

GENERAL

Thanks for you purchasing this professional stopwatch. There are 3 models of different memory in the series. Please refer to following list for your model.

MODEL	MEMORY
JS-510	8
JS-518	30
JS-519	60

FEATURES

This is a digital stopwatch that features a stopwatch and alarm functions. For everyday use, time/calendar function, thermometer/timer functions are also provided.

STOPWATCH

- It measures up to 10 hours in 1/100 second increments.
- Two separate stopwatch displays are available for lap time and split time measurement, and they can be selected whenever necessary.
- The first 8/30/60 sets of lap times and split times are automatically stored in memory, and they can be recalled either during or after the measurement.

ALARM

- The alarm can be set to ring at a designated time on a 24-hour basis.
- The alarm can be engaged and disengaged alternately with a press of a button.

TIME/CALENDAR DISPLAY

- Month, date, day, hour, minutes and seconds are displayed.
- The calendar automatically adjusts for odd and even months including February leap years from 2000 ~ 2049.

THERMOMETER

- Display of Celsius temperature and Fahrenheit temperature

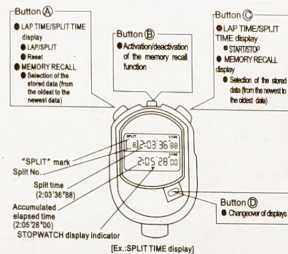
TIMER

- Pre-settable countdown timer, maximum 10 hours.

"Lap time" is the time that has elapsed from the start of one stage of an activity to that of the next stage.
"Split time" is the time that has elapsed from the start of an activity to any given stage.

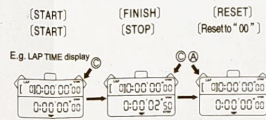


STOPWATCH Button operation



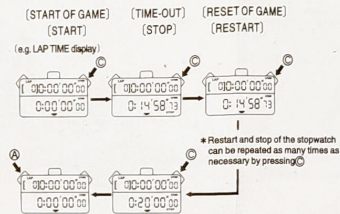
Standard measurement

- Press **D** to show the LAP TIME or SPLIT TIME display. E.g. 100m race. Press the buttons in the following order: **C** → **C** → **A** (A confirmation beep sounds.)



Accumulated elapsed time measurement

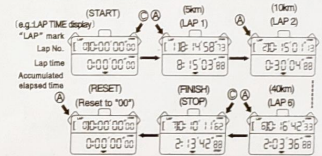
- Press **D** to show the LAP TIME or SPLIT TIME display. E.g. Basketball game. Press the buttons in the following order: **C** → **C** → **C** → **C** → **A** (A confirmation beep sounds.)



Lap time/split time measurement

- Press **D** to show the LAP TIME or SPLIT TIME. The button operation of the lap time/split time measurement is explained here with the lap time measurement taken as an example. To measure split times, press the buttons in the same manner.
- "LAP" mark is shown in the LAP TIME display, and "SPLIT" mark is shown in the SPLIT TIME display.
- Up to 99 sets of lap and split times can be displayed, and the first 8 sets of lap times and split times measured are automatically stored in memory.

e.g. Marathon race. Press the buttons in the following order: **C** → **A** → **A** → **A** → **C** → **A** (A confirmation beep sounds.)



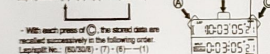
How to use the memory recall function

The first 8/30/60 sets of lap and split times measured are automatically stored in memory. To recall the stored measurements, follow the procedures below.

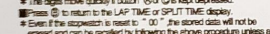
- Memory recall after measurement.
- Press **B** in the LAP TIME or SPLIT TIME display to activate the memory recall function. The oldest data in memory (lap/split No. 1) will be displayed.

Ex: When more than 8/30/60 sets of lap and split times have been measured.

- With each press of **A**, the stored data are recalled successively in the following order. Lap/split No.: (1) → (2) → (3) → (8/30/60).

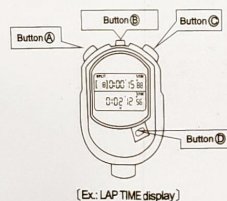


- With each press of **C**, the stored data are recalled successively in the following order. Lap/split No.: (60/30/8) → (7) → (8) → (1).

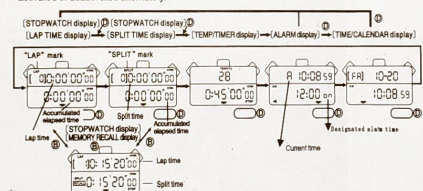


- The digits move quickly if button **A** or **C** is kept depressed.
- Press **B** to return to the LAP TIME or SPLIT TIME display.
- Even if the stopwatch is reset to "00", the stored data will not be erased and can be recalled by following the above procedure unless a new measurement is started. In this case, the "STOP" mark is not shown on the display.
- If **D** is pressed while the memory recall function is being activated, the ALARM display will be shown.

BUTTONS AND CHANGEOVER OF DISPLAYS

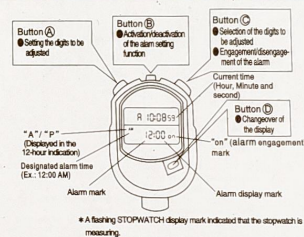


- With each press of **D**, the display changes in the following order. With each press of **B** in the STOPWATCH display, the memory recall function is activated or deactivated alternately.



- Even if the STOPWATCH display is changed over to another while the measurement is in progress. The stopwatch continues counting properly.

ALARM Button operation



- A flashing STOPWATCH display mark indicated that the stopwatch is measuring.

Daily alarm: It can be set to ring at a designated time on a 24-hour basis.

How to set the alarm

- Press **D** to show the alarm display.

