

***TECHNICAL
INFORMATION***

**CITIZEN QUARTZ
Cal. No. 950※※**

 **CITIZEN**

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§1. OUTLINE







This is a multi-function digital quartz watch for gentlemen, which is developed to follow the Cal. No. 942-series watches.

§2. FEATURES

- 1) Power cell lifetime of over 5 years.
A long period of lifetime is realized for the power cell with application of a lithium cell.
- 2) Independent working of light button.
A light button is provided independently for an exclusive use of the illumination lamp.
- 3) No adjustment required for time rate
Owing to adaption of the DFC (Digital Frequency Control) method, no adjustment is required for the time rate on the market. An adjustment is already given completely to the time rate in the factory.

§3. SPECIFICATIONS

Caliber No.		9500A/B	
Type		Digital quartz crystal watch	
Measurement of module		Size: 27.00mm ϕ Thickness: 4.98mm (incl. power cell part)	
Accuracy		± 20 sec./month at normal temperatures	
Oscillation		32,768Hz	
Display method		FE-type nematic LC (liquid crystal) 2-split multiplex driving	
Integrated circuit		C/MOS-LSI (1 unit)	
Effective temperature range		0°C ~ +55°C (32°F ~ 131°F)	
Adjustment of time rate		DFC method (Unit time of measurement: 10 sec. with no terminal of adjustment)	
Display functions	Time		
	Displays at upper side	Calendar	Month, date & day
		Alarm	ON :  & set time OFF:  & OFF
		Stopwatch	 , minute, second & 1/100 sec. with lap function (60 min. count)
		Dual time	 , hour, minute & A/P
Additional functions		<ul style="list-style-type: none"> • Chime • 12-/24-hour switching function • Quick setting in correction mode • Alarm monitor • Illumination lamp • Fully automatic calendar (1980 ~ 2019) • Auto-return system • Instant manual return system 	
Power cell (Lithium cell)		Part No. : 280-204 (1 unit) Maker code : CR2016 (Li/MnO ₂) Size : 20.0mm ϕ x 1.6mm Nominal voltage: 3V Capacity : 65mAH Lifetime : About 5 years (3 sec. lighting of lamp, 20 sec. ring of alarm & 24 hourly chimes every day)	

(Note 1) The difference of the caliber Nos. between A and B is due to the difference of the colors of the light diffusing plates as follows.

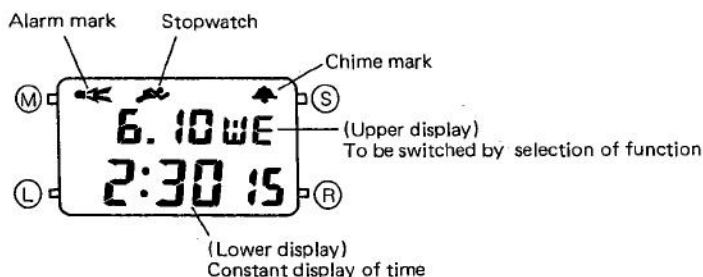
A: Silver color

B: Gold color

§4. HANDLING INSTRUCTIONS (The flashing is shown by ○.)

1) Nomenclature and functions

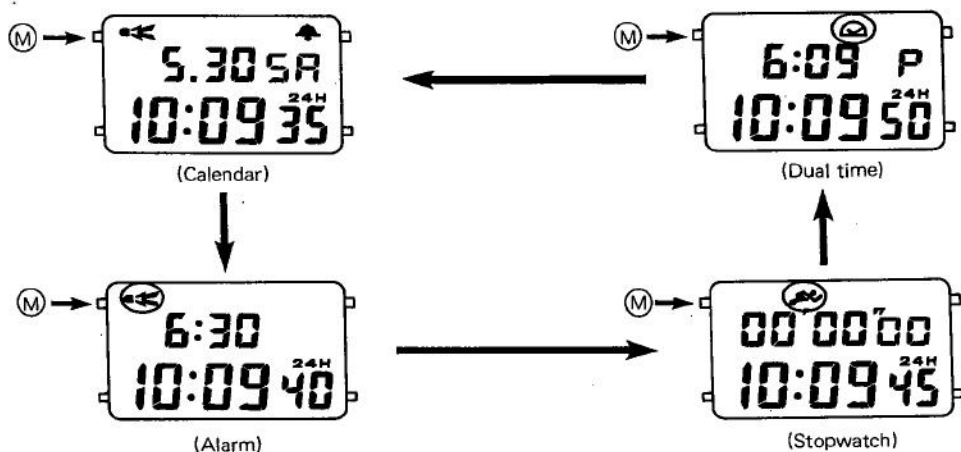
(Ex.) 2 : 30'15" (12-hour display)
 Wednesday, June 10
 Alarm & chime : ON
 Stopwatch: Running (Lap run) mode



