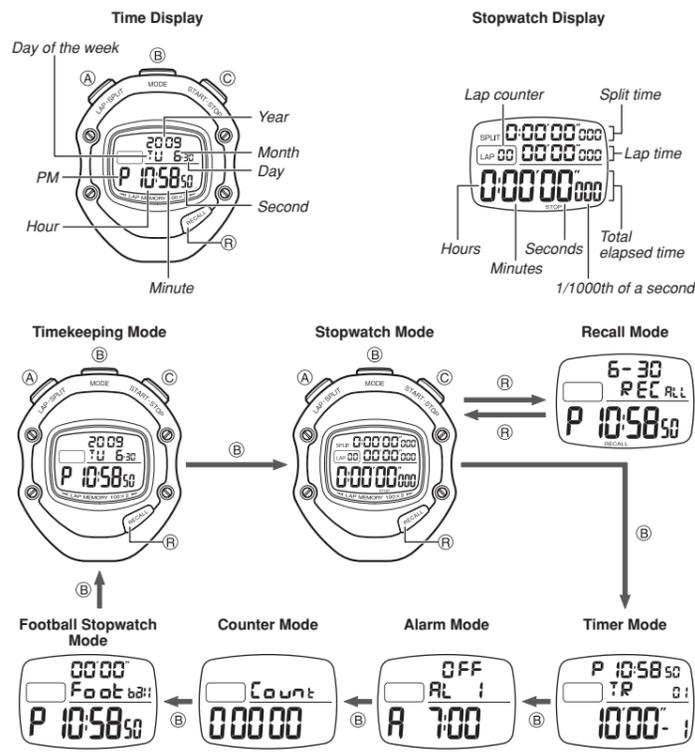


CASIO® HS-80TW

ENGLISH



- A sticker is affixed to the glass of this stopwatch when you purchase it. Be sure to remove the sticker before using the stopwatch.
- Depending on its model, the configuration of your stopwatch may differ somewhat from that shown in the illustration.

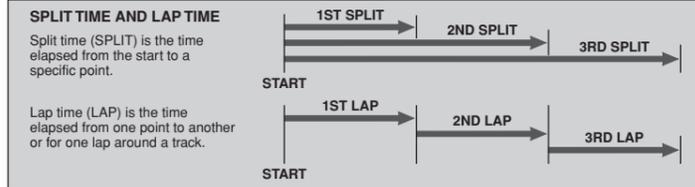
OPERATING PRECAUTIONS

- A battery is installed at the factory. Have it replaced by a CASIO distributor at the first sign of low power (dim display).
- Do not use or store this stopwatch in areas exposed to temperature extremes, strong magnetism, strong vibration, or strong impact.
- Heat can shorten battery life and cause malfunction. Keep the stopwatch away from heaters and direct sunlight when using it.
- Never try to take the stopwatch apart. Doing so can cause malfunction.
- To clean the stopwatch, use a soft, dry cloth or a cloth moistened in a solution of water and a mild neutral detergent. Wring out all excess moisture from the cloth. Never use thinner, benzene, alcohol or other similar agents.
- Be sure to keep all user documentation handy for future reference.

CASIO COMPUTER CO., LTD. assumes no responsibility for any loss, or any claims by third parties that may arise through the use of this stopwatch.

GENERAL GUIDE

- ⓐ button Starts and stops timing.
- ⓑ button Cycles between: Stopwatch, Timer, Alarm, Counter, Football Stopwatch, and Timekeeping Modes.
- Ⓐ button Performs lap/split and reset operation (stopwatch beeps).
- Ⓡ button Recalls lap/split time records and total elapsed time.



USING THE STOPWATCH

The stopwatch beeps to signal ⓐ and Ⓐ button operations.

Working range

- The total elapsed time and split time display is limited to 9 hours 59 minutes 59.999 seconds. Lap time display is limited to 59 minutes 59.999 seconds.
- Thereafter it will be reset and started again. The lap counter starts from 1 to 99 and repeats from 0.
- While the stopwatch is reset to all zeros, holding down the Ⓐ button will toggle the lower display area between display of lap time and split time.
- 100 (indicating the number of laps) will flash on the display when memory is full (100 lap times in the current group).

