LIMITED WARRANTY

UNISONIC PRINTING CALCULATORS

UNISONIC PRODUCTS CORPORATION of 1115 BROADWAY, NEW YORK, NEW YORK 10010, warrants to the purchaser of the UNISONIC PRINTING CALCULATOR, that in the unlikely event of any failure due to defects in material or workmanship, occurring within ninety (90) days of date of purchase, the printing calculator will be repaired or replaced, (UNISONIC'S OPTION), without any charge for parts or labor, provided that the calculator is returned WITH YOUR WARRANTY CARD.

THIS WARRANTY DOES NOT APPLY TO BAT-TERIES, CARRYING CASE, OR ACCESSORIES.

After ninety (90) days, and within one (1) year from the date of purchase, any defective printing calculator, which has not been abused or mistreated by the customer, will be repaired or replaced (UNISONIC'S OPTION), for a Service Charge of \$19.90, (check or money order).

Defective printing calculators should be returned prepaid, (without gift box), securely packaged, to the below listed address:

UNISONIC PRODUCTS SERVICE DEPT.

36 WEST 25th STREET

NEW YORK, N. Y. 10010

This warranty gives you specified legal rights, and you may have other rights which vary from state to state.

Printed in Japan

Unisonic XL-115 XL-115 Operating Instructions



10 Digits 1 Memory Electronic Handheld Printing Calculator

XL-115

INTRODUCTION

CONGRATULATIONS You have just purchased the finest 10 digits 1 memory electronic handheld printing calculator on the market.

This calculator is designed to afford the most efficient, simplest methods of performing the broadest range of computations.

This instruction note was divised to enable you to gain complete command and control of your machine in the least amount of time possible with minimum effort. We recommend that you carefully read the information contained herein, so as to take full advantage of the capabilities of this calculator.

We hope that you must derive benefit and satisfaction from your Unisonic XL-115.

FEATURES AND SPECIFICATIONS

- 1. Printing system: Print-wheel selection type.
- 1) 0, 2, 3, 4 fixed decimal places.
- 2) Full floating decimal mode (F.)
- 3) Add-mode placement (A)
- 4) Selectable round off (5/4) on A, 0, 2; 3, 4 decimal places.
- 5) Selectable item count print.

The following symbols are printed to show what kind of calculation is being performed.

5	Symb	ol											Key	
	+	•	•	1	•	•	F	•	•		•	•	+	Addition
			•	т	å		•	#	•	•	-c	4		Subtraction
	x	-	•	=	•	*	-	•	4	Ħ	•	•	\times	Multiplication
	*	-	4	+		•	4	+	•				\div	Division
			#	•	•	4		•	•	•	•	•		Equal
	\Diamond	•	4	•	F	•	4		•	•	•	+	\bigcirc	Sub-total
	*	•		•	4	•	-	•	•		L	•	*=	Total or Result
	%			•	•	•	•	-	•			•	%	Percentage
	#	•	•	•	T	4	Ŀ		-	>	•	•	#6	Non-add Printing
	D	•	Ħ	т	•	4		4	7	•	-	4	#6	Date Printing
	G	P	•	.	•	•		•	•	•	7	*	MD	Mark up, Mark down
	E	p.	•	•	•	•		•	•	•	-	•		Error & Overflow
	M	*	•	•	•	•	Ŧ	-		4		s	M+	Memory Plus
	M	-	₩.	-	,	•	•	*	Ţ	-	-	•	M-	Memory Minus
	S	+	4	•	•	٦	+	þ	•	4	+	•	Mo	Memory Sub-total
	Ţ	•	•	•	•	٠	•	-		-	·	•	M*	Memory Total
	С	•	4	Ŧ	•	4	•	4	₽-	P	·		C	Clear

2. Display System: Flourescent green display 11 digits

capacity, 10 digits for number, is digit indicates symbol. Zero suppression, floating negative sign.

3. Power on Clear: The power switch "ON" position

the electronic circuit will initiate a clear all condition and print out the symbol "O.C" and "O" will be

perform on the display.

4. Functions: Addition, Subtraction, Multiplica-

tion, Division, Repeating add/sub, Chain Mult/Div, Constant Mult/Div, Mixed calculation, percentage, Add-on and discount calculations, Fully independent memory, Non-add printing, Non-print control, Arithmetic operation or Add/sub, algebraic on Mult/Div, Selectable item count print for sub-total or total calculation. Mark up, mark down calculation.

