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Casio fx-300MS Plus 2nd Edition Scientific Calculator Instruction Manual

Model: FX-300MSPLUS2

1. INTRODUCTION

Thank you for choosing the Casio fx-300MS Plus 2nd Edition Scientific Calculator. This calculator is designed to support a wide range of mathematical and scientific calculations, making it an ideal tool for students from middle school through high school, as well as for general use.

Its sleek design features a dual-line, 10-digit LCD display that allows for simultaneous viewing of expressions and results, reducing input errors and enhancing the learning experience. The calculator includes a protective case for safe storage and transportation, and operates on both solar power and battery backup for reliable performance.

Key Features:

- **Clear 2-Line Display:** Dual-line, 10-digit LCD for simultaneous expression and result viewing.
- **Scientific Functions:** Covers trigonometric, inverse/hyperbolic functions, factorials, logarithms, and probability simulations.
- **Statistical Calculations:** Supports two-variable statistics, standard deviation, and regression analysis.
- **Fraction & Variable Memory:** Easy conversion between improper fractions, mixed numbers, and decimals; stores up to 9 variables.
- **Durable Design:** Includes a hard protective case and ergonomic layout.
- **Dual Power Source:** Solar-power with battery back-up (1 LR44 battery included).



Figure 1: Front view of the Casio fx-300MS Plus 2nd Edition Scientific Calculator.

2. SETUP

2.1 Battery Installation

The calculator comes with one LR44 battery pre-installed, which serves as a backup power source. The primary power source is solar. If the display becomes dim or unresponsive in sufficient light, the battery may need replacement.

1. Ensure the calculator is turned off.

2. Locate the battery compartment cover on the back of the calculator.
3. Using a small screwdriver, carefully remove the screw(s) securing the cover.
4. Remove the cover and replace the old LR44 battery with a new one, ensuring correct polarity (+/-).
5. Replace the battery compartment cover and secure it with the screw(s).

2.2 Initial Power-On

To turn on the calculator, press the **[ON]** button. The calculator will display '0' on the screen. If the display is blank, ensure there is sufficient light for the solar panel or check the battery installation.

