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OPERATION MANUAL MANUAL DE OPERACION

CASIO PF-8000

Special care should be taken not to damage the unit by bending or drop plan. For example, do not carry it in your hip pocket.





Dear customer,

Thank you very much for purchasing the Casio PF-8000.

This is a highly portable 10 digit electronic calculator capable of storage/recall in the two separate categories, namely, telephone numbers and memorandum. Please read this instruction manual carefully so that you can fully understand each of the calculator's functions and handle it properly.

*Special care should be taken not to damage the unit by bending or dropping. For example, do not carry it in your hip pocket.

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Contrast Adjustment

RAM Pack for Expansion (option)

Each Section's Nomenclature and Operation

MEMO function 36

Prior to Use

This calculator has been manufactured using Casio's advanced electronics technology under strict quality control conditions.

■Use precautions and prize place the batteries as soon as possible using the amount of the precautions and prize precautions.

• This calculator is composed of precision electronic components. Never attempt to take it apart. Avoid shock such as throwing or dropping. Do not subject it to sudden temperature changes. Do not leave or store it in hot, humid or dusty places. At low temperatures the display may have a slower response or fail to light up. It will return to normal when the temperature becomes normal.

below. If the old batteries are not replaced, memory may be lost, Even when the cal

 Replace the batteries at least every 2 years even when the calculator is not used. Do not leave old batteries in place since the electrolyte may leak out and cause damage.

Avoid using thinner, benzine or other volatile, liquid to clean the calculator. Wipe it
with a dry cloth or a cloth dipped in a neutral detergent and wrung dry.

 When strong static electricity is applied to this calculator, the display contrast may weaken or functions may not work properly. In such cases, remove and reinstall the main batteries then resume normal operation.

CAUTION: USE FINGER ONLY

Characters should only be drawn on the screen by finger.

Avoid using a pointed object as it could damage the screen or internal circuit.

Power Supply and Battery Replacement

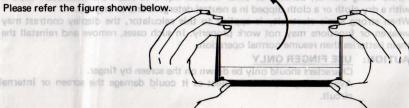
The calculator uses two CR2032 lithium batteries for calculation/diaplay. It also uses one CR1220 lithium battery for memory backup. If display contrast is low even when the contrast control (p. 8) adjusted to the maximum, it indicates that the batteries have become weak. Replace the batteries as soon as possible using the procedure described below. If the old batteries are not replaced, memory may be lost. Even when the calculator functions normally, replace batteries every 2 years.

Avoid shock such as throwing or dropping. Do not subject it to sudden tem-

■ How to replace the batteries: "I Jod ni it enote to evesi ton of .zegnado enuteran

Calculation/display batteries

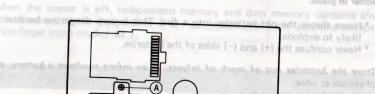
(1) Turn off the power switch, remove the two screws on the back of the unit and take off the back cover.



- (2) Remove screw (A) and remove the battery-retaining plate.
- (3) Take out the both old batteries.
- (4) Wipe the surfaces of the two new batteries well with a dry cloth and insert them with their (+) sides (flat sides) on top.
- (5) Hold down the new batteries with the battery-retaining plate and replace screw (A).

ip are removed at the same time, the memory contents will be lost. Be sure to kee

(6) Hook the back cover claw to the main body and replace the two screws. * Be sure to replace both batteries.



* Never confuse the

2. Memory backup battery

Turn off the power switch and follow the same procedure as in the case of main battery replacement, beginning by removing screw (B). Replace this auxillary battery every 2 years irrespective of main battery replacement.

Note:

If the main batteries for calculation/display and the auxiliary battery for memory back up are removed at the same time, the memory contents will be lost. Be sure to keep either in place.

* Never throw the old batteries into a fire. This is very dangerous because they are likely to explode.

* Never confuse the (+) and (-) sides of the batteries.

Store the batteries out of reach of infants. If an infant swallows a battery, consult a physician at once.

Auto Power Off

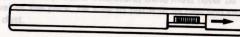
This is an automatic power saving function for preventing wasteful power consumption that will result should you forget to turn off the power switch. The power supply is automatically cut off about 6 minutes after completion of operation. In this case, power can be resumed by pressing the Ac key or turning the power switch off and then on again.

*Even when the power is off, independent memory and data memory contents are retained. However, mode designations (, , , , , etc.) are canceled except that of the finger input mode (). Josq enti-gnilloned enoted enoted the state of the finger input mode ().

object to discharge the electrostatic charge contained in your body.

Contrast Adjustment

urn off the power supply. (Power switch - OFF) Adjustment of display contrast can be performed using the adjustment control located on the right side of the unit. Turn in the direction of the arrow to increase contrast. Turn in the opposite direction to reduce contrast. This is used to compensate contrast of the display in accordance with battery capacity or to adjust to compensate for the viewing angle.



