CATIGA®
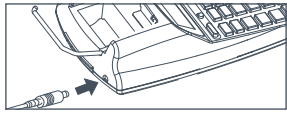
CP-90A User Manual EN / Manual De Usuario ES

ENGLISH

GENERAL MAINTENANCE

1) Do not use or leave the calculator in direct sunlight. Areas subject to quick temperature changes, high humidity and dirt should be avoided.
2) In case of any electrical fault (i.e. smoke), immediately disconnect the AC adapter plug from its electrical outlet.
3) Use a dry cloth to clean the unit. Do not use water or cleaning agents.
4) Do not place anything on top of the unit, especially the printing area.
5) Avoid using the unit in areas where there are iron filings, as this may affect the circuits within the unit.
6) Ensure the power outlet for the AC Adapter is easily accessible and within reach.

AC OPERATION

- Use only the CATIGA AC Adapter.
- Turn the power switch to OFF before connecting or disconnecting the AC Adapter.
- Press the [C/CE] key to restart the calculator.

REPLACING THE INK ROLLER (IR-40T/INK-40)

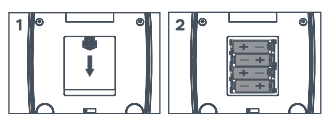This printing calculator uses an IR-40T industry standard ink roller. It can be easily found in stores or online.

1 Remove transparent cover carefully by pressing down on the arrow symbol and push outward. Lift out metal arm.

2 Use your finger to lift up and remove the old ink roller where it says "Pull Up".

3 Install new ink cartridge by pressing down until you hear a click.

4 Reinsert plastic cover.

INSERTING PRINTING PAPER

1 Remove transparent cover carefully by pressing down on the arrow symbol and push outward. Lift out metal arm.

2 Plug in AC adapter or insert batteries.

3 Make sure paper roll is in bottom feed orientation.

4 Use scissors and cut a straight edge at the end of paper roll.

5 Insert end of paper roll into bottom slit in the back of the machine. Keep feeding the paper until it reaches deep in the black area.

6 Press the "**FEED**" button while applying inward pressure to the end of the paper.

7 Hang the paper roll on the metal arm and reinsert plastic cover.

LOADING AND REPLACING BATTERIES

LOADING
1) Remove the battery cover by pushing down and sliding in the direction of the arrow (Figure 1).
2) Load 4 new AA batteries as illustrated (Figure 2).
3) Reattach the battery cover.

REPLACING
- Low battery power may cause printing problems, or random paper advances. It can also disable the [C/CE] key.
- If the display is dim or the printing speed decreases, then the batteries may need to be replaced. Replace batteries to resume normal operations.
- Remove the batteries if you do not plan to use the unit for a long period of time.

DECIMAL POINT SELECTOR SWITCH

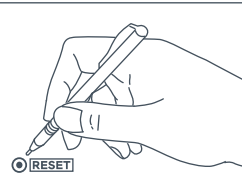|	
↓↓↓↓↓↓↓↓	Used for designating the decimal point position (0 1 2 3 4) for calculated results.
+↓↓↓↓↓↓↓	**+ (Add-Mode)** : Addition and subtraction functions are performed with an automatic 2-digit decimal. It is convenient for currency calculations.
↓↓↓↓↓↓↓F	**F (Floating Decimal Point)** : All effective numbers up to 12 digits are printed or displayed.

ROUNDING SWITCH

↑ 5/4 ↓	Used for round-up [↑], round-off [5/4], or round-down [↓] to the preselected decimal digits in the result.

POWER / PRINT / ITEM COUNT

Power Off : Turns power off.

Power On/Print Off : Turns power on. Entries and results will appear on the display, but will not be printed out.

Power On/Print On : Entries and results will appear on the display and will be printed out.

Item : Set switch to "ITEM" to count the number of times the [+], [−], and [×] keys have been pressed. The item count will be printed on the left hand side of the paper roll (up to 999 times) when the [+], [×] or [=] keys are pressed.

