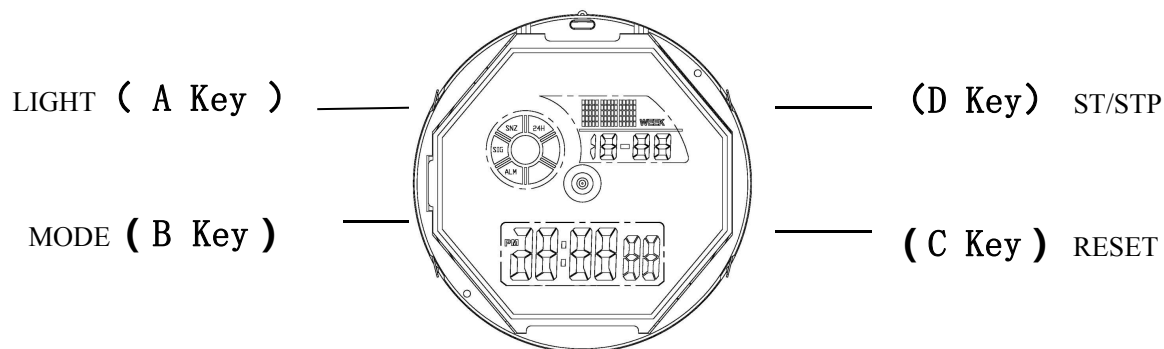


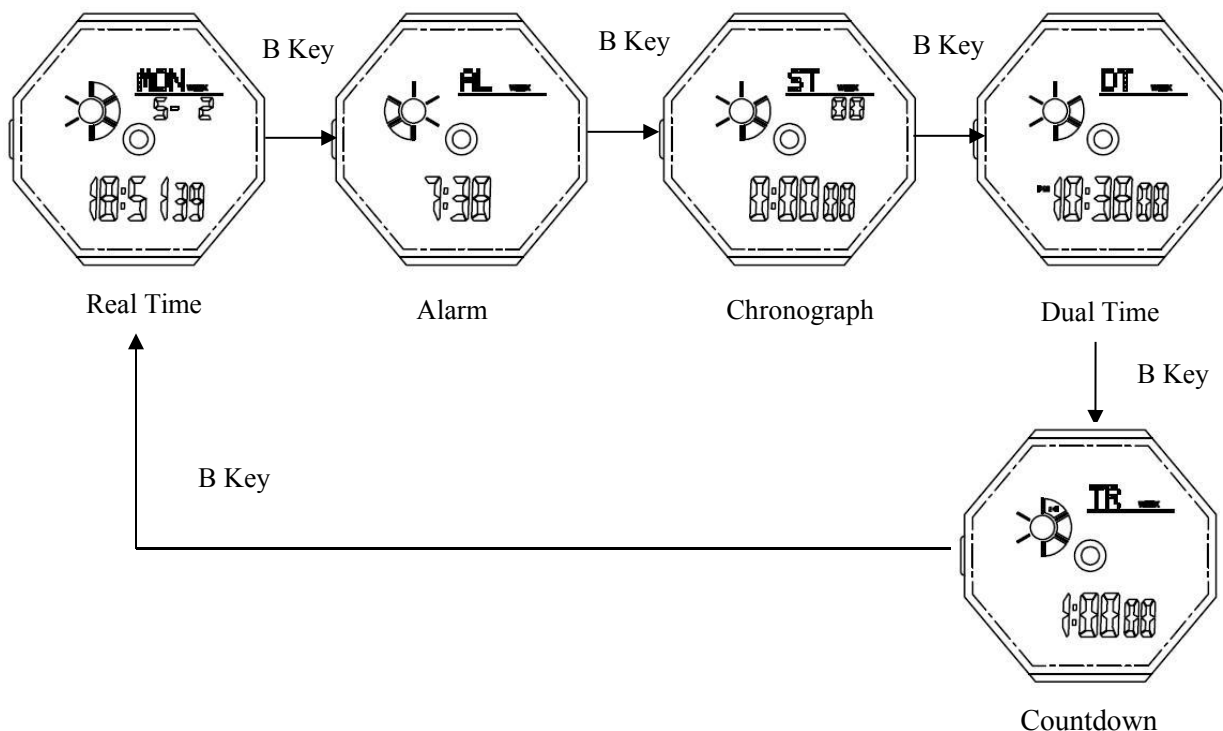
CRH123 MOVEMENT INSTRUCTION



A . Features

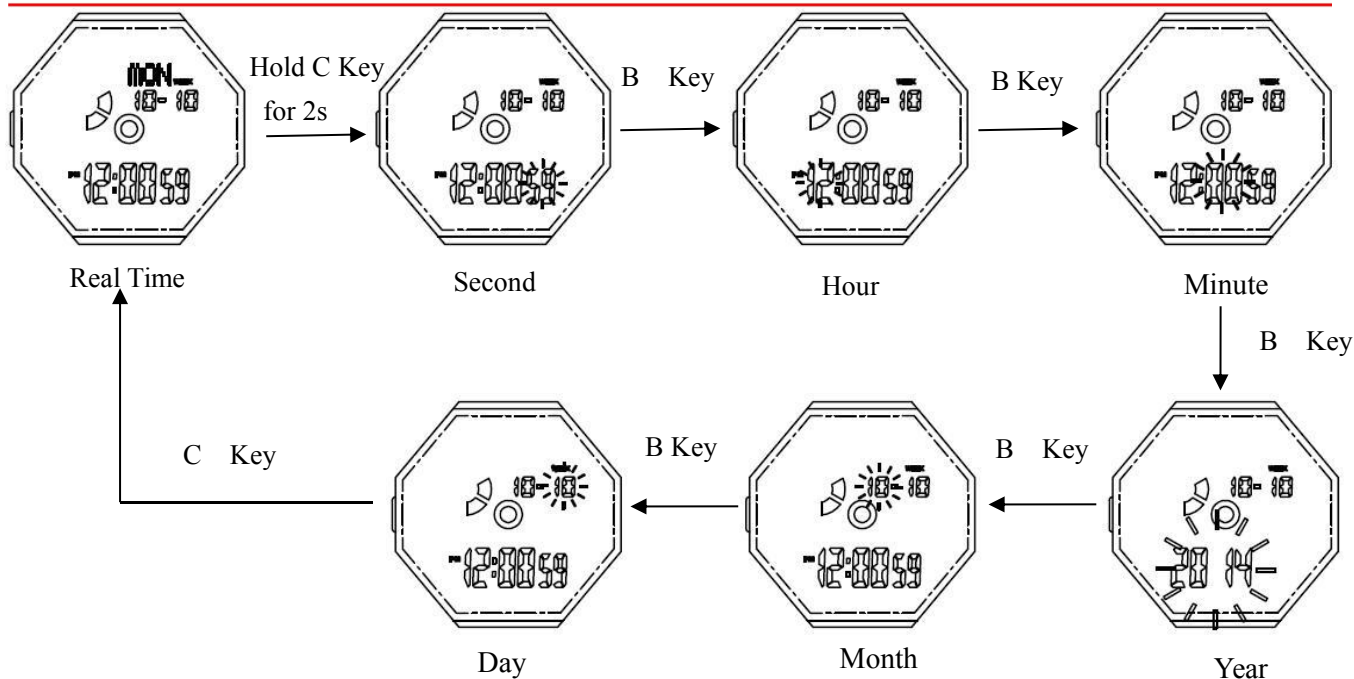
- ★ 13 Digits LCD Display, Display Hour, Minute, Second, Month, Day, Year and Week
- ★ Automatic Calendar(2000~2099)
- ★ Dual Time
- ★ 12 / 24H format selectable, Auto Calendar
- ★ Daily Alarm ,Chime hourly and SNZ
- ★ 1/100 second to 23 hour 59.99 second Chronograph with split functions,12 groups of LAP segment timing
- ★ Countdown function
- ★ EL backlight
- ★ Touch-tone

B . Operational Manual



1. At any mode, press A key EL backlight for 3s.
2. Press B to change the display mode
3. In real time mode press D key to switch 12 hours or 24 hours display.
4. Real Time and date
 - ★ Time Setting
 - a). Press and hold C key for 2s to time setting mode and "Second" flashing, Press B key to select item as following sequence :

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b). Press D key while the seconds are in the range of 30 to 59, resetting them to 00 and adding 1 to the minutes. While the seconds are in the range of 00 to 29, the minutes won't be changed.

