## Casio fx-83GTCW

# Casio fx-83GTCW Scientific Calculator User Manual

Model: fx-83GTCW

## 1. Introduction

The Casio fx-83GTCW is an advanced scientific calculator designed for students and professionals. It features a high-definition display and improved menu navigation, making complex calculations and expressions easier to understand. This model is approved for use in UK exams, including GCSE, National and Higher, Junior and Leaving qualifications.

### Key Features:

- Natural Textbook Display: Shows mathematical expressions as they appear in textbooks.
- Enhanced Menu Navigation: Intuitive interface for accessing functions.
- Approved for UK Exams: Suitable for GCSE, National and Higher, Junior and Leaving.
- Over 290 Functions: Comprehensive set of scientific and statistical functions.
- Protective Hard Cover: Included for durability and protection.

## 2. Setup

### 2.1 Battery Installation

The Casio fx-83GTCW requires one AAA battery, which is included. To install or replace the battery:

1. Ensure the calculator is turned **OFF**.
2. Locate the battery compartment cover on the back of the calculator.
3. Slide the cover off in the direction indicated by the arrow.
4. Insert the AAA battery, ensuring the positive (+) and negative (-) terminals are correctly aligned.
5. Replace the battery compartment cover until it clicks securely into place.

**Note:** Always use a fresh AAA battery. Incorrect battery installation can prevent the calculator from functioning or cause damage.

### 2.2 Initial Power On

Press the **ON** button to power on the calculator. The display will show the initial screen. If the display does not appear,

check the battery installation.

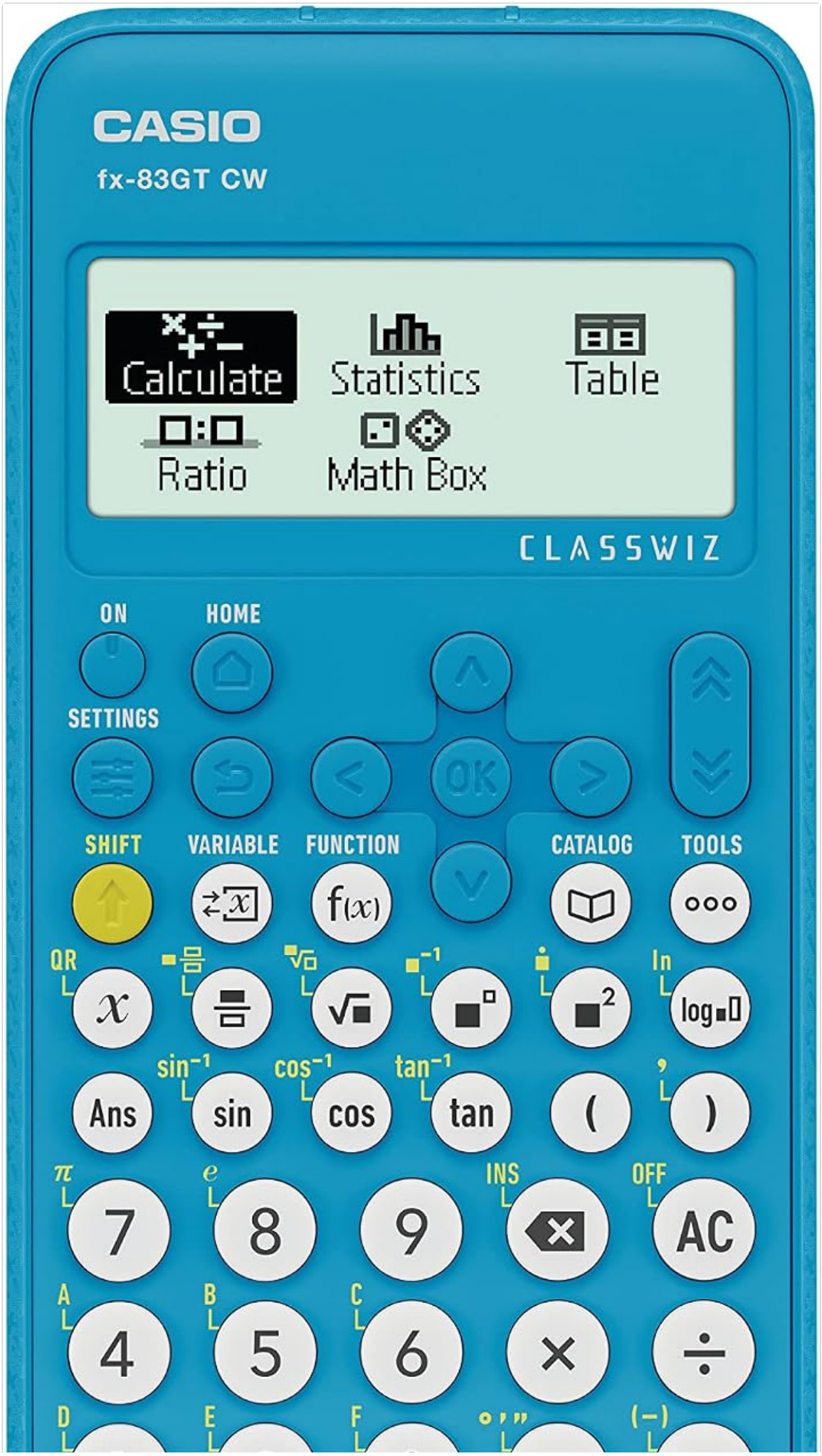





*Image: Front view of the Casio fx-83GTCW Scientific Calculator, showing the display and key layout.*