OVERFLOW

In the following cases, when "E" is displayed, a dotted line is printed, the keyboard is electronically locked, and further operation is impossible. Press %/ to clear the overflow. The overflow occurs when:
1) The result or the memory content exceeds 12 digits to the left of the decimal point.
2) Dividing by "0".
3) The sequential operation speed is faster than the calculation processing speed (Buffer Register Overflow).

- Electromagnetic interference or electrostatic discharge may cause the display to malfunction or the contents of the memory to be lost or altered. Should this occur, use the tip of a ball point pen (or similar sharp object) to press the [RESET] button at the back of the calculator. After resetting, be sure to set the calendar, clock and tax rate again.

SPECIFICATIONS

- Operation Temperature: 0°C to 40°C (32°F to 104°F)
- Display: 12 digits, large LCD display
- Printing Speed: For 7-column printing max 2.03 lines/sec. For 19-column printing max 0.83 lines/sec
- Printing Paper: Width 57mm (2-1/4 inch), diameter 0.98-3-1/8 inch (25~80mm)
- Power Sources: AC 110~120,220~230 or 240v, 50/60HZ, with an AC adapter 6v dc, 300mA Or DC-Four AA size manganese dry batteries (UM-3)
- Power Consumption: 1.6w
- Ink Roller: IR-40T or INK-40 by CATIGA
- Printing Color: 2-color (minus and negative in red)

CALENDAR AND CLOCK FUNCTION

DATE AND TIME FUNCTION

[Date Time]	Used to switch between calendar or clock mode.
[÷]	Used to switch between 12 or 24 hour in clock mode.
[=]	Used to set the date and time in calendar & clock mode.
[×]	Used to switch between AM or PM in clock mode time setting.

DATE AND TIME FUNCTION

1) Press [Date Time] and then [=] . Hold 3 seconds (The first digit of the **month** will flash).
2) Enter the month "01" using the number keys (The first digit of the **date** will flash).
3) Enter the date "01" using the number keys (The first digit of the **year** will flash).
4) Enter the year "2006" using the number keys (The first digit of the **year** will flash).
5) Press [=] to confirm the date.
6) Press [Date Time] and [=] . Hold 3 seconds, enter the time using the number keys and press AM/PM to switch between 12-hour or 24-hour clock.

EXAMPLE	OPERATION	DISPLAY	PRINT-OUT
	[Date Time]	01-01-2006	
	[=] (Hold 3 seconds)	"0"1-01-2006	··· 01-01-2006 ···
How to set date: 2022-10-05	10	10-"0"1-2006	··· 10-05-2022 ···
	05	10-05-"2"022	
	2022	"1"0-05-2022	
	[=]	10-05-2022	0 C
	[Date Time]	Am 12-00-00	
	[=] (Hold 3 seconds)	Am "1"2-00	
How to set time: 23:45	[×]	Pm "1"2-00	······ 12-00 ······
	11: 45	11-45	······ 11-45 ······
	[=]	11-45-00	
	[÷]	23-45-00	0 C

CALCULATION EXAMPLES

SLIDE SWITCH SETTINGS

↓↓↓↓↓↓↓↓	↑ 5/4 ↓	OFF ON PRINT ITEM

- If switches on your calculator do not match the example below, please set switches as shown.

A. FOUR FUNDAMENTAL ARITHMETIC CALCULATIONS

EXAMPLE	OPERATION	DISPLAY	PRINT-OUT
(24+36-75)×8÷(-9) =13.3333333333	[C/CE]	0.	0. C
	24 +	24.	24. +
	36 +	60.	36. +
	75 −	-15.	75. −
	×	-15.×	-15. ×
	8 ÷	-120.÷	8. ÷
	9 +/−	-9.÷	-9. =
	=	13.3333333333 =	13.3333333333*

B. CONSTANT MULTIPLICATION AND DIVISION CALCULATION

EXAMPLE	OPERATION	DISPLAY	PRINT-OUT
a) 25×3=75	[C/CE]	0.	0. C
	25 ×	25.×	25. ×
	3 =	75.=	3. =
			75. *
25×4=100	4 =	100.=	4. =
			100. *
25×5=125	5 =	125.=	5. =
			125. *
b) 36÷4=9	36 ÷	36.÷	36. ÷
	4 =	9.=	4. =
			9. *
136÷4=34	136 =	34.=	136. =
			34. *
236÷4=59	236 =	59.=	236. =
			59. *

