

***TECHNICAL
INFORMATION***

CITIZEN QUARTZ

Cal. No. 483※※

 **CITIZEN**

■1. OUTLINE



This is a ladies' compact and thin-gage type digital quartz watch with multiple functions. It is developed to comply with the market demand for a digital watch for ladies with an inexpensive price.

■2. FEATURES

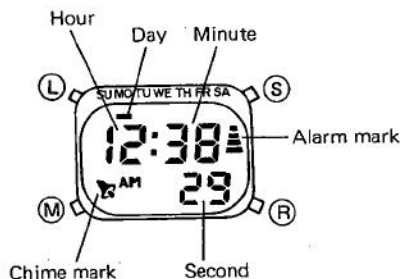
- (1) A compact and thin-gage digital quartz watch for ladies:
A unique and fascinating design is possible with a compact and thin-gage structure of module.
- (2) Multiple functions of display:
"Hour", "minute", "second", "AM/PM", "day", "alarm mark" plus "chime mark" are displayed on a display screen of a limited space. And these displays can be got at a look with no operation of buttons.
- (3) Alarm monitor:
An alarm sound can be heard at any moment by an alarm monitor function. At this moment, all display elements glow up on a display screen to contribute to a "full-segment checking"
- (4) Fully automatic calendar:
The calendar is automatically corrected and set for "month" and "date" excepting February 29 of a leap year.
- (5) Instant manual return:
The ordinary time display mode is secured in any mode of correction with a manual operation of a mode button.
- (6) 12/24-hour switching function:
The switching is possible between the 12-hour and 24-hour display modes according to the mode of living of the user. The alarm display mode is also switched in coupling to the 12/24-hour mode switching.
- (7) Stopwatch of 1/100 sec. timing:
The stopwatch is capable of timing down to 1/100 second. The timing changes to the 60-minute count along with a switch of display among "hour", "minute" and "second" after the timing of 30 minutes.
- (8) Illumination lamp:
An illumination lamp is incorporated to facilitate an easy readout of time even in a dark place.
- (9) Easy disassembly and assembly of module:
The disassembly and assembly of the module is facilitated since the number of component parts is extremely decreased with the grouping of these parts into blocks.
- (10) Nonstop working of about 2 years by a single unit of the silver oxide power cell:
The watch works continuously about 2 years by a single unit of the silver oxide cell thanks to the low power consumption of the electronic circuit.

■3. SPECIFICATIONS

Caliber Nos.		4830A-00
Type		Digital quartz watch
Size of module (mm)		18φ x 5.15 ^t
Accuracy		±20 sec./month at normal temp.
Oscillation		32,768Hz
Method of display		FE twist-type nematic LC (liquid crystal) display
Integrated circuit		C/MOS-LSI (1 unit)
Effective temp. range		0°C ~ +55°C (32°F ~ 131°F)
Adjustment of time rate		By trimmer condenser
Functions of display	Time	Hour, minute, second, AM/PM & day
	Calendar	Month, date, day
	Alarm	Hour, minute, A/P & set mark
	Stopwatch	Minute, second & 1/100 sec. (hour, minute & second after 30-min. timing)
	Chime	Set mark
Additional functions		Instant manual return
		Fully automatic calendar (Feb. 28)
		12/24-hour switching function
		Alarm monitor
		Illumination lamp
Power cell (Silver oxide)		Code : SR920W (Ag ₂ O/KOH) Size (mm) : 9.5φ x 2.1 ^t Nominal voltage : 1.55V Nominal capacity : 39mAH Maker : Hitachi Maxel Parts No. : 280-51 (1 unit) Lifetime : About 2 years (20 sec. alarm actuation, 24 hourly chimes & 3 sec. lamp lighting per day)