RAM Pack for Expansion (option)

The RAM area of this calculator's data memory is 929 characters (approximately 1 kilobyte), but the addition of the optional RAM Pack (OR-20) increases the area to 2977 characters (approximately 3 kilobytes).

■ How to install the RAM pack (OR-20)

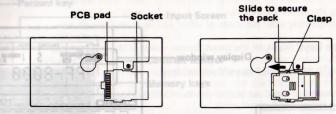
Preparation > nomen atab and your memory and data memory and data memory control of the contr If the RAM pack is handled carelessly, its internal circuit may be destroyed by static electricity. Therefore, before handling the pack, touch a door knob or other metallic object to discharge the electrostatic charge contained in your body.

<Procedure>

- 1) Turn off the power supply. (Power switch → OFF)
- 2) Remove the two screws on the back and take off the back cover. (See page 5)

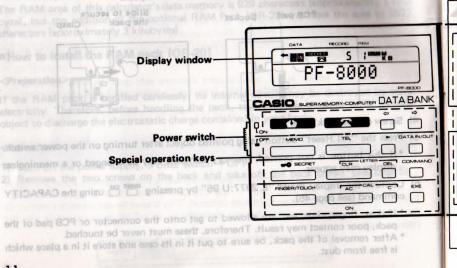
on the right side of the unit. Turn in the direction of the arrow to increase contrast Turn in the opposite direction to reduce contrast. This is used to compensate contrast of the display in accordance with battery capacity or to adjust to compensate for the viewing angle.

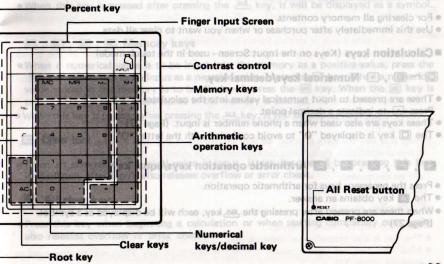
- 3) Move the clasp of the RAM pack downward. Insert the pack in the socket of the main body and slide it in while holding the clasp.
 - * Never touch the connector on PCB pad of the RAM pack.



- 4) Screw on the back cover.
- 5) Press the "All Reset" button using pointed object after turning on the power switch.
 - *If this button is not pressed, memory contents may be changed or a meaningless display may appear.
- 6) Confirm the display shows "L 2977:U 95" by pressing with using the CAPACITY command (see page 46).
 - * If dust, fingerprints, etc. are allowed to get onto the connector or PCB pad of the pack, poor contact may result. Therefore, these must never be touched.
 - * After removal of the pack, be sure to put it in its case and store it in a place which is free from dust.

Each Section's Nomenclature and Operation





■ Nomenclature

o MESET All reset button (On the back panel)

■ Nomenclature

- RESET All reset button (On the back panel)
- For clearing all memory contents.
- Use this immediately after purchase or when you want to clear all data.
- Calculation keys (Keys on the Input Screen used in the touch mode)

○ ~ ⑤ , • Numerical keys/decimal key

- These are pressed to input numerical values into the calculator.
 Press to indicate a decimal point.
- These keys are also used when a phone number is input. (Page 27)
- The key is displayed "O" to avoid confusion with the letter "O".

→ , □ , □ Arithmetic operation keys/equal key

- Press the necessary keys for arithmetic operation.
- The key obtains an answer.
- When these are pressed after pressing the key, each will be displayed as a symbol. (Page 27)

keys/decimal key

% Percent key

verd territor

-Clear keys

- Press this key to percentage calculations.
- When this key is pressed after pressing the es key, it will be displayed as a symbol.

Special operation keys (Keys below the display window) **

symbols) can be input by finger writing using the Input Screen.

e Press this key for data storage, w will be displayed and data can

MH, MR, MR Memory keys wall ni amot gniti w to abnis ynam are aren'T

- When a numerical value is to be input into the memory as a positive value, press the left key. When it is to be input as a negative value, press the left key. When a numerical value stored in the memory is to be displayed, press the left key. When the left key is pressed, the numerical value stored in the memory is deleted.
- When this key is pressed after pressing the CLR key, it will be displayed as a character.

Clear key

 When an erroneous numerical value is input, it can be cleared by pressing this key immediately after input; also releases overflow or error check.

All clear key

 Press this key when beginning a calculation or when starting completely over again; also releases overflow or error check.

After this key has been pressed, arithmetic operation key input will be dist

■ Special operation keys (Keys below the display window)

Finger/Touch mode key

• Finger mode (mark appears) - 48 types of characters (alphabet, numerals and symbols) can be input by finger writing using the Input Screen.

There are many kinds of writing forms in the world.

- This unit recognizes only standard alpha-numeric characters written in the forms shown on page 21.
- Touch mode (mark disappears) Numerical and arithemetic operation keys on the Input Screen can be input. (Symbolized here as F/T).