5. Dimensions: 126 mm (W) x 227.5 mm (L) x

45 mm (H)

6. Weight: 0.66 Kg

7. Power Supply: 4 "AA" size Ni-Cd Rechargeable

Batteries, & AC Adapter.

8. AC Adapter: Input: AC120 V, 60 Hz

Output: DC6 V, 300 mA

9. Power Consumption: DC 4.8 V, 1.6 W (Average)

10. Operating temperature: 0° to 40°C

11. Paper roll: 57-58 mm (2-1/4" width) regular

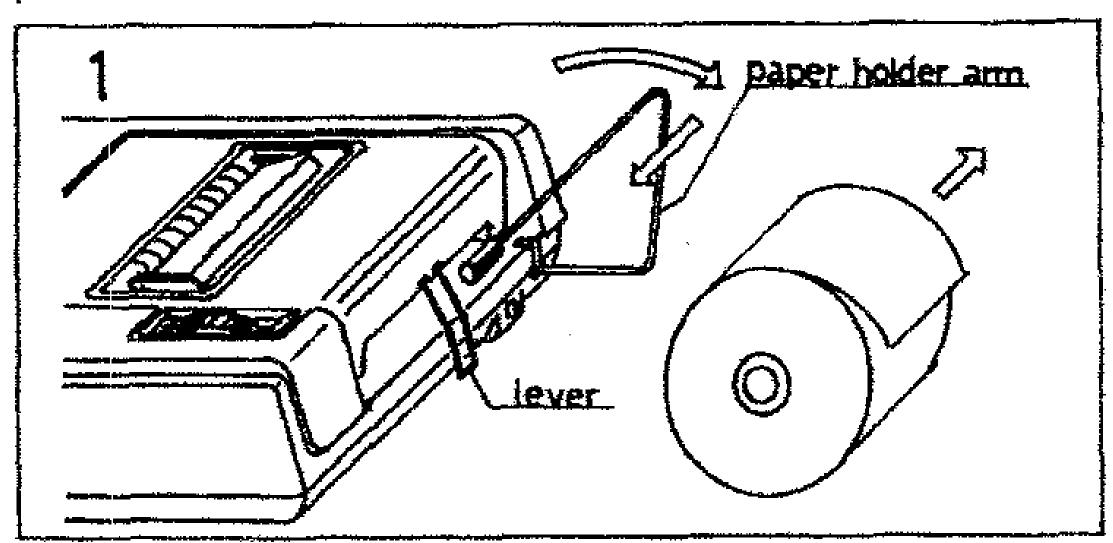
paper

12. Ink roll: $\phi 8 \text{ mm} \times 54 \text{ mm}$

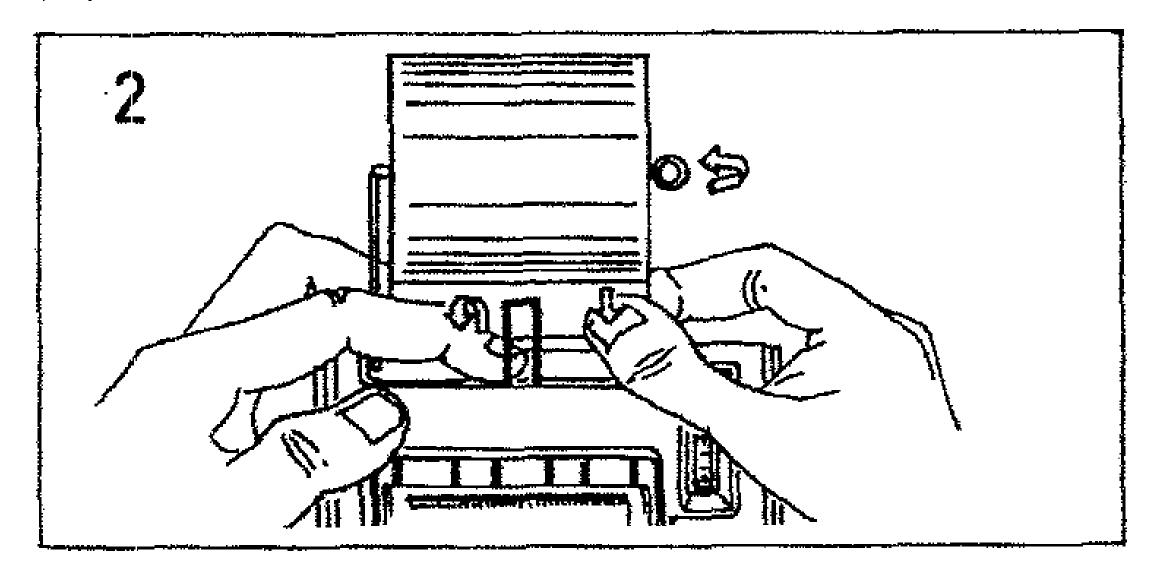
13. Ink roll life: Approximately 150,000 lines.