NORMAL TIME

	START	STOP	RESET
CHART	0	a	(a)
BUTTON OPERATION	ⓐ	ⓐ	Ⓐ
DISPLAY	00:00:00	00:13:00	00:13:00

NET TIME

	START	STOP	START	STOP	RESET
CHART	0	a	(a)	b	(a+b)
BUTTON OPERATION	ⓐ	ⓐ	ⓐ	ⓐ	Ⓐ
DISPLAY	00:00:00	00:13:00	00:13:00	00:24:00	00:24:00

After stopping a net time operation by pressing ⓐ, you can resume it by pressing ⓐ again.

LAP/SPLIT TIMES

	START	1ST LAP	2ND LAP	3RD LAP	STOP	RESET		
CHART	0	a	(a)	b	(a+b)	c	(a+b+c)	(t)
BUTTON OPERATION	ⓐ	Ⓐ	Ⓐ	Ⓐ	ⓐ	Ⓐ		
DISPLAY	00:00:00	00:12:00	00:25:00	00:41:00	00:55:00	00:55:00		

MULTIPLE FINISHING TIMES

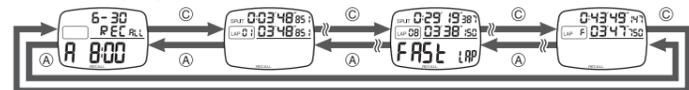
Example : To record the times of 100 different runners.

	START	1ST RUNNER FINISHES	2ND RUNNER FINISHES	99TH RUNNER FINISHES	100TH RUNNER FINISHES	RESET
CHART	0	a	b	(a+b)	(a+b+c)	(t)
BUTTON OPERATION	ⓐ	Ⓐ	Ⓐ	Ⓐ	ⓐ	Ⓐ
DISPLAY	00:00:00	00:02:10	00:02:11	00:03:48	00:03:49	00:03:49

USING THE RECALL MODE

- You can use the recall mode to view data in stopwatch memory.
- There is enough memory to store a total of up to 200 records, divided between two record groups of 100 each. If you record 100 times, the 100th time will not be stored in memory until you reset the stopwatch to all zeros.
- Starting a new stopwatch elapsed time operation will cause the older of the two record groups to be deleted automatically in order to make room for a new group of records.
- There is also a FAST LAP record that displays the fastest lap from among all of the lap times currently in memory.
- Record 1 (the newest record) will always be displayed first whenever you press the Ⓡ button to switch from the Stopwatch Mode to the Recall Mode.
- In the Recall Mode, each press of the Ⓡ button will toggle the display between record group 1 and record group 2.
- Lap time records in memory can be recalled while an elapsed time operation is in progress or stopped.
- Memory records are cleared whenever a new Stopwatch Mode elapsed time operation is started by pressing the ⓐ button after pressing the Ⓐ button to reset the stopwatch to all zeros.

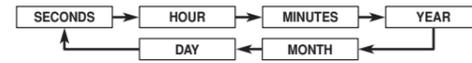
Holding down the ⓐ or Ⓐ button scrolls at high speed.



SETTING THE CURRENT TIME AND DATE



1. In the Timekeeping Mode, hold down Ⓡ for about two seconds.
2. Press ⓐ on a time signal to correct the seconds.
3. Flashing setting can be changed. Press Ⓡ to move the flashing.



4. Use ⓐ (+) and Ⓐ (-) to change the flashing setting.
 - Holding down the ⓐ or Ⓐ button scrolls at high speed.
5. Press Ⓡ to exit the setting mode.
 - * Year digits can be set up to the year 2099.

12/24-hour Timekeeping

In the Timekeeping Mode, press ⓐ to toggle between 12-hour and 24-hour timekeeping.

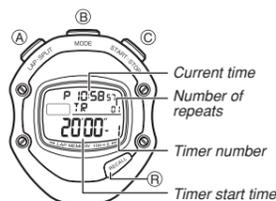
Beeper On/Off

In the Timekeeping Mode, hold down the Ⓐ button for about two seconds to toggle the beeper on or off.