Data input/output mode key

- Press this key for data storage. In will be displayed and data can be input . This key is also pressed with performing data correction or deletion. (Page 35, 36)
- If this key is pressed while ma is displayed, ma will disappear and the output mode will be designated.

(Symbolized here as MIA).

Display clear key

- Press this key to clear the display.
- This key is also pressed when deleting data. (Page 36, 42)
- After this key has been pressed, arithmetic operation key input will be displayed as 15 symbols. (Page 27)

💍 , 🗂 Cursor keys

 Press these keys when the cursor position is to be shifted. When one of these keys is pressed once, a shift of one display location results. If it remains depressed, the shift is automatically repeated.

Delete key

Percent key

• Press to delete one character to the left of the blinking cursor. (Page 28)

Command key

- Each time this key is pressed, five commands are displayed.
- When the desired command is displayed, press the [™] key and the command will be executed. (Page 46)
- •In the input mode, after "BUZZER ON(OFF)" is displayed "AUTO INPUT→" and "AUTO INPUT!" are displayed but these commands can't be executed. (Symbolized here as com .)

Execute key

• This key is used to execute the command specified using the w key. (Page 46)

Press this key when beginning a calculation or when key auditoring TEL input/output key

• Press this key to input/output telephone numbers, etc. (Page 26)

Data output key

MEMO input/output key

Press this key to input/output schedule memos, etc. (Page 37)

Secret key

• Press to designate the keyword for the secret area, or to designate/cancel the secret area. (Page 43) (Symbolized here as .)

Cursor kays (wobniw yolgs)

Execute key

Data output key

Press this key to output names and telephone numbers in sequence. (Page 31)

Clear key

• When an erroneous numerical value is input, it can be cleared by pressing this key immediately after input; also releases overflow or error check. (This key can be used both in the finger mode and touch mode.)

• This key is used to execute the command specified using the 🕮 ke yes real IIA C

 Press this key when beginning a calculation or when starting completely over again; also releases overflow or error check. This key overrides the auto power-off function. 17 (This key can be used both in the finger mode and touch mode.)

Finger Writing Function

This unit has a "FINGER WRITING" function which allows characters etc. to be outlined by finger on the Input Screen. The writing forms which allow to be recognized are shown on page 21.

write "set" by singer covering the full area on the

Be sure to write characters covering the full area of the Finger Input Screen.

■ Usage

Example: Input character "A".

(1) Turn the power on.

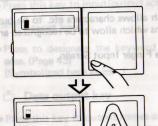
(2) When so mark is not lit on the display, select the finger mode by pressing mark is not lit on the display, select the finger mode by pressing mark is not lit on the display, select the finger mode by pressing mark is not lit on the display, select the finger mode by pressing mark is not lit on the display, select the finger mode by pressing mark is not lit on the display, select the finger mode by pressing mark is not lit on the display, select the finger mode by pressing mark is not lit on the display.

(3) Press the CLR key.

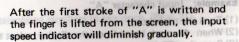


* Finger input speed can be changed (see page 50).

(4) Write "A" by finger, covering the full area of the Finger Input Screen.



When the finger contacts the Finger Input Screen, an input speed indicator lights up.



Write the next stroke before the input speed indicator disappears completely.

* Finger input speed can be changed (see page 50).

(5) "A" is displayed at the leftmost position on the display, and the cursor blinks at the next position.

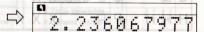
W besinged led tenned

Example: Calculate 123 X 45. (Be sure to press the 4s key when beginning a calculation.)

* Multiplication command can be input as both "X" and "X".

Example: Calculate the square root of 5 ($\sqrt{5}$).





■ Examples of pattern recognition by finger writing

There are 48 kinds of characters (alphabet, numerals and symbols) which can be input by finger writing. Practice inputting all characters before advancing to the next section. Correct formations of characters are marked with "O".

Be sure that the other writing forms cannot be recognized for this unit.

	0	×		C		X		C)	X		C)	X)	X		0	X
A	A	aior	il s	1 2 1 3	T 3	VB	Q	Q	tr a	Q	Y	Y	y	Y	1000	6	23	G	100	3 3 2 2	qm
В	BB	B	J	J ²		Ţ	R	Ŕ		Aft	Z	¹ 2Z	firs		7	7	7	7	is	writte	n an
C	С		K	K	K	K	S	S	1	thu left	0	0		U	8	8			=	= !	⇉
D	ڟ [ؙ] ؞ڟ	D	L	L.	7	4	T	1/2			1	1	1	1	9	9	0	2	%	1/3 /	3
E	² = 3 = 3		M	M	M		U		od a	6 11	2	2	nst	be	~	~	~	1	ilgi	2	
	$2 \frac{1}{3}$ $1 \frac{2}{3}$		N	'Ň	N		٧	¹ /V	² V	W	3	3	1169	3	+	2+		19	(«	tt
G	Gi ₃		0	² O	² 0	•				inc	4			OP	19/3	901	ne	10)	>>>))
Н	3 1 2	a	P	'P	5	N	X	X	X	3	5	5	25	5	*	*	3 X		4	-(_

Space

- O Written patterns which allow easy input of characters.
- X Written patterns which cannot be input or may be mistaken.
- * Take care the difference of O and Ø, 1 and I, 2 and Z, U and V, X and *, space and dash. The maximum number of vertical divisions in each category is 253.