C. PERCENT CALCULATION

EXAMPLE	OPERATION	DISPLAY	PRINT-OUT
a) 500×14.2%=71	500 ×	500.×	500. ×
	14.2 %	71.=	14.2 %
			71. *
b) 500×(1+14.2%) =571	500 ×	500.×	500. ×
	14.2 %	71.=	14.2 %
			71. *
	+	571.	571.+%
c) 500×(1-14.2%) =429	500 ×	500.×	500. ×
	14.2 %	71.=	14.2 %
			71. *
	−	429.	429.-%

D. MEMORY CALCULATION

EXAMPLE	OPERATION	DISPLAY	PRINT-OUT
[OFF/ON/ PRINT/ITEM] =ITEM	[C/CE]	0.	0. C
	8732 ×	8'732.×	8,732. ×
(8732×3)-(42730÷ 32)=24860.6875	3 M+	26'196.	3. =
			26,196.M+
	42730 ÷	42'730.÷	42,730. ÷
	32 M−	1'335.3125	32. =
			1,335.3125 M-
	M◇	24'860.6875	002--------------
			24,860.6875 M◇
	M✱	24'860.6875	002--------------
			24,860.6875 M*

E. CORRECTING MISTAKEN ENTRY

EXAMPLE	OPERATION	DISPLAY	PRINT-OUT
123+455=578	123 +	0.	0. C
	456 CICE	123.	123. +
	455 +	0.	
	*	578.	455. +
	GT	578.	002--------------
			578. GT
	[C/CE]	0.	0. C
	GT	GT 0.	
	GT	GT 578.	578.G◇
	GT	578.	578.G✱

F. DECIMAL SELECT

EXAMPLE	OPERATION	DISPLAY	PRINT-OUT
[↑ 5/4 ↓] = ↑ [+01234F]=F 1.4231×3=?	[C/CE]	0.	0. C
	1.4231 ×	1.4231×	1.4231 ×
	3 =	4.2693=	3. =
			4.2693 *
[↑ 5/4 ↓] =5/4 [+01234F]=2	1.4231 ×	1.4231×	1.4231 ×
	3 =	4.27=	3. =
			4.27 *
123+5=128 To print date 2022.10.10	123 +	123.00	123.00 +
	5 +	128.00	5.00 +
		GT 128.00	002--------------
	2022.10.10 ◇/#	GT 2'022.10.10	128.00 G+
			#2022.10.10------
[+01234F]=0 [↑ 5/4 ↓] = ↑	1.4231 ×	GT 1.4231×	1.4231 *
	3 =	GT 4.=	3. =
			4. *
			4. =
[OFF/ON/PRINT/ ITEM] =ITEM [+01234F]=+ 3.13+0.05+4.56+ 6.00=13.74	[C/CE]	0.	0. C
	313 +	3.13	3.13 +
	5 +	3.18	0.05 +
	456 +	7.74	4.56 +
	600 +	13.74	6.00 +
	*	GT 13.74	004--------------
			13.74G+
	GT GT	13.74	13.74G◇
			13.74G✱

G. ROUNDING CALCULATION

EXAMPLE	OPERATION	DISPLAY	PRINT-OUT
[↑ 5/4 ↓] = ↑ [+01234F]=F 3÷7×2=?	[C/CE]	0.	0. C
	3 ÷	3.÷	3. ÷
	7 ×	0.42857142857×	7. ×
	2 =	0.85714285714=	2. =
			0.85714285714 *
1). [+01234F]=4 3÷7×2=?	3 ÷	3.÷	3. ÷
	7 ×	0.42857142857×	7. ×
	2 =	0.8572=	2. =
			0.8572 *
2). [+01234F]=2 [↑ 5/4 ↓] =5/4 3÷7×2=?	3 ÷	3.÷	3. ÷
	7 ×	0.42857142857×	7. ×
	2 =	0.86=	2. =
			0.86 *
3). [↑ 5/4 ↓] = ↓ 3÷7×2=?	3 ÷	3.÷	3. ÷
	7 ×	0.42857142857×	7. ×
	2 =	0.85=	2. =
			0.85 *