- Press button **B** for 1 to 2 seconds to show the alarm setting display. The "on"/"off" mark disappears and the minute digits start flashing.
- Press button **C** to select the digits to be adjusted (flashing).
- Press button **A** to set the digits. One digit is advanced with each press of the button.
- Press button **B** or **D** to return to the alarm display. The alarm mark and "on" mark are automatically displayed. If the stopwatch is left untouched in the alarm setting display with the digits flashing, it will automatically return to the alarm display in 1 minute.



- The digits move quickly by keeping button **A** pressed.



- When setting the hour digits in the 12-hour indication, check that AM/PM is properly set.
- When the time function is displayed in the 24-hour indication, the alarm is also displayed in the 24-hour indication.

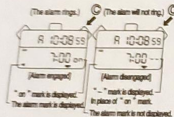


- Alarm mark
- "on" (alarm engagement) mark

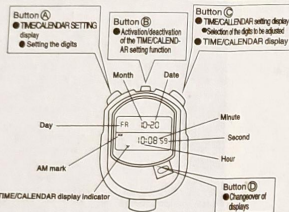
How to use the alarm

Engagement/disengagement of the alarm

* With each press of button "C" in the alarm display, the alarm is engaged and disengaged alternately.



TIME/CALENDAR Button operation



* Flashing STOWATCH display indicator indicated that the measurement is in progress in the function.

Time/calendar setting

Press (A) to show the TIME/CALENDAR display.

(Activation of the TIME/CALENDAR setting function)



Keep (B) pressed for 1 to 2 seconds to show the TIME/CALENDAR SETTING display. The SECONDS digits start flashing and the DAY disappears.



Press (A) in accordance with a time signal. The SECONDS are reset to "00".



Press (C). The MINUTES digits start flashing. With each press of (A), one minute is advanced.



Press (C). The HOUR digits start flashing. With each press of (A), one hour is advanced.



Press (C). The MONTH digits start flashing. With each press of (A), one month is advanced.

Press (C). The DATE digits start flashing. With each press of (A), one day is advanced.

Press (C). The YEAR digits start flashing. With each press of (A), one year is advanced.

Press (C). The 12 H or 24 H starts flashing. With each press of (A), the changeover between 12 and 24-hour indications is made alternately.

Press (B) or (C) to return to the "TIME / CALENDAR" display.

* If the stopwatch is left untouched in the TIME/CALENDAR SETTING display with the digits flashing, it will automatically return to the TIME/CALENDAR in 1 minutes

* When the SECONDS read any number from "30" to "59" and (A) is pressed, one minute is added and the SECONDS is reset to "00".

* When setting the MINUTE, HOUR, DATE, MONTH and YEAR the digits move quickly while (A) is kept pressed.

* The calendar adjusts automatically for odd and even months including February of leap years from 2000 to 2049.

THERMOMETER/TIMER



Press (A) to show the thermometer/timer display. The upper row shows TEMP. The bottom row shows TIMER.

Press (B), the display of Celsius temperature hangs to Fahrenheit temperature, the range of measurement is -20°C ~ +80°C (-4°F ~ +140°F). When temperature is lower than floor level, the display will be LO, when temperature is higher than upper limit, display will be HI.

Keep (B) pressed for 2 seconds to show the TIMER setting display, the SECONDS digit start flashing.

Press (A) to Set time, press (C) to select the digit to be adjusted. Press (B) or (C) to return to TIMER.

Press (C) to START countdown, press (C) again to STOP, and STOP character will be indicated. When stop countdown (STOP character indicates), press (A) to reset to original status. When countdown approaches to zero, alarm will sound for 15 seconds, at the same time it will start counting.

Remark: TIMER is set 45 minutes as the original value.

CARE OF YOUR WATCH

To stop the alarm

* The alarm rings at the designated time for 30 seconds and stop. To stop it manually. Press button "A", "B", "C", "D".



WATER RESISTANT



Designed and manufactured to withstand accidental contact with water such as rain.

ANTI-MAGNETIC



Magnetism will not affect the stopwatch.

ANTI-SHOCK



Your stopwatch can be worn while participating in most sports.

* But be careful not to drop or hit the stopwatch against hard objects or otherwise subject the stopwatch to violent shocks.

TEMPERATURE

Your stopwatch is designed to work with stable accuracy between normal temperature range from 5°C to 35°C.



Do not leave your stopwatch in direct sunlight or very high temperature for a long time.

* The display may become black, but this condition will be corrected when the stopwatch returns to normal temperature.

In all cases, the above conditions will be corrected when the stopwatch returns to normal temperature.

* Be careful not to leave your stopwatch in the temperature below -10°C or over +60°C for a long time as this may cause the battery electrolyte leakage or shorten the battery life.

CHEMICALS



When plastic materials are used for the stopwatch cause: Be careful not to expose the watch to solvents (such as alcohol and gasoline), cosmetic spray, detergent, adhesives or paints, as case, bracelet, ect. will discover, deteriorate or deform through the chemical action.

STATIC ELECTRICITY



The IC (Integrated Circuit) used in your stopwatch will be affected by static electricity, which may disturb the display. Keep your stopwatch with such objects as TV screens which emit strong static electricity.

BATTERY CHANGE

When the display becomes dim or faded out, battery replacement is necessary.

1. Unscrew and remove back cover.
2. Unscrew the battery contact.
3. Replace with new lithium battery CR2032 or equivalent.
4. Before putting in the new battery make sure that the triangular contact is in the triangular slot under the battery.
5. Use a small metal tool (such as a tweezer or screw driver) to momentarily short circuit the AC pad at the lower side of the battery.
6. Rescrew the back cover.