(Note) The illumination lamp goes on in any mode of display by pushing (L) button.

2) Switching of displays

The displays are changed in the following sequence with every push of (M) button.



(Note) Instant manual return system

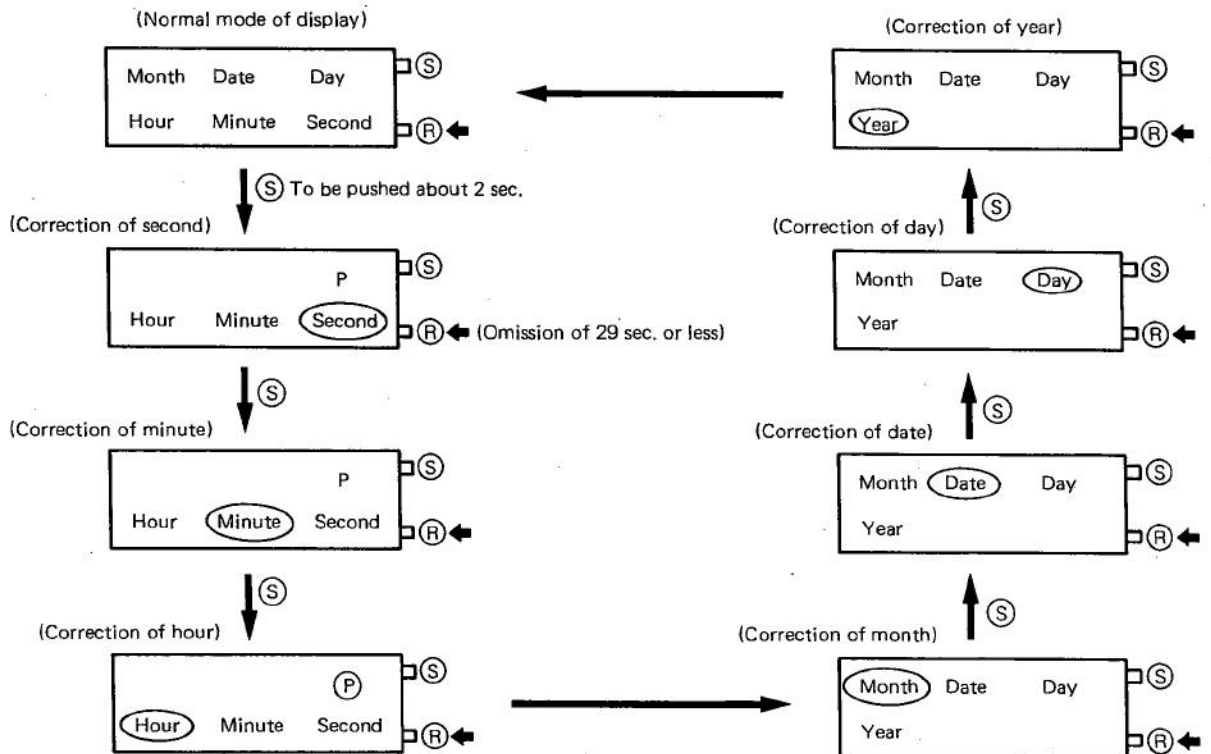
The calendar display is reset by pushing consecutively (M) button for about 2 seconds in any display mode. (including the correction mode)

3) Operation for calendar display

(1) Setting of time

The digit to be corrected is called out with push of (S) button, and then a correction is carried out by (R) button.

