

OPERATIONAL NOTES

To insure trouble-free operation of your SHARP calculator, we recommend the following:

1. The calculator should be kept in areas free from extreme temperature changes, moisture, and dust
2. A soft, dry cloth should be used to clean the calculator. Do not use solvents or a wet cloth
3. Since this product is not waterproof, do not use it or store it where fluids, for example water, can splash onto it. Raindrops, water spray, juice, coffee, steam, perspiration, etc. will also cause malfunction
4. If service should be required, use only a SHARP servicing dealer, a SHARP approved service facility or SHARP repair service
5. Do not operate this unit with the insulation sheet attached; the insulation sheet prevents the battery wear while shipping, and can be found on the back of the unit's body. If the insulation sheet is not removed, the previously set date and time, as well as the tax rate information will be cleared as soon as the AC power is accidentally unplugged
6. Do not wind the AC cord around the body or otherwise forcibly bend or twist it

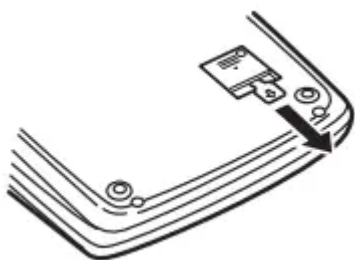
SHARP will not be liable nor responsible for any incidental or consequential economic or property damage caused by misuse and/or malfunctions of this product and its peripherals, unless such liability is acknowledged by law.

USING THE CALCULATOR FOR THE FIRST TIME

First, pull out the insulation sheet for the memory protection battery (installed for retaining the date/time/tax rate information). Reset the calculator to initialize the unit's state, then adjust the date and time before using the calculator.

Removing the insulation sheet, and resetting

1. Pull out the insulation sheet for the memory protection battery



2. Press the RESET switch located on the back of the unit

(See "RESETTING THE UNIT")

*The clock starts, indicating the current date and time as January 1, 2008, 12:00:00 a.m

OPERATING CONTROLS



POWER SWITCH; PRINT / ITEM COUNT MODE SELECTOR:

"OFF": Power OFF

"•": Power ON. Set to the non print mode.

"P": Power ON. Set to the print mode.

"P-IC": Power ON. Set to the print and item count mode.

1) For addition or subtraction, each time $\boxed{+}$ is pressed, 1 is added to the item counter, and each time $\boxed{-}$ is pressed, 1 is subtracted.

- The count is printed when the calculated result is obtained.
- Pressing of $\boxed{*}$, $\boxed{C/CE}$ $\boxed{C/CE}$ clears the counter.

2) When the grand total/rate setting mode selector is in the ON position (GT), the counter will count the number of times that the calculation results have been stored in the grand total memory. To print and clear the count, press \boxed{GT} key.

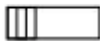
3) The memory item counter will count the number of times that the $\boxed{M+}$ key has been pressed in the addition.

Note:

- Each time the $\boxed{M-}$ key is used in the subtraction, 1 will be subtracted from the count.
- The count is printed when the memory is recalled.
- Pressing of the $\boxed{*M}$ key clears the counter.

Note: The counter has a maximum capacity of 3 digits (up to £399). If the count exceeds the maximum, the counter will recount from zero.

↑ 5/4 ↓



ROUNDING SELECTOR:

Example: Set Decimal Selector to 2.

$$4 \div 9 = 0.444 \dots, \quad 5 \div 9 = 0.555 \dots$$

	4 $\boxed{\div}$ 9 $\boxed{=}$	5 $\boxed{\div}$ 9 $\boxed{=}$
↑	0.45	0.56
5/4	0.44	0.56
↓	0.44	0.55

Note: The decimal point floats during successive calculation by the use of [% Jor [5]

If the decimal selector is set to "F then the answer is always rounded down (8).




GRAND TOTAL / RATE SETTING MODE SELECTOR:

"GT": Grand Total

"•": Neutral




"RATE SET" To set the date, time, and tax rate, et this switch at the "RATE SET" position.

Date:

- Enter in the order of month, day and year, then press  to complete the entry.
- Use  to separate month, day, and year.
- When  is pressed, the number entered is evaluated and displayed as "date" if the value is within the following range; "Error" is displayed otherwise, and the previously set date is restored.