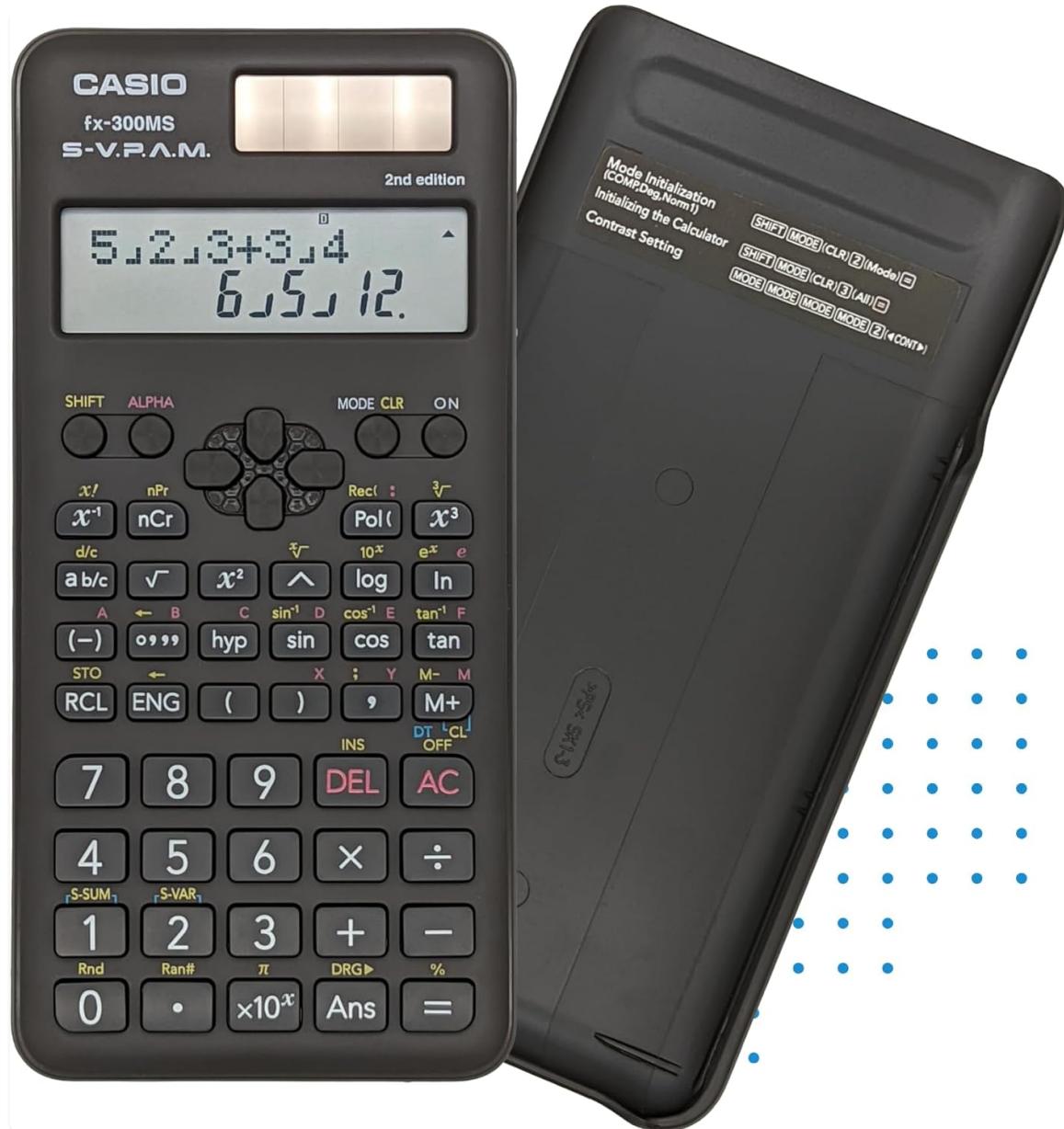


Figure 2: The calculator with its sliding protective case, which also shows the back of the unit.

3. OPERATING INSTRUCTIONS

This section provides a guide to the various functions and operations of your Casio fx-300MS Plus

3.1 Basic Calculations

Enter numbers using the numeric keypad and perform operations using the **[+]**, **[-]**, **[\times]**, and **[\div]** buttons. Press **[=]** to display the result.

3.2 Scientific Functions

The calculator offers a wide array of scientific functions. Many functions are accessed by pressing the **[SHIFT]** key followed by the desired function key (indicated in yellow above the keys).

- **Trigonometric Functions:** Use **[sin]**, **[cos]**, **[tan]** for sine, cosine, and tangent. Inverse functions (**sin⁻¹**, **cos⁻¹**, **tan⁻¹**) are accessed via **[SHIFT]**.
- **Logarithms:** Use **[log]** for base-10 logarithm and **[ln]** for natural logarithm.
- **Powers and Roots:** Use **[x²]** for square, **[\sqrt{x}]** for square root, **[x³]** for cube, and **[$\sqrt[3]{x}$]** for cube root. General powers (**[^ax]**) and roots (**[SHIFT] [^ax]**) are also available.
- **Factorials:** Use **[x!]** (accessed via **[SHIFT]**) for factorial calculations.

3.3 Fraction Calculations

The dedicated fraction key **[a b/c]** allows for easy entry and calculation of fractions and mixed numbers. Use **[SHIFT] [a b/c]** to convert between improper fractions, mixed numbers, and decimal equivalents.

3.4 Statistical Calculations

To enter Statistics Mode, press **[MODE]** and select the appropriate statistical option (e.g., SD for standard deviation, REG for regression). Follow the on-screen prompts to input data and perform calculations.

3.5 Variable Memory

The calculator can store up to 9 variables (A-F, X, Y, M). To store a value, enter the number, press **[STO]**, and then press the alpha key corresponding to the desired variable (e.g. **[ALPHA] [A]**). To recall a value, press **[RCL]** and the variable key.

CASIO®

Key Features

- Simple dual-line display
- Improper fraction and mixed number calculation
- Random number generator
- Trigonometric functions
- Permutations and combinations
- Stores up to nine variables
- Degrees, radians, or gradians
- Last Answer Recall

Super for viewing the expression and its result simultaneously.

