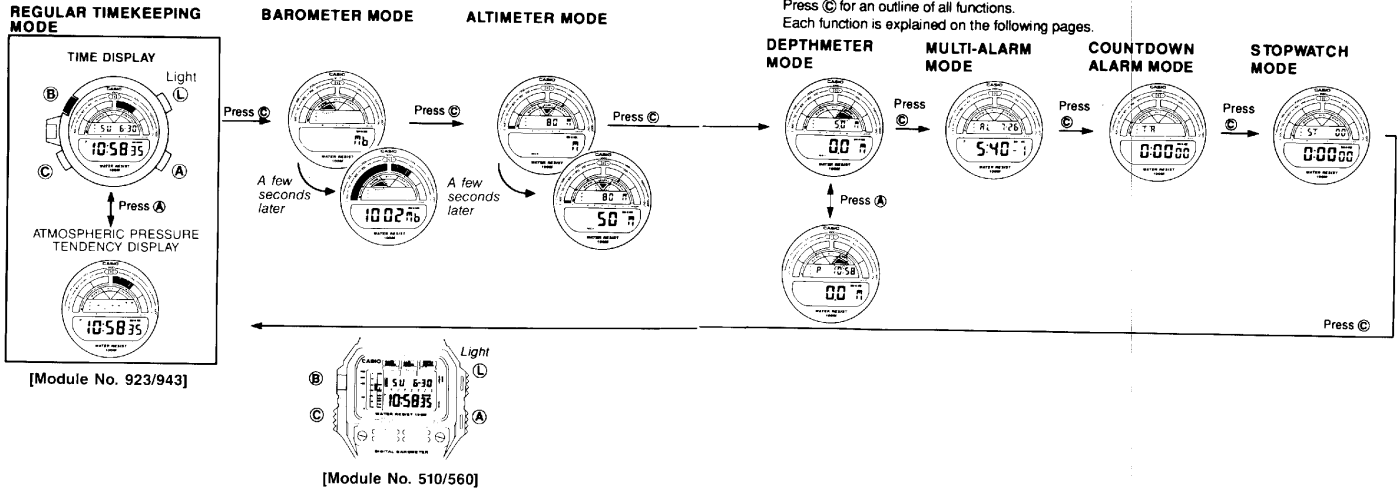# Module No. 510/560/923/943

Module No. 510 and 923 are measured in feet.
Module No. 560 and 943 are measured in meters.
The following explanation is based on Module No. 943.
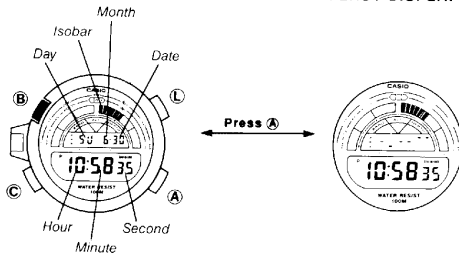
READING THE DISPLAY

REGULAR TIMEKEEPING MODE

TIME DISPLAY

Press Ⓐ

ATMOSPHERIC PRESSURE TENDENCY DISPLAY

[Module No. 923/943]

BAROMETER MODE

Press Ⓒ

A few seconds later

ALTIMETER MODE

Press Ⓒ

A few seconds later

Press Ⓒ for an outline of all functions.
Each function is explained on the following pages.

DEPTHMETER MODE

Press Ⓐ

MULTI-ALARM MODE

Press Ⓒ

COUNTDOWN ALARM MODE

Press Ⓒ

STOPWATCH MODE

Press Ⓒ

[Module No. 510/560]

USING REGULAR TIMEKEEPING

In the regular timekeeping mode, press Ⓐ to switch between the time display and the atmospheric pressure tendency display.
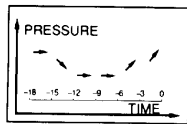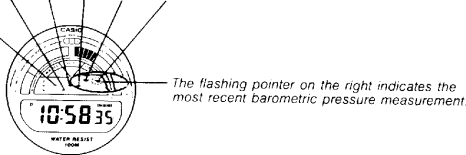
REGULAR TIMEKEEPING DISPLAY

Month
Isobar
Day
Date
Hour
Minute
Second

Press Ⓐ

ATMOSPHERIC PRESSURE TENDENCY DISPLAY

Reading the atmospheric pressure tendency display

(EXAMPLE) 3:00—6:00—9:00—'12:00—'3:00—'6:00—'9:00

Stable Drop Stable Stable Rise Rise

The flashing pointer on the right indicates the most recent barometric pressure measurement.

