

***TECHNICAL  
INFORMATION***

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**CITIZEN QUARTZ**

**Cal. No. 485❖❖**

 **CITIZEN**

**■1. OUTLINE**

This is a ladies' digital quartz watch and especially developed to be one of the leading models on the market of the ladies' digital quartz watches with reasonable prices.

It features multiple functions which are exactly identical with Cal. No. 4830A with exclusion of both alarm and chime functions.

**■2. FEATURES**

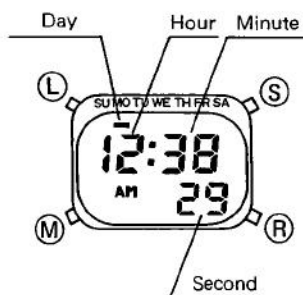
- (1) A compact and thin-gage digital quartz watch for ladies:  
A unique and fascinating design is possible with a compact and thin-gage structure of module.
- (2) Multiple functions of display:  
"Hour", "minute", "second", "AM/PM" and "day" are displayed on a display screen of a limited space. And these displays can be got at a look with no operation of buttons.
- (3) Fully automatic calendar:  
The calendar is automatically corrected and set for "month" and "date" excepting February 29 of a leap year.
- (4) Instant manual return:  
The ordinary time display mode is secured in any mode of correction with a manual operation of a mode button.
- (5) 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.
- (6) 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.
- (7) Illumination lamp:  
An illumination lamp is incorporated to facilitate an easy readout of time even in a dark place.
- (8) 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.
- (9) Nonstop working of about 2 years by a single unit of silver oxide 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	4850A-00	
Type	Digital quartz watch		
Size of module (mm)	18φ x 5.15 <sup>t</sup>	18φ x 5.05 <sup>t</sup>	
Accuracy	±20 sec./month at normal temp.		
Oscillation	32,768Hz		
Method of display	FE twist-type nematic IC (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	X
	Stopwatch	Minute, second & 1/100 sec. (hour, minute & second after 30-min. timing)	←←←←
	Chime	Set mark	X
Additional functions	Instant manual return		←←←←
	Fully automatic calendar (Feb. 28)		←←←←
	12/24-hour switching function		←←←←
	Alarm monitor		X
	Illumination lamp		←←←←
Power cell (Silver oxide)	Code : SR920W (Ag <sub>2</sub> O/KOH) Size (mm) : 9.5φ x 2.1 <sup>t</sup> Nominal voltage : 1.55V Nominal capacity : 39mAH Maker : Hitachi Maxel Parts No. : 280-51 (1 unit) Lifetime : About 2 years (3 sec. lamp lighting per day)		

