

***TECHNICAL
INFORMATION***

CITIZEN QUARTZ

Cal. No. 923 ※ ※

 **CITIZEN**

§ 1. OUTLINE



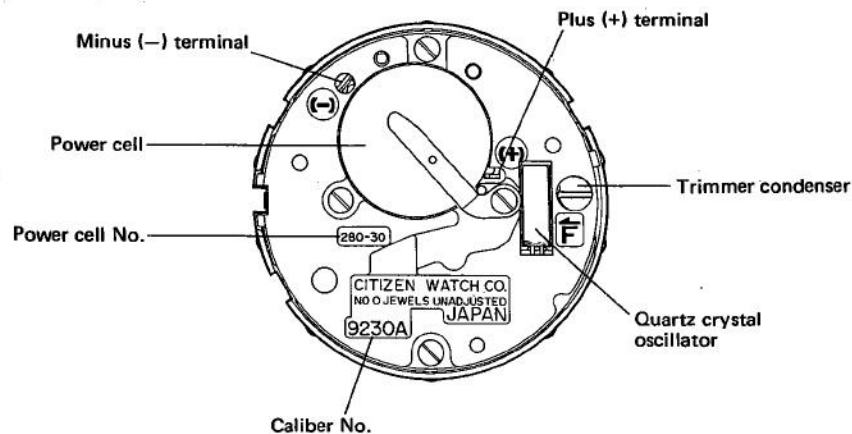
This is a digital quartz crystal watch which incorporates both the stopwatch and dual time functions in addition to the normal time/calendar display. The switching is possible between the 12- and 24-hour clocking systems for both the normal time and dual time displays.

§ 2. FEATURES

- 1) Both the stopwatch and dual time functions are added to the normal time/calendar displays.
- 2) An independent switching is possible with one-touch operation between the 12- and 24-hour clocking systems for both the normal and dual time displays.
- 3) The calendar is set automatically with correction including even the leap years after setting once.
- 4) A built-in illumination lamp facilitates an easy reading the display information even in the dark place.
- 5) The accurate time clocking is ensured for about 2 years with just a single unit of a miniature silver oxide power cell. (5 sec. lamp lighting per day)