Data Bank Functions

This calculator is capable of data storage and recall using finger input and a touch input system in the data bank function. Its functions can be separated into two classifications depending on the use. Both of side Bank, it is possible to store is pointed. If it

Classification	Key used	Data storage format	Principal uses
TEL	TEL	NAME NUMBER	Telephone Directory
of memory	nedmun e	Max. 253 divisions	Address book
мемо	MEMO	MEMO	Appointment schedule Train timetable
	:ers + 1	Max. 253 divisions	General memo

■ Data storage format

- A maximum of 60 characters can be stored on each line. (The cursor blinks up to the 55th character. After that, " "begins to blink.
- The maximum number of vertical divisions in each category is 253.
- In the case of "TEL", names are automatically stored in alphabetical order.
- * 929 characters (approximately 1 kilobyte) can be stored in the two categories combined (e.g., names and telephone numbers of about 50 to 60 persons).

■ How to count the number of stored characters

- If nothing is stored in the Data Bank, it is possible to store up to 929 characters. (Page 47)
- 2) When storing characters (data to be stored in the memory), in the case of the TEL, MEMO areas respectively, in addition to the input characters, extra spaces are also necessary as shown below.

Data Type	Method for obtaining the number of memory spaces used.
TEL distance	Number of input characters + 1
МЕМО	Number of input characters + 1
Keyword for the SECRET area	Number of characters - 1

Example:

TEL	ROGERS	armits storage of telephone and state of the storage of the state of the storage
	6 Characters	12 Characters → 18 Characters + 1 = 19
opears.	Hey Call I'mark at	1) Select the tinger mode by pressing the FT

MEMO	PROFIT		30%		Resald A	d abou	J'indo	Len
n u no am ig	HIMTHO VINS	1	1	the Gr	gnisser	grydi	risplay	nes d
	6	1	3-	10 aban	Des GER	minutes.		

^{*} The space between "PROFIT" and "30%" must also be counted.

SECRET	ABCDE Then Input The Manual Ma
enumbers	T 5 → 5 characters – 1 = 4 characters

■TEL function

Permits storage of telephone numbers, addresses, etc. Up to 60 characters can be input on each data line.

<Input procedure>

- (1) Select the finger mode by pressing the FT key. " In " mark appears.
- (2) Select the input mode by pressing the key. " will be displayed.
- (3) Clear the display by pressing the Rey. The cursor will blink on the left of the display.
- (4) Write a name by finger using the Input Screen. Be sure to input each characters separately.

"NUMBER:?" will be displayed. Then input the telephone number and press the E key.

Both finger input and touch input can be used for telephone numbers. (Operation examples here use finger input.)

(5) When the telephone number, "NAME:?" will be displayed. Repeat the name and number for the desired number of persons.

03-347-4811 mont ad oals neg gradmun anode JACKSON 0236-42-8018 ther operation for the number <Operation> and light up. (abort Jugn I F/T MIA CLR Make sure to be in the finger mode. (Input mode) TALBOT TALBOT Name input. (Finger mode) Indicates telephone number input. The number of RECORD indicates the NUMBER: ? numbers of data (in this case, the number of names). For the number of ITEM 1 indicates the 03-347-4811 03-347-4811 name and 2 indicates the telephone NAME:? 000 The name of the next person is requested. The "2" indicates that this is the second person's name input. DB8 2 JACKSON JACKSON. 000 12 In this example, after name input, the NUMBER:? RECORD number will change to a "1" " indicates that 12 digits or more due to automatic sorting in alphabetical have been input. sequence. +DBR 12 Press to confirm undispayed portions. Indicates nondisplayed characters exist (If this key remains depressed, automatic to the right of the currently displayed shift will result.) characters. 0236-42-8018 The character in the last display location Operation so far has resulted in the storage of the telephone numbers of two

Example: Inputting TALBOT

* Telephone numbers can also be input in the touch mode. OBJAT primary alguments.

Another operation for the number mentioned just before.

(Input mode)

(FT)@R0236=42=8018 236-42-8018 NAME:?

Make sure to be in the touch mode.

In this case the " " (minus sign) is used as a dash.

Example: Inputting BRANES, DAVID: 1000 PARK AVE, LONDON

(Input mode)

BRANES DAVID
Space

TEN NUMBER: ?

10000 | 10000 | 2

10000 | 2

10000 | 2

PARK AVE.LONDON

Return cursor to the home position to perform confirmation

Make sure to be the finger mode.

