in southern Australia. Note that the difference between magnetic north and true north as measured with all magnetic compasses tends to be greater as one gets closer to either of the magnetic poles. You should also remember that some maps indicate true north (instead of magnetic north), and so you should make allowances when using such maps with this watch.

Location

- Taking a direction reading when you are near a source of strong magnetism can cause large errors in readings. Because of this, you should avoid taking direction readings while in the vicinity of the following types of objects: permanent magnets (magnetic necklaces, etc.), concentrations of metal (metal doors, lockers, etc.), high tension wires, aerial wires, household appliances (TVs, personal computers, washing machines, freezers, etc.).
- Accurate direction readings are impossible while in a train, boat, air plane, etc.
- Accurate readings are also impossible indoors, especially inside ferroconcrete structures. This is because the metal framework of such structures picks up magnetism from appliances, etc.

Storage

- The precision of the bearing sensor may deteriorate if the watch becomes magnetized. Because of this, you should store the watch away from magnets or any other sources of strong magnetism, including: permanent magnets (magnetic necklaces, etc.) and household appliances (TVs, personal computers, washing machines, freezers, etc.).
- Whenever you suspect that the watch may have become magnetized, perform the procedure under "To perform bidirectional calibration" (page E-24).

E-26

E-27

Viewing Prayer Names and Prayer Times

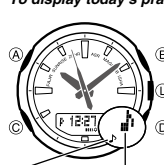
This watch is designed so its second hand points to prayer names on the face, and displays prayer times. The Today's Salat Time Screen shows prayer times and elapsed prayer time. The SALAT time search mode can be used to view the prayer times for a specific date. A Prayer Time Alarm (which can be switched on and off) sounds for 10 seconds when each prayer time arrives. Press any button to stop the alarm after it starts to sound.

About prayer times

Prayer times are calculated automatically in accordance with the time, date, city data, and prayer time calculation method you set in the Timekeeping Mode. This, of course, means that you should always make sure that your Timekeeping Mode settings are configured correctly.

Prayer Indicator	Prayer Time
FAJR	Fajr start time
SUNRISE	Sunrise time
ZUHR	Zuhr start time
ASR	Asr start time
MAGHRIB	Maghrib start time
ISHA	Isha start time

To display today's prayer times



Current alarm on indicator (currently display alarm on)

Prayer time alarm on indicator (at least one alarm on)

- In the Timekeeping Mode, press (D).
 - This displays the Today's Salat Time Screen.
 - The second hand will move to the name of the next prayer scheduled after the current time.
 - The digital display will show the start time of the prayer indicated by the second hand.
- Use (A) to move the second hand sequentially to the other prayer names. The digital display will show the start time of the prayer indicated by the second hand.

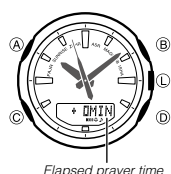


- If you do not press (A) for about one or two minutes after moving the second hand, it will move back to the next scheduled prayer automatically.
- Pressing (D) returns to the next prayer time screen.
- Press (C) to return to the Timekeeping Mode.

E-28

E-29

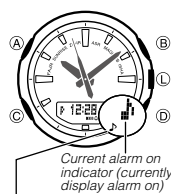
Displaying Elapsed Prayer Time



While the Today's Salat Time Screen is displayed, the digital display will show the time elapsed for up to 30 minutes after the start of the prayer. The second hand will remain pointing to the name of the ongoing prayer. Elapsed prayer time is shown only while Today's Salat Time Screen is displayed.

- After the 31st minute of elapsed timing, the digital display will change to show the start time of the next prayer, and the second hand will move to the name of the next prayer time.
- During the time after ISHA, the second hand will move to FAJR.
- While elapsed time is displayed, you can press **D** or **A** to display the next prayer time.
- Press **B** to enter the Qibla Mode. Press **C** to enter the Timekeeping Mode.

To view prayer times on a specific date



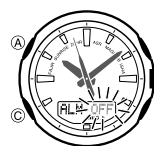
Prayer time alarm on indicator (at least one alarm on)

- In the Timekeeping Mode, press **C**.
 - This enters the SALAT Time Search Mode.
 - **SALAT** will appear on the digital display for about one second. After that the current year, month, and day appears for about one second.
 - Next, **CALC** will appear on the digital display indicating that prayer time calculation is in progress. After calculation is complete, the second hand will move to the prayer name that was indicated the last time you exited the SALAT Time Search Mode. The digital display will show the prayer time for that prayer.