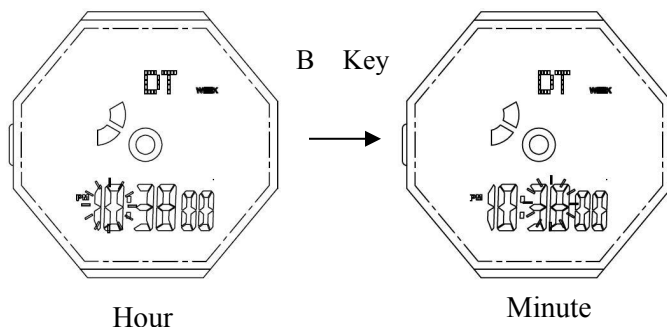
c). Press D key to adjust the value increment, hold down D key to quickly adjust.

d). Press C key to return to Real Time Mode.

e). In setting mode. 1 minute No key operation automatically exit setting, return to real time display mode.

5. Dual Time Mode

★ In the real time mode, Press B key 3 times to enter Dual Time Mode, Press and hold C key for 2s to select "Hour" setting, Press B key to select "Minute" setting,



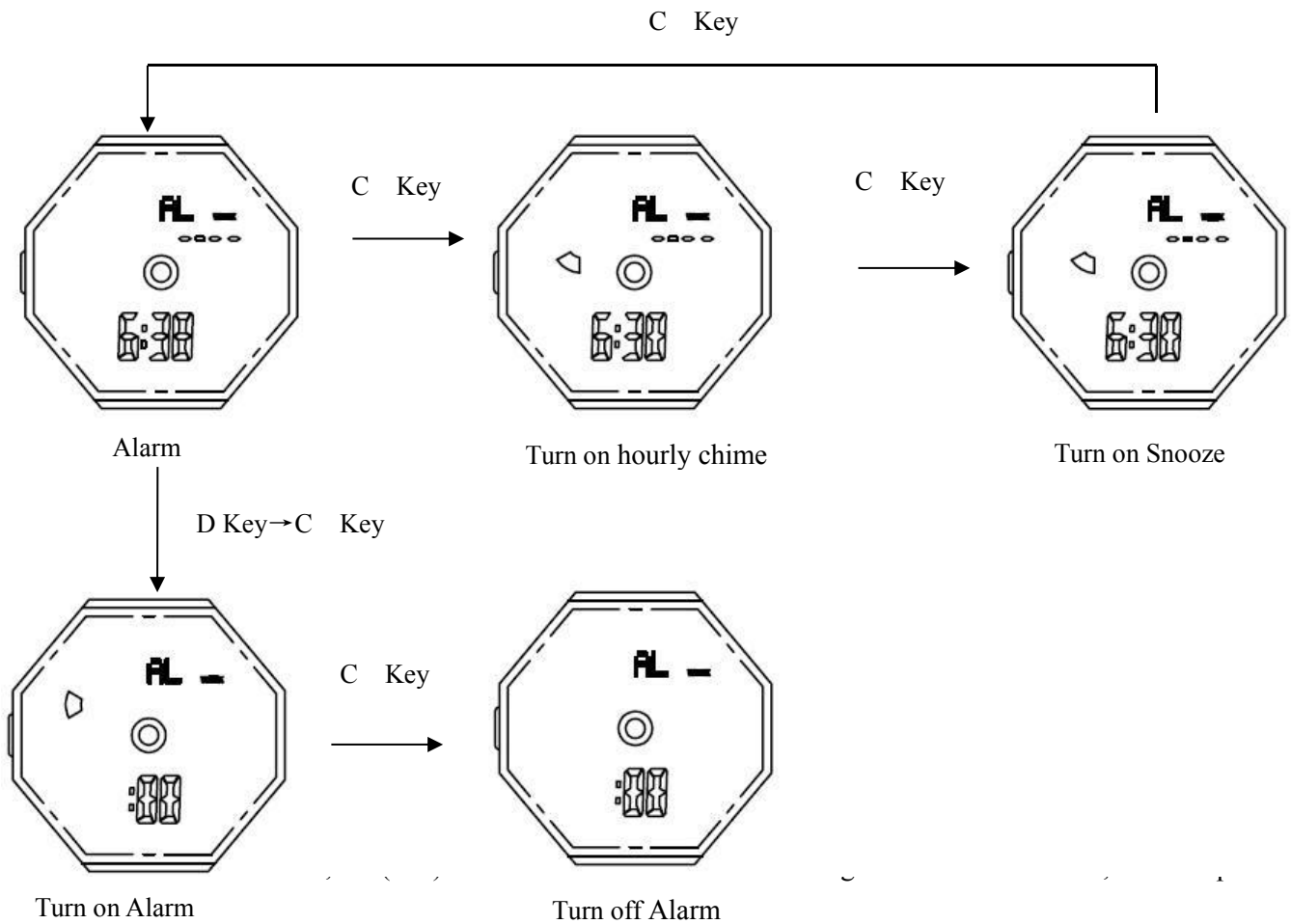
- ★ Press D key to adjust the value increment, hold down D key to quickly adjust.
- ★ Press C key again to finish setting, and return to Dual Time displaying mode.
- ★ In setting mode. 1 minute No key operation automatically exit setting, return to Dual Time displaying mode.
- ★ The second of Dual Time is the same as real time