TO SET THE ROLL PAPER

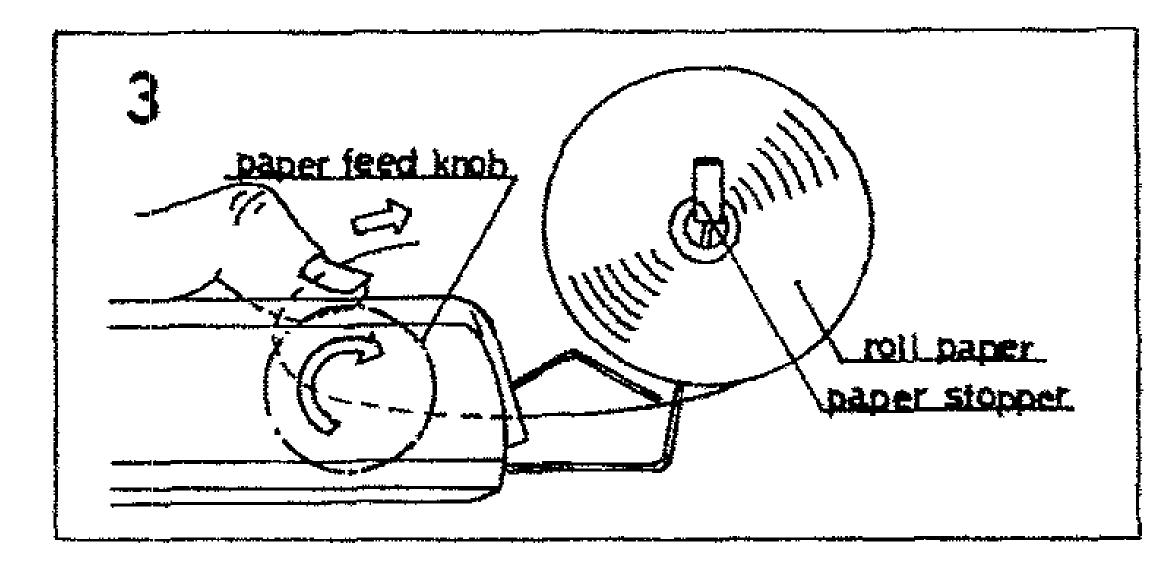
Pull out the paper holder arm outwards, place roll paper on the holder arm and set the paper stopper upright position.



Pull up the lever and proceed the paper edge to the paper entrance.