H. APPLICATION CALCULATION

EXAMPLE	OPERATION	DISPLAY	PRINT-OUT
[OFF/ON/PRINT/ ITEM]=ITEM [+01234F]=0 A=5×2=$10	[C/CE]	0.	0. C
	5 ×	5.×	5. ×
	2 =	10.=	2. =
			10. *
B=10×5=$50	10 ×	10.	10. +
	5 ×	10.×	10. ×
	=	50.=	5. =
			50. *
Subtotal C C=A+B=$60	+	60.	50. +
	◇#	60.	60. ◇
D=5×6=$30	5 ×	5.×	5. ×
	6 =	30.=	6. =
			30. *
E=10×7=$70	10 ×	90.	90. +
	7 ×	10.×	10. ×
		70.=	7. =
			70. *
F=D+E=$100 G=C+F=$160	+	160.	70. +
			004--------------
	*	160.	160. G+
	GT GT	160	160. G◇
			G✱

I. BUSINESS SALES CALCULATION

EXAMPLE	OPERATION	DISPLAY	PRINT-OUT
Calculating Cost Selling Price:$1'500 Profit Margin:30% Cost=? ($1'050)	[C/CE]	0.	0. C
	1500 SELL	◇SELL 1'500.	1'500. **
	30 MARGIN	COST 1'050.	30. M%
			1,050. C*
Calculating Selling Price Cost:$2,000 Profit Margin:20% Selling Price=?(2,500)	2000 COST	◇COST 2'000.	2,000. C*
	20 MARGIN	SELL 2'500.	20. M%
			2,500. **
Calculating Profit Margin Cost:$1,500 Selling Price:$2,000 Profit Margin=?(25%)	1500 COST	◇COST 1'500.	1,500. C*
	2000 SELL	MARGIN% 25.	2,000. **
			25. M%

J. CALCULATE INCLUDED TAX OR EXCLUDED TAX OPERATION

EXAMPLE	OPERATION	DISPLAY	PRINT-OUT
[OFF/ON/PRINT/ ITEM]=ITEM [+01234F]=F Enter rate (3%)	[C/CE]	0.	0. C
	TAX+	◇TAX%	0. %
	3 TAX+	TAX% 3.	3. %
Add the Tax Amount Price $1560 (without tax) Tax=? ($46.8) Selling Price with tax=? (1606.8)	1560 TAX+	TAX+ 1'606.8	1,560.
			3. %
			46.8 ◇
			1,606.8 *
Deduct the Tax Amount Selling Price $1560 (with tax) Tax=? ($45.4368932038) Price without Tax=? ($1514.5631068)	1560	TAX-	1,560.
		1514.5631068	3. %
			-45.4368932038 ◇
			1514.5631068 *
Recall Tax Rate	[C/CE] TAX-		0. C
		TAX% 3.	3. %