The six pointers in the display show an ongoing record of a stable, rise or fall in atmospheric pressure over the last 18 hours. The measurement is carried out at three hours interval, starting at 12 a.m. every day. However, if the watch is moved and altitude changes, incorrect measurement may result due to the pressure change.

Predicting weather tendency

The atmospheric pressure tendency display helps you to predict the weather using the trend in barometric pressure as a reference.
Predicting the weather can be fun. Your Casio watch is designed to make it even more fun and easier too.

Normally, rising atmospheric pressure (a rising barometer) brings clear dry, and sunny weather.
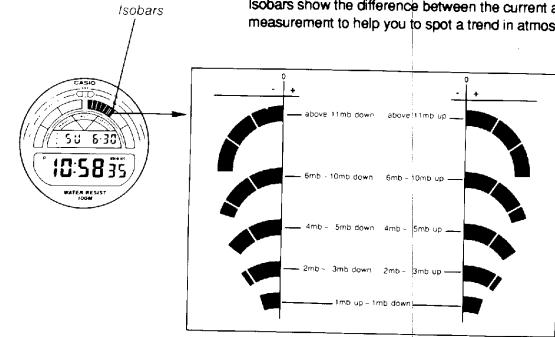
Falling atmospheric pressure (a falling barometer) brings rain or stormy weather.

[Module No. 923/943]

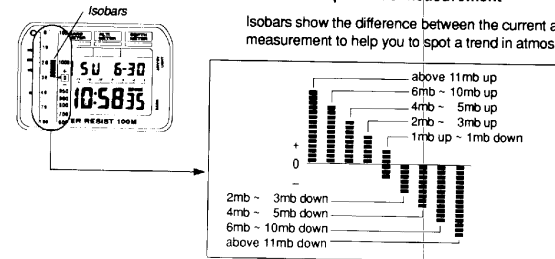### Reading the difference between the current/previous measurement

Isobars

Isobars show the difference between the current and previous measurement to help you to spot a trend in atmospheric pressure.

above 11mb down   above 11mb up
6mb - 10mb down   6mb - 10mb up
4mb - 5mb down   4mb - 5mb up
2mb - 3mb down   2mb - 3mb up
1mb up - 1mb down

[Module No. 510/560]

Reading the difference between the current/previous measurement

Isobars

Isobars show the difference between the current and previous measurement to help you to spot a trend in atmospheric pressure.
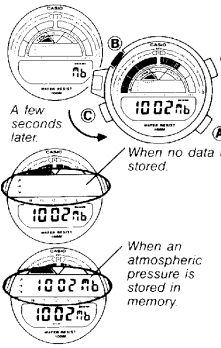
above 11mb up
6mb ~ 10mb up
4mb ~ 5mb up
2mb ~ 3mb up
1mb up ~ 1mb down

2mb ~ 3mb down
4mb ~ 5mb down
6mb ~ 10mb down
above 11mb down

USING BAROMETER

Press Ⓒ in the regular timekeeping mode to switch to the barometer mode. A few seconds later, atmospheric pressure is displayed. The first five minutes, atmospheric pressure is automatically measured every nine seconds; thereafter, it is measured every minute. Atmospheric pressure is displayed digitally in increments of one millibar over a range of 610 mb to 1,050 mb. Press Ⓐ for spot measurement.

A few seconds later.

When no data is stored.

When an atmospheric pressure is stored in memory.

* The display automatically returns to the regular timekeeping mode if left unused for an hour.
* If atmospheric pressure exceeds the measuring range of the watch, the display shows "FULL".

ATMOSPHERIC PRESSURE MEMO
The watch can store atmospheric pressure.

