



MODEL EL-520X OPERATION MANUAL

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INTRODUCTION

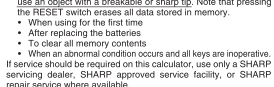
Thank you for purchasing the SHARP Scientific Calculator Model EL-520X.

Operational Notes
Do not carry the calculator around in your back pocket, as it may break when you sit down.

NOTICE
SHARP strongly recommends that separate permanent written records be kept of all important data.

Press the RESET switch (on the back) with the tip of a ballpoint pen or similar object.

Hard Case
The calculator is supplied with a hard case.



DISPLAY
Equation = 1.234 + 5.678 = 6.912

During actual use, not all symbols are displayed at the same time.

Only the symbols required for the usage under instruction are shown on the display.

Indicates the mode of expression of results in the complex calculation mode.

Indicates that data can be visible above/below the screen.

HYP: Appears when (HYP) has been pressed and the hyperbolic functions are enabled.

Variables and numerical values stored in the memories will be displayed in the variable input screen.

STATISTICAL CALCULATIONS [20]
Press (MODE) to select the statistics mode.

Single-variable statistical calculation
Statistics of 1 and value of the normal probability function.

Linear regression calculation
Statistics of 1 and 2 and, in addition, estimate of 1 for a given X.

Exponential regression, logarithmic regression, Power regression, and Inverse regression calculation.

Quadratic regression calculation
Statistics of 1 and 2 and, in addition, estimate of 1 for a given X.

Mean of samples (x data), Sample standard deviation (s data), Population standard deviation (sigma data), Number of samples.

Sum of samples (x data), Sum of squares of samples (x^2 data), Mean of samples (x data), Population standard deviation (sigma data), Sum of samples (x data), Sum of products of samples (xy data), Correlation coefficient (r data), Coefficient of regression equation, Coefficient of quadratic regression.

Data Entry and Correction [21]
Entered data are kept in memory until (DATA) or mode selection.

Two-variable data, Data x (x1) Data y (y1), Data x (x2) Data y (y2), Frequency (DATA) (To enter multiples of the same data).

Up to 100 data items can be entered. With the single-variable data, a data item without frequency assignment is counted as one data item.

Correction [22]
Calculation ended instructions other than (C) cannot be used.

Performing Calculations
Press (MODE) to display the mode selection screen.

Input a formula with an n variable, Press (START) to input the value of the flashing variable.

Input a formula with at least one variable, Press (START) to input the value of the flashing variable.

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ALPHA: Appears when (ALPHA) is pressed.

FIX/DECIMAL: Indicates the notation used to display a value.

DEGREE/RADIAN: Indicates angular units.

MODE: Press (MODE) to display the mode selection screen.

Indicates that a value is stored in the independent memory.

Indicates that the calculator is waiting for a numerical value to be entered.

Appears when the calculator shows an angle as the result in the complex calculation mode.

Indicates an imaginary number is being displayed in the complex calculation mode.

BEFORE USING THE CALCULATOR
Key Notation Used in this Manual

In this manual, key operations are described as follows:
To specify F: Press (F)
To specify X: Press (X)

Functions that are printed in orange above the key require (DRG) to be pressed first before the key.

Power On and Off
Press (ON) to turn the calculator on, and (OFF) to turn it off.

Clearing the Entry and Memories
Operation: Entry M A-F X Y ANS STAR V+ V- V=

Memory clear key
Press (MEM) to clear the memory.

Entering and Correcting the Equation
Cursor keys: Press (left), (right), (up), (down) to move the cursor.

Insert mode and Overwrite mode in the Equation display
Press (INS) to switch between the two editing modes.

Deletion key
To delete a number/function, move the cursor to the place immediately after where you wish to insert.

Multi-line Playback Function
Previous equations can be recalled in the normal mode.

Constant Calculations
In constant calculations, the added becomes a constant.

Differential Integrals
Differential and integral calculations are only available in the normal mode.

Arithmetic Operations
Press (ADD), (SUB), (MUL), (DIV) for addition, subtraction, multiplication, and division.

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Priority Levels in Calculation
Operations are performed according to the following priority:

1. Functions preceded by their argument (x^y, n!, etc.)

2. Multiplication of a memory value (Z, Y, etc.)

3. Addition, subtraction, multiplication, and division.

4. Functions preceded by their argument (x^y, n!, etc.)

INITIAL SET UP
Mode Selection
(NORMAL) Normal mode (NORMAL)

(STAT) Statistic mode (STAT)

(EQN) Equation mode (EQN)

(CPLX) Complex number mode (CPLX)

SET UP menu
Press (F) to display the SET UP menu.

When the FIX, SCI, or ENG indicator is lit, press (F) to change the display mode.

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Base Integral Calculations (Simpson's rule):

S = 1/n \* [f(a) + 4f(a+h) + 2f(a+2h) + ... + 4f(a+(n-1)h) + f(b)]

Differential calculation: f'(x) = d/dx [f(x)]

When performing integral calculations, the integrand and sub-intervals included, require the integral mode.

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Fraction Calculations [10]
Arithmetic operations and memory calculations can be performed using fractions.

If the number of digits to be displayed is greater than 10, the number is converted to and displayed as a decimal number.

Binary, Pental, Octal, Decimal, and Hexadecimal Operations (N-Base) [11]
Conversions can be performed between N-base numbers.

The four basic arithmetic operations, calculations with parentheses and memory calculations can also be performed.

Conversion to a binary, pental, octal, or hexadecimal calculation system is performed by the following keys:

(BIN) for binary, (PENT) for pental, (OCT) for octal, (DEC) for decimal, and (HEX) for hexadecimal.

Note: The hexadecimal numbers A-F are entered by pressing (HEX) (A-F) (HEX).

A = 10, B = 11, C = 12, D = 13, E = 14, F = 15

In the binary, pental, octal, and hexadecimal systems, fractional parts cannot be entered.

Time, Decimal and Sexagesimal Calculations [12]
Conversion between decimal and sexagesimal numbers can be performed.

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