To insert a space, input a straight line " - " at the lowest or second lowest line of the matrix on the Input Screen.

'10000" is input by miskate.

Replace "10000" with "1000".

⊕⊕⊕⊕⊕⊕

10000_PARK A

| Press |

■ 1000_PARK AV ● □ □ 12 LONDON_ ■ NAME:? Move the cursor to the right of the location of the desired deletion.

Press I and 0 of the left of the cursor will be deleted.

Shift the display to the right while confirming the contents of the entry.

Input complete.

BLUS JAN

- *To revise which has been input prior to pressing the two key, simply press and reinput the data.
- * When all data has been input, press to for confirmation. For correction of stored data, see page 35.

h (3) Initial search

092411-2684

(2) Direct search

SULLIVAN ELIZABETH

(1) Sequential search

^{*} To cancel the input mode, press the MR key.

<Output procedure>

Prior to output

First press the "All Reset" button, then designate the finger mode and input mode (

and will be displayed) and input the following list. (Since the "All Reset" button erases all data, do not press it if data is already stored which you want to retain. Here this button is pressed only as an example.)

NAME	NUMBER					
JONES, BOB	045-211-0821					
ELLIS, MIKE	0236-42-8018 03-347-4811					
YOUNG, JIM						
BROWN, JANE	06-314-2681 011-231-2343					
WATTS, GAIL						
ELLIS, JAN	03-862-4141					
SULLIVAN, ELIZABETH	075-351-1161					
HOYT, MARY	092-411-2684					
SMITH, JOHN	0992-56-3575					
MILLS, PAUL	06-362-8182					

When all the names and telephone numbers have been input, press the em key to switch to the output mode. The following explanation assume that the list shown above has been input.

There are three output methods:

(1) Sequential search

(2) Direct search

(3) Initial search

Replace "10000" with "10000"

To revise which has

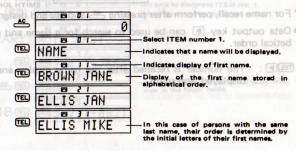
(1) Sequential search

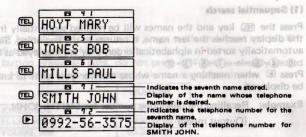
Press the E key and the names will be recalled sequentially from the beginning. When the display reaches the last name, it returns to the beginning. Since the names have been automatically sorted in alphabetical order, they are displayed as follows:

Press when reaching a name whose number you want to know, and the number will be displayed.

Example: Recalling the telephone number for SMITH, JOHN.

(Output mode)





- * For name recall, perform after pressing 📤 and 📵 and designating ITEM 1.
- Data output key Decan be used to search for a name and number in normal alphabetical order.
- The number is recalled after the name display and then the next name is displayed, and so on.

(2) Direct search

Press the telephone number will be displayed.

Example:

What is the telephone number for HOYT, MARY? What is the telephone number for JONES, BOB?

(Output mode) TI stangles of size as



Use the Ac key below the display win dow in the finger mode.

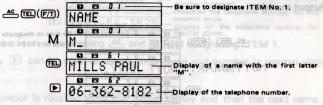
(3) Initial search

(3) Initial search

When the initial letter of a stored name is input, the first stored name containing that letter is displayed. This comes in handy when the name is long or when many names are stored.

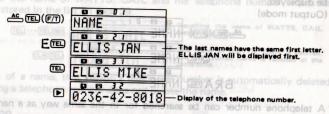
Example: What is the telephone number for MILLS, PAUL?

(Output mode)



^{*} If more than one name has the same first letters, search is performed based on the alphabetical order of the second letters.

Example: What is the telephone number for ELLIS, MIKE? perote for all laiting and 11 * (Output mode)



list on page 29.

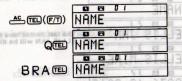
Example: What is the telephone number for WATTS, GAIL? 1015 815 10 110 (Output mode) of and down 808, 23MOL to be admin enoughlet and town 808.



^{* 2} or more letters can be input to search a stored name.

* If the initial is not stored, or if the wrong spelling is input, nothing but "NAME" will be displayed.

(Output mode)



* A telephone number can be searched for in the same way as a name by designating ITEM 2.

■ Correction of the stored data

Example: Correct the telephone number for JONES, BOB which has been stored in the list on page 29.

©R(FT)JTNES→BTB © 45-211-0821 Recalling the telephone number for JONES, BOB (direct search).

O3→787→3721 SEE 17 Input new number.

ITEL SEE 17 Input new number.

Input complete.

* Input data is confirmed by pressing E key.

■ Deletion of the stored data

Example: Delete the name of WATTS, GAIL and her telephone number which has been stored in the list on page 29.

(Input mode)

TEL···TELIMI WATTS GAIL

TOUNG JIM

Recalling the name of WATTS, GAIL (sequential search).

Example: Inputting a 10:00 MEETHNG.