Storing atmospheric pressure in memory
Press Ⓛ to store the current atmospheric pressure in memory.
If an atmospheric pressure has been previously stored, the memory must be cleared before it can be used.

Clearing atmospheric pressure memory
Press Ⓛ for a few seconds. The stored atmospheric pressure value flashes briefly and is erased.
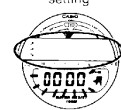
SETTING REFERENCE ATMOSPHERIC PRESSURE
The reference atmospheric pressure has been set to the correct value at the factory. No further adjustment is needed.
WARNING: Should the reference atmospheric pressure be incorrectly set, measurement will be inaccurate. The barometer must be adjusted with the aid of a precision barometer.
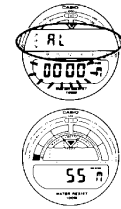Set the reference atmospheric pressure as follows:
1) Press Ⓒ for a few seconds while holding Ⓑ in the barometer mode. The display starts flashing.
2) Each press of Ⓐ (or Ⓛ) increments (decrements) the atmospheric pressure one millibar. Keep pressed to move quickly.
3) Press Ⓑ to complete setting.
The display automatically returns to the barometer mode if left unused for a few minutes.

USING ALTIMETER

A few seconds later

Keep pressed to clear the maximum altitude

Measures altitude on the spot

The maximum altitude memory

This unit has a relative altitude measuring function. It detects variations in atmospheric pressure via a built-in pressure sensor, then converts the variations* of pressure into altitude, using the reference model of the Standard International Atmosphere.
*The difference between the atmospheric pressure measurements at the reference altitude setting and point of actual measurement.
Press Ⓒ twice in the regular timekeeping mode to switch to the altimeter mode. A few seconds later, measured altitude is displayed. The first five minutes, altitude is automatically measured every nine seconds, thereafter it is measured every minute. The altitude is displayed digitally in increments of five meters over a range of –4,000 to +4,000 meters. Press Ⓐ for spot measurement.

Reference altitude setting

Altitude alarm setting

SETTING THE REFERENCE ALTITUDE
The reference altitude, which tells the watch from which point to start measuring, must be set before the watch can be used.
Set the reference altitude as follows:
1) Press Ⓑ in the altitude mode to start the display flashing.
2) Press Ⓒ and select the reference altitude setting from between the two possible mode settings: Reference altitude setting and Altitude alarm setting.
3) Each press of Ⓐ (or Ⓛ) increments (decrements) the flashing digit five meters.
To reset the reference altitude to zero, press Ⓐ and Ⓛ at the same time.
4) Press Ⓑ to complete setting.
The values which can be used in the reference altitude setting are from 0 to +4,000 meters.
* The display automatically returns to the altimeter mode if left unused for a few minutes.

IMPORTANT: This setting must be accurate because it is the reference value for all altitude calculations. Use a precision altitude indicating device such as an altimeter to set or reset the reference altitude.

Reference altitude setting

Altitude alarm setting

SETTING ALTITUDE ALARM
The altitude alarm sounds for five seconds at the preset altitude.
Set the alarm as follows:
1) Press Ⓑ to start the display flashing.
2) If necessary, press Ⓒ to move to the altitude alarm setting (from the reference altitude setting).
3) Each press of Ⓐ (or Ⓛ) increments (or decrements) the flashing digit by five meters. Keep pressed to move quickly.
4) Press Ⓑ to complete setting.
* To stop beeper, press any button.
* To deactivate the altitude alarm, press Ⓐ and Ⓛ at the same time. To reactivate, follow procedure for "setting altitude alarm."
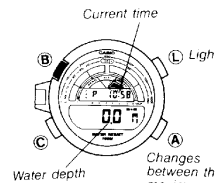
MAXIMUM ALTITUDE MEMORY
The maximum altitude that the altimeter has measured is stored automatically. To clear the memory to make room for storage of a new maximum altitude, press Ⓛ for a few seconds.
If the altitude exceeds the measuring range of the sensor, the display shows "FULL".
The maximum altitude memory stores only positive (+) measurements. If negative (–) measurements are repeatedly obtained, no maximum altitude memory data is displayed.