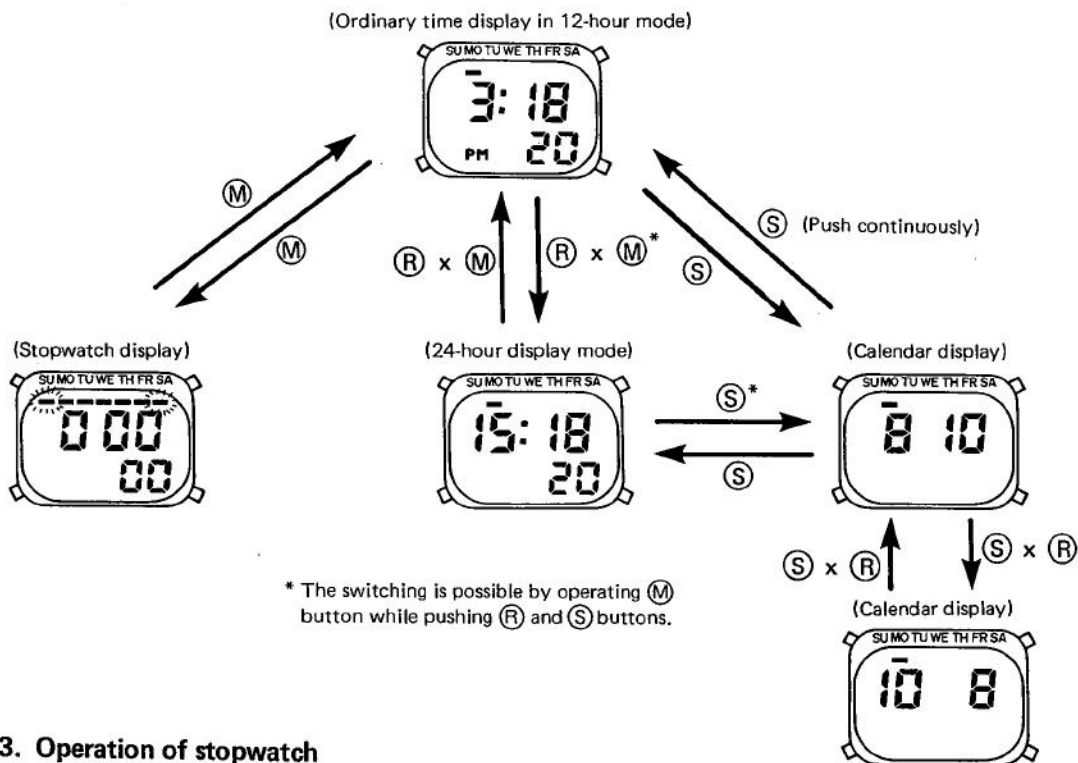
### ■4. HANDLING INSTRUCTIONS

#### 4-1. Nomenclature and functions of push-buttons

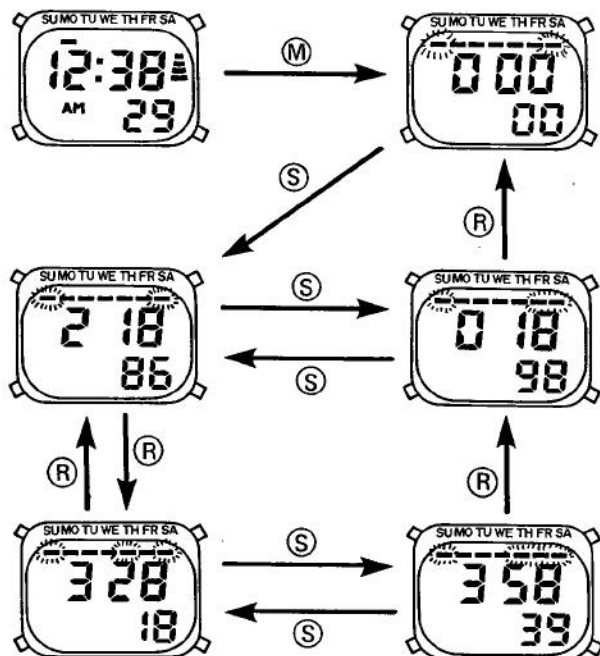


- Ⓢ button: Selection of correcting digit; Calendar display; Start/stop of stopwatch
- Ⓡ button: Time setting; Lap/reset of stopwatch
- Ⓜ button: Switching of mode; Shift of correcting digit; Instant manual return
- Ⓛ button: Illumination lamp

4-2. Switching of display



4-3. Operation of stopwatch



Note:

The left diaphragms 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
- Lap running mode .... Flashing of Sunday, & Thursday; Glowing of colon
- Lap stop mode ..... Flashing of Sunday, Thursday & Friday; Glowing of colon
- Stop mode ..... Flashing of Sunday & Friday; Glowing of colon

Reset	0'	00''	00/100''
Start	0	00	01/100
	0	59	99/100
	1	59	00/100
	29	59	99/100
	0	: 30'	00''
	23	: 59	59
	0	: 00	00

(Per day)

4-4. Setting method

- Setting of time and calendar