6. Daily Alarm

★ Turn On / Off Alarm, Chime and Snooze

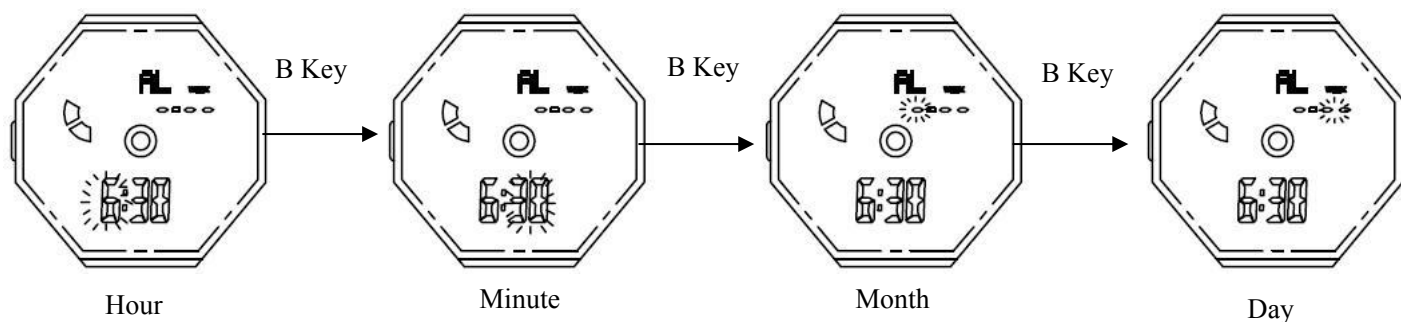
- a) In Alarm mode, Press D and then Press C key to turn on/off Alarm (🔔),
- b) In Alarm Mode, press C to turn on/off hourly chime(🔔) and snooze("SNZ"),

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Alarm Mode:

- ★ In alarm mode, press and hold C key for 2 seconds to enter the alarm time setting state, then press B key to select the setting items as follows:



- ★ Press D key to adjust the value increment, hold down D key to quickly adjust.
- ★ Press C key to return to Alarm Mode.
- ★ In setting mode. No any key operation then will back to alarm display mode automatically after 1 minute.

Remarks:

- ★ When you need a daily alarm, do not enter a number at the bottom of the screen. Please set it to "- - -".
- ★ When you need a specify month alarm, you need to enter the number "12- - -" at the bottom of the screen.

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- ★ When you need a specify day alarm, you need to enter the number "- - 30" on the bottom of the screen.
- ★ When you need a specify date alarm, you need to enter the number, such as "12-30" at the bottom of the screen.
- ★ When Alarm is ON, the BB-BB - ring sounds for 10 seconds, the alarm when the screen symbol "🔊" flashing, press any key to stop.

Snooze function:

