



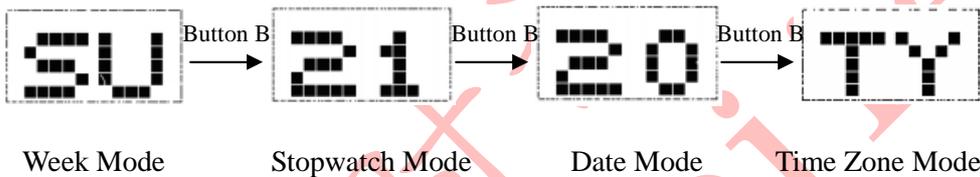
—— (Button A) RCC

—— (Button B) SET

A . Features

- Hands plus LCD screen display hour, week, date and second.
- Radio controlled signal of auto receive and manual receive.
- Auto-calendar.
- The two signals (JJY) are transmitted with a frequency of 40kHz and 60 kHz.
- Signal automatically received at 2 o'clock everyday.
- Daylight Saving Time (DST) function.

B . Product Functional Mode

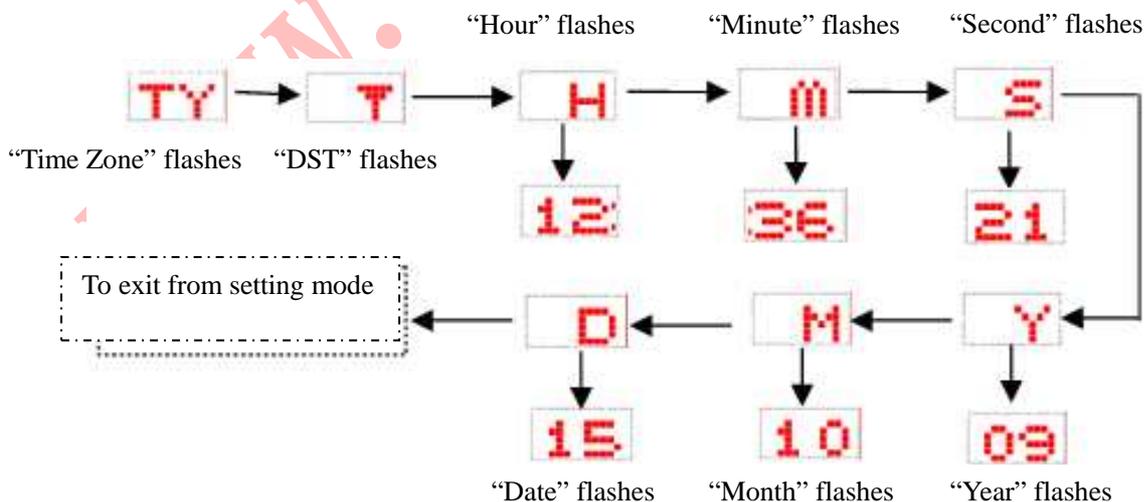


1. Timekeeping

- Press B to select LCD display mode.
- Press and hold A for 2 seconds to receive signal manually, then press A for 2 seconds again to exit from signal reception.

2. To set time and date

- Hands stop running by holding down B for 2 seconds, “Time zone” on LCD screen starts to flash, which indicates to enter setting screen, then press B to select other setting items(flashing) in sequence as below:



- Press A to adjust, hold down A for some time to adjust fast.
- Press B to exit from setting when “date” is flashing, the analog time will catch up with the digital time, so the analog time of this watch will be synchronized with the digital time.
- In setting mode, the watch will automatically exit from setting if there is no key performance within a minute, the analog time will also catch up with the digital time.
- To set daylight saving time(DST), “DST” indicator appears when daylight saving time is turned on, while “DST” indicator disappears when daylight saving time is turned off..

Note: If you change the time zone or the current time in time setting mode, in order to ensure analog time is synchronized with the digital time, the analog time will automatically catch up with digital time after exiting from setting mode. (If the setting time is less than 60 seconds, the analog time will stop timekeeping when it exits from setting mode, but the analog time will restart to timekeeping after the digital time is catch up with it, at this time, the analog time of this watch is synchronized with the digital time.)

3. To receive signal manually

- In non-setting mode, hold down A for 2 seconds to enter the signal reception, signal tower (**Y**) begin to flash, and the signal level indicator (**▬▬▬▬**) will appear if the place has signal. After waiting for some minutes, if reception is successful, signal tower (**Y**) will appear on the screen. But if reception is fail, there will be no signal tower (**Y**) on the screen.

4. To receive signal automatically

- The watch automatically receives time calibration signal at 2:00 a.m everyday, once any auto receive is successful, the remaining auto receive operations are not performed. But if the auto reception fails, it will try again at 3:00 a.m, and if the reception at 3:00 a.m. still fails, there will come a final reception at 4:00 a.m..
- Auto reception of the time calibration signal will be automatically turned off if it failed to receive in three days, and auto reception will recover to receive the signal until manual receive is successful.
- Second hand points to 12 o'clock during signal is receiving. The analog time will automatically calibrate and match the digital time after the signal reception is finished.

