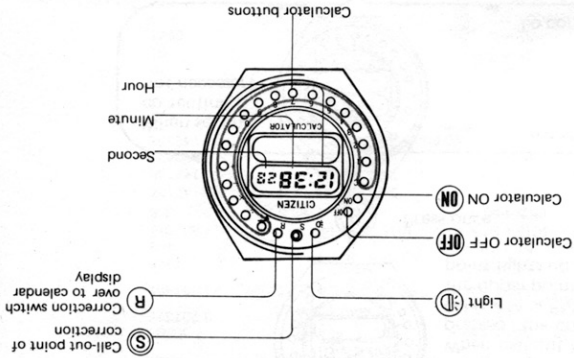
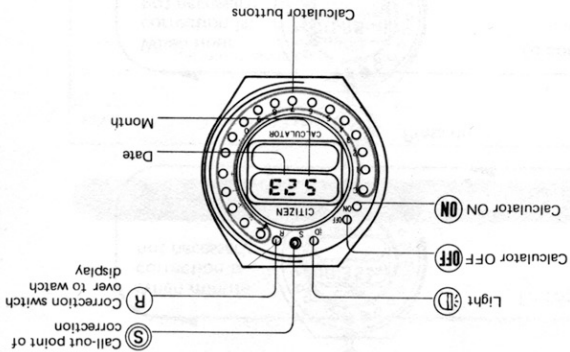


INSTRUCTION IN USE OF BUTTONS

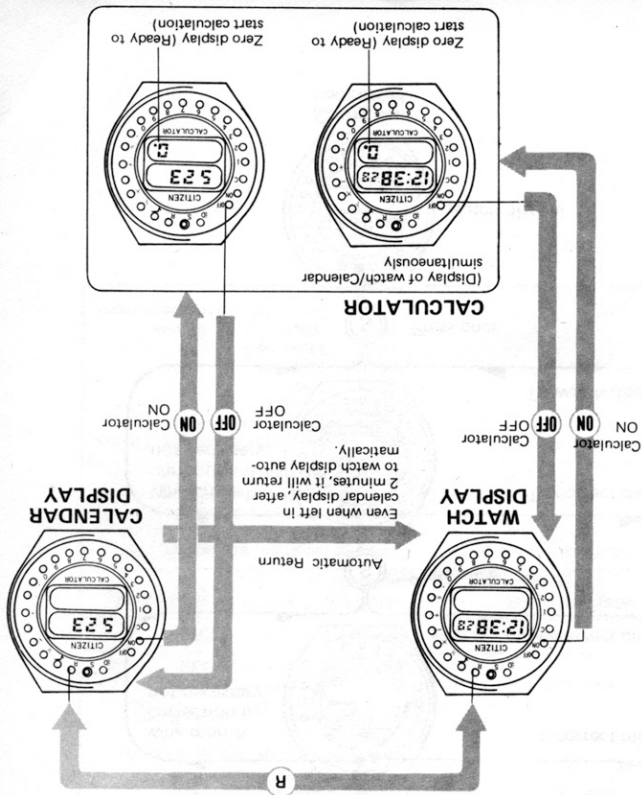
WATCH DISPLAY



CALENDAR DISPLAY



HOW TO SWITCH FUNCTIONS





# HANDLING INSTRUCTIONS FOR CALCULATOR

## 1) Push-button explanation

Will clear all content (operation value, calculation orders) of the calculator. Error corrections can be done only with this button.

## ⑨ Storage button

Button to store values necessary for calculations.

## ⊙ Decimal point button

Button to secure decimal point indication. To store a value less than 1 (example 0.12) it will not be necessary to press ⊙ button.

Example 1.23 - ① ② ③

## ⊖ Equal button

A button to secure the final operation result

## ⊕ Plus button

## ⊖ Minus button

## ⊗ Multiplication button

When any of these buttons are pressed repeatedly, only the final press will become set.

## √ Square root button

Ⓝ Button to secure extraction of a square root.