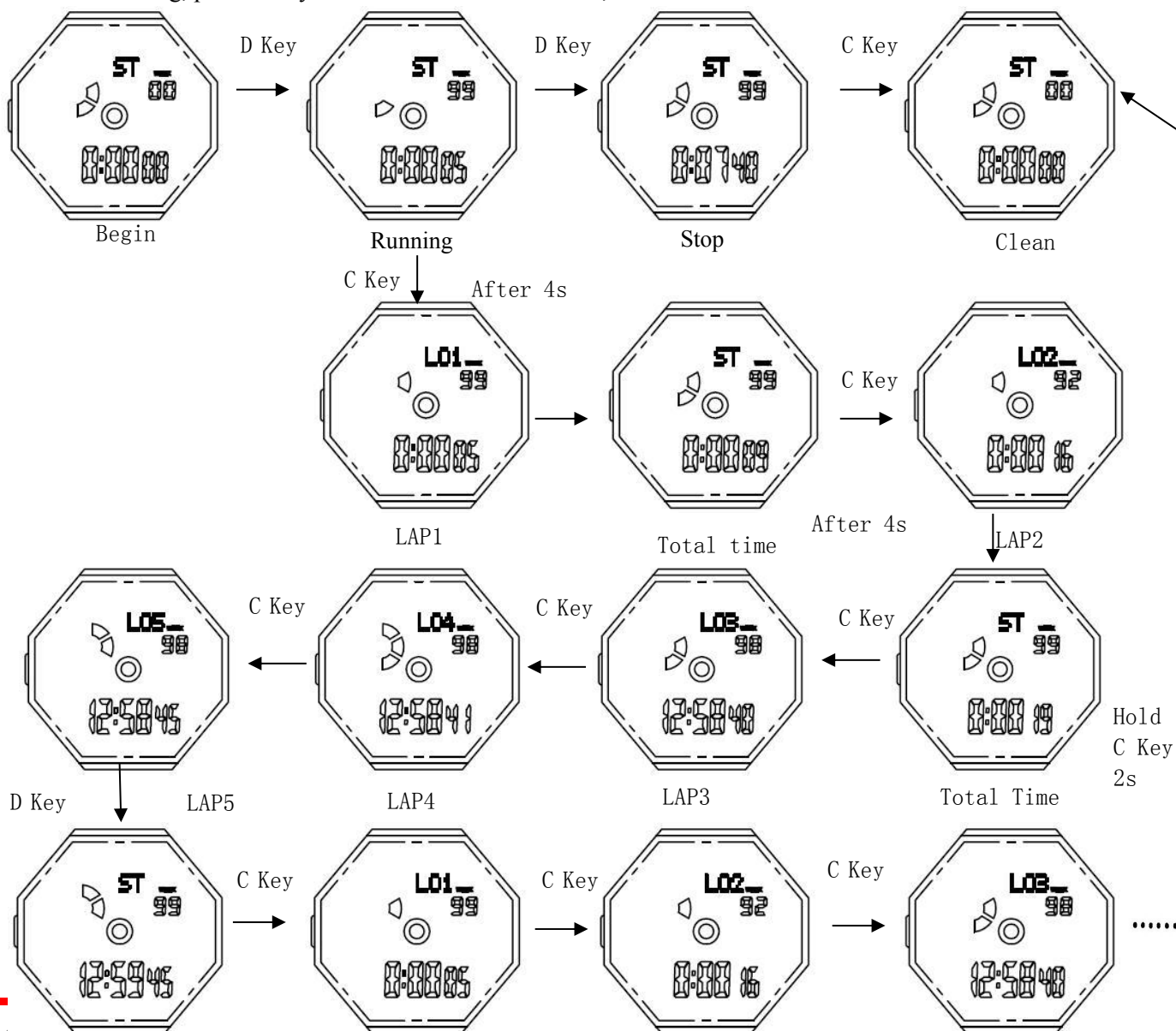
- ★ In the Snooze function, The symbol "SNZ" is still flashing on the screen when the alarm stopped , snooze rings every 5minutes,total ring 6 times.
- ★ When the snooze is ringing, press any key is to stop all the after snooze function.

7. Chronograph mode

- ★ The measurement range of chronograph is 23 hours 59 minutes 59.99 seconds, when reach the maximum, the chronograph re-count from "0"
- ★ Chronograph LAP segment timing can remember 12 groups.

When running the Chronograph:

- ★ Press D key to Start/Stop running ;When stop, press C key to zero.
- ★ When running, press C key to split counting. Press C key again to next LAP split counting.
- ★ In the split counting, press D key to stop counting ,Press C key to view the memory mode, press C key again to continue to view the next memory.
- ★ When exit split count, hold on C key for 2 seconds to zero.
- ★ When running, press B key to return to Real Time mode, and it runs at back.