Month: 1 - 12; day: 1 - 31; Year: 2000 - 2099 (in 4 digits) or 00 - 93 (in 2 digits)

Time:

- Enter in the order of hour, minutes, then press  to complete the entry. (There is no entry available for the seconds value. The clock starts at zero second.)
- If the hour/minute digit is less than 10, it is not necessary to enter the first digit "0".
- Use  to separate hour and minute values.
- When  is pressed, the number entered is evaluated and displayed as "time" if the value is within the following range; "Error" is displayed otherwise, and the previously set time is restored.

Hour: 0 - 23 (24-hour system for the hour entry). Minute: 0 - 59

Tax rate:

- Press  three times, enter the tax rate, followed by .
- A maximum of 4 digits can be stored (decimal point is not counted as a digit).
- Only one rate can be stored. If you enter a new rate, the previous rate will be cleared.

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



DECIMAL / ADD MODE SELECTOR:

"6 3 2 1 0" Presets the number of decimal places in the answer.

"F": The answer is displayed in the floating decimal system.

"A" The decimal point in addition and subtraction entries is automatically positioned to the 2nd digit from the lowest digit of entry number. Use of the add mode permits addition and subtraction of

numbers without entry of the decimal point. Use of ,  and  will automatically override the add mode and decimally correct answers will be printed.



CLOCK/ CALENDAR KEY:

- Each time this key is pressed, the mode switches. Calculation mode → Date display mode → Clock display mode → Calculation mode
- Use this key also to adjust date and time (see “GRAND TOTAL / RATE SETTING MODE SELECTOR”).



PAPER FEED KEY





LAST DIGIT CORRECTION KEY



NON-ADD / SUBTOTAL KEY:

Non-add — When this key is pressed right after an entry of a number in the Print mode, the entry is printed on the left-hand side with the symbol “*#”. This key is used to print out numbers not subject to calculation such as code, date, etc.


Subtotal — Used to get the sum (2) of additions and/or subtractions. When pressed following the  or  key, the subtotal is printed with the symbol “0” and the calculation may be continued.

By pressing this key even in the Non-print mode, the displayed number is printed without any symbol.

- When the POWER SWITCH; PRINT / ITEM COUNT MODE SELECTOR is set “P” or “P•IC” position, and Date or Clock is displayed, press this key to print the displayed contents, including “*#” symbol, from the left side of the paper roll.
- When the Date / Clock printing is complete, the Calculation mode is restored.



CLEAR / CLEAR ENTRY KEY

Press this key twice, followed by  to print the set tax rate.



TOTAL KEY



EQUAL KEY



CHANGE SIGN KEY:

Changes the algebraic sign of a number (i.e., positive to negative or negative to positive).



RECALL AND CLEAR MEMORY KEY



RECALL MEMORY KEY

TAX+ TAX-INCLUDING KEY

TAX- PRE-TAX KEY

AVG AVERAGE KEY:

Used to calculate the average.

GT GRAND TOTAL KEY

COST COST PRICE ENTRY KEY:

Press this key to enter the cost price.

SELL SELLING PRICE ENTRY KEY:

Press this key 10 enter the selling price.

MGN MARGIN ENTRY KEY:

Press this key 10 enter the margin.

CHANGE CHANGE CALCULATION KEY:

- To see how much change to return, have the price amount displayed, then enter the pay amount, followed by this key. The change is calculated in accordance with the DECIMAL / ADD MODE SELECTOR setup as well as the ROUNDING SELECTOR setup.
- The intermediate result of an addition or subtraction in the Change calculation is retained.
- While the POWER SWITCH / PRINT / ITEM COUNT MODE SELECTOR is placed in "P" or "P+IC", the pay amount is printed after "= <<<s=s=scce<." and the change printed with "CG".

Note: The displayed change value will not be added to the grand total memory.

DISPLAY SYMBOLS:

M : Appears when a number is in the memory.

– : Appears when a number is negative.

• : Appears when a number is in the grand total memory.

E : Appears when an overflow or other error is detected.

INK ROLLER REPLACEMENT

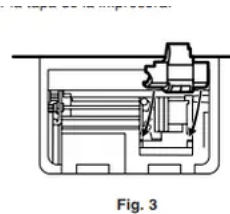
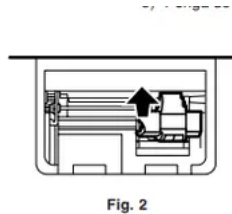
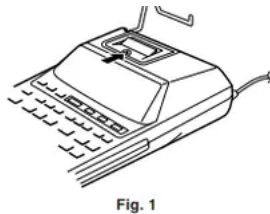
If printing is blurry even when the ink roller is in the proper position, replace the roller.