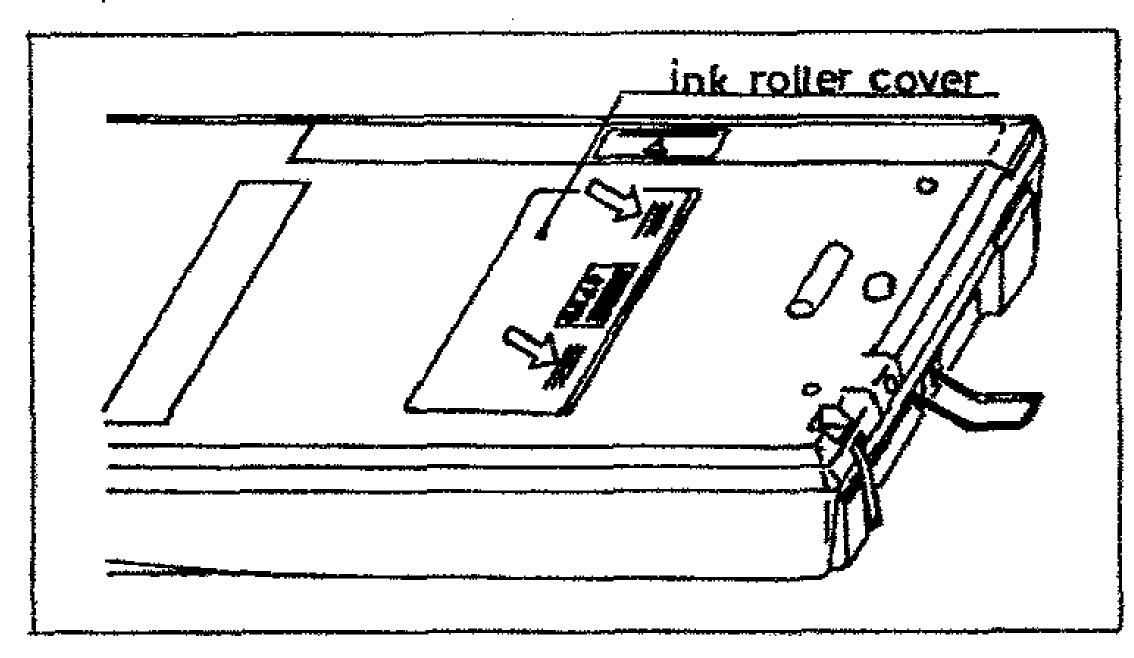
Roll up the paper feed knob till the paper comes over the cutter.



TO CHANGE THE INK ROLLER

Lay the calculator upside down on a soft material after power switch off.

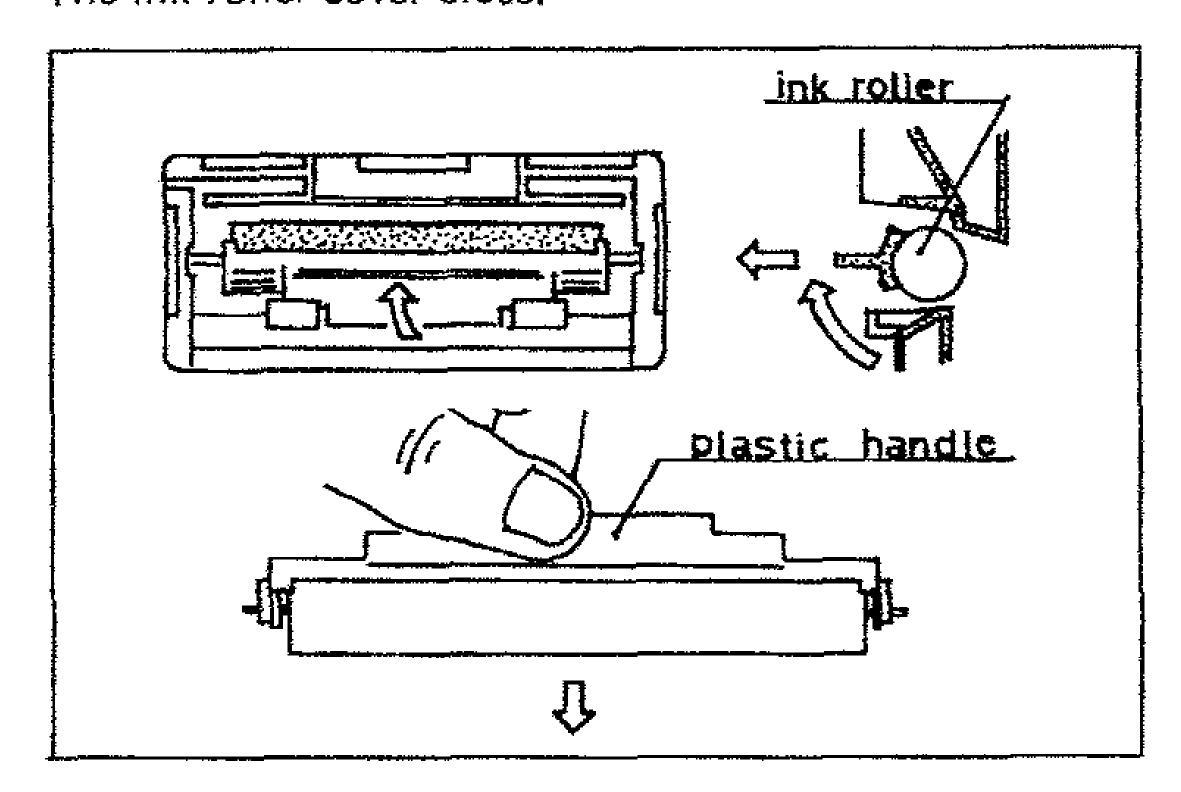
Open the ink roller cover and insert the thumbs behind the plastic handle of the ink roller.



