

F-718S/F-718SGA/ F-718SG/F-718SA

Scientific Calculator

NOTES F-718SGA and F-718SG the top case, bottom case, battery cover and hard case in this product are made from recycled Canon copier plastic.



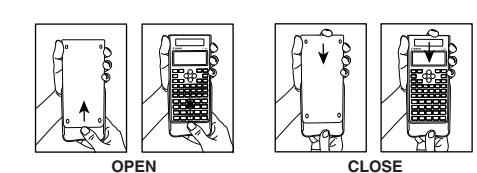
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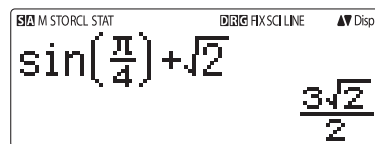
CONTENTS

Table listing sections like GETTING STARTED, INPUT RANGE AND ERROR MESSAGE, BASIC CALCULATIONS, FUNCTIONAL SCIENTIFIC CALCULATIONS, STATISTICAL CALCULATIONS, and BATTERY REPLACEMENT.

How to use the Slide Cover



DISPLAY (4-line Dot Matrix DISPLAY)



<Status Indicators>

- List of status indicators: S (Shift key), A (Alpha key), M (Independent memory), STO (Store memory), RCL (Recall memory), STAT (Statistics mode), D (Degree Mode), R (Radian Mode), G (Gradient Mode), FIX (Fixed-decimal setting), SCI (Scientific Notation), LINE (Line Display mode), Up Arrow, Down Arrow, Disp (Multi-statements Display).

GETTING STARTED

Power ON, OFF

- First time operation: 1. Pull out the battery insulation sheet... 2. Press ON, SHIFT, CLR, 3, [=] [CA] to reset the calculator.

Power ON: When ON is pressed.

Power OFF: When SHIFT, OFF are pressed.

Calculator Set-up Menu

Press SHIFT, SETUP to enter the Calculator Set-up Menu; press DOWN or UP for next / previous page.

Table with columns: Operation, Mode, LCD Indicator. Rows include COMP, STAT, TABLE.

Initial mode is COMP mode.

Calculator Set-up Menu

Press SHIFT, SETUP to enter the Calculator Set-up Menu; press DOWN or UP for next / previous page.



To select the calculator input & output format [1] Maths or [2] Line

[1] Maths – (Maths mode): The majority of calculation input and output (e.g. Fraction, pi, square root number) are shown in Mathematics textbook format.

[2] Line – (Line mode): The majority of calculation input and output are shown in the lines format. And "LINE" icon will be shown.

For the STAT mode, the Input & Display format will switch to Line mode automatically.



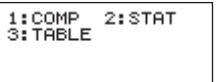
Press RIGHT to make the display contrast darken. Press LEFT to make the display contrast lighten. Press CA or ON to confirm and clear the screen.

To initialize the LCD contrast, press SHIFT, CLR, 3, [=] CA outside the Display Contrast Adjustment screen.

Mode Selection

Press MODE to enter the Calculation Mode Selection screen.

Press 1, 2, 3 to select the calculation mode.



Inputting and Display result in Maths Mode

In Maths Mode, the Input and display result of fraction or certain functions (log, x^2, x^1/x, sqrt, cube root, x^1, 10^x, e^x, Abs) is shown in Handwriting/Mathematics format.

Table showing Maths Mode examples: Example in Maths mode, Key in operation, Display. Includes sqrt(3-2/2) and sqrt(3)-sqrt(2).

Remark

- (1) Some input expressions cause the height of a calculation expression to be greater than one display screen. Maximum input capacity: 2 display screen (31 dots x 2).
- (2) Calculator memory limits how many functions or parentheses can be input in any single expression. In this case divide the expression into multiple parts and calculate separately.
- (3) If part of the expression you input is cut off after calculation and in the result display screen you can press CLR or ON to view the full expression.

INPUT RANGE AND ERROR MESSAGE

Table with columns: Calculation Precision, Input Range, Precision, Calculation Range.

Function Calculation Input Ranges

Table with columns: Functions, Input Range. Lists various trigonometric and mathematical functions and their valid input ranges.

Table with columns: Functions, Input Range. Lists functions like Pol(x,y), Rec(r,theta), nCr, nPr, LCM, GCD, and their input ranges.

Table with columns: Functions, Input Range. Lists Abs, One-variable, Two-variable, and Statistical calculations with their input ranges.

Errors are cumulative in the case of consecutive calculations, this is also true as internal consecutive calculation are performed in the case of ^((x^y)), x^y, sqrt(x), nPr, nCr, etc. And may become large.

Display of results using sqrt

Calculation results may be displayed using sqrt when all of the following cases:- 1. When intermediate and final calculation results are displayed in the following form: a/b, c/d, etc.

Order of Operations

This calculator will automatically determine the operation priority of each individual command as follows:-

Table with columns: Priority, Calculation. Lists 1st Priority (Recall memory), 2nd (Calculation within parentheses), 3rd (Function with parenthesis), 4th (Functions that come after the input value).

Table with columns: 5th, 6th, 7th, 8th, 9th, 10th, 11th, 12th. Lists Fractions, Prefix symbol, Statistical, Multiplication, Permutations, Multiplication and division, Addition and subtraction, Calculation ending instruction.

In the same precedence level, calculations are performed from left to right. Operation enclosed within parentheses is performed first. When a calculation contains an argument that is a negative number, the negative number must be enclosed within parentheses.

Example: (-) 2 X^2 = -4, (-) (-) 2 1 X^2 = (-2)^2 = 4

When same priority commands are mixed into one calculation.