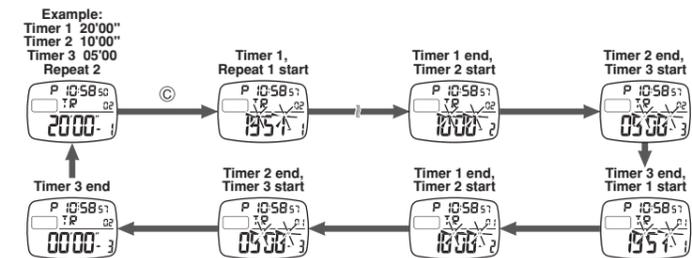
Auto Return

The stopwatch returns to the Timekeeping Mode if left unused for a few minutes.

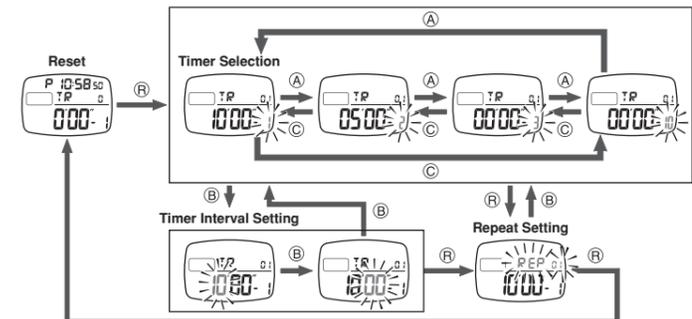
USING THE TIMER



- You can set start times for up to 10 intervals, which are counted down in sequence one after the other. You can configure the timer interval sequence to repeat up to 100 times.
- When the timer sequence reaches the end of the final interval, it restarts from the beginning of the first interval.



To set an interval start time



1. In the Timer Mode, hold down the Ⓡ button for about 2 seconds until the displayed interval time starts to flash.
2. Use the ⓐ and Ⓐ buttons to scroll through the 10 interval times until the one you want to change is displayed.
 - Interval timers count down in sequence from Timer 1 to Timer 10. Any timer with a starting time of 00:00" is skipped.
 - You can specify a start time within the range of 0 to 59 minutes 59 seconds.
 - You can repeat steps 2 and 3 to set other interval timer start times, if you want.
3. Use the Ⓡ button to move the flashing between the minute and second digits.
 - You can specify a start time within the range of 0 to 59 minutes 59 seconds.
 - You can repeat steps 2 and 3 to set other interval timer start times, if you want.
4. Press the Ⓡ button to move the flashing to the number of repeats settings, and then use the ⓐ (+) and Ⓐ (-) buttons to change the setting to a value from 1 to 100.
5. After the number of repeats setting is the way you want, press the Ⓡ button to exit the setting screen.
 - Holding down ⓐ or Ⓐ in steps 2, 3, or 4 of the above procedure will change the setting at high speed.

USING THE ALARMS



- You can set up to 12 alarm times. The stopwatch beeps for 10 seconds when an alarm time is reached.
- Press any button to stop the beeper after it starts to sound.

To turn a specific alarm on or off

1. In the Alarm Mode, use the ⓐ button to display the alarm (AL 1 to AL 12) you want.
2. Press the Ⓐ button to toggle the alarm on or off.

To turn all alarms off

In the Alarm Mode, hold down the Ⓐ button until "ALL OFF" appears on the display. This turns off all 12 alarms.

To test the alarm

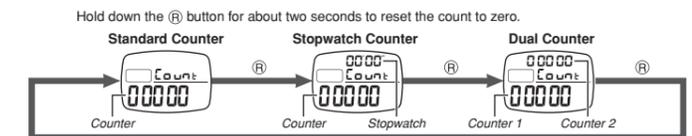
Hold down the ⓐ button to sound the alarm.

To set the alarm time

1. In the Alarm Mode, use the ⓐ button to scroll through the alarm screen (1 through 12), until the one you want to set is displayed.
2. Hold down the Ⓡ button for about 2 seconds until the hour digits of the alarm time start to flash.
3. Use the Ⓡ button to move the flashing between the hour and minute digits. Use the ⓐ (+) and Ⓐ (-) buttons to change the currently flashing digits.
4. After the setting is the way you want, press the Ⓡ button to exit the setting screen.
 - The alarm will not sound if the time on a flashing setting screen arrives.
 - The stopwatch will exit the setting screen automatically if you do not perform any operation for two or three minutes.
 - Displaying the setting screen for an alarm will cause that alarm to turn on.