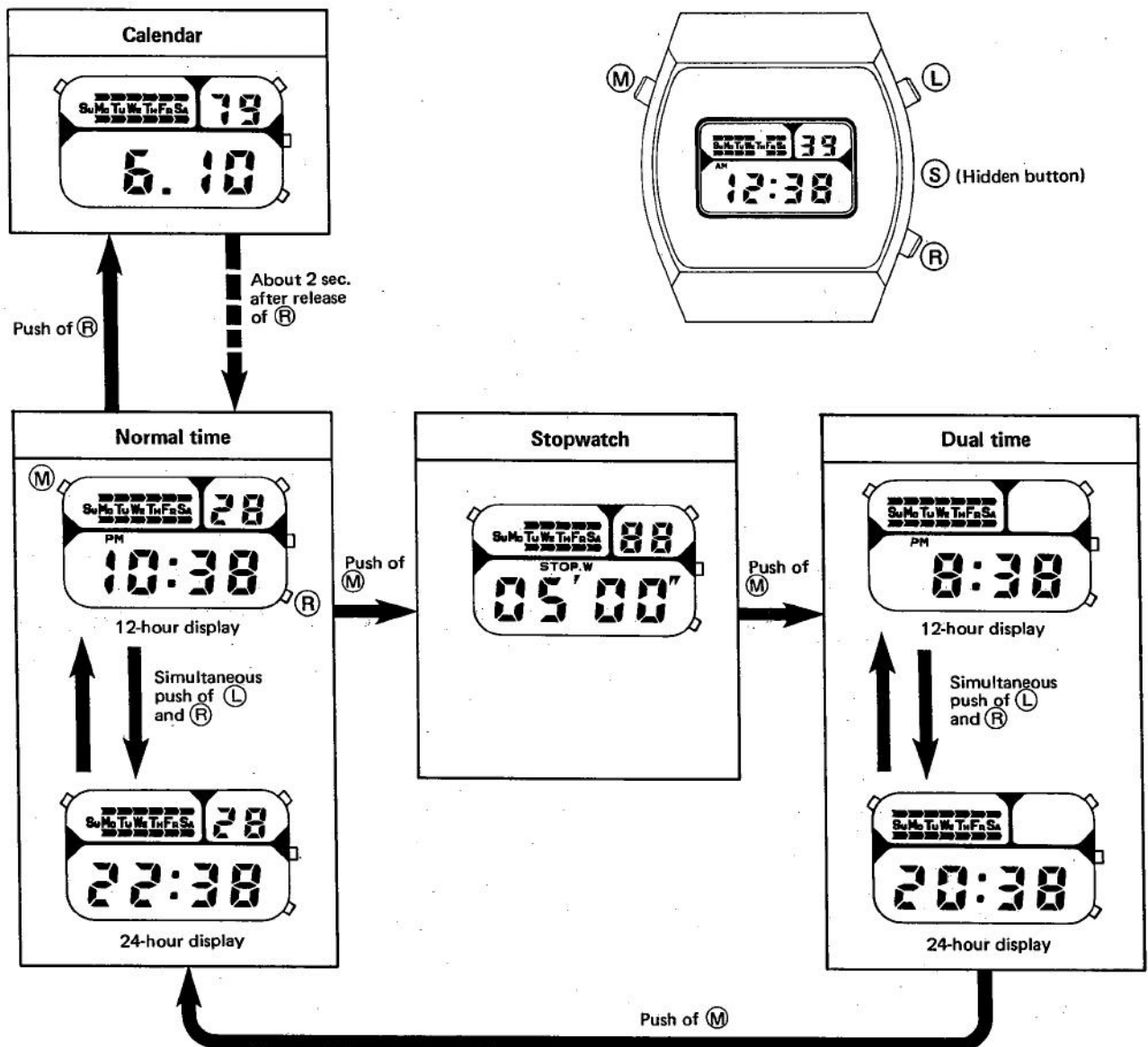
§3. SPECIFICATIONS

Caliber No.	9230A	
Movement	Diameter: 25.7 ϕ mm (Max. 26.6mm ϕ)	
	Thickness: 5.45mm (Power cell part 5.51mm)	
Oscillation	32,768 Hz	
Accuracy	± 15 Sec./month at normal temperature	
Time	Calendar	Year, month, date & day
	Stopwatch	Minute, second & 1/100 sec.
	Dual time	Hour, minute & AM/PM (12-hour display); Hour & minute (24-hour display)
		Hour, minute, second, day & AM/PM (12-hour display); hour, minute, second & day (24-hour display)
Effective temperature range	0°C (32°F) ~ 60°C (140°F)	
Integrated circuit	C/MOS-LSI (1 unit)	
Additional mechanisms	<ul style="list-style-type: none"> ●Stopwatch ●Dual time ●12-/24-hour display switching ●Automatic calendar setting ●Illumination lamp 	
Power cell	Silver oxide power cell (1 unit) Parts No. : 280-30 Nominal voltage : 1.55V Capacity : 42mAH Size : 11.6 ϕ x 2.06mm ^t Life : About 2 years	



§ 4. HANDLING INSTRUCTIONS

1) Display switching



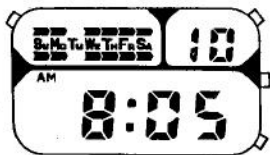
The normal time display is switched to the calendar display with push of **R** button. And the normal time display is reset in about 2 seconds after release of **R** button.

Also, with every push of **M** button, the display changes in the cycle of the normal time → stopwatch → dual time → normal time,

For both the normal time and dual time displays, the 12-hour and 24-hour clocking systems are switched alternately with every simultaneous push of both **L** and **R** buttons.


The AM/PM display is not available with the 24-hour display, and the second and day are not displayed with the dual time.