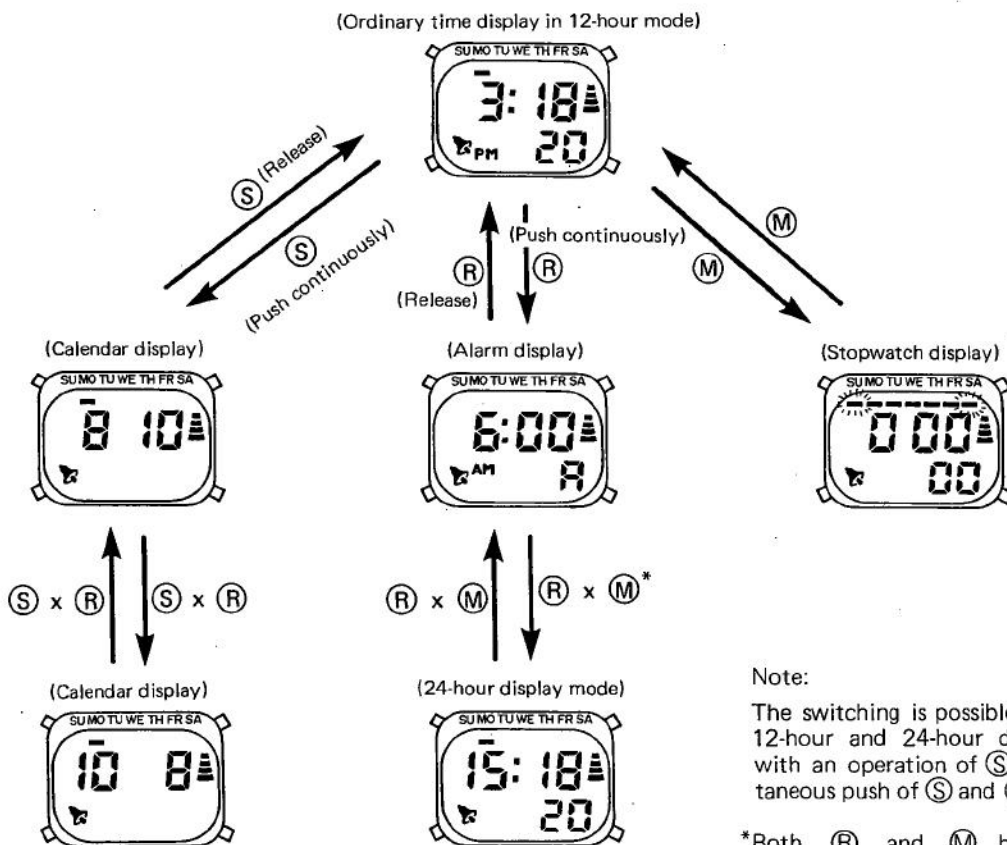
■4. HANDLING INSTRUCTIONS

4-1. Nomenclature and functions of push-buttons



- Ⓢ button (Selection button):
Selection of correcting digit; Calendar display; ON/OFF of alarm and chime; Start/stop of stopwatch
- Ⓡ button (Read set button):
Time setting; Alarm display; Alarm stop; Lap/reset of stopwatch
- Ⓜ button (Mode button):
Switching of mode; Shift of correcting digit; Instant manual return
- Ⓛ button (Light button):
Illumination button

4-2. Switching of display



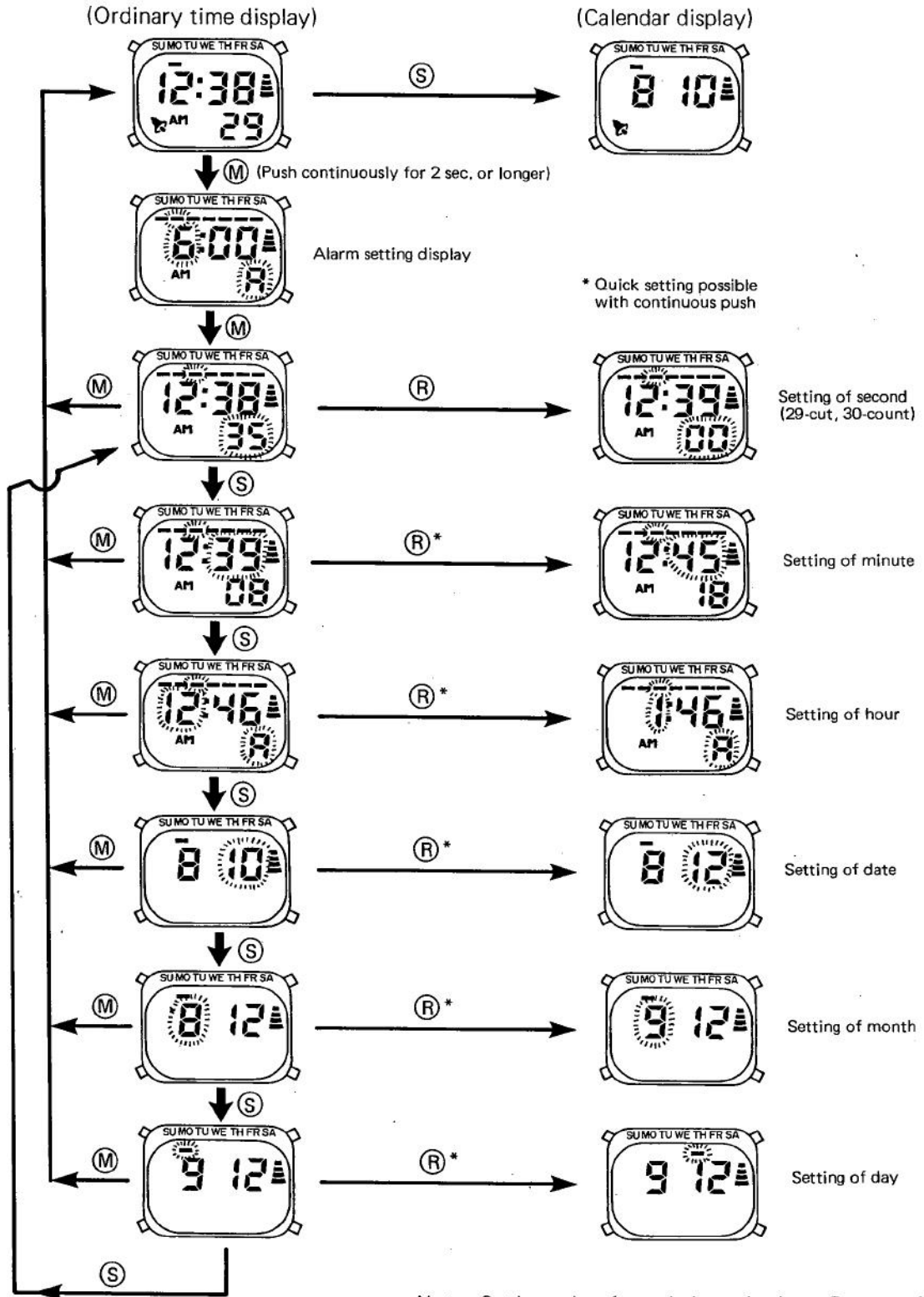
Note:

The switching is possible between the 12-hour and 24-hour display modes with an operation of Ⓢ x Ⓜ (simultaneous push of Ⓢ and Ⓜ buttons).

*Both Ⓡ and Ⓜ buttons are released after setting the alarm to the 24-hour display mode.

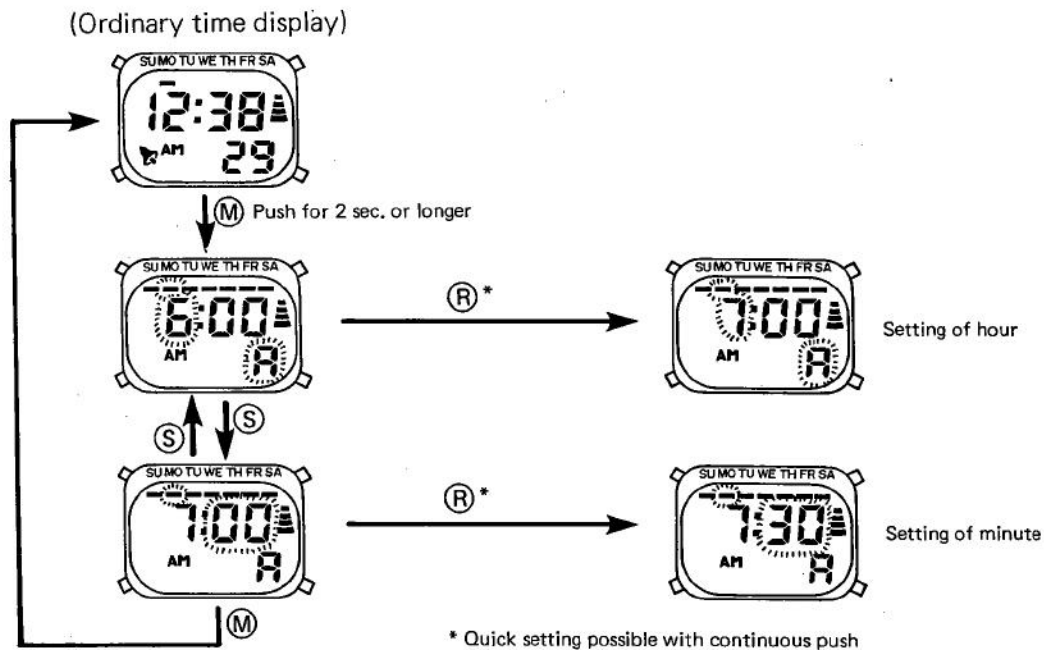
4-3. Setting method

(a) Correction/setting of time and calendar

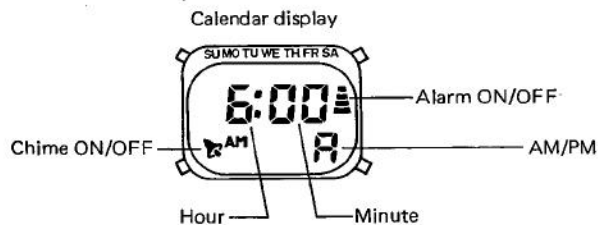


Note: Setting order of month-date calendar: Date → Month
 Setting order of date-month calendar: Month → Date