E-30

- Use the **D** (+) and **B** (-) buttons to scroll from day to day.
 - Scrolling to another day will cause **CALC** to appear on the digital display for one second indicating that prayer time calculation is in progress. After calculation is complete, the second hand will move to the prayer name that was indicated the last time you exited the SALAT Time Search Mode. The digital display will show the prayer time for that prayer.
- Use **A** to move the second hand sequentially to the other prayer names. The digital display will show the start time of the prayer indicated by the second hand.
- Hold down **C** for about two seconds to return to the Timekeeping Mode.

To turn a prayer alarm on or off



- In the Timekeeping Mode, press **D** to display the Today's Salat Time screen. The prayer time on/off setting can be changed only while the Today's Salat Time screen is displayed.
- Use **A** to move the second hand between prayer names until it is pointed at the one whose setting you want to change. The prayer time will appear on the digital display.
- Hold down **A** for about two seconds until **ALM OFF** or **ALM ON** appears on the digital display.
 - This indicator shows the current alarm on/off setting.
 - The current alarm on indicator (**D**) will appear to the right of a displayed prayer time if its alarm is turned on. No indicator is shown if the displayed alarm is turned off.

- Press **D** to toggle the display alarm between on and off.
- After the settings are the way you want, press **A**.
 - This returns to prayer name indication and the Today's Salat Time Screen.

E-31

To stop a sounding prayer alarm

Press any button.

About prayer time calculation methods

Methods that are used to determine prayer times (especially Fajr, Asr, and Isha) differ somewhat between countries and regions. This watch comes with a total of five built-in prayer time calculation methods that conform with various geographical areas around the world. In addition, you can also set your own calculation method for calculation of Fajr, Asr, and Isha.

Prayer Time Calculation Methods

Method Organization	Method (Abbreviation)	Angle of the sun under the Horizon (Fajr)	Angle of the sun under the Horizon (Isha)
Umm al-Qura University, Makkah	MAKKAH	18.5°	90 minutes after Maghrib/120 minutes (during Ramadan only)
Muslim World League	MWL	18.0°	17.0°
Islamic Society of North America (ISNA)	ISNA	15.0°	15.0°
University Of Islamic Sciences, Karachi	KARACHI	18.0°	18.0°
Egyptian General Authority of Survey	EGYPT	19.5°	17.5°
CUSTOM	CUSTOM	10-20.0°; 90 minutes before sunrise	10-20.0°; 90 minutes after Maghrib, 120 minutes (during Ramadan only)

E-32

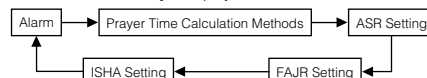
To select a prayer time calculation method (FAJR, ISHA)

Important!

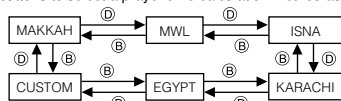
See "Prayer Time Calculation Methods" on page E-32 before configuring the setting below.



- In the Timekeeping Mode, press **D** to display the Today's Salat Time Screen. The prayer time calculation method can be selected only while Today's Salat Time Screen is displayed.
- Use **A** to move the second hand between prayer names until it is pointed at the one whose calculation method you want to set. The prayer time appears on the digital display.
- Hold down **A** for about two seconds to display the setting screen.
 - This displays the prayer alarm setting screen on the digital display.
- Press **C** to display the prayer time setting screen.
 - This will cause the current prayer time calculation method to flash on the digital display.
 - Use **C** to scroll through the settings until [Prayer Time Calculation Methods] is displayed.



- Use the **D** and **B** buttons to select a prayer time calculation method as shown below.