Unlatch the handle by rotating and remove the old roller.

Insert a new roller and ensure that the handle is latched.

The ink roller cover close.



CHARGING THE BATTERIES

Your calculator uses 4 nickel-cadmium rechargeable betteries, normal charging times are:

Power OFF 12-14 hours

Power ON Not charged

Please note that should your calculator not be in use for an extended period of time, then even if it was charged and not used since the charge, the charge may have dissipated because of the long period of non use.

CAUTION

- Your calculator might be damaged if it uses any AC adapter other than the attached AC adapter supplied with your calculator.
- 2. The ambient temperature is 32°F-104°F (0°C-40°C) while charging, please keep the calculator away from places of high temperature.

BUFFERED KEYBOARD

Please note that your unit has a buffered keyboard. This means that you can input numbers into the machine faster than the machine can print them out or display input numbers into the machine faster than the machine can print them out or display them. Therefore, even after you have finished using the keyboard, the unit may continue to operate for a few seconds. This is so that the machine can catch up with the information put into it.

KEYS AND SWITCHES DESCRIPTION

- 0 9 NUMERICAL KEYS
- DECIMAL POINT KEY
- CHANGE SIGN KEY
- CLEAR ENTRY KEY
 Depression immediately
 following a numerical
 entry clears.
- C CLEAR KEY
 Clear all registers, except
 memory register.
- + ADDITION KEY
- SUBTRACTION KEY
- × MULTIPLICATION KEY
- DIVISION KEY
- EQUAL KEY
 Obtains the result of Mult/Div.
- SUB-TOTAL KEY
 Recalls and prints contents
 of accumulator.
- * TOTAL KEY
 Recalls, prints and clears
 accumulator.

- NON-ADD DATE KEY
 Operatable regardless of the print-on switchs. And date print.
- PERCENTAGE KEY
- PAPER FEED KEY
- M+) MEMORY PLUS KEY
- M- MEMORY MINUS KEY
- MO MEMORY SUB-TOTAL KEY
 Recalls and prints the contents
 of memory.
- M* MEMORY TOTAL KEY
 Recalls, prints and clears the
 memory.
- MARK UP, MARK DOWN
 CALCULATION KEY
- NON-PRINT SWITCH

 Turning on "NP" position set the

 display mode only, except (1) key
- display mode only, except (1) key.

 ROUND OFF SELECTOR
- ITEM COUNT PRINT SWITCH
- A0234F Controls selection of number of decimal places to be expressed in calculation result. ADD mode (A) is available in ADD/SUB only.

BASIC OPERATIONS AND TECHNIQUES FOR SPECIFIC CALCULATIONS

1. ADDITION

123 + 456 = 579.00

Decimal point selector fixed at 2, Item count print switch on.

Entry	Function key	Paper print-out	
		~~~~~	$\sim\sim$
	(C)	0 .	C
123	$\oplus$	123.00	+
456	<b>(+)</b>	456.00	+
	*	002	
		579 - 00	*
	~~~	~~~~~	~~~