Ink roller: Type EA-TT2R

WARNING


APPLYING INK TO WORN INK ROLLER OR USE OF UNAPPROVED INK ROLLER MAY CAUSE SERIOUS DAMAGE TO PRINTER.

1. Set the power switch to OFF.
2. Remove the printer cover. (Fig. 1)
3. Hold the top of the ink roller and remove the roller by pulling it toward you and then upward. (Fig. 2)
4. Install the new ink roller in the correct position. Make sure that the roller is securely in place. (Fig. 3)
5. Put back the printer cover.



Cleaning the printing mechanism

If the print becomes dull after long time usage, clean the printing wheel according to the following procedures:

1. Remove the printer cover and the ink roller.
2. Install the paper roll and feed it until it comes out of the front of the printing mechanism.
3. Hold a small brush (like a tooth brush) lightly to the printing wheel and clean it by pressing 
4. Put back the ink roller and the printer cover.

Note: Do not rotate the printing mechanism manually, this may damage the printer.

PAPER ROLL REPLACEMENT

Always cut leading edge with scissors first.


1. Inert the loading adage of the paper mil int tha opening (Fig 1)
2. Turn the power on and feed the paper by pressing . (Fig. 2)
3. Lift the attached metal paper holder up and insert the paper roll 10 the paper holder. (Fig. 3)



Fig. 1



Fig. 2



Fig. 3

DO NOT PULL PAPER BACKWARDS AS THIS MAY CAUSE DAMAGE TO PRINTING MECHANISM.

ERRORS

There are several situations which will cause an overflow or an error condition. When this occurs, "E" will be displayed. The contents of the memory at the time of the error are retained. If an "0·E" is displayed at the time of the error, *— — — — — ~ will be printed in red and $\boxed{C/CE}$ must be used to clear the calculator.

Also, in rare cases, printing may stop midway and the indication "E" will appear on the display. This is not a malfunction but is caused when the calculator is exposed to strong electromagnetic noise or static electricity from an external source. Should this occur, press the $\boxed{C/CE}$ key and then repeat the calculation from the beginning.

Error conditions:

1. When the integer portion of an answer exceeds 12 digits.
2. When the integer portion of the contents of the memory or grand total memory exceeds 12 digits.
3. When any number is divided by zero.

REPLACEMENT OF BATTERY FOR MEMORY PROTECTION

Time for battery replacement

Life of the memory protection battery is approximately 2,500 hours at 25°C (77°F) with the power plug not connected to the socket

- When the memory protection battery is weak, the date/time setting is initialized (1/1/2008, 12:00:00 a.m.)

Verify the date/time setting in the date/clock display mode when connecting the power plug to the socket

If the date/time setting is modified or incorrect, promptly replace the memory protection battery with a new one

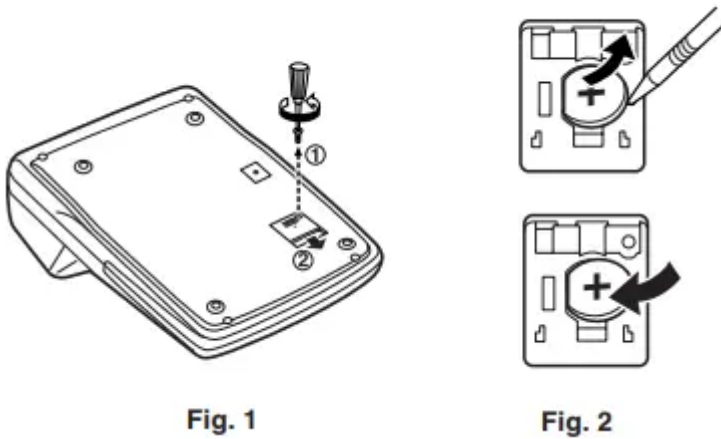
(The life of the pre-installed battery may be shorter than expected because of the time the calculator spends during shipment)

How to change the battery

Use one lithium battery (CR2032).

Caution: Replacing the battery will clear the date and time settings, and the stored tax rate.

1. Turn the power switch "OFF~ and unplug the power supply plug from the outlet.
2. Remove the battery cover on the back of the unit. (Fig. 1)
3. Remove the exhausted battery and install one new lithium battery. Wipe the battery well with a dry cloth and place the plus "+" side upward. (Fig. 2)
4. Replace the battery cover by reversing the removal procedure.
5. Press the RESET switch on the back of the unit (See "RESETTING THE UNIT").