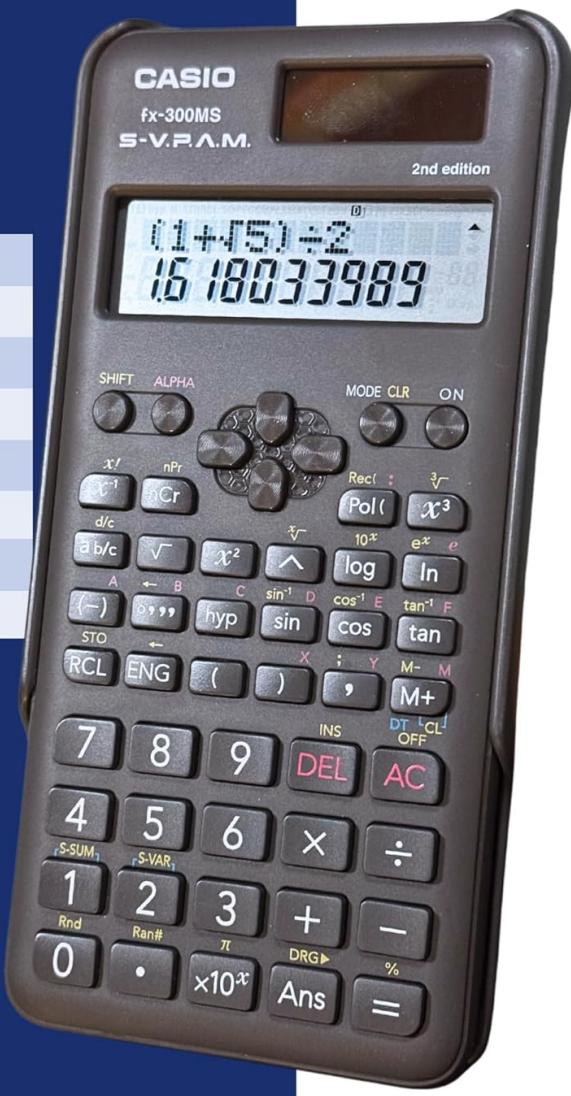


Figure 3: Key features of the Casio fx-300MS Plus 2nd Edition, including dual-line display and various functions.



SCIENTIFIC	fx-260 SOLAR II	fx-300MS Plus 2	fx-300ES Plus 2	fx-115ES Plus 2	fx-991CW
PSAT®/NMSQT®	✓	✓	✓	✓	✓
SAT® I/II	✓	✓	✓	✓	✓
ACT®	✓	✓	✓	✓	✓
AP® Exams	✓	✓	✓	✓	✓
IB® Exams	✓	✓	✓	✓	✓

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Figure 4: The Casio fx-300MS Plus 2nd Edition is permitted on various standardized tests like AP, SAT, PSAT/NMSQT, and ACT.