- After selecting the prayer time calculation method you want, press **C**.
 - This will display the [ASR] setting screen.
- Press **D** to toggle the [ASR] setting between **STD**(STANDARD) and **HANAFI**.
 - STD:** Sun position when the length of the shadow of an object is equal to the length of its shadow at noon plus the length of the object
 - HANAFI:** Sun position when the length of the shadow of an object is equal to the length of its shadow at noon plus twice the length of the object
- When the ASR setting is the way you want, press **C**.
 - This will display the [FAJR] setting screen. This setting can be configured only if you select **CUSTOM** for the prayer time calculation method, above. If you select any method other than **CUSTOM**, a default FAJR setting is applied.
- Use the **D** and **B** buttons to scroll through the FAJR settings on the digital display as shown below.



- Scrolling from **FAJR10.0°** to **FAJR20.0°** is in units of 0.5°.
- FAJR-1.5H:** 90 minutes before sunrise

E-34

- When the FAJR setting is the way you want, press **C**.
 - This will display the [ISHA] setting screen. This setting can be configured only if you select **CUSTOM** for the prayer time calculation method, above. If you select any method other than **CUSTOM**, a default ISHA setting is applied.
- Use the **D** and **B** buttons to scroll through the ISHA settings on the digital display as shown below.



- Scrolling from **ISHA 10.0°** to **ISHA 20.0°** is in units of 0.5°.
- ISHA+1.5H:** 90 minutes after Maghrib
- ISHA+1.5/2:** 90 minutes after Maghrib/120 minutes (during Ramadan only)

- After the settings are the way you want, press **A**.
 - This will cause the second hand to move to a prayer name in accordance with your settings. The digital display will show the prayer time for that prayer.

Prayer Time Precautions

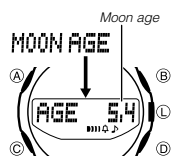
- When you move from one region to another, be sure that you correctly configure Timekeeping Mode settings (city data, prayer time calculation method, and current time) for the region you are moving into. Remember that if you fail to configure these settings correctly, prayer times cannot be calculated and displayed properly.

E-35

Using Moon Data

The Moon Age Mode displays a value that indicates the current date's Moon age. The value indicates the Moon age at sunset on the current date.

To look up the Moon age on a specific date

- 
- In the Timekeeping Mode, press **C** twice to enter Moon Age Mode.
 - This will cause **MOON AGE** to appear on the digital display for about one second. After that the current year, month, and day appears for about one second.
 - Next, **CALC** will appear on the digital display indicating that Moon age calculation is in progress. After the calculation is complete, the Moon age value for the current date will appear.
 - While a Moon age value is displayed you can use the **D** (+) and **B** (-) buttons to scroll from day to day.
 - Scrolling to another day will cause **CALC** to appear on the digital display for one second indicating that Moon age calculation is in progress. The Moon age for the selected date will appear when calculation is complete.
 - Hold down **C** for two seconds to return to the Timekeeping Mode.

Note

- Moon age is calculated to an accuracy of ± 1 day.

Moon Data

The Moon age information that appears when you enter the Moon Age Mode is for sunset on the current date as kept in the Timekeeping Mode in accordance with your Home City setting. After that, you can scroll to another date and check the Moon age on that date.

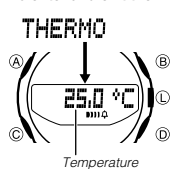
- If the Moon data is not correct, check your Timekeeping Mode settings and correct them if necessary.

E-36

Thermometer

This watch uses a temperature sensor to take temperature readings.

To enter and exit the Thermometer Mode

- 
- In the Timekeeping Mode, press **C** three times to enter Thermometer Mode.
 - This will cause **THERMO** to appear on the digital display for about one second indicating that temperature readings are being taken. After that, the measurement result will appear.
 - The watch will take a temperature reading every five seconds for one or two minutes.
 - Hold down **C** for about two seconds to return to the Timekeeping Mode.
 - If you do not perform any button operation for one or two minutes after temperature measurement is complete, the watch will automatically return to the Timekeeping Mode.

Temperature

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

Display Units

You can select either Celsius (°C) or Fahrenheit (°F) for the displayed temperature value. See "To specify temperature unit" (page E-40) for more information.

E-37

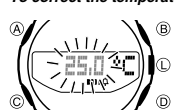
Temperature Sensor Calibration

The watch's temperature sensor is calibrated at the factory and normally requires no further adjustment. If you notice serious errors in the temperature readings produced by the watch, you can calibrate the sensor to correct the errors.