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Stop

Review LAP1

LAP 2

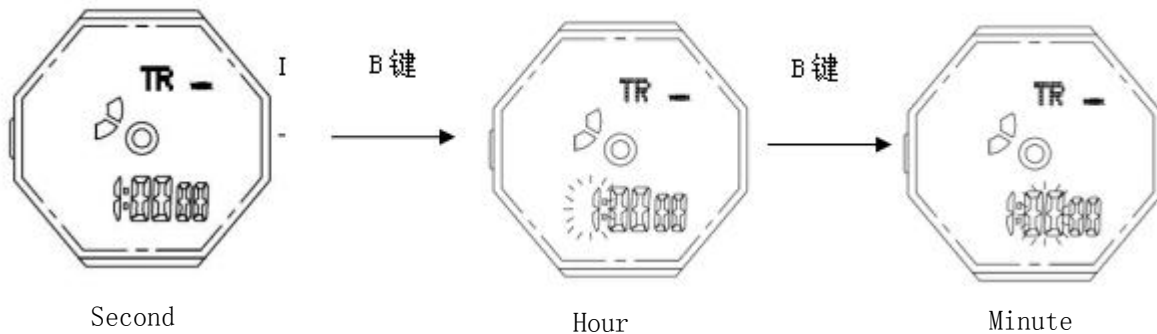
LAP3

8. Countdown mode

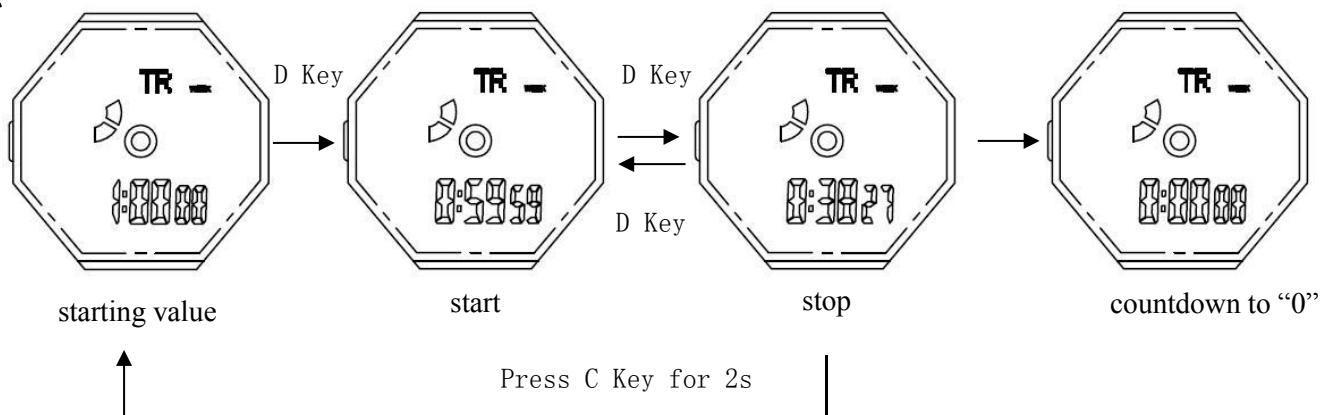
- ★ The display range of the timer is 1 minute to 23hour 59minute.

In the countdown mode

- ★ Press and hold C key for 2s to time setting mode and "Seconds" flashes. Press B key to select "Hour" , then Press B key "Minute" setting.



- ★ Press D key to adjust the value increment, hold down D key to quickly adjust.
- ★ Press C key to confirm, press B key return to the real time mode.
- ★ In setting mode. No any key operation then will back to countdown mode automatically after 1 minute.
- ★ Press D key to Start/Stop counting. Press C key for 2s to starting value when stop counting. Press C key for 2s again back to the setting mode.



- ★ When the countdown stop to zero, the BB-BB - ring sounds for 15 seconds, press any key to stop the ring, when the ring stop, the countdown time will automatically return to the initial setting time.

C. Specifications

- ★ Module Size : $\Phi 37.2\text{mm}$
- ★ Module Thickness (include buzzer) : 9.2mm
- ★ Operational Temperature Range : $-10^{\circ}\text{C} \sim +60^{\circ}\text{C}$
- ★ Operational Voltage : 3.0V
- ★ Accuracy : $\pm 45\text{sec/month}$
- ★ Battery Code : CR2025(capacitance: 170m Ah)
- ★ static average current : $\leq 1.5\text{u A}$ (static maximum current : 3.5 u A)
- ★ Alarm average current : $\leq 2\text{m A}$ (Alarm maximum current : 5.0m A)
- ★ : $\leq 8\text{m A}$ (EL lighten maximum current : 10m A)
- ★ : $\geq 36\text{ month}$ (Japan Lithium)

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- ✱ EL lighten average current
- ✱ Battery life (85%)

(Battery life calculate according to EL lighten four times each day for 3 seconds each time , alarm for 60 seconds each day)