The name of WATTS, GAIL is deleted, the next stored name is recalled at the same time.

Example: 4-5 13:00 SHOPPING

* By the deletion of a name, that person's telephone number is automatically deleted. However, deleting a telephone number does not delete the name.

■MEMO function

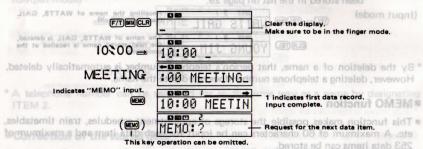
 This function makes possible the storage of appointment schedules, train timetables, etc. A maximum of 60 characters can be input for each data item and a maximum of 253 data items can be stored.

<Input procedure>

- (1) Designate the input mode by pressing the key, stago avode and most polynitroo
- (2) Press the key, and designate the finger mode by pressing FT key.
- (3) Input the data. In ve fugal at "ST"
- (4) Press the exp key, and the data will be stored and the cursor will disappear. If the data exceeds 12 characters, only the first 12 characters will be displayed.
- (5) Press the weekey again and "MEMO:?" will be displayed indicating readiness to accept the next data input.

Example: Inputting a 10:00 MEETING.

GAIL and her telephone numb (shom tuqnI)



• When input data contains many characters, revisions can be made without using @ ...

Example: 4-5 13:00 SHOPPING Continuing from the above operation.

(2) Press the Cull key, and designa "12" is input by mistake, edit tugni (E)

(5) Press the @ key again and accept the next data input

12:00 a Use the Est key to res ata in the same way as desthe assumption that the 4-5 13:00

Move the cursor to the point of revision.

moses men mones: 15, 30 45

19: 10 35

20: 00_40

PROFIT 30%

following data has already been sto After inputting all data-stelemos rugal

deletes one character to the left of the cursor.

. The same displays can be obtained by pressing and D

* For deletion of data which has been stored by pressing the weekey, see page 42.

(1) Sequential search (2) Spelling search

<Output procedure>

Prior to output

First press the "All Reset" button and input the following data in the same way as described on page 36. The output procedure will be described on the assumption that the following data has already been stored.

After inputting all data, select the output mode by pressing we key.

	8-25 13:00 MEETING
	TRAIN TIMETABLE
tr	17: 10 30 50
	18: 15 30 45
	19: 10 35
	20: 00 40
ij	SALES 1700
ın	PROFIT 30%

There are two output methods.

- (1) Sequential search
- (2) Spelling search

(1) Sequential search

- Use the well key to recall the data records in the order in which they were input. ("MEMO" is displayed first.)
- When the last data record has been displayed, the display returns to the first data record.

Example: Display of SALES 1700

(Output mode)	CLR MEMO	© 0	First "MEMO" is displayed.
	CLR (MEMO)	MEMO	all I
Operate I	MEMO	8-25 13:00 M	"1" indicates the first data record.
	MEMO	TRAIN TIMETA	Second data record.
	MEMO I	17: 10 30 50	"OM3M" ying and train timetab
	MEMO	18: 15 30 45	utput mode)
	MEMO	19: 10 35	
	MEMO	20: 00 40	
	MEMO	SALES 1700	Indicates the seventh data record stored.

The same displays can be obtained by pressing .

(2) Spelling search

Press em after inputting the first character and the first data item record which begins with that input character will be displayed.

Example: Display of TRAIN TIMETABLE.

(Output mode)



The same displays can be obtained by pressing @@ [5]

Example: Display of train timetable between 18:00 and 18:59

(Output mode)



 When two or more data item records have the same initial letter, the one input first will be recalled.

Example:

(1) Sequential search

(Output mode)

t see the con		sed so that people who do not know
(F/T)CLR MEMO	MEMO	How to store the secret keyword>
(MEMO)	17:00 30 50	Third item record.

 Operate I eas again and the nearest data item record which begins with a "1" will be displayed.

* If no item containing that initial number or letter has been input, only "MEMO" will be displayed.

■ Deletion of the stored data

Example: Delete the train timetable between 18:00 and 18:59 which has been stored in the list on page 39.

(Input mode)

	W C	T 4	ng in	W KO
DATA MEMO · · · MEMO	18:	15	30	45
	020	T 4		
CLR MEMO	19:	10	35	

Select the input mode.

Recalling the train timetable between 18:00 and 18:59

The train timetable between 18:00 and 18:59 is deleted, and the next stored data is recalled.

■SECRET function

When it is undesirable for stored data to become known to others, it can be stored in a special secret area with a keyword attached. This is an information protection function used so that people who do not know the keyword cannot see the contents of this data.

<How to store the secret keyword>

- 1) Select the input mode (m mode).
- 2) Input the keyword containing from 1 to 60 letters.
- 3) Press the e key.
- * After storing a keyword it can't be changed except by pressing All Reset button.

Example: Store the keyword "CASIO".

