



OPERATION INSTRUCTIONS

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Thank you very much for your selection of your ultra-compact CALCU-PEN pen type electronic calculator. Please completely read these operation instructions for most correct use and longest service.



OPERATION NOTES

Because this electronic calculator includes LSI's, IC's, and other ultra-small precision components, be sure to

carefully note the following information.
Never attempt to disassemble the calculator body.
Be careful not to throw the unit, drop it or subject it

- to strong impact shock.

 * Be sure to avoid such causes of damage as extreme changes in temperature, direct sunlight, humidity,
- and dust.
 * If the unit is not used for a month or more, be sure to remove the battery from the unit. Also be sure not to leave a completely consumed battery inside

Use a dry, soft cloth to clean the unit. Never attempt to use volatile chemicals, such as thinner or benzine, nor a wet cloth for cleaning.

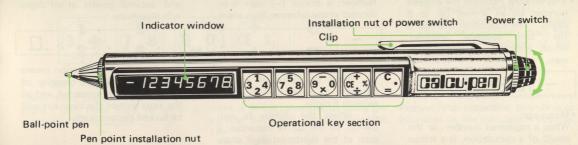
CAUTION!When battery power decreases to a low level, it may affect the performance.

Check to be sure that the ON-OFF switch is at the "ON" position. "O" should appear at the right hand display position.
 Press the "8" key eight times. If the display does not show "88888888" (example "8888 "), the

battery should be replaced.

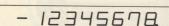
the unit.

■ PARTS IDENTIFICATION



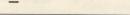
■ EXPLANATION OF INDICATIONS IN THE INDICATOR WINDOW

* This window indicates the entered number or an answer up to 8 digits. The indication method is the "zero suppress" method, which indicates no unnecessary zero.



* Minus sign
When a registered number, or the result of a calculation, is a minus

number, a minus (-) sign is indicated at the leftmost digit place.



- *Overflow indication

 1. When the range of integral
- 1. When the range of integral numbers of a calculation result exceeds 8 digits
- 2. When the divisor is zero (A–O). In the above instances, a zero at the rightmost digit place

and decimal points at all digits will illuminate.

*The "overflow" indication means that the calculation capacity of the calculator is exceeded, and all the keys except the clear key will be locked electronically.

EXPLANATION OF INDICATIONS ON OPERATIONAL KEYS











(decimal-point key) When entering a figure which has a decimal point, push this key at the position of the decimal point.

1 - 9 and 0 (number keys)

These keys indicate the respective digits. Use these keys to enter a number in the calculator.

To "register" a number is to enter a +-x; % = (calculation function keys) number in the calculator by using the Push at the respective positions as number keys and the decimal-point key.

indicated in the calculation formula.



Plus Key

+ Push when adding.



Minus Key

- Push when subtracting.



Multiplication Key

X Push when multiplying.



Division Key

+ Push when dividing.



Percent Key

% Push when multiplying or dividing by 1/100.



Equal Key

Push to receive the answer



Clear Key

C This key is used to completely clear the conditions inside the calculator. This key is also used to clear an "overflow" error



Clear-entry Key

CE This key is used to clear an incorrectly registered number. If an incorrect number is entered, the incorrect number only can be cleared by pushing this key. Note, however, that this clearing is impossible after an answer is given or immdiately after a calculation function key is depressed.

EXPLANATION OF THE OPERATIONAL KEYS (How to operate the keys)

Unlike ordinary portable electronic calculators, the operational keys of this unit have a special four-in-one type construction. For your actual use, however, their functions are the same as those of ordinary electronic

calculators. It is possible to enter the desired number, or to command, by pushing the key in the appropriate direction.

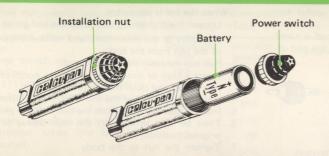
As shown in the figure, lightly place the tip of the index finger on the recessed part of the key, and operate each function by pushing the finger toward the desired position: up, down, right or left.