The (S) button is pushed consecutively for about 2 seconds only when the second correction mode is called out.



(Note 1) The normal display mode is reset with push of (M) button in each correction mode. (Instant manual return system)

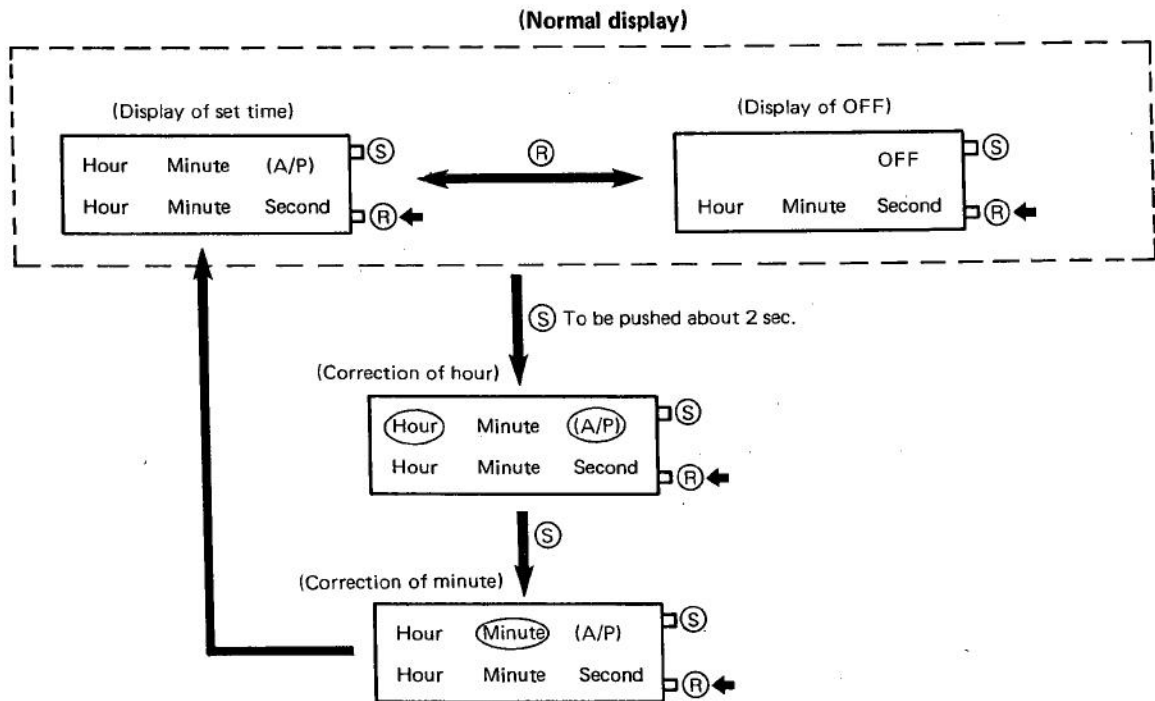
(Note 2) The normal display mode is reset automatically in 1 ~ 2 minutes in each correction mode if no operation is given to a push-button. (Auto-return system)


Other functions in time correction:

- ① A quick setting (8Hz) is possible by pushing (R) button consecutively for a second or longer in a correction mode. The same quick setting is also possible when the time is corrected in both the alarm and dual time modes.
- ② A non-existing date, if set, can be corrected automatically to the first day of the following month when the normal mode of display is reset.

4) Operation of alarm

(1) Setting of alarm time



(Note 1) The alarm mark () blinks at all times.