Important!

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

To correct the temperature value

- 
- You can correct the temperature readings displayed by the watch in accordance with another measuring instrument for more accurate readings.
 - In the Timekeeping Mode, press **C** three times to enter Thermometer Mode.
 - Hold down **A** until the current temperature value flashes on the digital display. This is the setting screen.
 - Use **D** (+) and **B** (-) to calibrate the temperature value with the reading of another instrument.
 - Each press of a button changes the temperature value in units of 0.1°C (0.2°F).
 - To return the currently flashing value to its initial factory default setting, press **B** and **D** at the same time. **OFF** will appear at the flashing location for about one second, followed by the initial default value.
 - Press **A** to return to the Thermometer Mode.

E-38

Thermometer Precautions

- Temperature measurements are affected by your body temperature (while you are wearing the watch), direct sunlight, and moisture. To achieve a more accurate temperature measurement, remove the watch from your wrist, place it in a well ventilated location out of direct sunlight, and wipe all moisture from the case. It takes approximately 20 to 30 minutes for the case of the watch to reach the actual surrounding temperature.
- When taking temperature readings, it is best to remove the watch from your wrist in order to eliminate the effects of body heat. Remove the watch from your wrist and allow it to hang freely from your bag or in another location where it is not exposed to direct sunlight.

E-39

Specifying Temperature Unit

Use the procedure below to specify the temperature unit to be used in the Thermometer Mode.

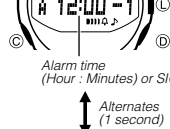
- 
- Important!**
When **TOKYO** is selected as the Home City, the temperature unit is set automatically to Celsius (°C). These settings cannot be changed.
- To specify the temperature unit**
- Enter the Thermometer Mode and then hold down **A** for about two seconds until the current temperature value flashes on the digital display. This is the setting screen.
 - Press **C** to display the temperature unit setting screen with either °C or °F (the current unit setting) will be flashing.
 - Press **D** to toggle the temperature unit between °C (Celsius) and °F (Fahrenheit).
 - After the setting is the way you want, press **A** to exit the setting screen.

E-40

Using the Alarm

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

To enter the Alarm Mode

- 
- Use **C** to select the Alarm Mode (**ALARM**) as shown on page E-8.
- ALARM** will appear on the digital display for about one second. After that, the digital display will show the current alarm time and alarm number (-1 to -5), or the hourly time signal setting. In the case of an alarm, the digital display alternates at one-second intervals between the alarm number and the on/off setting screen.
 - The alarm number indicates an alarm screen. **SIG** is shown when the Hourly Time Signal screen is on the digital display.
 - When you enter the Alarm Mode, the data you were viewing when you last exited the mode appears first.

E-41

To set an alarm time



- In the Alarm Mode, use **(D)** and **(B)** to scroll through the alarm screens until the one whose time you want to set is displayed.
- Hold down **(A)** until the alarm time starts to flash. This is the setting screen.
- Press **(C)** to move the flashing between the hour and minute settings.
- While a setting is flashing, use **(D)** (+) and **(B)** (-) to change it.
 - When setting the alarm time using the 12-hour format, take care to set the time correctly as a.m. or p.m.
- Press **(A)** to exit the setting screen.

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



- In the Alarm Mode, use **(D)** and **(B)** to select an alarm or the Hourly Time Signal.
- When the alarm or the Hourly Time Signal you want is selected, press **(A)** to toggle it between on and off.
 - The alarm on indicator (when any alarm is on) and the Hourly Time Signal on indicator (when the Hourly Time Signal is on) are shown on the digital display in all modes.

Hourly time signal on indicator

Alarm on indicator

To stop the alarm

Press any button.

E-42

E-43

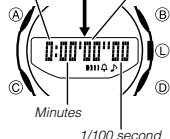
Using the Stopwatch

The stopwatch measures elapsed time and split times.

To enter the Stopwatch Mode

Use **(C)** to select the Stopwatch Mode (STW) as shown on page E-8.

- STW will appear on the digital display for about one second. Next, the digital display will change to show the stopwatch time.