OPERATING DEPTH METER

Current time

Light

Water depth

Changes between the maximum water depth display and time display.

A tiny sensor built into the watch detects the variation* in water pressure and converts the variations into water depth, which is displayed. The sensor is designed for use in saltwater. In fresh water, the correct water depth is the displayed value multiplied by 1.025.
* Variation is the difference between the water pressure measured at sea level and that taken at the actual point (depth) of measurement.
· The display automatically returns to the regular timekeeping mode if left unused for a hour.
· When the measuring value exceeds the measuring range, the display shows "FULL".
Press Ⓒ three times in the regular timekeeping mode to switch to the depthmeter mode. The water depth is measured every three seconds and displayed in increments of 0.1 meter over a range of 0 to 30 meters. (Depth of less than 1 meter are rounded to 0.)

IMPORTANT:
· The watch resists water pressure of no more than 10 atm. It should not be used for marine sports such as scuba diving.
· Always reset the water depth to 0 after selecting the depthmeter mode. If necessary, press Ⓐ and Ⓛ at the same time to do this.
· The Ⓒ button does not function during measurement in the depthmeter mode. The display must be reset to 0 before another mode can be selected.

SETTING DEPTH ALARM
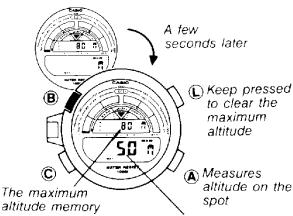The depth alarm sounds for five seconds at the preset depth. Set depth alarm as follows:
1) Press Ⓑ to start the display flashing.
2) Each press of Ⓐ (or Ⓛ) increments (or decrements) the depth one meter. Keep pressed to move quickly.
3) Press Ⓑ to complete setting.

MAXIMUM WATER DEPTH MEMORY
This function memorizes the maximum water depth reached. To display the maximum depth on the upper half of the display, press Ⓐ in the DEPTH-METER MODE.
The maximum depth memory is automatically cleared only when diving to more than one meter of depth and starts automatically measuring the new maximum depth reached.
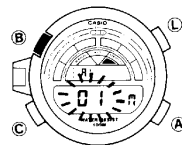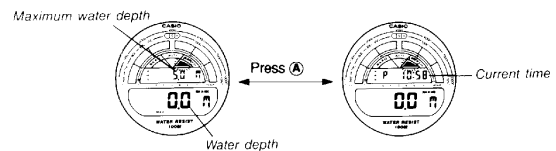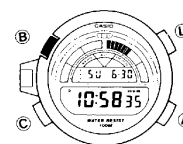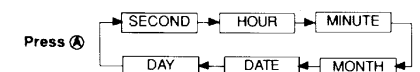
SWITCHING BETWEEN MAXIMUM WATER DEPTH AND TIME DISPLAY

Maximum water depth

Press Ⓐ

Current time

Water depth

SETTING TIME AND DATE

1) Press Ⓑ in the REGULAR TIMEKEEPING MODE to set correct time.
2) Press Ⓐ on a time tone to correct seconds.
3) Press Ⓒ to shift flashing digit(s).
Digit(s) to be changed will flash.

Press Ⓐ

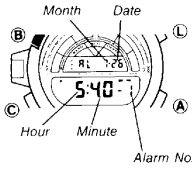| SECOND	→	HOUR	→	MINUTE
DAY		DATE		MONTH

Press Ⓛ to change over between 12-hour and 24-hour formats.
4) Each press of Ⓐ increases the digit by one.
Hold down for rapid movement.
5) Press Ⓑ to complete setting.

Display automatically returns to the time display if left unused for a few minutes.
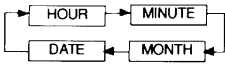
USING MULTI-FUNCTION ALARM

Three alarms can be used independently in 4 different ways:
Daily alarm, Monthly alarm, Daily alarm for 1-month period, or
Date alarm. The beeper sounds for 20 seconds at the preset
time when the alarm is activated. Press any button to stop the
beeper. The beeper sounds every hour on the hour if the time
signal is set.