(b) Correction/setting of alarm



4-4. Setting of alarm and chime

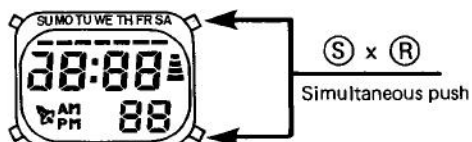


- The ordinary time display is switched to the alarm display with a continuous push of R button.
- The alarm and chime can be set with an operation of S button while pushing R button continuously.

S button	ALARM	CHIME
One push	OFF	OFF
Two pushes	OFF	ON (A)
Three pushes	ON (A)	ON (A)
Four pushes	ON (A)	OFF

- * The alarm sound is stopped with a push of R button.
- * The alarm rings for 20 seconds.

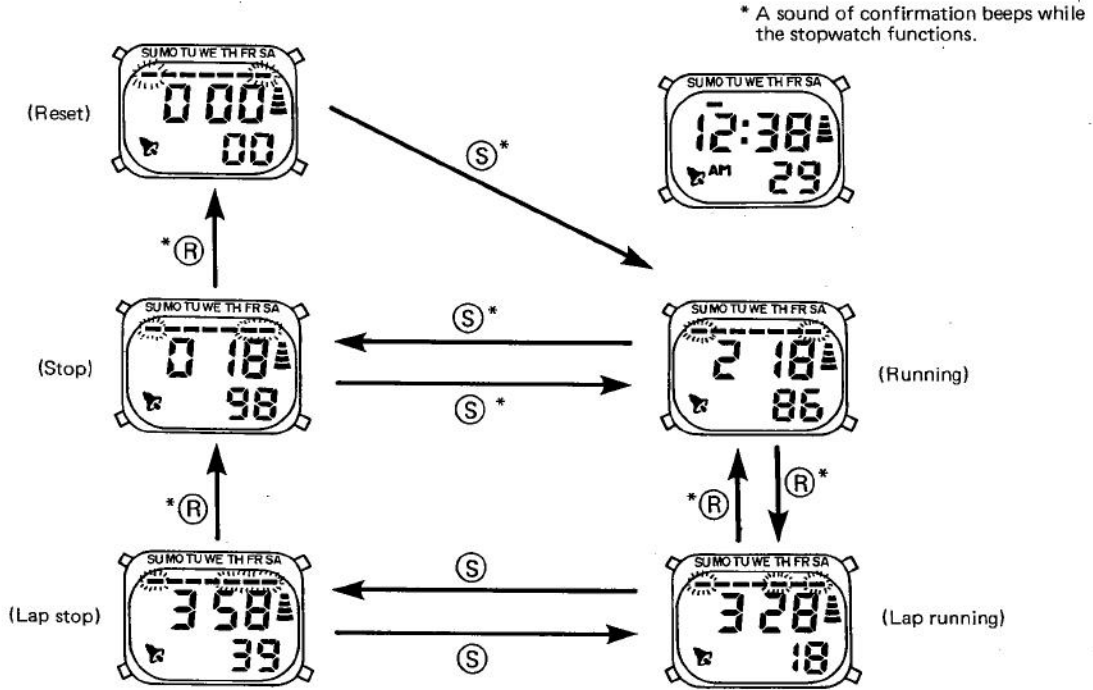
4-5. Alarm monitor



- With a simultaneous push of S and R buttons in the mode of ordinary time display, all display elements glow up on the display screen (fullsegment checking mode) for the monitor of the alarm sound.

4-6. Operation of stopwatch

(Ordinary time display)



Note: The above diagrams show the timing states changing from 0'00''00/100'' to 29'59''99/100''. The displays after 0 30'00/100'' are shown below.

• Running mode	Flashing of Sunday; Glowing of colon	Reset	0' 00'' 00/100''
• Lap running mode	Flashing of Sunday & Thursday; Glowing of colon	Start	0' 00'' 01/100''
			0' 59'' 99/100''
			1' 00'' 00/100''
• Lap stop mode	Flashing of Sunday, Thursday & Friday; Glowing of colon		29' 59'' 99/100''
			0H: 30' 00''
• Stop mode	Flashing of Sunday & Friday; Glowing of colon		23H: 59' 59''
			0H: 00' 00'' (Per day)