(Input mode)

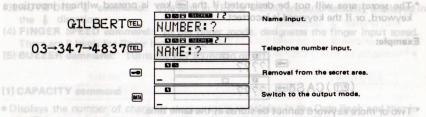
(=)==	0 00					
(F/T)CLR DATA		Make sure to be in the finger mode,				
CASIT	COCTO	Keyword input.				
07.010	CHOIUL BOWLER	aldesault utest aut asalar : aidu				
em rugni anir me	CASIO	SECRET symbol lights. Indiates that the keyword "CASIO" has been stored.				

After this operation, the keyword becomes "CASIO".

 After storing a keyword to designate a secret area, data can be input into that area using the E, es keys.

Example: Store the telephone number for GILBERT in the secret area.

Continuing from the last operation (Input mode)



^{*}Removal from the secret area can be done both in the input mode and output mode.

After designating the secret area by recalling the keyword, data in the secret area can be recalled.

Example: Recalling the telephone number for GILBERT in the secret area.

(Output mode)

ot away wish a bour	N SECRET (:)
() CASIō ➡	CASIO
Jednie Hills do Hot	1 2 SEGRED 1 2
GILBERT	03-347-4837

*The secret area will not be designated if the we key is pressed without inputting a keyword, or if the keyword is incorrect.

Example:

* Two or more keyword cannot be stored at the same time.

A ...

■ COMMAND function

The five COMMAND functions are as follows:

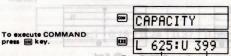
(1) CAPACITY command: Indicates the number of characters in the Data Bank plus the number of characters being used.

(2) AUTO DISP → command: The data in TEL or MEMO are automatically displayed in the → direction.

- (3) AUTO DISP ↓ command: The data in TEL or MEMO are automatically displayed in the ↓ direction.
- (4) FINGER SPEED command: In the finger mode, designates the finger input speed. There are 9 levels for finger input speed.
- (5) BUZZER command: Turns the key sound on or off. 9210 OTUA to yalqab ad T .

(1) CAPACITY command

Displays the number of character storage space remaining in the Data Bank and that in
use. This is useful for knowing how much data can be input. This command can be
used both in the input and output mode.

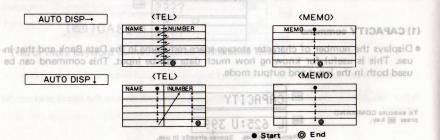


Remaing spaces. Spaces already in use.

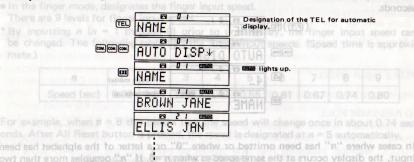
- * In a unit without an optional RAM pack, L and U become 1024 when added together.
- * If no data is being stored (after RESET), the CAPACITY command display will show L 929: U 95 (L 2977: U 95 with optional RAM pack). This U figure of 95, represents the amount of space required to handle TEL, MEMO etc. Accordingly, after any data input, the figure which subtract 95 from the figure of U will be the number of characters of stored data.

(2) AUTO DISP → command AUTO DISP ↓ command

- These commands can be used both in the input mode and output mode.



Example:



For example, when n = 4, this means that the display with change once

The data will be displayed automatically.

* By inputting n (n = 1 through 9) prior to pressing the m key, the display speed can be changed. The following table lists the display speed. (Here speed time is approximate.)

Arriagina Am m	-	-	1	Annual Control		-	1110000	42000	1 11 11 11 11 11
where n	s tleer	2	3	4	5	6	0710	8	9
Speed (sec.)	0.18	0.24	0.37	0.55	0.79	1.16	1.7	2.56	3.84

For example, when n = 4, this means that the display will change once in about 0.55 seconds.



In cases where "n" has been omitted or where "0" or a letter of the alphabet has been input, the display occurs at the same speed as when n = 6. If "n" occupies more than two places, the speed will be determined by the first digit of that number only. (n = 1 and n = 123 will produce the same display speed.)

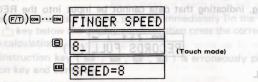
*While the AUTO DISP → (♣) command is in operation, the display can be stopped temporarily by pressing the key. Operation can be continued by simply pressing the key once more.

(3) FINGER SPEED command

- In the finger mode, designates the finger input speed.
 There are 9 levels for finger input speed.
- * By inputting n (n = 1 through 9) prior to press key, the finger input speed can be changed. The following table lists the finger input speeds. (Speed time is approximate.)

n	er forn	2	3	4	5	6	7 21	8	9
Speed (sec)	0.29	0.35	0.42	0.48	0.55	0.61	0.67	0.74	0.80

For example, when n = 8 this means that the speed will change once in about 0.74 seconds. After All Reset button is pressed, the speed is designated at n = 5 automatically.



In cases where "n" has been omitted or where "0" or a letter of the alphabet has been input, the previous set speed will not change.