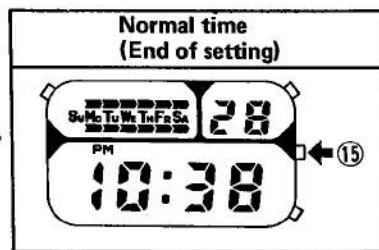
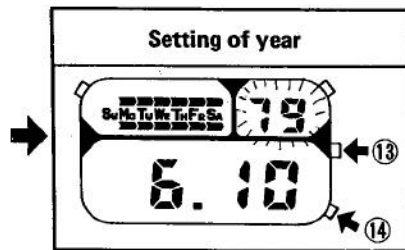
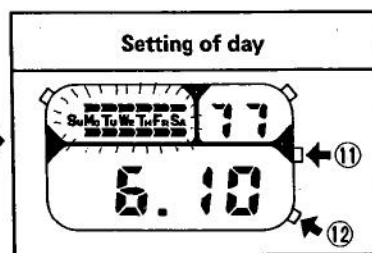
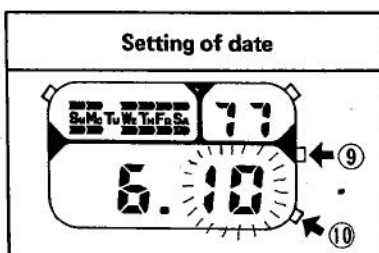
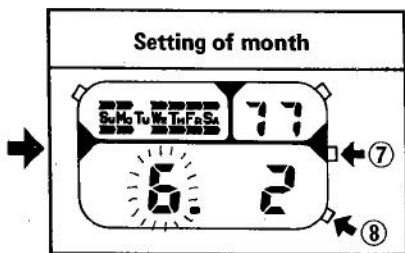
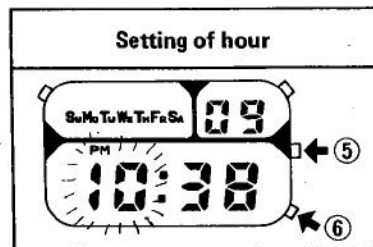
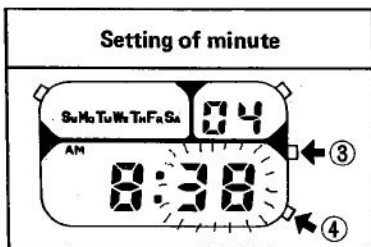
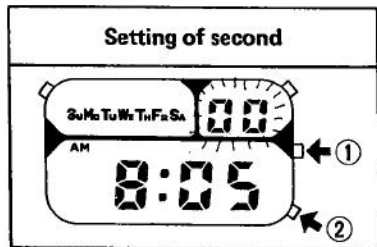
2. Setting of time and calendar



Normal time

The area to be corrected is called out with push of (S) button and then set with push of (R) button.

The following method of setting is based on the 12-hour display system. The setting procedure must follow the sequence of ① ~ ⑮ as indicated below. (The flashing is shown by the  mark.)

