LIGHT（key A）———— ————（key D）START/RCC

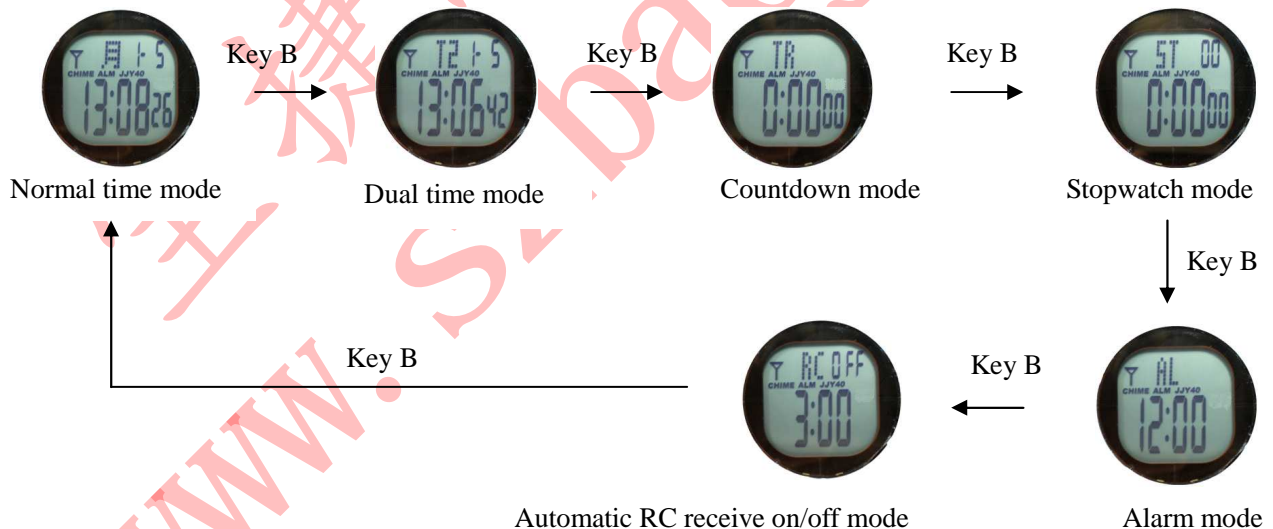MODE（key B）———— ————（key C）RESET/SET

A. Product features

➢ 12-digit timekeeping function, display hour, minute, second, day, month, year (2000-2099), day of week.
➢ 12/24 hour format selectable
➢ Dual time
➢ Countdown
➢ Stopwatch
➢ Alarm and snooze
➢ Manual and automatic receive radio controlled signal.
➢ RCC receiving JJY 60/40KHZ frequency
➢ EL backlight
➢ Solar energy auxiliary function for battery saving.

B. Product Function Mode

Normal time mode → Key B → Dual time mode → Key B → Countdown mode → Key B → Stopwatch mode → Key B → Alarm mode → Key B → Automatic RC receive on/off mode → Key B → (return to Normal time mode)

1. Press key A in any mode, EL backlight will light for 3 seconds.

2. Time keeping function

➢ At normal time mode, press key C to switch between 12/24 format mode, it's 12-hour mode when "PM" is shown on display; press key D to view Year, re-press key D to return to normal time display mode or it will automatic return in 5 seconds.

- ➤ **Time Setting:**
- ➤ At normal time mode, press key C until "Second" flashing to indicate the setting mode.
- ➤ Press key C to step below items in sequence(flashing):

Second	→	Hour	→	Minute	→	Year	→	Month	→	Day	→	Exit
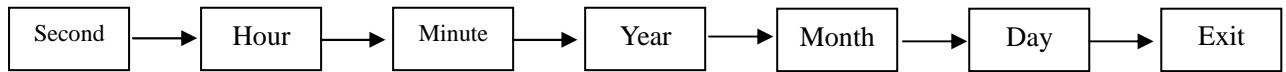
- ➤ When the setting item flashing, press key D to adjust it
- ➤ Press key B to exit the setting mode
- ➤ The day of the week is automatically set in accordance with the date (M/D/Y).
- ➤ If without any keystroke within 30 seconds, it will back to normal timekeeping mode automatically.

3. Dual Time
- ➤ When enter into dual time mode, press and hold down key C until "Hour" flashing to enter the setting mode. Press key D to adjust the flashing value; (dual time can only set Hour, Minute ,Second will automatically synchronize with normal time), and press key B to exit the setting mode.

4. Countdown
- ➤ Countdown time can be set between 1 sec and 24 hours. When the countdown value reach zero, the alarm will ring for about 20 seconds. At this time press any key to stop the alarm. After the ring stops, the time will automatically return to previous start time.
- ➤ After displaying countdown mode, press key D to start the countdown. During the countdown, press key D to pause. Re-press key D to continue the countdown.
- ➤ To completely stop the countdown, firstly pause it (Press key D) and then press key C. At this time the time will return to previous start time.