Sound demonstration

Press and hold Ⓐ in alarm mode to activate the beeper.

Set the alarm time as follows:

1) Press Ⓐ in alarm mode to select alarm No.1, 2, or 3.
2) Press Ⓑ to set new alarm time and date. Press Ⓐ to
   increment digit.
   Hold down for rapid movement.
3) Each press of Ⓒ shifts flashing position. Set hour, minute,
   month and date.
4) Press Ⓑ to complete setting.
   * Display automatically returns to initial alarm mode if left
     unused for a few minutes.

```
┌─────────┐   ┌──────────┐
│  HOUR   │──▶│  MINUTE  │
└─────────┘   └──────────┘
     ▲              │
┌─────────┐   ┌──────────┐
│  DATE   │◀──│  MONTH   │
└─────────┘   └──────────┘
```

Setting alarm/time signal on/off

Press Ⓐ in alarm mode to select alarm No.1, 2, 3 or time
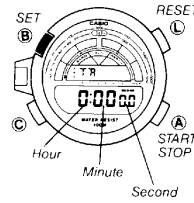signal.
Press Ⓛ for each alarm setting to set alarm on (▪▪ ▪▪) or off (no
mark). Press Ⓛ in time signal setting to set time signal on (▪)
or off (no mark).
* Alarm time is displayed in the 24-hour system when
  timekeeping is in the 24-hour system.

4 TYPES OF ALARMS

Daily alarm	RL ----	Month and date not set	Beeper sounds at preset time every day
Monthly alarm	RL --10	Only date set	Beeper sounds on preset date at preset time once every month.
1 month alarm	RL 12--	Only month set	Beeper sounds at preset time every day during set month.
Date alarm	RL 12-10	Month and date set	Beeper sounds at preset time, on preset month and date.

USING COUNTDOWN ALARM

Countdown can be set from 1 minute to 24 hours (display
shows 0:00 00). Press Ⓐ to start or stop. A signal confirms the
operation. To cancel countdown, press Ⓛ when the
countdown is stopped. When display reaches zero, beeper is
activated for 10 seconds or until any button is pressed.
Setting the countdown alarm:

1) Press Ⓑ in countdown alarm mode to set new time.
2) Each press of Ⓒ shifts flashing digits. Set hour and minute.
3) Each press of Ⓐ increments digits. Hold down for rapid
   movement.
4) Each press of Ⓛ selects auto-repeat ("AUTO" is lit) or
   repeat function.
5) Press Ⓑ to complete setting.
* Display automatically returns to initial countdown alarm
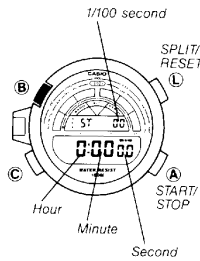 mode if left unused for a few minutes.

REPEAT FUNCTION

Pre-entered time is retrieved when the display reaches zero.

AUTO REPEAT FUNCTION

*Pre-entered time is retrieved and started again when the
display reaches zero.
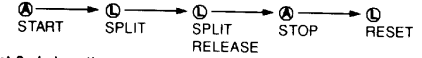
USING STOPWATCH

A signal confirms start/stop and split/reset operations. Display
of total elapsed time is limited to 23 hours 59 minutes 59.99
seconds. For longer times, reset and started again
automatically.

a) Net time measurement

Ⓐ ──▶ Ⓐ (Time loss)   Ⓐ ──▶ Ⓐ ──▶ Ⓛ
START   STOP   RESTART STOP   RESET

b) Split time measurement

Ⓐ ──▶ Ⓛ ──▶ Ⓛ ──▶ Ⓐ ──▶ Ⓛ
START   SPLIT   SPLIT   STOP   RESET
                RELEASE

c) 1st-2nd place time measurement

Ⓐ ──▶ Ⓛ ──▶ Ⓐ ──▶ Ⓛ ──▶ Ⓛ
START   SPLIT   STOP   SPLIT   RESET
        The first The second RELEASE
        runner   runner   Record the time
        finishes. finishes.   of the second
                   Record the runner.
                   time of the
                   first runner.