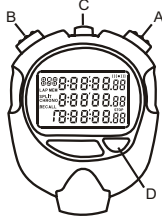Thanks for purchasing this professional stopwatch.
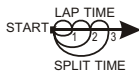
■ GENERAL

MODEL	MEMORY
46-137	50

■ FEATURES:

START → LAP TIME
SPLIT TIME

CHRONOGRAPH
- Display of lap, split and running chronograph

-1-

- Measure up to 9 hours 59 minutes and 59.99 seconds
- 50/60/80/100 recallable lap and split memories.
- Display of best (BES), slowest (SLO) and average (AVE) lap time for the laps traversed.
- Lap counter (0-99-999)
- Memory recall after reset and during operation

TIMER
- Dual timers which start one after another for use in training programs.
- Be used as ordinary countdown timer if 2nd timer is not set

PACER
- Presettable from 10 beeps/minute to 320 beeps/minute
- Display of pacer frequency, beep counter elapsed simultaneously

CLOCK
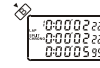- Display of hour, minute, second, month, date, day, year and alarm, auto calendar
- 12/24 hour and month/date or date/month display user option

■ CHRONOGRAPH OPERATION

Depress D to select the operating mode. The chronograph indicator is shown. Depress A to start.

-2-

Depress B to read the 1st lap time. LAP shown at the upper row, SPLIT is shown at the middle row and the RUNNING CHRONO is shown at the bottom row.

Depress B to display the 2nd lap time, and the lap counter is shown in the top left corner.

Depress B to display the 3rd lap time.

Depress A to stop counting.

-3-

Depress C will display the average (AVE) lap time of the laps traversed. (Memory can be recalled anytime when the chronograph is either running or stopped)

Depress C will display the fastest or best (BES) lap time of the laps traversed.

Depress C again will display the slowest (SLO) lap time of the laps traversed. Depression of C will display the average (AVE), best (BES) and slowest (SLO) lap time alternately.

Depress B to recall 1st lap data during the RECALL mode.

-4-

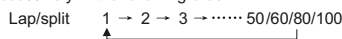Depress B again to recall the 2nd lap data

Depress B again to recall the 3rd lap data

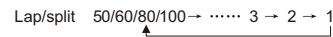Depress B again to recall the last stopped time

NOTE
1. With each press of B the stored data are recalled successively in the following order:
   Lap/split   1 → 2 → 3 → ⋯⋯ 50/60/80/100

-5-

2. With each press of A the stored data are recalled successively in the following order:
   Lap/split   50/60/80/100 → ⋯⋯ 3 → 2 → 1

3. If either lap or split is more than 9 hours 59 min 59.99 sec, the power of the computer will be exceeded and the AVE, the BES and the SLO information will be disabled and display as shown.

Another depression of D button will return the chrono to the stopped status. Depress A to restart counting or B to reset to "0"

NOTE:
Even if the stopwatch is reset to "0", the stored data

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will not be erased and can be recalled by following the above procedure unless a new measurement. In that case the STOP mark is not shown on the display.

■ TIMER OPERATION

Depress D button until the stopwatch goes to the TR mode. The top row is the display for the 1st timer and the middle row is the display for the 2nd timer.

Press and hold B button for 2 seconds to go into the SET TR mode with the hour digit of the 1st timer blinking. Press A button to set to desired hour for countdown. Press B to go to the first digit in minutes and press A to set minutes. Similarly by using B and A buttons, the desired countdown time for the 1st and 2nd timer can be set.

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Press A to start countdown with the "1" at the top right corner blinking and the timer setting counting down. When the 1st timer approaches zero, the timer gives 4 beeps and the 2nd timer starts counting down immediately. When the 2nd timer approaches zero, it gives 2 beeps and the 4 digit counter at the lowest row advances by 1 automatically. At anytime during countdown, pressing A will stop counting.

If only the 1st timer is set, the timer is used as an ordinary countdown time and will give automatically when the timer reaches zero.

■ PACER OPERATION

Depress D to select the PACER mode. The display will be as shown with the last 2 digits at the lower row blinking. At this status depress B will sequence the PACER frequency as follows: 10,20,30, 40,60,80,120,160,200,220,240,320

-8-

Depress A to start PACER. A beeping sound of 320 beeps/minute will sound. The beep counter is at the center and the PACER frequency is at the lower row. The beep counter has a range of 9999. Depress A to stop PACER.

NOTE: Pacer will be reset if stopwatch is switched to another mode.

■ CLOCK AND ALARM TIME ADJUST

Depress D to select CLOCK mode. The alarm, hour, alarm minutes, month, date, day, year, hour, minute and seconds are displayed as shown. Keep B pressed for 2 seconds to show the clock setting display. The alarm time HOUR digits start flashing. Time setting can be done by means of depressing B to select digits and A to advance digits.

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NOTE: Alarm is automatically armed if alarm hour or minute has been set. Alarm can also be armed or disarmed by depressing C at normal time mode. When alarm is armed " ((•)) " will be on the display and when not , "((•))" will be not on the display. When it reaches alarm time it will sound for 60 seconds.

■ CARE OF YOUR STOPWATCH

▲ WATER RESISTANCE
The stopwatch is designed to withstand accidental contact with water such as splashes or rain, but it is not designed for use in water. Do not operate the buttons when the stopwatch is wet.

▲ TEMPERATURE
Do not leave your stopwatch under direct sunlight or in very high temperature for a long time, the display may become black. Do not leave your stopwatch in very low temperature as this may cause a slight time loss or gain and the change of digits becomes slow. In both cases the above conditions will be corrected when the stopwatch return to normal temperature.

▲ SHOCKS
Be careful not to drop your stopwatch or hit it against hard surface, as it may cause a mechanical damage.

▲ STATIC ELECTRICITY
The integrated circuit in your stopwatch can be affected by static electricity. If the static electricity is very strong, a permanent damage can occur. Be careful of the screen of the TV set and the wearing of clothing made of synthetic material in dry weather; in such cases a very strong static electricity can be generated.

▲ MAGNETISM
Not affected.

▲ CHEMICALS
Do not expose your stopwatch to solvents such as gasoline and alcohol, the spray of cosmetics, cleaners, paints etc as they may cause damage to the stopwatch

▲ BATTERY REPLACEMENT
When the display becomes dim or faded out, battery replacement is necessary.
1. Unscrew and remove back cover.
2. Unscrew the battery contact and take off the old battery.
3. Replace with fresh 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, and screw the battery contact.
5. Press button A, B, C, and D at the same time to reset.
6. Screw the back cover.