To perform an elapsed time operation

(D) Start → **(D)** Stop → **(D)** (Restart) → **(D)** (Stop) → **(B)** Reset

To pause at a split time

(D) Start → **(B)** Split → **(B)** Split release → **(D)** Stop → **(B)** Reset

Digital display alternates between **SPL** and the 1/100-second value at one-second intervals.

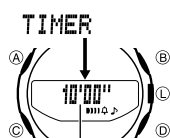
Note

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

E-44

Using the Countdown Timer

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



To enter the Countdown Timer Mode

Use **(C)** to select the Countdown Timer Mode (TIMER) as shown on page E-9.

- TIMER will appear on the digital display for about one second. Next, the digital display will change to show the countdown time.

To specify the countdown start time

- Enter the Countdown Timer Mode.
 - If a countdown is in progress (indicated by the seconds counting down), press **(D)** to stop it and then press **(B)** to reset to the current countdown start time.
 - If a countdown is paused, press **(B)** to reset to the current countdown start time.

- Hold down **(A)** until the minute setting of the current countdown start time starts to flash. This is the setting screen.
- Press **(C)** to move the flashing between the minute and second settings.
- Use **(D)** (+) and **(B)** (-) to change the flashing item.
 - To set the starting value of the countdown time to 100 minutes, set **00'00"**.
- Press **(A)** to exit the setting screen.

To perform a countdown timer operation

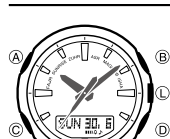
(D) Start → **(D)** Stop → **(D)** (Restart) → **(D)** (Stop) → **(B)** Reset

- Before starting a countdown timer operation, check to make sure that a countdown operation is not already in progress (indicated by the seconds counting down). If it is, press **(D)** to stop it and then **(B)** to reset to the countdown start time.
- An alarm sounds for ten seconds when the end of the countdown is reached. This alarm will sound in all modes. The countdown time is reset to its starting value automatically after the alarm sounds.

To stop the alarm

Press any button.

Illumination



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

To turn on illumination

In any mode (except when a setting screen is on the digital display), press **(L)** to illuminate the display.

- You can use the procedure below to select either 1.5 seconds or three seconds as the illumination duration. When you press **(L)**, the display will remain illuminated for about 1.5 seconds or three seconds, depending on the current illumination duration setting.

To change the illumination duration

- In the Timekeeping Mode, hold down **(A)** for at least two seconds until **ADJUST** appears on the digital display. This is the setting mode. Release **(A)** after **ADJUST** appears.
 - The name of the city currently selected as your Home City will appear on the digital display with an arrow (►) flashing to the left.
- Press **(C)** 10 times until **LIGHT 1** or **LIGHT 3** is displayed.
 - See step 3 under "To change the current time and date settings" (page E-15) for information about how to scroll through setting screens.
- Press **(D)** to toggle the illumination duration between three seconds (**LIGHT 3** displayed) and 1.5 seconds (**LIGHT 1** displayed).
- When the setting is the way you want, press **(A)** twice to return to the Timekeeping Mode.

E-46

E-47

Illumination Precautions

- Illumination may be hard to see when viewed under direct sunlight.
- Illumination turns off automatically whenever an alarm sounds.
- Illumination will not turn on while an alarm is sounding, while high-speed hand movement is in progress, while a sensor is taking a reading, or while the watch is performing calculation (CALC displayed). Illumination will turn on if (D) is pressed between sensor reading operations.
- Frequent use of illumination runs down the battery.

E-48

Button Operation Tone

The button operation tone sounds any time you press one of the watch's buttons. You can turn the button operation tone on or off as desired.

- Even if you turn off the button operation tone, the alarm, Hourly Time Signal, and Countdown Timer Mode alarm all operate normally.
- Prayer alarm will sound even if the button operation tone is turned off (MUTE).

To turn the button operation tone on and off



1. In the Timekeeping Mode, hold down (A) for at least two seconds until **ADJUST** appears on the digital display. This is the setting mode. Release (A) after **ADJUST** appears.
 - The name of the city currently selected as your Home City will appear on the digital display with an arrow (▶) flashing to the left.
2. Use (C) to cycle through settings on the digital display until the current button operation tone setting (**MUTE** or **KEY**) is displayed.
 - See step 3 under "To change the current time and date settings" (page E-15) for information about how to scroll through setting screens.
3. Press (D) to toggle the button operation tone between on (**KEY**) and off (**MUTE**).
4. When the setting is the way you want, press (A) twice to return to the Timekeeping Mode.

