



WARNING – FCC Regulations state that any unauthorized changes or modifications to this equipment not expressly approved by the manufacturer could void the user's authority to operate this equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

SHARP CORPORATION

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OPERATIONAL NOTES

- To insure trouble-free operation of your SHARP calculator, we recommend the following:
- The calculator should be kept in areas free from extreme temperature changes, moisture, and dust.
 - A soft, dry cloth should be used to clean the calculator. Do not use solvents or a wet cloth.
 - 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.
 - If service should be required, use only a SHARP servicing dealer, a SHARP approved service facility or SHARP repair service.
 - If you pull out the power cord to cut electricity completely, the presently stored tax rate will be cleared.
 - 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.

NOTAS AL MANEJARLA

- A fin de que su calculadora SHARP funcione sin averías, le recomendamos lo siguiente:
- Evite dejar la calculadora en ambientes en que haya cambios de temperatura, humedad y polvo bastante notables.
 - Al limpiar la calculadora, utilice un paño suave y seco. No use disolventes ni tampoco un paño húmedo.
 - Debido a que este producto no es una prueba de agua, no deberá ser utilizado o guardado en lugares donde pudiera ser salpicado por líquidos, por ejemplo agua. Gotas de lluvia, salpicaduras de agua, jugos o zumos, café, vapor, transpiración, etc. también perjudican el funcionamiento del producto.
 - Si necesita reparar esta unidad, diríjase sólo a un distribuidor SHARP, a un centro de servicio autorizado por SHARP o a un centro de reparaciones SHARP.
 - Si desconecta el cable de alimentación para desconectar completamente la electricidad, la tasa de impuesto almacenada actualmente se borrará.
 - No bobine el cable de CA alrededor de la calculadora, y no lo doble o retuerza a la fuerza.

SHARP no será responsable de ningún daño imprevisto o resultante, en lo económico o en propiedades, debido al mal uso de este producto y sus periféricos, a menos que tal responsabilidad sea reconocida por la ley.

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.
- For addition or subtraction, each time $\frac{+}{-}$ is pressed, 1 is added to the item counter, and each time $\frac{=}{=}$ is pressed, 1 is subtracted.
- The count is printed when the calculated result is obtained.
 - Pressing of $\frac{C}{C}$, $\frac{CE}{CE}$ clears the counter.

Note: The counter has a maximum capacity of 3 digits (up to ± 999). If the count exceeds the maximum, the counter will recount from zero.

ROUNDING SELECTOR:
 Example: Set Decimal Selector to 2.
 $4 \div 9 = 0.444 \dots$, $5 \div 9 = 0.555 \dots$

	4	9	9	5	9	9
5/4	0.45	0.44	0.44	0.56	0.56	0.55
5/4	0.44	0.44	0.44	0.56	0.56	0.55

Note: The decimal point floats during successive calculation by the use of $\frac{X}{X}$ or $\frac{=}{=}$.
 If the decimal selector is set to "F" then the answer is always rounded down (\downarrow).

GRAND TOTAL / RATE SETTING MODE SELECTOR:

- "GT": Grand Total
 "•": Neutral
 "RATE SET": Rate setting
- Enter the adding tax rate, then press $\frac{TAX+}{TAX+}$.
 - 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.

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 $\frac{C}{C}$, $\frac{X}{X}$ and $\frac{=}{=}$ will automatically override the add mode and decimally correct answers will be printed.

- PAPER FEED KEY**
- NON-ADD / SUBTOTAL KEY**
- CLEAR / CLEAR ENTRY KEY**
- TOTAL KEY**
- EQUAL KEY**

CONTROLES DE FUNCIONAMIENTO

INTERRUPTOR DE CORRIENTE; SELECTOR DEL MODO DE IMPRESIÓN / MODO PARA CONTAR ARTÍCULOS:

- "OFF": Apagado (OFF)
 "•": Encendido (ON). Fija el modo de no impresión.
 "P": Encendido (ON). Fija el modo de impresión.
 "P-IC": Encendido (ON). Fija el modo de impresión y de cuenta de artículos.
- En las sumas o restas, cada vez que se apriete $\frac{+}{-}$ se añadirá 1 al contador de artículos, y cada vez que se apriete $\frac{=}{=}$ se restará 1.
- La cuenta queda impresa cuando se obtiene el resultado calculado.
 - Al apretar $\frac{C}{C}$, $\frac{CE}{CE}$ se borra el contenido del contador.

Note: El contador tiene una capacidad de un máximo de 3 cifras (hasta ± 999). Si la cuenta excede el máximo, el contador vuelve a contar partiendo de cero.

SELECTOR DE REDONDEO:
 Ejemplo: Fija el selector decimal en 2.
 $4 \div 9 = 0.444 \dots$, $5 \div 9 = 0.555 \dots$

	4	9	9	5	9	9
5/4	0.45	0.44	0.44	0.56	0.56	0.55
5/4	0.44	0.44	0.44	0.56	0.56	0.55

Note: El punto (= coma) decimal flota mientras se hacen cálculos sucesivos usando $\frac{X}{X}$ o $\frac{=}{=}$.
 Si el selector decimal se coloca en "F", la respuesta siempre se redondea por defecto (\downarrow).