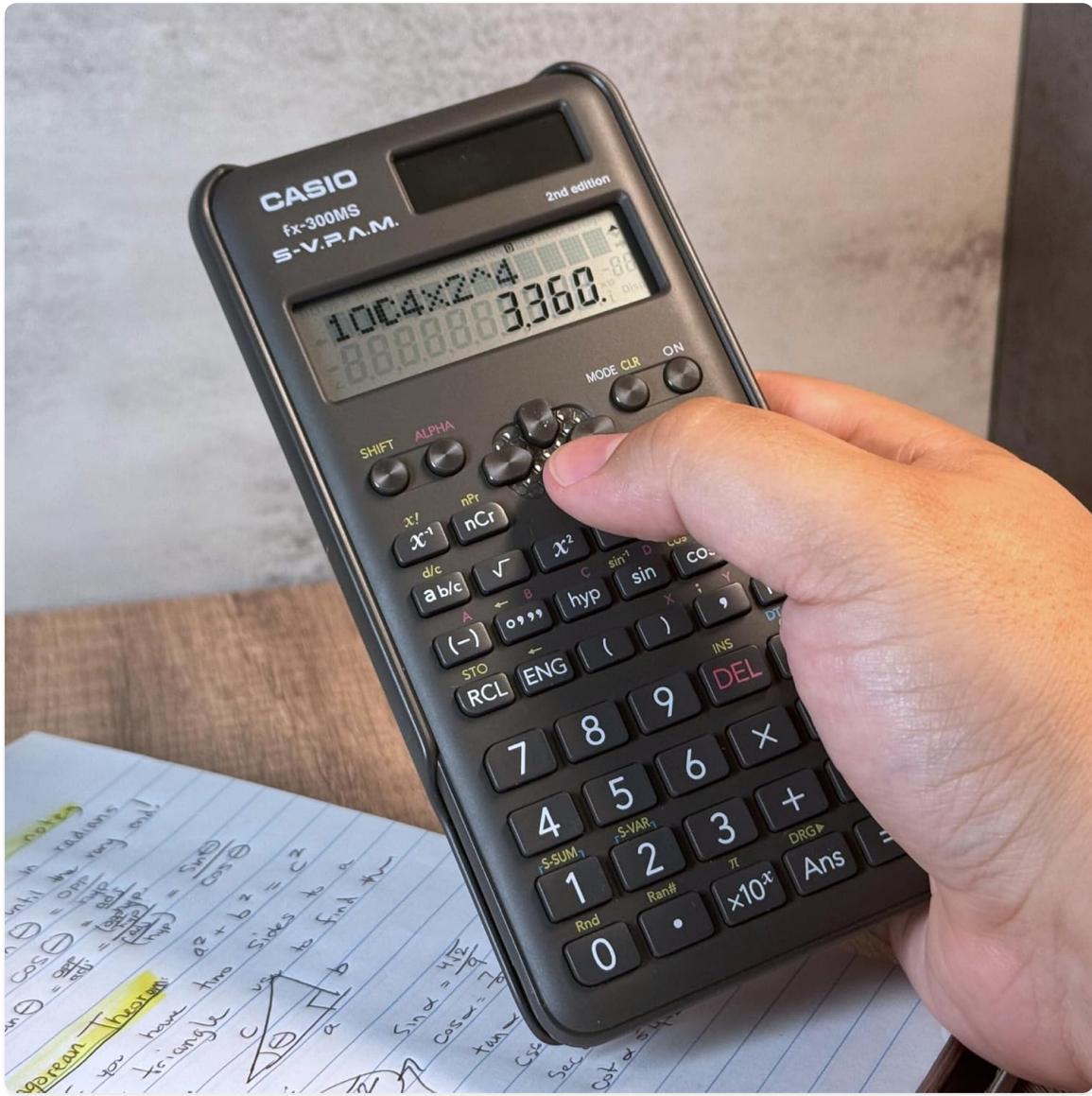


Figure 5: A hand demonstrating the operation of the Casio fx-300MS Plus 2nd Edition Scientific Calculator.

3.6 Modes and Settings

Press the **[MODE]** button to cycle through different calculation modes (e.g., COMP for basic arithmetic, STAT for statistics). The **[SETUP]** button (accessed via **[SHIFT] [MODE]**) allows you to configure display settings, angle units (degrees, radians, grads), and number formats.

3.7 Turning Off

To turn off the calculator, press **[SHIFT]** followed by **[AC]** (OFF).

3.8 Product Overview Video

Your browser does not support the video tag.

Video 1: A detailed product overview of the Casio fx-300MS Plus 2nd Edition Scientific Calculator, demonstrating its features and design.

4. MAINTENANCE

4.1 Cleaning

To clean the calculator, use a soft, dry cloth. For stubborn dirt, lightly dampen the cloth with water and a mild detergent, then wipe dry. Avoid using strong solvents or abrasive cleaners, as these can damage the calculator's surface or display.

4.2 Storage

When not in use, store the calculator in its protective hard case to prevent scratches and damage. Keep it away from extreme temperatures, humidity, and direct sunlight. The solar panel requires light to function, but prolonged exposure to intense heat can be detrimental.

4.3 Battery Replacement

If the display becomes dim or calculations are slow, even in good lighting, it may be time to replace the LR44 backup battery. Refer to section 2.1 for battery installation instructions.

5. TROUBLESHOOTING

- Display is blank:** Ensure the calculator is in sufficient light for the solar panel. If it remains blank, replace the LR44 backup battery.
- Incorrect results:** Check the current mode (e.g., degrees vs. radians for trigonometric functions). Press **[SHIFT] [MODE]** to access setup and adjust settings. Ensure correct input of numbers and operations.
- Calculator freezes:** Press the **[AC]** button to clear the current calculation. If the issue persists, try removing and reinserting the battery to perform a hard reset.
- Buttons are unresponsive:** Ensure no debris is lodged under the keys. Clean the calculator as described in section 4.1.

6. SPECIFICATIONS

Feature	Specification
Product Dimensions	3.2 x 0.75 x 6.25 inches
Item Weight	6.4 ounces
Item Model Number	FX-300MSPLUS2
Batteries	1 LR44 battery required (included)
Calculator Type	Engineering/Scientific
Power Source	Battery/Solar

Screen Size	3 Inches
Color	Black

7. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the documentation included with your product packaging or visit the official Casio website. Keep your purchase receipt as proof of purchase for any warranty claims.

For additional resources and product information, you may visit the [Casio Store on Amazon](#).

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