E-49

Troubleshooting

Time Setting

■ Why is the current time setting off by a couple of hours?

Your Home City setting may be wrong (page E-12). Check your Home City setting and correct it, if necessary.

■ Why is the current time setting off by one hour?

You may need to change your Home City's standard time/daylight saving time (DST) setting. Use the procedure under "To change the current time and date settings" (page E-15) to change the standard time/daylight saving time (DST) setting.

Sensor modes

■ Why can't I change the temperature unit setting?

The temperature unit setting is always Celsius (°C) whenever **TOKYO** is selected as the Home City. In this case, the setting cannot be changed.

■ Why does "ERR" appear while a sensor operation is in progress?

Subjecting the watch to strong impact can cause sensor malfunction or improper contact of internal circuitry. When this happens, **ERR** (error) will appear on the digital display and sensor operations will be disabled.

Qibla Readings and Temperature Measurement



E-50

- If **ERR** appears while a measurement operation is being performed in a sensor mode, restart the measurement. If **ERR** appears on the digital display again, it can mean there is something wrong with the sensor.
- If **ERR** keeps appearing during measurement, it could mean there is a problem with the applicable sensor.

■ Why does "ERR" appear on the digital display following bidirectional calibration?

If --- appears and then changes to **ERR** (error) on the calibration screen, it means that there is something wrong with the sensor.

- If **ERR** disappears after about one second, try performing the calibration again.
- If **ERR** keeps appearing, contact your original dealer or nearest authorized CASIO distributor to have the watch checked.

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

■ What causes incorrect direction readings?

- Incorrect bidirectional calibration. Perform bidirectional calibration (page E-24).
- Nearby source of strong magnetism, such as a household appliance, a large steel bridge, a steel beam, overhead wires, etc., or an attempt to perform direction measurement on a train, boat, etc. Move away from large metal objects and try again.

■ What causes different direction readings to produce different results at the same location?

Magnetism generated by nearby high-tension wires is interfering with detection of terrestrial magnetism. Move away from the high-tension wires and try again.

E-51

■ Why am I having problems taking direction readings indoors?

A TV, personal computer, speakers, or some other object is interfering with terrestrial magnetism readings. Move away from the object causing the interference or take the direction reading outdoors. Indoor direction readings are particularly difficult inside ferro-concrete structures. Remember that you will not be able to take direction readings inside of trains, airplanes, etc.

Battery

■ Why is the low battery alert flashing?

Battery power is low. Watch operations are disabled while the low battery alert is flashing on the digital display. If the low battery alert disappears after battery power recovers but then starts to flash again after a short while, it means that you need to have the watch's battery replaced.



Low battery alert

E-52

Specifications

Accuracy at normal temperature: ±30 seconds a month

Digital Timekeeping: Hour, minutes, seconds, a.m. (A)/p.m. (P), month, day, day of the week, Hijri month, Hijri day

Time format: 12-hour and 24-hour

Gregorian calendar system: Full Auto-calendar pre-programmed from the year 2000 to 2099

Hijri calendar: Based on the range of the Gregorian calendar; auto correction at end of each month

Other: City data (70 cities + user setting based on time differential); screen switching (Gregorian or Hijri date, regular timekeeping); year/month/day display format

Analog Timekeeping: Hour, minutes (hand moves every 10 seconds), seconds

Qibla: Second hand indication of Qibla; 20 seconds continuous readings; Calibration (bidirectional); Magnetic declination correction; Magnetic north indication; display of one of 16 direction indicators; Angle value 0° to 359°

Prayer Times: Gregorian 2000 through 2099; FAJR, SUNRISE, ZUHR, ASR, MAGHRIB, ISHA (six time displays per day); prayer alarm; prayer elapsed time measurement (up to 30 minutes); prayer calculation method setting; display of next prayer time

Moon Age: Display of Moon age values at sunset for dates from Gregorian 2000 to 2099

Thermometer:

Measurement and display range: -10.0 to 60.0°C (or 14.0 to 140.0°F)

Display unit: 0.1°C (or 0.2°F)

Reading timing: 5-second intervals for 1 to 2 minutes

Bearing Sensor Precision:

Direction: Within ±15°

Values are guaranteed for a temperature range of -10°C to 40°C (14°F to 104°F).