(Note 2) Additional functions:

- Instant manual return system
- Auto-return system
- Quick setting in each correction mode

(2) ON-OFF switching of alarm

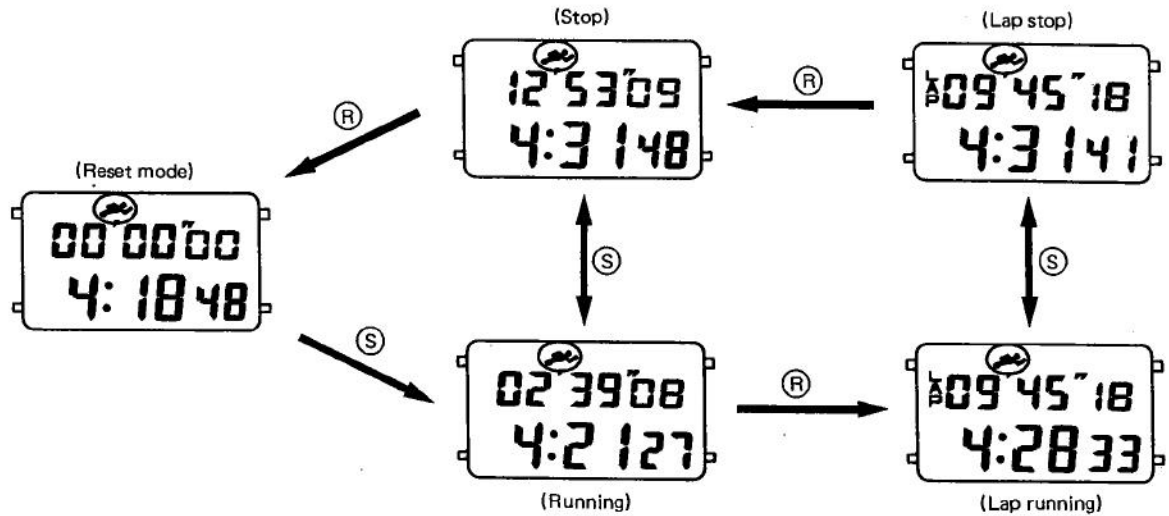
The ON and OFF of alarm are switched alternately with every push of \textcircled{R} button in the non-correction mode of alarm display.

a) Alarm ON

- Display of set time
- The alarm tone rings for 20 seconds.

5) Operation of stopwatch

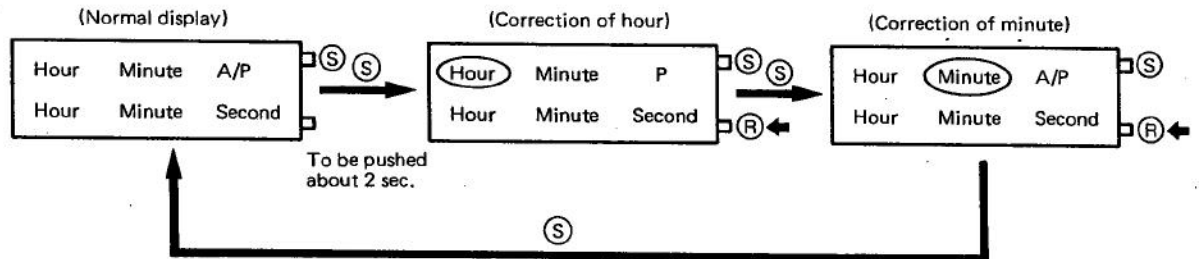
- Unit of counting: 1/100 sec.
- Maximum time of count: 59'59"99 (60 min. count)



(Note) A tone of confirmation is heard at a moment of start/stop of the stopwatch.

6) Operation of dual time

(1) Setting of dual time



(Note 1) A correction of minute is carried out in the 10-minute digit.

(Note 2) The dual time mark () blinks at all times.