After battery replacement

- Connect the power supply plug to an outlet and turn the power switch "ON". Check that "0." is displayed. If "0." is not displayed, remove the battery, reinstall it, and check the display again.
- Readjust date, ime, and tax rate settings.
- In the box on the right, fill in the month/year (hal you changed the battery, as a reminder of when to change it again.

Month	•	Year
	•	
	•	
	•	
	•	
	•	



Precautions on battery use

- Do not leave an exhausted battery in the equipment.
- Do not expose the battery to water or fire, and do not take it apart
- Store batteries out of the reach of small children

Notes for handling Lithium batteries:

CAUTION

Danger of explosion if battery is incorrectly replaced

Replace only with the same or equivalent type recommended by the manufacturer.

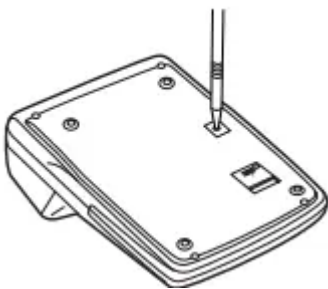
Dispose of used batteries according to the manufacturer's instructions

RESETTING THE UNIT

Strong impacts, exposure to electrical fields, or other unusual conditions may render the unit inoperative, and pressing the keys will have no effect. If this occurs, you will have to press the RESET switch on the bottom of the unit. The RESET switch should be pressed only when: an abnormal event occurs and all keys are disabled.

Notes:

- Pressing the RESET switch will clear the date and time settings, the tax rate setting, and the memory contents.
- Use only a ballpoint pen to press the RESET switch. Do not use anything breakable or anything with a sharp tip, such as a needle.
- After pressing the RESET switch, connect the power supply plug to an outlet. Turn the power switch "ON" and check that "0." is displayed.



LIMITED WARRANTY

SHARP ELECTRONICS CORPORATION warrants to the first consumer purchaser that this Sharp brand product (the "Product"), when shipped in its original container, will be free from defective workmanship and materials, and agrees that it will, at its option, either repair the defect or replace

the defective Product or part thereof with a new or remanufactured equivalent at no charge to the purchaser for parts or labor for the period(s) set forth below.

This warranty does not apply to any appearance items of the Product nor to the additional excluded item(s) set forth below nor to any Product the exterior of which has been damaged or defaced, which has been subjected to improper voltage or other misuse, abnormal service or handling, or which has been altered or modified in design or construction.

In order to enforce the rights under this limited warranty, the purchaser should follow the steps set forth below and provide proof of purchase to the servicer.

The limited warranty described herein is in addition to whatever implied warranties may be granted to purchasers by law. ALL IMPLIED WARRANTIES INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR USE ARE LIMITED TO THE PERIOD(S) FROM THE DATE OF PURCHASE SET FORTH BELOW. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

Neither the sales personnel of the seller nor any other person is authorized to make any warranties other than those described herein, or to extend the duration of any warranties beyond the time period described herein on behalf of Sharp.

The warranties described herein shall be the sole and exclusive warranties granted by Sharp and shall be the sole and exclusive remedy available to the purchaser. Correction of defects, in the manner and for the period of time described herein, shall constitute complete fulfillment of all liabilities and responsibilities of Sharp to the purchaser with respect to the Product, and shall constitute full satisfaction of all claims, whether based on contract, negligence, strict liability or otherwise. In no event shall Sharp be liable, or in any way responsible, for any damages or defects in the Product which were caused by repairs or attempted repairs performed by anyone other than an authorized servicer.

Nor shall Sharp be liable or in any way responsible for any incidental or consequential economic or property damage. Some states do not allow the exclusion of incidental or consequential damages, so the above exclusion may not apply to you.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS. YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

Your Product: Six (6) months parts and labor from date of purchase.

Warranty period for this Product: Additional Items Excluded Any consumable items such as paper, maintenance cartridge, ink cartridges supplied with the Product or to any equipment or any hardware, software, firmware, fluorescent lamp, power cords, covers, rubber parts, or peripherals other than the Product.

Where to Obtain Service : At a Sharp Authorized Servicer located in the United States. To find out the location of the nearest Sharp Authorized Servicer, call Sharp toll free at 1-800-BE-SHARP.

What to do to Obtain Service : Ship (prepaid) or carry in your Product to a Sharp Authorized Servicer. Be sure to have proof of purchase available. If you ship or mail the Product, be sure it is packaged carefully.

Warning

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