K. ITEM AVERAGE

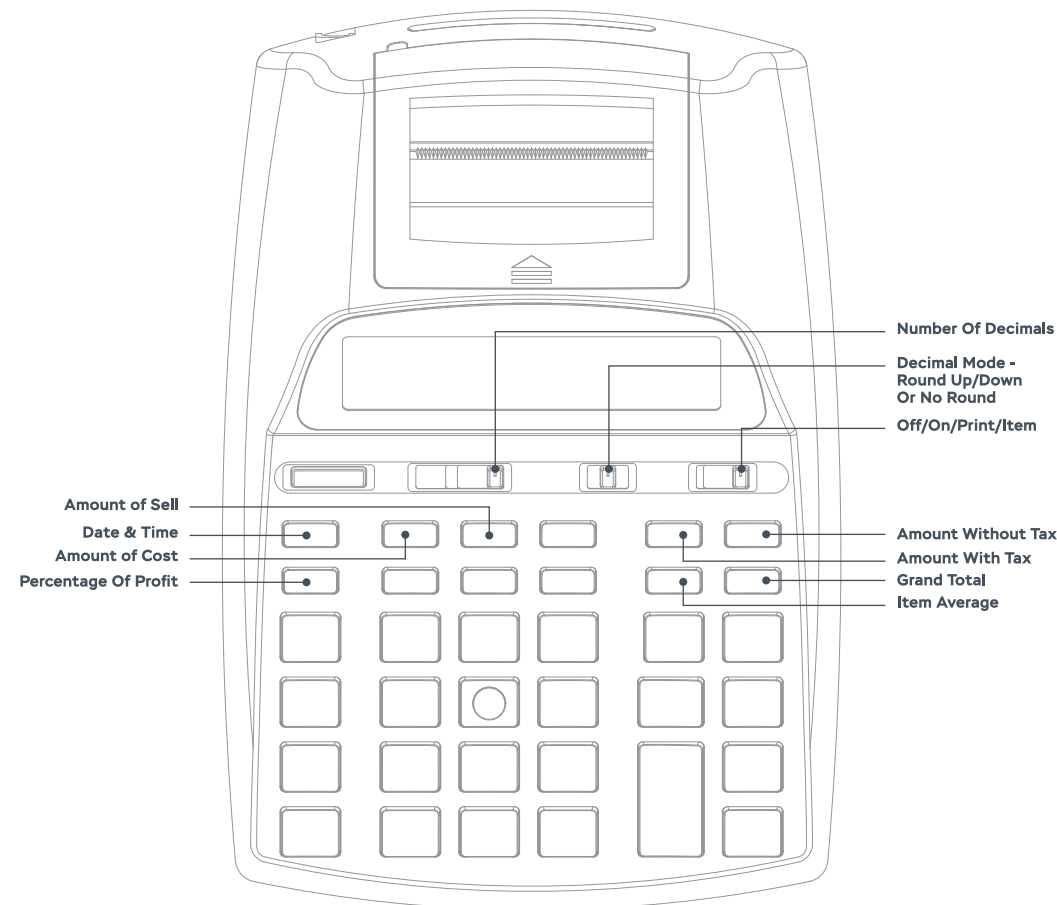| EXAMPLE	OPERATION	DISPLAY	PRINT-OUT
[OFF/ON/PRINT/ ITEM]=ITEM [+01234F] = F 610+700-300 =1010		0.	0. C
	610 +	610.	610. +
	700 +	1'310.	700. +
	300 −	1'010.	300. -
			003...........
	IT AVG	3.	3.
	IT AVG	336.666666666	336.666666666✱
123+456+789	123 +	1'133.	123. +
	456 +	1'589.	456. +
	789 +	2'378.	789. +
+ IT *	IT AVG	6.	006...........
	IT AVG	396.333333333	396.333333333✱

DISPLAY SYMBOL

- **M** : A number has been stored in memory
- **E** : Error or overflow of capacity
- **−** : The display value is negative
- **TAX+,TAX-,TAX%** : Performance of tax calculation
- **COST,SELL,MARGIN** : Performance of cost, sell and profit margin calculation

⚠ WARNING

- Do not press any key when there is no paper and the printer is on (Other than the feed key (↑)).
- Failure to observe this warning will damage the print head.

KEY FUNCTIONS

- Number Of Decimals
- Decimal Mode - Round Up/Down Or No Round
- Off/On/Print/Item
- Amount Without Tax
- Amount With Tax
- Grand Total
- Item Average
- Amount of Sell
- Date & Time
- Amount of Cost
- Percentage Of Profit

⚠ PLEASE NOTE WHEN USING BATTERIES AS A POWER SOURCE

If the display is dim, the printing speed is slower than expected or the printer is functioning abnormally, then the batteries need to be replaced to resume normal operations.

THANK YOU FOR YOUR PURCHASE!

Each unit comes with full domestic customer service and a **ONE YEAR WARRANTY** for any defects. For any questions, concerns or defects please don't hesitate to reach out - customer satisfaction is our guarantee.

We can be reached by e-mail or phone from 10 AM - 5 PM PST.
- Email: customer.service@sunliteind.com
- Phone: (323)-818-2398