## 3. Operating Instructions

### 3.1 Basic Operations

To perform basic arithmetic calculations:

- Enter numbers using the numeric keypad (**0-9**, **.**).
- Use the operation keys (**+**, **-**, **×**, **÷**) for addition, subtraction, multiplication, and division.
- Press **EXE** or **=** to get the result.
- The **AC** button clears the current entry or calculation.
- The **DEL** button deletes the last entered character.

### 3.2 Function Menu Navigation

The fx-83GTCW features an intuitive menu system. Press the **HOME** button to access the main menu, which includes options like Calculate, Statistics, Table, Ratio, and Math Box. Use the arrow keys (▲ ▼ ◀ ▶) to navigate and **OK** to select an option.




*Image: The Casio fx-83GTCW calculator shown with its blue protective slide-on cover.*

### 3.3 Scientific Functions

Access secondary functions printed above keys by pressing the **SHIFT** key followed by the desired function key. Common scientific functions include:

- **sin**, **cos**, **tan**: Trigonometric functions.
- **log**, **ln**: Logarithmic functions.
- √, $x^2$, $x^3$: Square root, square, and cube.
- $x^{-1}$, **x!**: Reciprocal and factorial.
- **π**: Pi constant.

### 3.4 Displaying Fractions and Roots

The Natural Textbook Display allows fractions and roots to be shown in their natural form. Use the fraction key (**a**/**b** or similar symbol) to input fractions. To convert between fraction and decimal format, use the **S↔D** key (or similar, often

labeled **FORMAT** or **S-D**).

### 3.5 Statistics Mode

From the **HOME** menu, select **Statistics** to perform statistical calculations. You can input data and calculate mean, standard deviation, regression, and other statistical values.

### 3.6 Table Mode

Select **Table** from the **HOME** menu to generate a number table for a given function (e.g., f(x) = ax + b). This is useful for exploring function behavior over a range of values.

### 3.7 Ratio Mode

The **Ratio** mode, accessible from the **HOME** menu, allows you to solve ratio problems by inputting three known values to find the fourth unknown value.

### 3.8 Math Box

The **Math Box** feature provides tools for mathematical exploration, such as dice roll simulations and coin toss simulations, which can be useful for probability studies.

## 4. Maintenance

### 4.1 Cleaning

To clean the calculator, wipe it with a soft, dry cloth. For stubborn dirt, lightly dampen the cloth with water and then wipe dry. Do not use harsh chemicals, abrasive cleaners, or solvents, as these can damage the calculator's casing and display.

### 4.2 Storage

Store the calculator in a cool, dry place away from direct sunlight and extreme temperatures. Always use the provided protective hard cover to prevent scratches and damage to the keys and display when not in use.

### 4.3 Battery Care

If the calculator will not be used for an extended period, it is recommended to remove the AAA battery to prevent leakage and potential damage to the device.

## 5. Troubleshooting

- **Calculator does not turn on:** Check if the AAA battery is correctly installed and has sufficient charge. Replace the battery if necessary.
- **Display is dim or blank:** This usually indicates low battery power. Replace the AAA battery.
- **Incorrect calculation results:** Ensure you are in the correct mode (e.g., Degree/Radian for trigonometric functions). Reset the calculator to its default settings if issues persist (refer to the full manual for reset procedures, typically involving a small reset button on the back or a key combination).
- **Keys are unresponsive:** Clean around the keys to remove any debris. If the problem persists, contact customer support.

## 6. Specifications

| Feature | Detail |
| --- | --- |

| | |
|---|---|
| Model Number | FX-83GTCW |
| Dimensions (L x W x H) | 6.38 x 3.03 x 0.55 inches |
| Item Weight | 5.3 ounces |
| Power Source | 1 x AAA Battery (included) |
| Display Type | Natural Textbook Display |
| Functions | Over 290 functions (Scientific, Statistical, Table, Ratio, Math Box) |
| Color | Blue |

## 7. Warranty and Support

The Casio fx-83GTCW Scientific Calculator typically comes with a manufacturer's warranty. Please refer to the warranty card included with your product for specific terms and conditions, including the warranty period (e.g., 3-year guarantee mentioned in product images). For technical support, replacement parts, or service inquiries, please visit the official Casio website or contact Casio customer service in your region.

**Online Resources:** For additional guides, FAQs, and software updates, visit theCasio Official Website.

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