1.23 + 456.00 = 457.23

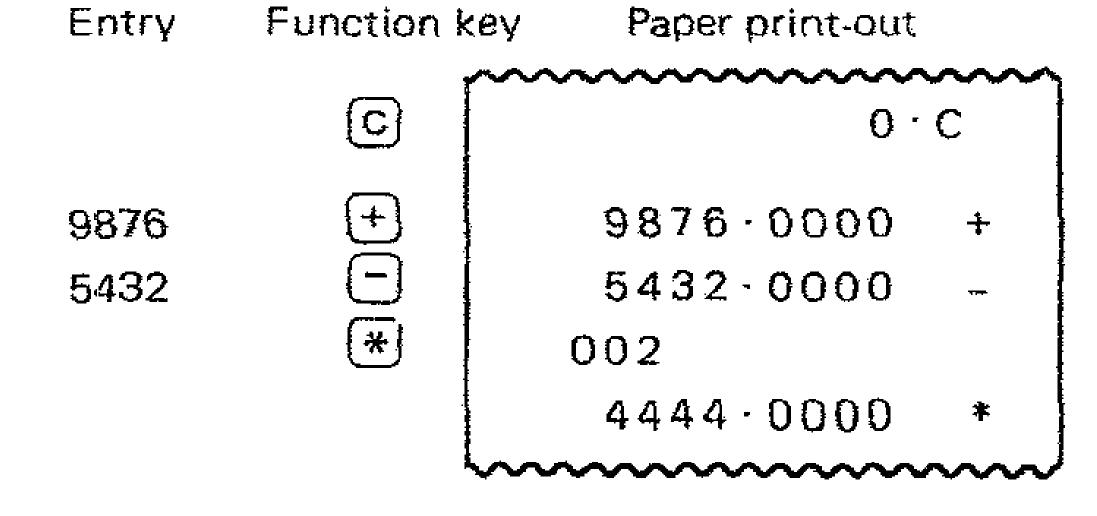
Decimal point selector fixed at (A), Item count print switch on.

Entry	Function key	Paper print-out
	, p~~	~~~~~~
		o · c
123	Œ)	1.23 +
45600	(+)	456.00 +
	*	002
		457.23 *
	↓ ~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

2. SUBTRACTION

9876 - 5432 = 4444.0000

Decimal point selector fixed at 4, Item count print switch on.



3. ADDITION SUBTRACTION

10.0123 + 1.3210 - 150.4567 = -139.1234

Decimal point selector fixed at 4.

Entry	Function k	ey Paper print-out	
-	r	~~~~~~~~~	مو.
		0 - C	
10.0123	+	10.0123 +	
1.3210		1.3210 +	
150.4567		150 - 4567 -	
	*	-139 · 1234 *	
		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	v

#### 4. MULTIPLICATION

Entry

1.23 × 0.1 × 123 = 15.1290

Decimal point selector fixed at 4. Function key Paper Print-out

	(C)	0.	~~~ C
1.23	$\bigotimes$	1 · 23	×
. 1	×	0 · 1	X
123		123.	=
		15 - 1290	*
		100000000000000	~~~

#### 5. DIVISION

 $123 \div 4 \div 6.2 = 4.9597$ 

Decimal point selector fixed at 4. Round off selector at 5/4.

Entry	Function key	Paper print-out	
	© ~~~	··0	~~~ C
123 4	→	123· 4·	
6.2		6 · 2	
		4.9597	*
	h~~	~~~~~	<b>~~~</b>

# 6. CONSTANT CALCULATION

 $123 \times 2 = 246.0000$  $123 \times 5 = 615.0000$  $123 \times 10.5 = 1291.5000$ 

Decimal point selector fixed at 4.

Entry	Function key	Paper print-out	
	~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~
	اك	O - C	
123	×	123-	x
2		2 ·	=
		246.0000	*
5		, <b>5</b> ·	=
		615-0000	*
4 C E		1 A . E	-
10.5		10.5	_
		1291-5000	*
	<b>~</b>		~~~

_	
ļ	123 ÷ 3 = 41
	333 ÷ 3 = 111
1	200 ÷ 3 = 66.66666666

Decimal point selector set at F.