SELECTOR DEL MODO DE TOTAL GLOBAL / FIJACIÓN DE TIPOS:

- "GT": Total global
 "•": Neutra
 "RATE SET": Fijación de tasa
- Introduzca el tipo de impuesto de suma, y luego pulse $\frac{TAX+}{TAX+}$.
 - Se podrá almacenar un máximo de 4 dígitos (la coma decimal no se cuenta como un dígito).
 - Sólo puede almacenar un tipo. Si introduce un nuevo tipo, borrará el anterior.

SELECTOR DEL MODO DE DECIMAL / SUMA:

- "6 3 2 1 0": Prefija el número de lugares decimales de la respuesta.
 "F": La respuesta aparecerá en la exhibición en el sistema decimal flotante.
 "A": El punto decimal en los registros de suma y resta se coloca automáticamente en la segunda cifra a partir de la cifra más baja del número registrado. Utilizando el modo de suma se pueden sumar y restar números sin registrar el punto decimal. El uso de $\frac{C}{C}$, $\frac{X}{X}$ y $\frac{=}{=}$ anula automáticamente el modo de suma e imprime las respuestas decimalmente correctas.

- TECLA DE AVANCE DEL PAPEL**
- TECLA DE NO SUMA / TOTAL PARCIAL**
- TECLA DE BORRADO / BORRADO DE ENTRADA**
- TECLA TOTAL**
- TECLA DE BARRA**

- CHANGE SIGN KEY:**
 Cambia el signo algebraico de un número (i.e., positivo to negativo or negativo to positivo).
- RECALL AND CLEAR MEMORY KEY**
- RECALL MEMORY KEY**
- TAX-INCLUDING KEY**
- PRE-TAX KEY**
- GRAND TOTAL KEY**
- COST PRICE ENTRY KEY:**
 Press this key to enter the cost price.
- SELLING PRICE ENTRY KEY:**
 Press this key to enter the selling price.
- MARGIN ENTRY KEY:**
 Press this key to enter the margin.

- 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-772R

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

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



Fig. 1

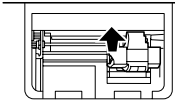


Fig. 2

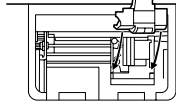


Fig. 3

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

- Remove the printer cover and the ink roller.
- Install the paper roll and feed it until it comes out of the front of the printing mechanism.
- Put a small brush (like a tooth brush) lightly to the printing wheel and clean it by pressing $\frac{R}{R}$.
- 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

Never insert paper roll if torn. Doing so will cause paper to jam.

- Always cut leading edge with scissors first.**
- Insert the leading edge of the paper roll into the opening. (Fig. 1)
 - Turn the power on and feed the paper by pressing $\frac{R}{R}$. (Fig. 2)
 - Lift the attached metal paper holder up and insert the paper roll to the paper holder. (Fig. 3)

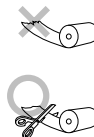


Fig. 1

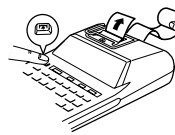


Fig. 2



Fig. 3

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

NO TIRAR DEL PAPEL HACIA ATRÁS PUES PUEDE OCASIONAR DAÑOS AL MECANISMO DE IMPRESIÓN.

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 $\frac{C}{C}$ must be used to clear the calculator. Also, in rare cases, printing may stop midway and the indication "E" 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 $\frac{C}{C}$ key and then repeat the calculation from the beginning.

- Error conditions:**
- When the integer portion of an answer exceeds 12 digits.
 - When the integer portion of the contents of the memory exceeds 12 digits.
 (Ex. $\frac{M}{M}$ 999999999999 $\frac{M}{M}$ 1 $\frac{M}{M}$)
 - When any number is divided by zero. (Ex. $5 \div 0$)

ERRORES

Existen diversos casos en los que ocurre un exceso de capacidad o una condición de error. Al producirse esto, aparecerá "E". Los contenidos de la memoria, en el momento del error, quedan retenidos. Si, al ocurrir el error, se visualiza el símbolo "0:E", se imprimirá en rojo "-----" y se deberá usar $\frac{C}{C}$ para borrar la calculadora. Además, en casos muy raros, la impresión puede pararse en la mitad, y en el visualizador puede aparecer la indicación "E". Esto no significa mal funcionamiento, sino que se debe a que la calculadora ha estado expuesta a ruido electromagnético intenso o electricidad estática de una fuente externa. Cuando ocurra esto, presione la tecla $\frac{C}{C}$ y después repita el cálculo desde el principio.

- Condiciones de error:**
- Cuando la parte entera de un resultado excede las 12 cifras.
 - Cuando la parte entera de los contenidos de la memoria supera las 12 cifras.
 (Ej. $\frac{M}{M}$ 999999999999 $\frac{M}{M}$ 1 $\frac{M}{M}$)
 - Cuando se divide un número cualquiera por un divisor de cero. (Ej. $5 \div 0$)

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