USING THE COUNTER

- The stopwatch is equipped with three types of counters, which can be used to maintain a count from 0 to 99,999.
- Each press of the Ⓡ button cycles through the three counter types described below. Note that you can switch between counter types only when the current counter is reset to zero.



Standard Counter

- ⓐ button counter (+)
- Ⓐ button counter (-)
- Ⓡ button hold counter reset

Stopwatch Counter

- Stopwatch: 00:00" to 59:59"
- ⓐ button counter (+)
- Ⓐ button stopwatch start/stop
- Ⓡ button hold counter reset, stopwatch reset

Dual Counter

- ⓐ button counter 1 (+)
- Ⓐ button counter 2 (+)
- Ⓡ button hold counter 1 reset, counter 2 reset

FOOTBALL STOPWATCH

This stopwatch can be used to time a football match, and even allows for stoppage time.

To set the match time

1. In the Football Stopwatch Mode, hold down the Ⓡ button for about two seconds until the minute digits of the match time start to flash. This is the setting screen.
2. Use the ⓐ (+) button and Ⓐ (-) button to change the match time setting in one-minute increments.
 - You can set a match time of 1 to 99 minutes. There is also a "--" setting which means that the match time is unlimited.
 - Holding down the ⓐ or Ⓐ button scrolls at high speed.
3. After the time setting is the way you want, press the Ⓡ button to exit the setting screen.

To time a match

- Press the ⓐ button to start timing of the match in the upper and lower display areas ("Football" flashes on the display).
- Press the ⓐ button again to stop match timing in the upper display area ("Football" stops flashing). The match timing in the lower display area continues at this time. Pressing ⓐ again will resume timing in the upper display area.
- The stopwatch will beep for 10 seconds when the preset match time is reached in the lower display area. The lower display area will start measuring elapsed time from zero and the upper display area will continue measuring time. The end of stoppage time is reached when the upper display area indicates the preset match time.
- To stop match timing, make sure that match timing is stopped ("Football" not flashing), and then hold down the Ⓐ button until the watch beeps and the current time appears in the lower display area.

	START	STOP	START	STOP	RESET
CHART	0	a	(a)	(a+b)	(a+b)
BUTTON OPERATION	ⓐ	ⓐ	ⓐ	ⓐ	Ⓐ
DISPLAY	00:00	15:00	17:50	45:00	00:00

CARE OF YOUR STOPWATCH

- This stopwatch is water resistant up to five bars (atmospheres), which means you can use it in the rain or in areas where splashing water is present. Never, however, operate the buttons of the stopwatch while it is immersed in water.
- You should have the rubber seal that keeps out water and dust replaced every 2 to 3 years.
- Should moisture appear inside the stopwatch, have it checked immediately by your dealer or a CASIO distributor.

SPECIFICATIONS

Accuracy at a normal temperature (TIME): ±30 seconds per month
(STOPWATCH): 99.9988%

Display capacity:

- Time Display: Hour, minutes, seconds, am/pm, year, month, day and day of the week
- Calendar system: Pre-programmed until the year 2099

Stopwatch Display:

- Measuring capacity: (Total elapsed time display) 9 hours 59 minutes 59.999 seconds
(Lap time display) 59 minutes 59.999 seconds
(Split time display) 9 hours 59 minutes 59.999 seconds

Measuring unit: 1/1000 second

Measuring modes: Net time, lap time, split time, 1st-100th place time, lap counter (up to 99)

Memory capacity: 2 sets of 100 records each

Timer

10 intervals

Measuring capacity: 59 minutes 59 seconds

Measuring unit: 1 second

Number of repeats: 100

Beeper duration: 10 seconds

Alarm

Number of alarms: 12

Beeper duration: 10 seconds

Setting unit: 1 minute

Counter

Standard Counter: 0 to 99999

Stopwatch Counter: 0 to 99999

Measuring capacity: 59 minutes 59 seconds

Dual Counter: 0 to 99999

Football Stopwatch

Measuring capacity: 59 minutes 59 seconds

Measuring unit: 1 second

Beeper duration: 10 seconds

Battery: One lithium battery (type: CR2032)

Approx. 5 years continuous operation on type CR2032

(includes an average of 30 presses of button per day.)

Operating Temperature: 0°C to 40°C (32°F to 104°F)