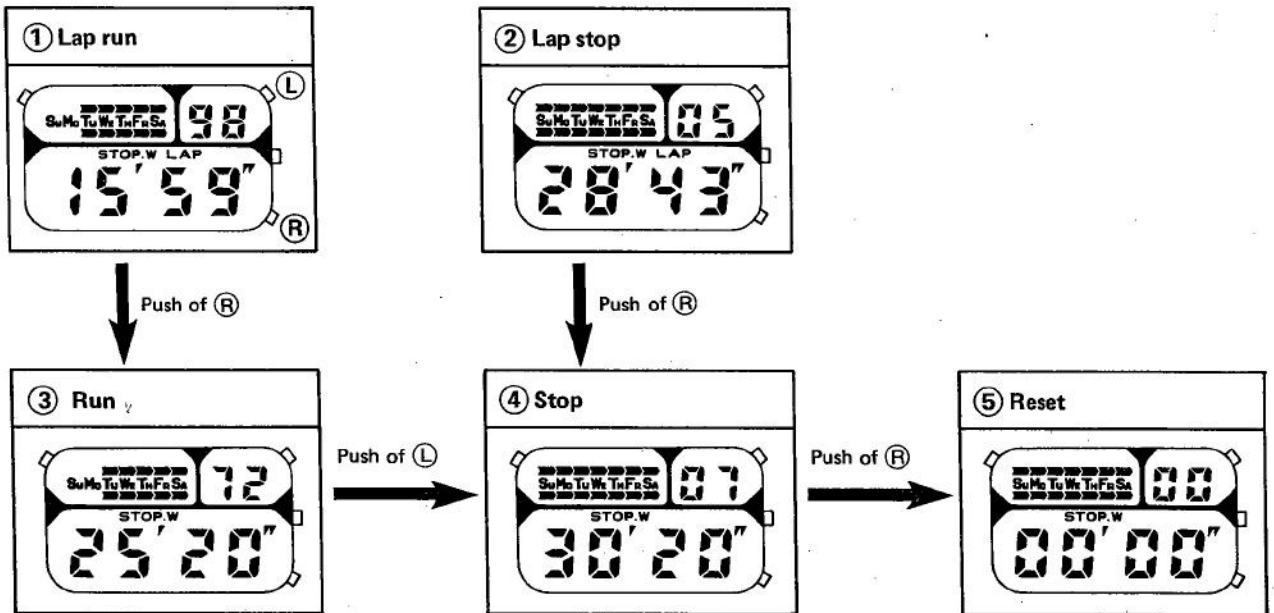


- *1. The minute is carried by one with push of (R) button when the second reads 30 ~ 59 in the setting of second.
- 2. The year is set in the cycle of 70 (1970) ~ 09 (2009) years.
- 3. The normal time display is reset instantaneously at any moment with push of (L) button (Quick re-setting device).
- 4. The setting method of the 24-hour display is quite identical to that of the above described 12-hour display except for non-display of AM/PM in the hour setting.

3. Operation of stopwatch

(1) Resetting

The following five modes (① ~ ⑤) are displayed under operation of the stopwatch.

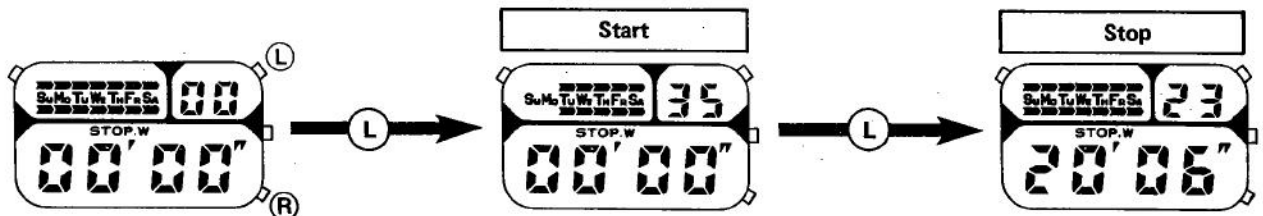


The segment of the day runs from left to right under the run mode (including lap run), and all day segments are displayed under other modes.

Under the modes of lap run and lap stop, "LAP" mark is displayed.