(Note 3) Additional functions:

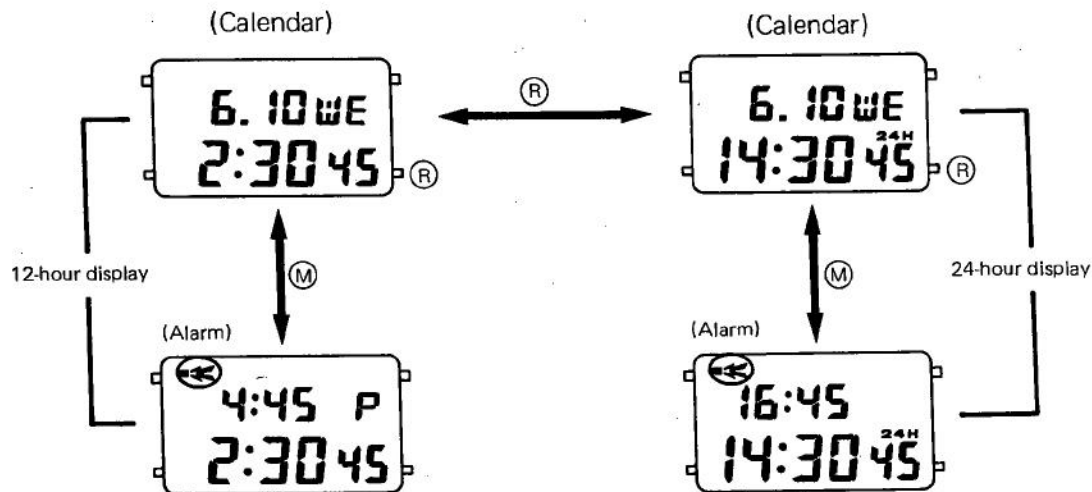
- Instant manual return system
- Auto-return system

7) Switching of 12 /24-hour displays

A switching is possible between the 12-hour and 24-hour displays in both the time display (calendar display) mode and dual time display mode. This time display system has a linkage between the normal time and alarm time displays.

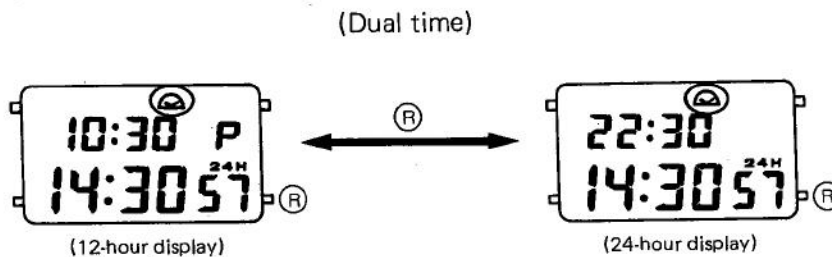
(1) Calendar/Alarm display

The displays are changed in the following sequence by pushing (R) button about 2 seconds.



(2) Dual time display

A dual time switching is done by pushing (R) button consecutively for about 2 seconds after obtaining the dual time mode with push of (M) button.




(Note) The time display system of the normal time mode is kept as it is and regardless of a switching of the dual time.

8) ON/OFF of chime and alarm monitor

The ON and OFF of the chime can be switched alternately with every simultaneous push of both (R) and (S) buttons in the normal mode of display.

(1) Chime ON

- The chime mark () glows only in the normal calendar display mode.
- The chime tone is heard twice and every hour on the hour.
- A monitor tone of chime is heard while both the (R) and (S) buttons are pushed simultaneously.

(2) Chime OFF

- The chime mark is turned off.
- No chime tone is heard.
- A monitor tone of alarm is heard while both the (R) and (S) buttons are pushed simultaneously.

Positions of buttons:

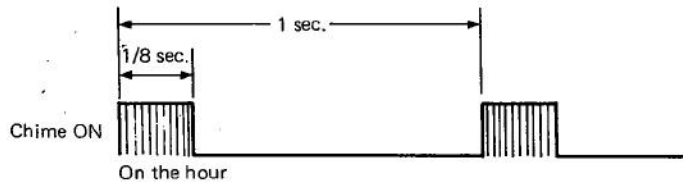
As shown in the diagrams below, the positions of push-buttons differ in two types of this caliber.

(Side position of buttons)

(Upper surface position of buttons)



(Note 1) Monitor of chime tone



(Note 2) Monitor of alarm tone