Temperature Sensor Precision:

±2°C (±3.6°F) in range of -10°C to 60°C (14.0°F to 140.0°F)

E-53

Operation Guide 5266

CASIO®

Alarms: 5 daily alarms; hourly time signal

Stopwatch:

Measuring unit: 1/100 second
Measuring capacity: 23:59' 59.99"
Measuring modes: Elapsed time, split time

Countdown Timer:

Measuring unit: 1 second
Countdown start time setting range: 1 second to 100 minutes (1-minute increments and 1-second increments)

Illumination: LED (Light-emitting diode); Selectable illumination duration (approximately 1.5 seconds or 3 seconds)

Other: Button operation tone on/off

Battery: Two silver oxide batteries (Type: SR927W)

Approximate battery operating time: 2 years under the following conditions:

- 1 illumination operation (1.5 seconds) per day
- 5 prayer alarms and 1 normal alarm (6 total) per day
- 20 seconds of continuous direction readings, 20 times per month
- 2 minutes of continuous temperature readings (5-second intervals), once per week

Frequent use of illumination runs down the battery.

E-54

City Data Table

UTC Offset/ GMT Differential	City Name	Latitude (°) North Latitude +, South Latitude –	Longitude (°) East Longitude +, West Longitude –	FAJR/ISHA Prayer Calculation Method	ASR Prayer Calculation Method	DECLINATION (°) (DEC) E: east declination W: west declination
0.0	Casablanca	33.6	–7.6	MWL	STD	W 3
0.0	Rabat	34.0	–6.8	MWL	STD	W 3
0.0	London	51.5	–0.1	MWL	STD	W 2
1.0	Paris	48.9	2.4	MWL	STD	W 1
1.0	Algiers	36.8	3.0	EGYPT	STD	0
1.0	Lagos	6.5	3.4	EGYPT	STD	W 3
1.0	Bonn	50.7	7.1	MWL	STD	E 1
1.0	Abuja	9.1	7.5	EGYPT	STD	W 2
1.0	Frankfurt	50.1	8.7	MWL	STD	E 1
1.0	Rome	41.9	12.5	MWL	STD	E 2
1.0	Berlin	52.5	13.4	MWL	STD	E 3
2.0	Tripoli	32.9	13.2	EGYPT	STD	E 2
2.0	Cape Town	–33.9	18.4	MWL	STD	W 24
2.0	Istanbul	41.0	29.0	MWL	STD	E 5
2.0	Cairo	30.0	31.2	EGYPT	STD	E 4
2.0	Khartoum	15.6	32.5	EGYPT	STD	E 3
2.0	Ankara	39.9	32.9	MWL	STD	E 5

L

UTC Offset/ GMT Differential	City Name	Latitude (°) North Latitude +, South Latitude –	Longitude (°) East Longitude +, West Longitude –	FAJR/ISHA Prayer Calculation Method	ASR Prayer Calculation Method	DECLINATION (°) (DEC) E: east declination W: west declination
2.0	Beirut	33.9	35.5	MWL	STD	E 4
2.0	Amman	32.0	35.9	MAKKAH	STD	E 4
2.0	Damascus	33.5	36.3	MAKKAH	STD	E 4
3.0	Moscow	55.8	37.6	MWL	STD	E 10
3.0	Addis Ababa	9.0	38.7	MWL	STD	E 2
3.0	Jeddah	21.5	39.2	MAKKAH	STD	E 3
3.0	Madinah	24.5	39.6	MAKKAH	STD	E 3
3.0	Makkah	21.4	39.8	MAKKAH	STD	E 3
3.0	Sanaa	15.4	44.2	MAKKAH	STD	E 2
3.0	Baghdad	33.3	44.4	MWL	STD	E 4
3.0	Riyadh	24.7	46.7	MAKKAH	STD	E 3
3.0	Kuwait	29.4	48.0	MAKKAH	STD	E 3
3.0	Manama	26.2	50.6	MAKKAH	STD	E 2
3.0	Doha	25.3	51.5	MAKKAH	STD	E 2
3.5	Tehran	35.7	51.4	MWL	STD	E 4
4.0	Abu Dhabi	24.5	54.4	MAKKAH	STD	E 2
4.0	Dubai	25.3	55.3	MAKKAH	STD	E 2
4.0	Muscat	23.6	58.6	MAKKAH	STD	E 1
4.5	Kabul	34.5	69.2	KARACHI	STD	E 3