5. To receive a frequency of 40kHz and 60 kHz

The watch does not need to set by manually when auto receive or forcedly receive a frequency of 40kHz and 60 kHz signal. The watch first tries to pick up the signal it last successfully received, if that fails, it tries the other signals.

C. Important Notes

- 1.This watch has three groups of time calibration signal, which are auto-received: AM2: 00, AM3: 00 ,AM4: 00.
- 2.This watch will receive signal automatically every 24 hours,which is used for calibrating the time.
3. The calibration signal takes 10 minutes to receive,, it will stop receiving if it fails to receive.
4. To ensure better signal, we advise to put your watch near the window when receiving

D. Important Suggestions

- If use steel back case, we advise to match with rubber dial plate or paper dial plate
- If use glass back case, we advise to match with copper dial plate.

E. Specifications

- Module dimension : Φ 33.2.mm
- Module thickness(Buzzer included) : 6.90 mm
- Working temperature range : -10°C~+60°C
- Working voltage : 3.0V
- Time accuracy : \pm 30 sec/month
- Battery code and capacity : CR2032(Capacity:220m Ah)
- Static average current : \leq 1.75u A (Static maximum current: 16.0 u A)
- Average current of RCC reception : \leq 48.25 u A (Maximum current of RCC reception: 80.0m A)
- Sensitivity of RCC reception(only movement) : \leq 58dBuv/m
- Battery life (90%) : \geq 24 months (Japan lithium)

RCC reception for 10 minutes everyday.

City Code Table

City Code	City Name	GMT Differential	RCC Format
MDY	Midway	-11	
HNL	Honolulu	-10	
ANC	Anchorage	-9	WWVVB
LAX	Los Angeles	-8	WWVVB
DEN	Denver	-7	WWVVB
CHI	Chicago	-6	WWVVB
NYC	New York	-5	WWVVB
CCS	Caracas	-4	
RIO	Rio De Janeiro	-3	
REC	Recife	-2	
AZO	Azores	-1	
LON	London	0	MSF-DCF
PAR	Paris	+1	DCF-MSF
CAI	Cairo	+2	DCF
MOW	Moscow	+3	
DXB	Dubai	+4	
KHI	Karachi	+5	
DAC	Dacca	+6	
BKK	Bangkok	+7	
BJS	Bijing	+8	JJY60
TYO	Tokyo	+9	JJY60-JJY40
SYD	Sydney	+10	
NOU	Noumea	+11	
AKL	Auckland	+12	

Notes for Maintenance

1. Analog hands must be calibrated after replacing the battery.

- When battery is used up, please replace a new one.
- After replacing the battery, LCD screen flashes to display “00”, and the analog hands don’t work at this moment, if three hands don’t point to 12 :00:
- Press Button A once, second hand of analog advances one second, press Button A repeatedly until all three hands point to 12:00

- Hold down Button A for 2 seconds, second hand will advance fast, when second hand reach at 12:00, press Button A again to stop advancing fast, then press Button A again to advance slowly so that all hands point to 12:00.
- When hands stop calibrating, press Button B to adjust hands in forward direction or in reverse direction. (Example: If minutes, seconds have exceeded 12 o'clock during adjusting, please press Button B once firstly, then press Button A, analog movement will be adjusted in a reverse direction.)
- The watch will automatically receive the signal when hold down Button B for 2 seconds or if there is no key performance within a minute. If you do not need to receive the signal at that time, please hold down Button A for 2 seconds to return normal time, in the meanwhile, the analog time will run fast until it is synchronized with the digital time.

2. To calibrate the hands when the power is not off

- Use for judging hour hand, minute hand, second hand whether overlap or not.
- In normal time, hold down Button B for 6 seconds, the analog time will stop running automatically, and LCD screen flashes to display "00", the analog hands will run fast until two hands point to 12:00.(if one of the hand doesn't point to 12:00, please press Button B to adjust slightly till it points to 12:00). Hold down Button A for 2 seconds, the analog hands run fast, then press Button A again to stop running fast, and press Button A shortly to adjust the hands so that they can overlap at 12:00.
- When adjust the watch, if the watch needs to be adjusted in reverse direction, you should press Button A to stop calibrating, and press Button B once, then press Button A to make the analog hands to run in reverse direction.
- The watch will automatically receive the signal when hold down Button B for 2 seconds or if there is no key performance within a minute.

Note: If hour hand, minute hand and second hand of analog are not point to 12:00 when calibrating, please re-install the hands or have the analog repaired.

	Prepared	Checked	Approved
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Date	11/08/19	11/08/19	11/08/19