Entry	Function key	Paper print-out	
	<b>~~</b>	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	$\overline{}$
	(C)	0 · C	
123	÷	123 · ÷	
3		3 ⋅ =	
		41.*	
333		333 - =	
		111· *	]
200	=	200 -	
		66.6666666 *	
		~~~~~~~	Ų.

7. REPEAT AND/SUB AND SUB-TOTAL

4.50 + 4.50 Sub-total - 1.25 - 1.25 = 6.50

Decimal point selector set at A, Item count print switch on.

Entry	Function Key	/ Pape	r print-out	
	· ·	^^~	~~~~	~~~
	©		0 - (С
450	+		4 · 50	+
	\oplus		4.50	+
	◆	002		
			9 - 00	♦
125			1 - 25	- 1
			1 . 25	-
	*	004		
			$6 \cdot 50$	*
	↓	^~~~	~~~~	~~~

8. MIXED CALCULATION

 $(35 + 5 - 30) \times 3 \div 5 = 6$

Decimal point selector set at F, Item count print switch on.

Entry	Function key	Paper print-out
		0 · C
35 5	(+)	35· + 5· +
30	→	30 · -
		10 *
3	<u>×</u>	10· x 3· ÷
5		5 - =
		6· *

9. PERCENT CALCULATION

10% of 123 = 12.3000

Decimal point selector fixed at 4.

Entry	Function key	Paper print-out
	· · · · · · · · · · · · · · · · · · ·	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
		0 - C
123	×	123· ×
10	%	10 · %
		12.3000 *
	h	~~~~~~

123 is 10% of 1230

Entry	Function key	Paper print-out	
	~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
	<b>C</b>	€ · C	
123	( <del>-</del> )	123 · ÷	
10	<u>%</u>	10 · %	
		1230.0000 *	

# 10. NON-ADD PRINTING

	*****
# 1000	
1 # 1000	1
120 + 450	= 570.00

Decimal point selector fixed at 2.

Entry	Function key	Paper print-out
	~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
	<b>©</b>	0 · C
1000	<b>*6</b>	#1000-
120	<b>(+)</b>	120-00 +
450	+	450.00 +
	*	570.00 *

# 11. DATE PRINTING

10/0	5 / 78	3		
Entry	Fu	nction k	ey Paper print-o	ut
10 · 05	· 78	<b>#6</b>	10.05.78	D
		Į	~~~~~	www.

# 12. ADD ON, DISCOUNT

 $200 \times (1 + 20\%) = 240.00$  $200 \times (1 - 20\%) = 160.00$ 

Decimal point selector fixed at 2.

Entry	Function ke	y Paper print-out	
		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~
		0 · C	
200	×	200 ·	×
20	98	20 ·	%
		40-00	*
			+
		240.00	*
200	\times	200	×
20	%	20	%
		40.00	*
			-
		160.00	*
	h	~~~~~~~~~	لمحم

13. MARK UP, MARK DOWN

20% mark down of 240 → 200. 20% mark up of 160 → 200.

Decimal point selector set at F.

Entry	Function key	Paper print-out
	~~~	~~~~~~~~
	©	0 · C
240	<b>⊕</b>	240·÷
20		
	MB	-20·G
		200. *
	<b>©</b>	0 - C
160	<b>÷</b>	160 ÷
20	MB	20·G
		200 *
	لمما	hamman

# 14. ERROR/OVERFLOW PRINTING

123456 x 9876543 = Overflow 1 ÷ 0 = error

Decimal point selector fixed at 2.

Function key Paper print-out Entry **C**  $0 \cdot C$ (x)123456 · x 123456 9876543 -= 9876543 121-9318492 * (C) 0 · C 1 · ÷ 0 - =

#### 15. MEMORY CALCULATION

 $(15-4+8) \times (7-4) = 57.000$ 

Decimal point selector fixed at 2.

Entry Function key Paper print-out

	•	,~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	$\sim\sim\sim$
	C	Ο ·	С
7	<b>M</b> +	7 · 0 0	M
4	(M-)	4 - 0 0	M
15	$\bigoplus$	15.00	+
4		4 - 0 0	-
8	$\oplus$	8 - 00	+
	*	19.00	*
	$\overline{\mathbf{x}}$	19.00	×
	M*	3.00	Т
		3.00	=
		57.00	*
		haa	$\sim\sim$

# 16. ACCUMULATOR CALCULATION

 $12 + 3 - (4 \times 5) + (6 \div 7) = -4.1429$ 

Decimal point selector fixed at 4.

Entry	Function k	ey Paper print-out	
	C	0 · C	~~
12 3	+ +	12·0000 3·0000	+
4 5	× =	4 · 5 ·	x =
		20-000	*
<u>_</u>		20.0000	-
6 7		6 · 7 ·	÷ =
		0.8571	*
	<u>+</u>	0.8571	+
	*	-4.1429	*

hammen and the second

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PARTS DEPARTMENT

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