L-1

UTC Offset/ GMT Differential	City Name	Latitude (°) North Latitude +, South Latitude –	Longitude (°) East Longitude +, West Longitude –	FAJR/ISHA Prayer Calculation Method	ASR Prayer Calculation Method	DECLINATION (°) (DEC) E: east declination W: west declination
5.0	Karachi	24.9	67.0	KARACHI	STD	E 1
5.0	Tashkent	41.3	69.2	MWL	STD	E 5
5.5	Mumbai	19.1	72.9	KARACHI	STD	W 1
5.5	Delhi	28.6	77.2	KARACHI	STD	E 1
5.5	Hyderabad	17.4	78.5	KARACHI	STD	W 1
5.5	Kolkata	22.6	88.4	KARACHI	STD	W 1
5.75	Kathmandu	27.7	85.3	MWL	STD	0
6.0	Dhaka	23.7	90.4	KARACHI	STD	0
6.5	Yangon	16.8	96.2	MWL	STD	W 1
7.0	Bangkok	13.7	100.5	MWL	STD	W 1
7.0	Jakarta	–6.2	106.8	MWL	STD	E 1
8.0	Kuala Lumpur	3.1	101.7	MWL	STD	0
8.0	Singapore	1.3	103.8	MWL	STD	0
8.0	Hong Kong	22.4	114.1	MWL	STD	W 2
8.0	Beijing	39.9	116.4	MWL	STD	W 6
9.0	Tokyo	35.7	139.7	MWL	STD	W 7
9.5	Adelaide	–34.9	138.6	MWL	STD	E 8
10.0	Sydney	–33.9	151.2	MWL	STD	E 13
11.0	Noumea	–22.3	166.5	MWL	STD	E 12

L-2

UTC Offset/ GMT Differential	City Name	Latitude (°) North Latitude +, South Latitude –	Longitude (°) East Longitude +, West Longitude –	FAJR/ISHA Prayer Calculation Method	ASR Prayer Calculation Method	DECLINATION (°) (DEC) E: east declination W: west declination
12.0	Wellington	–41.3	174.8	MWL	STD	E 22
–11.0	Pago Pago	–14.3	–170.7	MWL	STD	E 12
–10.0	Honolulu	21.3	–157.9	ISNA	STD	E 10
–9.0	Anchorage	61.2	–149.9	ISNA	STD	E 19
–8.0	Los Angeles	34.1	–118.2	ISNA	STD	E 13
–7.0	Denver	39.7	–105.0	ISNA	STD	E 9
–6.0	Mexico City	19.4	–99.1	MWL	STD	E 6
–6.0	Dallas	32.8	–96.8	ISNA	STD	E 4
–6.0	Chicago	41.9	–87.6	ISNA	STD	W 3
–5.0	New York	40.7	–74.0	ISNA	STD	W 13
–4.0	Santiago	–33.4	–70.6	MWL	STD	E 3
–3.5	St.John's	47.6	–52.7	ISNA	STD	W 20
–3.0	Rio De Janeiro	–22.9	–43.2	MWL	STD	W 22
–2.0	Fernando de Noronha	–3.8	–32.4	MWL	STD	W 21
–1.0	Praia	14.9	–23.5	MWL	STD	W 11
Custom, Initial value: 0.0	Custom	Initial Latitude 0°	Initial Longitude 0°	FAJR18° ISHA17°	STD	0

UTC Offset/GMT Differential: Based on data for December 2010
DEC: Based on data for 2010
DEC Source: World Data Center for Geomagnetism Kyoto

L-3