- ➤ **Setting of Countdown Start Time**
  1. At countdown mode, press and hold down key C until "Second" flashing to enter the setting mode.
  2. Press key C to step below items in sequence(flashing):

Second	→	Minute	→	Hour	→	Exit

  3. When the setting value is flashing, press key D to adjust it
  4. To set start time of countdown to 24 hours, please set it at 0:00.
  5. Press key B to exit the setting mode.
  6. If without any keystroke within 30 seconds, it will back to normal timekeeping mode automatically

5. Stopwatch
- ➤ Time range of stopwatch is 23 hours, 59 minutes and 59 seconds.
- ➤ If you do not stop the stopwatch, it will keep running. When the limit is hit, the stopwatch will re-start time counting from zero.
- ➤ Under stopwatch mode, press key D to start running second, re-press key D to stop running second. At this time, press key C to make stopwatch return to zero.
- ➤ When using the stopwatch split time: at stopwatch mode, press key D to start time keeping, press key C to enter split time status and re-press key C or B to exit split time; enter split time or exit split time status, press key D to stop time keeping and display all time, re-press key C to make stopwatch return to zero.
- ➤ At stopwatch mode, time is running, press key B to exit the stopwatch mode, the stopwatch will continue time keeping in background

6. Alarm
ALM/CHI On/Off:
  1．At alarm mode ("Hour" or "Minute" is not flashing), press key D to turn on/off alarm icon: (ALM) and Chime on hour: (CHIME).

2．When the alarm rings, the alarm icon (ALM) is flashing.

3．The alarm will automatically stop after ringing for 30 seconds when the preset time is reached.

4．Alarm-on icon and CHI-on icon will display on all function modes.

➢ **Snooze:** When the alarm rings, press key B or key C or key D to stop the ring and automatically launch snooze, the alarm will ring for 30 seconds in five minutes; within the 30 seconds without pressing key B or key C or key D, the snooze will automatically shut.

➢ **Alarm Setting:**

1．At alarm mode, press and hold down key C until "Hour" flashing to enter the setting mode.

2．Press key C to step below items in sequence (flashing).

```
┌────────┐      ┌────────┐      ┌────────┐
│  Hour  │ ───> │ Minute │ ───> │  Exit  │
└────────┘      └────────┘      └────────┘
```

3．When the setting item is flashing, press key D to adjust it.

4．Press key B to exit the setting mode.

5．If without any keystroke within 30 seconds, it will back to normal timekeeping mode automatically

7. Automatic Receiving RC signal   (radio controlled signal)

➢ At automatic RC receive mode, press key D to select ON (means turn on automatic receiving), re-press key D to select OFF (means turn off automatic receiving) to enter power save mode.

8. Manual Receiving RC signal (Radio controlled signal)

➢ At normal time mode, double frequency icon 40KHZ will display, press and hold down key D for 3 seconds to enter manually RC receiving status, at this time, it will receive the 40KHZ signal. If no signal is received in five minutes, then it will automatically receive 60KHZ signal, the icon 60KHZ will display. if in five minutes it still cannot receive any signal, then it will stop receiving.

➢ If need not to wait automatic switching of double frequency, at the status of receiving first frequency (40KHZ or 60KHZ), press key B or key C or key D to stop receiving. And press and hold down key D for 3 seconds to receive the second frequency.

➢ Enter status of receiving radio, the signal tower icon " Y " on the display is flashing. If signal is received, " $\mathbf{Yil}$ " will indicate the signal sensitivity. After decoding successfully, signal intensity and signal tower will remain on the display. If it fails to receive for second time, then signal intensity will not display, only the signal tower is displayed.

9. Receiving Signal Icon

Receiving status without any signal (signal tower is flashing)	Y
Receiving status with weak signal (signal tower is flashing)	$\mathsf{Y_I}$
Receiving status with relatively weak signal (signal tower is flashing)	$\mathsf{Y_{II}}$
Receiving status with good signal (signal tower is flashing)	$\mathsf{Y_{III}}$
Received signal (signal tower will not flashing)	$\mathsf{Y_{III}}$ （$\mathsf{Y_{II}}$ $\mathsf{Y_I}$）
Receiving no signal (signal tower will not flashing)	Y

C. Important tips:

1. If user turns on automatic receiving radio controlled function, the internal set time for receiving is AM3:00
2. When automatic receiving RCC/ON is turned on, the product will automatically receive radio controlled signal every 24 hours to correct the time.
3. Time of receiving RC signal is 5-10 minutes. If it cannot demodulate the signal within 10 minutes, then it will automatically give up receiving.
4. To ensure the receiving effect, we recommend user to lay the watch horizontally at the window when it's receiving signal.
5. We recommend user to turn off the receiving function when there's no need to receive radio to correct time, so as to save the power and extend the battery life.
6. The cell of this watch has solar energy auxiliary function, so care must be taken to prevent the watch from being covered by wearing so as to achieve the best power save effect.

Solar Power Save
1. When the indoor lighteness is 100-500 Lux, the power of the cell can saved about 50%-90%
2. If the lighteness is over 500 Lux, the battery almost consumes no power.

D. Specification

- Module Size : Φ33.2mm
- Module Thickness（include buzzer） : 10.40mm
- Operational Temperature Range : -10℃~60℃
- Operational Voltage : 3.0V
- Accuracy : ±30sec/month
- Battery Code : CR2025(capacitance: 170m Ah)
- static average current : ≤4.22u A (static maximum current ： 10.0uA)
- Alarm average current : ≤1.19m A （Alarm maximum current ： 7.0mA）
- EL lighten average current : ≤6.84m A （ELlighten maximum current ： 10mA）
- RCC average current receiver : ≤48.08u A （RCC received the maximum current: 90u A）
- RCC receiver sensitity (bare metal) : ≤48dB
- Battery life : ≥36 month(Japan Lithium)

  (Used every day; alarm rings for 30 seconds/once only; EL for 3 seconds/once only, receiving radio for 10 minutes/once only)

	Prepared	Audited	Approved
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Date	10/10/20	10/11/05	10/11/05