■ HOW TO INSERT AND REPLACE THE BATTERY



 Loosen the installation nut of the power switch as shown in the figure, and remove the power switch.

2. Insert the battery in the battery holder inside the case with the posi-

tive (+) side facing outward.

3. And install the power switch by tightening the nut.

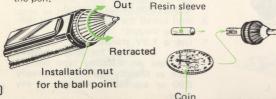
terming the Idd.

Use a 1.5V standard "N" type battery. However, for longer battery life, use an Alkaline type battery such as Mallory Mn-9100, Eveready E90 or equivalent available at any store.

EXPLANATION OF THE PENSECTION

This unit also includes a ball-point pen useful for memos at meetings or for calculations.

The ball-point of this pen can be easily pushed out and retracted by turning the conical knob on the end of the pen.



REPLACEMENT OF THE BALL-POINT PEN

When the ink is consumed

- Loosen the tightening nut when the ball-point pen protrudes to the maximum, and remove the point of the pen from the body.
- Pull out the resin sleeve backward.
- Insert a coin or similar item into the notch of the pen holder and push the ink refill forward.
- 4. Holding the point of the ink refill, pull it outward.5. Insert a new ink refill from the point of the pen.
- Then be sure to re-insert the resin sleeve to the original position.
- 7. Tighten the nut to the body.

CALCULATION METHOR	CA	LCU	LATIO	N MET	HOD
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For precise calculation results....

window

123.

123.

456.

579.

79.

500.

*	Before calculation, note that the
	following operations should be
	confirmed, after the power switch
	is on.
*	Power switch on zero in

	the	
1	be	
۷i	tch	

* Addition and subtration Ex.1 123 + 456 - 79 = Operation Indicator

Operation kev

56

+

16

Ex.2 -56 + 100 + 16 =Indicator

window

56.

44.

16.

60.

Remarks

operated.

dication * 1.1111111 x = - \rightarrow 1.2345678 * The limit of registered figures is 8 digits. No more figures will register, regardless of how many additional times the keys are

key 123

456

79

Remarks

Answer

100

100.

56.

Answer

* Multiplication and division Fy 1 56 x 78 x 3 =

EX. 1 30	x /8 x
Operation	Indic
key	winc
FC	F/

cator

Remarks

 $-56 \times 78 \times 22 =$

-4368.

-9609.6

2.2

Ex. 3

 $98 \div 2 \times 7.6 =$

Remarks

Indicator

window

wob 56 56. 56. X 78 78. 4368. 3. 13104. Answer

78

X

2.2

=

Ex. 2 Operation Indicator key window 0. 56 56.

56. 78.

Remarks Answer

Operation key 98 ÷ X 7.6

98. 98. 49. 7.6 372.4 Answer

* Mixed calculations

Ex. 1 $(12 + 3 - 45) \times 6 \div 7 =$

Operation key	Indicator window	Remark
12 + 3 - 45 × 6 ÷ 7	12. 12. 3. 15. – 45. – 30. 6. – 180. 7. –25.714285	Answei

* Calculation with constant numbers

Ex. 1 Multiplication with constant numbers

	Operation key	Indicator window		
2 x 3	2 x 3 =	6.		
2 x 8	8 =	16.		
2 x 9	9 =	18.		
2 x 12	12 =	24.		

Ex. 2 $3 \times 6.5 = 19.5$ $3 \times 7 = 21$

		Operation key	Indicator window
3 x	6.5	3 x 6.5 =	19.5
3 x	7	7 =	21.
3 x	13	13 =	39.
3 x	15	15 =	45.