Example 1: 1 1/2 + 2 = 1.5 + 2 = 3.5

Example 2: 2 to the power of 2 = 4, 1 divided by 2 = 0.5

To select the angle unit [3] Deg, [4] Rad or [5] Gra [3] Deg: Angle unit in Degree [4] Rad: Angle unit in Radian [5] Gra: Angle unit in Gradient

90 degrees = pi/2 radians = 100grads

To select display digit or notation [6] Fix, [7] Sci or [8] Norm [6] Fix: Fixed Decimal, [Fix 0-9?] appears, specify the number of decimal places by pressing [0] - [9]. Example: 220 / 7 = 31.4286 (FIX 4) = 31.43 (FIX 2)

[7] Sci: Scientific Notation, [Sci 0-9?] appears, specify the number of significant digits by pressing [0] - [9]. Example: 220 / 7 = 3.1429 x 10^1 (SCI 5) = 3.143 x 10^1 (SCI 4)

[8] Norm: Exponential Notation, [Norm 1-2?] appears, specify the exponential notation format by pressing [1] or [2]. Norm 1: Exponential notation is automatically used for integer values with more than 10 digits and decimal values with more than TWO decimal points. Norm 2: Exponential notation is automatically used for integer values with more than 10 digits and decimal values with more than NINE decimal places. Example: 1 / 1000 = 1 x 10^-3 (Norm 1) = 0.001 (Norm 2)

To select the fraction format [1] a/b or [2] d/c [1] a/b: specify Mixed fraction display [2] d/c: specify Improper fraction display

To select the statistical display format [3] STAT (1) ON: Show FREQ (Frequency) Column in Statistical Data Input Screen [2] OFF: Hide FREQ (Frequency) Column in Statistical Data Input Screen

To select the decimal point display format [4] Disp (1) Dot or [2] Comma [1] Dot: specify dot format for Decimal point result display [2] Comma: specify comma format for Decimal point result display

To Adjust Display contrast [5] CONT See "Display Contrast Adjustment" section.

Before Using the Calculator

Check the current Calculation Mode Be sure to check the status indicators that indicate the current calculation mode (COMP, STAT, TABLE), display formats setting and angle unit setting (Deg, Rad, Gra)

Return to initial setup Pressing SHIFT, CLR, 1, SETUP, [=] (YES) CA to return the initial calculator setup Calculation mode: COMP Input/Output Format: Maths Angle unit: Deg Display Digits: Norm 1 Fraction Display Format: d/c Statistical Data Input: OFF Decimal Point format: Dot This action will not clear the variable memories.

Initialize the calculator When you are not sure of the current calculator setting, you are recommended to initialize the calculator (calculation mode "COMP", angle unit "Degree", and clear reply and variable memories), and LCD contrast by pressing SHIFT, CLR, 3, (All) [=] (YES) CA.

INPUTTING EXPRESSIONS AND VALUES

Input Capacity F-718S allows you to input a single calculation up to 99 bytes. Normally, one byte is used as each time you press one of the numeric keys, arithmetic keys, scientific function keys or [Ans]. Some functions require 4 - 13bytes. When input capacity is less than 10bytes, the input cursor will change from "I" to "I" that notifying the memory is running now.

Input Editing

New Input begins on the left of display. If input data are more than 15 characters, the line will scroll to the right consecutively. You can scroll back to the left by using LEFT and RIGHT to review the input

In Line mode, press RIGHT to let the cursor jump to the beginning of inputting, while LEFT will jump to the end.

In Maths mode, press RIGHT to let the cursor jump to the beginning of inputting while it is at the end of the input calculation. Or press LEFT to let the cursor jump to the end of inputting while it is at the beginning of the input calculation.

Omit the multiplication sign and final close parenthesis. Example: 2 x log 100 x (1+3) = 16

Table showing input and display for Operation 1 and Operation 2. Operation 1: Including 2 * log 100 * (1+3) = 16. Operation 2: Omitting 2 * log 100 * (1+3) = 16.

*1. Omit multiplication sign (x) - Input before an open parentheses () : 1 x (2+3) - Input before scientific functions that includes parenthesis: 2 x cos(30) - Input before Random number function Read - Input before Variable (A, B, C, D, X, Y, M), pi, e

*2. Scientific functions come with the open parenthesis. Example: sin(, cos(, Pol(, LCM(... You need to input the argument and the close parenthesis).

*3. Omit the last close parenthesis before the [=], [M+], [=], SHIFT, [=].

Insert and overwrite input mode

In Line mode, you can use INSERT or overwrite mode for inputting. - In Insert mode (Default input mode), the cursor is a vertical flashing line "I" for inserting a new character. - In overwrite mode, press SHIFT, INSERT key to switch the cursor to a flashing horizontal () and replace the character at the current cursor position.

Whenever the display format changes from Line mode to Maths mode, it will automatically switch to the insert mode.

Deleting and Correcting an Expression In insert mode: Move the cursor to the right of the character or function that needs to be deleted, then press DEL.

In overwrite mode: Move the cursor under the character or function being deleted, then press DEL.

Example: 1234567 + 889900

(1) Replace an entry (1234567 -> 1234560)

Table showing mode settings and key operations for replacing an entry. Method 1: Line/Maths mode - 1234567 + 889900. Method 2: Line mode - Overwrite mode - 1234567 + 889900.

(2) Deletion (1234567 -> 134567)

Table showing mode settings and key operations for deletion. Method 1: Line/Maths mode - Insert mode - 1234567 + 889900. Method 2: Line mode - Overwrite mode - 1234567 + 889900.

(3) Insertion (889900 -> 2889900)

Table showing mode settings and key operations for insertion. Line/Maths mode - 1234567 + 889900. Insert mode - 1234567 + 2889900.

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