If "n" occupies more than two places, the speed will be determined by the first digit of that number only. (n = 1 and n = 123 will produce the same speed.)

(4) BUZZER command

• This command turns the key sound on or off. Each time key is pressed, the mode changes to BUZZER ON or OFF alternately.

* After All Reset button is pressed, BUZZER OFF is designated automatically.

■ Data input errors

Errors sometimes occur in the Data Bank at the time of input.

(1) RECORDS FULL

The maximum number of RECORD divisions for either TEL or MEMO is 253. If an attempt is made to input a 254th RECORD division, the unit displays a "RECORDS FULL!" warning, indicating that data cannot be input into the RECORD above this number.

(Display)

BB 254 1 → RECORDS FULL

(2) DATA FULL

The total combined memory capacity for TEL and MEMO is 929 characters. If an attempt is made to input over that amount, the unit displays a "DATA FULL!" warning, indicating that input over this amount cannot be made.g own ment anomasiguoco "n" il

(Display)

that number only. (n = 1) and n = 123 will produce the same speed.)

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Calculation Function

■Prior to beginning calculation entering to the prior to beginning calculation entering to the prior to beginning calculation.

- Calculation can be performed both in the input mode and output mode.
- Calculations can be performed both in the finger mode and touch mode. But memory calculations can't be performed in the finger mode.
- When beginning calculation, press the key (in the finger mode, be sure to press the key below the display window) and verify that the display shows 0.

after releasing the error check by pressing la

Calculation does not affect the Data Bank.

the pumerical value just prior to the overflow will remain. To recall it, pre-**■**Corrections

- If a numerical key is erroneously pressed, press immediately (in the finger mode, be sure to press the cheekey below the display window) then press the correct numerial key and continue the calculation.
- If a calculation instruction key (, ,) is erroneously pressed, press the correct instruction key and continue.

■ Error check

If a calculation contains an excessive number of digits, "E" will be displayed and further calculation cannot be made (error check).

Calculation can be performed both in the input mode and output mode.

Calculations can be performed both in the finger mode and touch mo

Error occurs:

- When the integer portion of the intermediate or final result exceeds 10 digits. In this
 event, the numerical value displayed along with the "E" is the approximate answer
 with the decimal point shown 10 positions to the left of the actual decimal point.
- 2. When the integer portion in the independent memory exceeds 10 digits. In this event, the numerical value just prior to the overflow will remain. To recall it, press after releasing the error check by pressing .
- 3. When a calculation in which a value is divided by zero is performed such as 6 🖨 0 🗖 .
 - * In the event of an error check, press to continue the calculation or press to restart.

Specifications

Calculation/display -> 2 lithium bat 0008-792:leboM=

Calculator

Functions:

Data input capability:

Four basic calculations, constants, memory calculations; percentage calculations including add-ons/discounts and mark-ups, square roots and various other calculations.

Number of digits:

Independent memory, 10 digits.
Full-floating with underflow

Decimal system: Error check:

Indicated by the "E" sign, locking the calculator.

Data Bank

Memory:

Functions:

TEL, MEMO storage/recall, SECRET function, COM-

Memory capacity: 929 characters (2

929 characters (2977 with optional RAM pack)

TEL, maximum 253 data items. MEMO, maximum 253 data items.

• Read-out:

12-digit dot matrix display (liquid crystal)

e Auto power off:

Dimensions:

^{*} However, within the memory capacity.

Esta es una calculadora electrónica de 10 dígitos de gramportabilidad reapa. citada para almacenar y recuperar detos en des categor las subaradas Printeneros Sirvase leer detenidamente este manualtate sinatrologiossua fincida lancende totalmente cada función de la calculadora y manejarla correctamente; mol ión de escritura e dedo Tenga sumo cuidado de no dañar la unidad deblándola oddejándola caer. OB No la lleve en el bolsillo de atrás deseu pantalóni manasamia en observa-

Precauciones para el uso

Precauciones para el uso

Precauciones para el uso

Soluciones para el uso

MOLYCLORES MOLYCLICAS MOLYCLORES MOLYCLORES

Main component: C-MOS-LSI

Power source: Calculation/display → 2 lithium batteries (CR2032)
 Memory protection → 1 lithium battery (CR1220)

Power consumption: 0.03W

Battery life: ano box pribulan Main power source - approximately 340 hours

(continuous use)

Memory protection battery - approximately 2 years

• Auto power off: After approximately 6 minutes

• Ambient temperature range: 0°C - 40°C (32°F - 104°F)

• Dimensions: 9.9 mmH x 137 mmW x 72 mmD (3/6"H x 53/8"W x 27/8"D)

• Weight: 106 g (3.7 oz) including batteries.

Options:

RAM pack (OR-20)

Villages tugnisted

Ram pack (OR-20)

MEMO, maximum 253 data items.

* However, within the memory capacity.

Read-out: 12-digit dot matrix display (liquid crystal)