* Division with constant numbers Ex. 1

* Calculation of power

Ex. 1

* Calculation of percentages

Ex. 1

Operation Indicator kev window 100 ÷ 2 100 ÷ 2 = 50. 50 ÷ 2 50 = 25. 40÷2 40 = 20. 25÷2 25 = 12.5

	Operation key	Indicator window	Remarks
	1.1 ×=	1.21	2nd power
$1.1^{3}=$	-81 =	1.331	3rd power
1.14=	.81 =	1.4641	4th power
1.15=	45 =	1.61051	5th power

	Hersattan	free a sept
Operation key	Indicator window	Remarks
160	160.	8, ,
×	160.	
23	23.	
%	36.8	Answer

23% of \$160 =

Answer: \$36.80

Ex 2 \$3	36.80 = 23%	of?	Ex 3 W	/hat percenta	ge is \$36.80	Ex 4 11	2% of \$180	=
* To calcu	ulate back to	the previous	0	f \$160. ?			tengri or me sayesii coresiona, s	Cuercion
Operation key	Indicator window	Remarks	Operation key	Indicator window	Remarks	Operation key	Indicator window	Remarks
36.80	36.80		36.80	36.80	Se 1871hao	180	180.	+
÷erq ,exi	36.80		÷	36.80		X	180.	
23	23		160	160.		112	112.	
%	160	Answer	%	23.	Answer	%	201.6	Answer
Answer: \$	160.		Answer: 2	3%	76 keys	Answer: \$	201.6	

Correction of registered numbers

Ex. 1 Correct "123 + 456" to "123 + 465":

Operation key	Indicator window	Remarks
123	123.	
+	123.	50. 081
456	456.	25. x
CE	0.	Correction
465	465.	
=	588.	Answer

Note: The reginumber cannot be corrected after a calculation, nor just after pressing the x, +, -, =, and

stered

% keys.

Ex. 2	Correct "123 ÷ " t		
Operation	Indicator	Rema	

key	window	Remarks	
123	123.	PART OF VENE	If a function key
÷	123.		$(x, \div, +, -)$ is is operated by
×	123.		mistake, press
2	2.		the correct func-
=	246.	Answer	tion key for cor- rection.
2012	NOBA		

SPECIFICATIONS OF CALCU-PEN

Digital indication: Calculation digits:

8 digits (decimal places: =7 digits) Calculated numbers: 8 digits Calculating numbers: 8 digits Answer: 8 digits (decimal places:

7 digits) Decimal point method: Floating system

Minus sign included Symbol:

Three registrations in series Registration: **Arithmetic functions:**

Addition, subtraction, multiplication, Operation temdivision, continuous multiplication and division, constant multiplication and division, calculation of squares, reverse calculation, mixed calculation, calculation of powers, calculation of percentages, reduction and premiumrate calculations

One 1-chip LSI and others Elements: Indication elements: LED (light-emitting diodes) 9 digits

DC 15V (0.15W) Power source: One single-type dry cell

Alkaline dry cell "N" type Operation time: Continuous use time (indication 5555):

perature range: Accessories:

 $0^{\circ} \text{C} \sim 40^{\circ} \text{C}$

Operating instructions, one dry cell(N). one ink refill for the ballpoint pen,

2 hours (time may vary slightly

depending upon kind of dry cell.)

LIMITED WARRANTY

THE CALCU-PEN IS WARRANTIED TO THE ORIGINAL PURCHASER FOR FREE REPLACEMENT OR REWORK OF DEFECTIVE MATERIALS AND WORKMANSHIP FOR 90 DAYS FROM DATE OF PURCHASE. THIS WARRANTY DOES NOT APPLY TO PACKING MATERIALS, BATTERRY, BALL POINT PEN APPEARANCE ITEMS, NOR TO MISUSE OR ABUSE. THE CALCU-PEN MUST BE SENT TO THE POINT OF YOUR PURCHASE WITH DATED PROOF OF PURCHASE HOWEVER AFTER 90DAYS WARRANTY PERIOD. CONTACT FOLLOWING ADDRESS FOR REPAIR. TRU-PHONIC SOUND, INC. 3100 WEST RANDOLPH ST

> BELLWOOD ILL. 60104 TEL (312) 544-4100