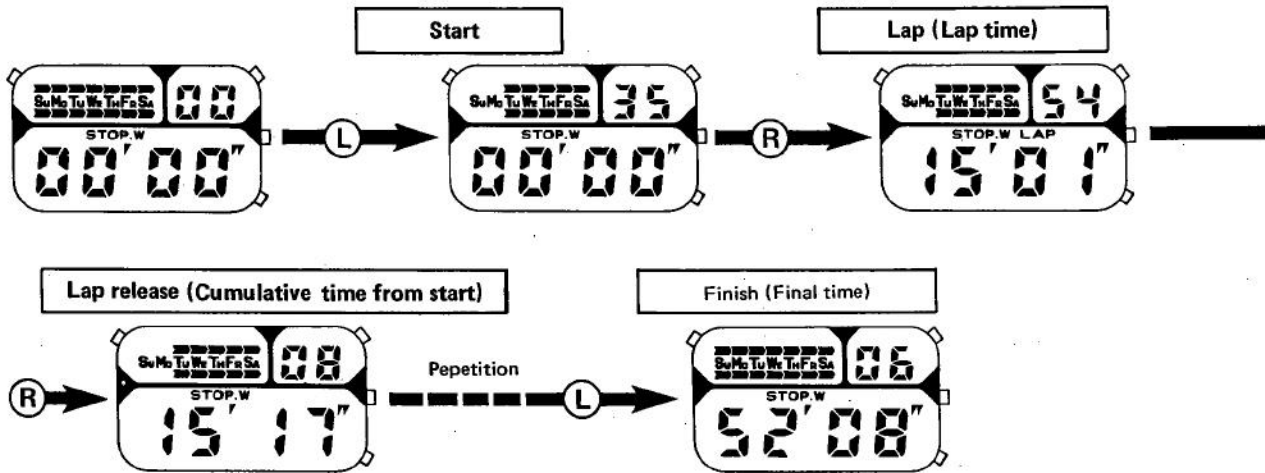
(2) Timing method

① Simple timing

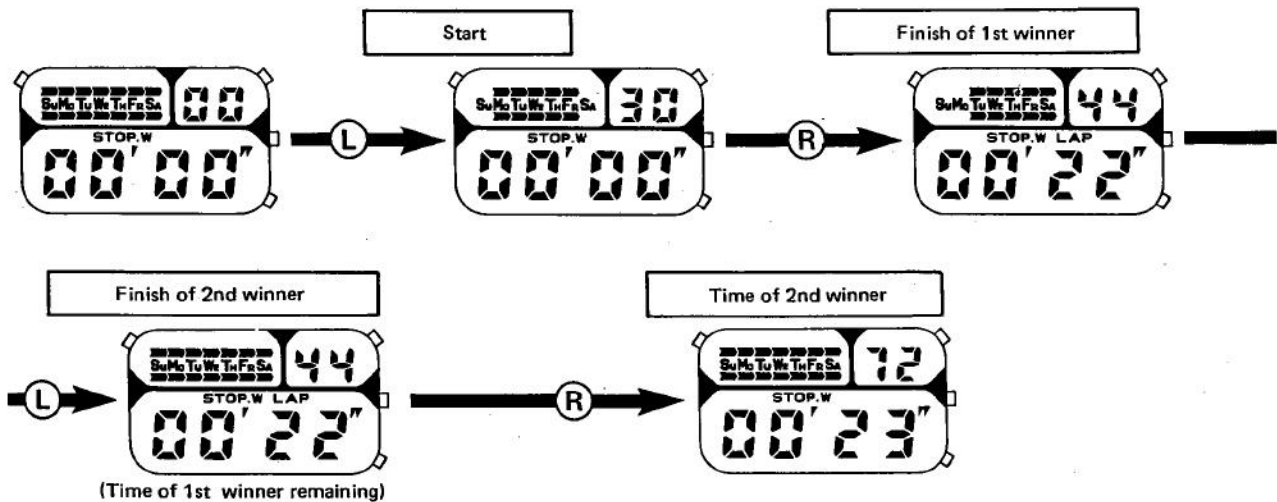


The timing starts again with push of (L) button after stop. And with repetition of the above simple timing, the "Integrating timing" becomes possible. (The stopping time means the loss time in the soccer game or the like.)

② Lap timing



③ Timing of 1st and 2nd winners

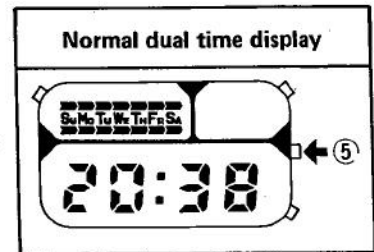
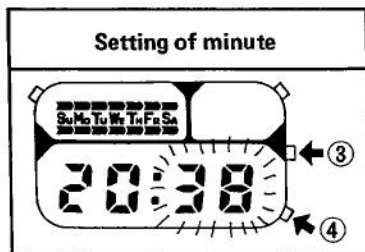
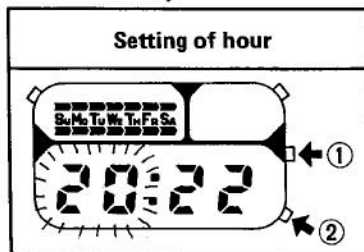


4. Setting of dual time



The description is based on the 24-hour display.

Normal dual time display
(No display of second and all day segments displayed)



The normal dual time display can be reset at any moment with push of (L) button.