

### **Original position**

Select time zone of user, install 1pc fresh "AA" 1.5V LR6 alkaline battery, the movement will reset automatically will stop at zero position. The second hand runs and stops at 12:00 O'clock, then minute and hour hands start to run at position (12:00). If the second hand starts to run between second 48~59, it runs one more circle then stop at 12:00; if it starts to run between 11:52~11:59, it runs one more circle then stop at 12:00, enter the receiving state.

### **Static failed receiving to treatment**

When the signal is too weak, if it failed to receive the signal after 10 minutes. The movement will exit this function. The clock will start to run from 12:00:00.

A. When the hands run to 02:16:00, 04:16:00, 14:16:00, 16:16:00 the clock will enter into signal judgement (It takes 5~12 seconds). If signal is strong enough, the clock hands will stop and receive signal. As a rule, the time will run or stop on signal strong or weak, it takes about 4~10 minutes to finish receiving. (So the clock hands stop running and stop at 4 position, it is belong to normal operation.)

B. When receiving successfully, the hands will find their correct time and work normally.

C. If it fails to receive the signal, the clock restoring to original state and will enter into receiving signal automatically time. It comes across 02:16, 04:16, 14:16, 16:16 will repeated receiving as above until receiving the correct time and the condition of the successful receiving

### **Special instruction**

When clock hands stop at 48 second position at random one of the 02:16~19 minute, 04:16~19 minute, 16:16~19 minute position and the clock is receiving signal, it is normal not wrong with it.

### **Running state after the successful receiving**

The clock movement will receiving the 3 times with ten minutes at the most everyday after receiving successfully. The will stop at 01:16, 02:16, 04:16 receiving every day.

It will not enter into the force receiving once when the clock receiving signal successfully day.

### **Manual Setting**

When the clock runs normally, press M.SET more than 3 seconds, second hand will stop and enter into the manual setting. Press the M.SET more than 1 second, minute hand will run quickly. Set free the M.SET, the minute hand will stop running. Press M.SET button once, the minute hand will run one minute. The clock will exit the manual setting if you don't press the M.SET button within 7 seconds and it will run in the setted time.

If it receiving successfully or not, it will enter into static failed receiving to treatment after the manual setting. When the 02:16:00, 04:16:00, 14:16:00, 16:16:00 the clock will enter into receive strong and weak signal automatically (As same as static failed receiving to treatment)

### **Force Receiving**

Under the condition of the setting time, Press the RET button for 3 seconds the hands will stop running and enter into receiving with ten minutes at the most. If it received the signal successfully, the clock will run after catching the correct time. At the same time, the inner standard time will be innovated.

The clock will stop receiving if it fails to receive the signal within 10 minutes and go on running after catching the 10 same time, the inner standard time of CPU will be innovated and will running. The clock time is in the condition of the



## Check and adjustment of mechanical difference

### A. Mechanical second adjustment

Under the condition of normal running, the second hand will check by itself. (It takes about 2 minutes.) If the second difference is more than 24 seconds, it can adjust it. When the second difference is more than 24 seconds, the clock will enter into force receiving at AM02:00.

### B. Mechanical minute adjustment

Until the condition of normal running, at inner time PM11:51~11:54, the clock will check the minute by itself. When the minute difference faster than one minute (+0 degree) and slower than two minutes (-12 degree), the clock will run continuously, when it is faster more than one minute and slower two minutes, the clock will enter into force receiving at AM 2:00.

## Hourly Alarm

Set the OPT/C.D.S switch to OPT, clock time is between AM6:00 ~ PM9:00, will tell time every hour, but clock time PM10:00 ~ AM5:00 will not have telling time function

Set the OPT/C.D.S switch to C.D.S, clock time is between AM6:00 ~ PM9:00, if there is no sunshine on it then no tel

**It is a external function,if you use standard function,it is invaluable.**

## C. D. S

When the light too weak for 2-5 minutes, the second hand will stop at 12:00 until the light enough for 2 minutes. But during time, the other hands run regularly.

**it is a external function,if you use standard function,it is invaluable.**

## Time Zone Selection And DST(On/Off) Function

When the clock movement receiving the summer time if the DST switch select ON and the clock will catch the summer time. Before receiving, no matter which select the time zone switch, it will switch to this time zone automatically after receiving. If change time switch with running and time will change accordingly. (P--Pacific time; M--Mountains time; C--Central time; E--Eastern time)

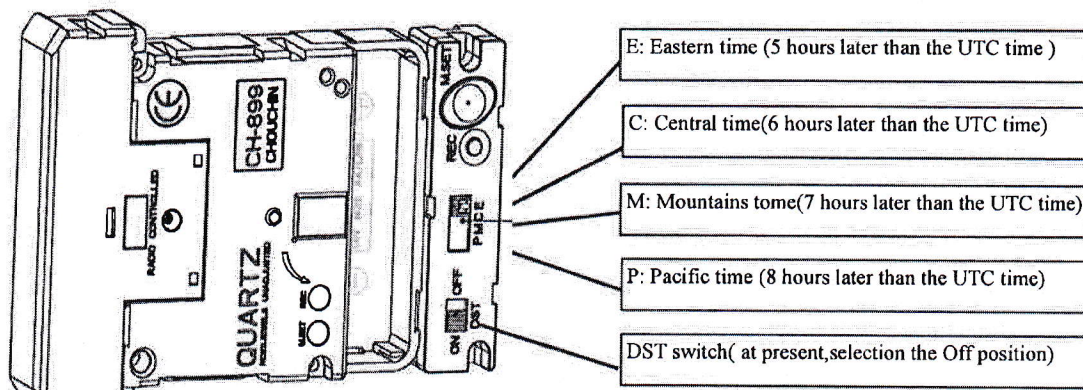
### 1. An example of received signal the summer time

When the DST switch selected OFF and it will run according to winter time. When time switch on P position, the clock time slower than UTC time 8 hours; When time switch on M position, the clock time slower than UTC time 7 hours; When time switch on C position, the clock time slower than UTC time 6 hours; When time switch on E position, the clock time slower than UTC time 5 hours.

When the DST switch selected ON and it will running to summer time. Regardless of the clock time switch on P/M/C/E, it will add one hour on the basis of original time, the clock time slower than UTC time 7/6/5/4 hours respectively.

### 2. An example of received signal the winter time

Regardless of the DST switch is ON or OFF and it will run in winter time; When time switch on P/M/C/E position, the time difference between clock time slower than UTC time difference 8/7/6/5 hours respectively.



## *Reset*

Shorting circuit the pins that upper the left at the back of the movement, the hour/minute/second hands run and stop at position. Begin to the first signal receiving after reset. (It is the same as the original position/reset)