It is a button that switches the electric power on or off. When ⊕ is pressed, the zero (0), will appear on the display and the calculator is ready for use. When ⊖ is pressed, the calculator display will disappear. (The electric power of the calculator will be cut off).

## 2) Symbol explanation

E . . . . . Error

Ⓝ When divider is Zero

Ⓝ Example ⑤ ÷ ①

Ⓝ When operation result exceeds 8 figures (above decimal point)

Ⓝ Minus square root

Ⓝ Example ② - √ ⑤

Ⓝ Minus symbol

Ⓝ Example ② - ⑤

Ⓝ When operation result is minus display

## 3) Before starting calculation

- Press ⊕ button until zero appears on the display panel. The button will remain in pushed-in.
- Proceed with the calculation after confirming the zero on the display.
- Any pressing mistake of the 4 buttons ⊕ ⊖ ⊗ ⊘ will be corrected by merely re-pressing the correct button. Example when ⊗ is pressed instead of ⊕ for 123 ⊕ 4

123 ⊗ 4 ⊕ 4 = 127.

- When you wish to continue the calculation, be sure to press ⊕ button before proceeding to your next calculation. Press the button, wait for the zero to appear on the display and then start with your calculation.
- Press buttons with a light touch
- Upon completing the calculation press the ⊖ button

- When ⊖ button is pressed, the ⊕ button will return to its original up-right position from the pushed-in position and all of the display on the calculator side will disappear.

## 4) Operation example

Calculation formula	Button operation	Display (Answer)
Additions & Subtraction	123 ⊕ 456 = 123 - 456 =	579
	987 ⊕ 654 - 321 =	333 - minus display
Subtraction (per calculation formula)	123 ⊖ 456 =	1320
Multiplication & Division (per calculation formula)	123 × 456 =	56088
	456 ÷ 123 =	3.707317
Constant	51 × 26 =	1326
	51 × 19 =	969
Multiplication and constant	1015 × 57 =	17.807017
Division	85.5 ÷ 57 =	1.5
Root	√ 2 =	1.4142135
	√ 2 + 2 =	3.4142135
Power	2 <sup>2</sup> =	4
	2 <sup>3</sup> =	8
	2 <sup>n</sup> =	2 <sup>n</sup>
	3 <sup>2</sup> =	9
	3 <sup>n</sup> =	3 <sup>n</sup>
Calculation	3 × 3 =	9
	3 × 3 ⊗ 3 =	27
	3 × 3 ⊗ 3 ⊗ 3 =	81
	3 × 3 ⊗ 3 ⊗ 3 ⊗ 3 =	6561
	3 × 3 ⊗ 3 ⊗ 3 ⊗ 3 ⊗ 3 =	3 <sup>3</sup>
Reciprocal	(12 + 34) × 56 =	33.025641
	12 ⊕ 34 ⊗ 56 ⊕ 78 =	33.025641
Continuous calculation	2 × 3 + 4 =	0.5
	2 × 3 ⊕ 4 ⊕ 5 =	0.5

## SPECIFICATIONS

Model	Citizen Quartz Cryston LC with Calculator
Caliber No.	9090A
Type	Digital (liquid crystal) display
Movement	Diameter: 38.6mm Thickness: 9.0mm
Oscillation	32,768Hz
Accuracy	±10 sec./month under normal temperature
Display system	FE twist-type nematic LC display
Display factors	Constant digital display of "hour", "minute" and "second", "Date" and "month" display by push-button operation Operation result display up to 8-digits
Display correction	Independent correction of each digit by push-button operation (watch)
Effective temperature range	+5°C (41°F) ~ +50°C (122°F)
Integrated circuit	C/MOS-LSI: 3 units (1 for watch: 2 for calculator)
Additional mechanisms	Calculator (addition, subtraction, multiplication & division plus root, etc., Automatic month-end calendar correction Built-in illumination lamp
Power cells	Small-size silver oxide power cell: 3 pieces (1 for watch, 2 for calculator) Parts No.: 280-21 Voltage: 1.5V Capacity: 120mAh Size: 11.6mmφ X 4.2mm Life: Watch: 2 years or more Calculator: 330 hours or more