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Texas Instruments TI-55 III

Texas Instruments TI-55 III Scientific Calculator User Manual

Comprehensive Guide for Operation and Features

INTRODUCTION TO THE TI-55 III SCIENTIFIC CALCULATOR

The Texas Instruments TI-55 III is an advanced scientific calculator designed to assist users in a wide range of mathematical, scientific, business, and everyday calculations. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your TI-55 III calculator, enabling you to leverage its powerful features effectively.

For detailed examples and advanced techniques on applying the TI-55 III as a decision-making tool, refer to the comprehensive guide book available separately.

SETUP AND INITIAL USE

1. Battery Installation

The TI-55 III operates on standard batteries (e.g., two AA batteries, specific type may vary by model revision). Follow these steps to install or replace batteries:

1. Ensure the calculator is turned **OFF**.
2. Locate the battery compartment cover on the back of the calculator.
3. Slide or unclip the cover to open it.
4. Insert new batteries, observing the correct polarity (+ and -) as indicated inside the compartment.
5. Replace the battery compartment cover securely.

Note: Remove batteries if the calculator will not be used for an extended period to prevent leakage.

2. Initial Power On

Press the **ON/OFF** button to power on the calculator. The display should show "0." or a similar initial state. If the display is blank, check battery installation or replace batteries.

OPERATING THE TI-55 III CALCULATOR

The TI-55 III features a user-friendly interface for performing various calculations.

Basic Operations

- **Addition, Subtraction, Multiplication, Division:** Enter the first number, press the desired operation key (+, -, ×, ÷), enter the second number, then press =.
- **Clear Entry/Clear All:** Use **CE/C** to clear the last entry or the entire calculation.

Scientific Functions

Access scientific functions using the dedicated keys or the **2nd** function key.

- **Trigonometric Functions: SIN, COS, TAN** and their inverses (**2nd SIN⁻¹**, etc.). Ensure the correct angle mode (DEG, RAD, GRAD) is selected using the **DRG** key.
- **Logarithmic Functions: LOG** (base 10) and **LN** (natural logarithm).
- **Powers and Roots: x², √x, y^x.**
- **Factorials: n!** (often accessed via **2nd** function).

Memory Functions

Store and recall numbers using the memory keys:

- **STO:** Store a number into memory.
- **RCL:** Recall a number from memory.
- **SUM:** Add a number to the current memory value.
- **EXC:** Exchange the display value with the memory value.

Programming Features

The TI-55 III offers basic programming capabilities, allowing users to store and execute sequences of keystrokes for repetitive calculations. Consult the detailed guide book for instructions on creating, editing, and running programs.

MAINTENANCE AND CARE

Cleaning

To clean your calculator, use a soft, dry cloth. For stubborn dirt, slightly dampen the cloth with water or a mild, non-abrasive cleaner. **Do not use strong solvents or immerse the calculator in liquid.**

Storage

Store the calculator in a cool, dry place away from direct sunlight and extreme temperatures. If storing for an extended period, remove the batteries.

TROUBLESHOOTING COMMON ISSUES

- **Calculator does not turn on:**
 - Check battery installation and ensure correct polarity.
 - Replace old or depleted batteries with new ones.
 - Ensure the **ON/OFF** button is pressed firmly.
- **Blank or dim display:**

- Replace batteries.
 - Ensure the calculator is not exposed to extreme cold, which can affect LCD performance.
- **Incorrect calculation results:**
 - Verify input values and operation sequence.
 - Check the current angle mode (DEG, RAD, GRAD) for trigonometric functions.
 - Clear all memory and previous calculations using the appropriate clear function.
- **Keys are unresponsive:**
 - Clean the calculator surface around the keys.
 - Replace batteries, as low power can sometimes affect key responsiveness.

SPECIFICATIONS

Below are general specifications for the Texas Instruments TI-55 III Scientific Calculator. Specific details may vary slightly by manufacturing batch.

Feature	Detail
Display	Liquid Crystal Display (LCD), 10-digit mantissa + 2-digit exponent
Power Source	2 x AA Batteries (typical)
Functions	Scientific, Statistical, Programmable
Memory	Multiple memory registers, program memory
Dimensions (Approx.)	150mm x 80mm x 15mm (L x W x H)
Weight (Approx.)	120g (excluding batteries)

WARRANTY INFORMATION

Texas Instruments products are manufactured to high-quality standards. This calculator typically comes with a limited warranty covering defects in materials and workmanship for a period of one year from the date of purchase. Please retain your proof of purchase for warranty claims. The warranty does not cover damage caused by misuse, accident, unauthorized repair, or normal wear and tear. For full warranty terms and conditions, please refer to the documentation included with your purchase or visit the official Texas Instruments website.

CUSTOMER SUPPORT

For technical assistance, troubleshooting beyond this manual, or warranty service, please contact Texas Instruments Customer Support:

- **Website:** Visit the official Texas Instruments support website for FAQs, downloads, and contact options.
- **Phone:** Refer to the contact information provided in your product packaging or on the TI website for regional support numbers.
- **Online Resources:** Explore online forums and communities for user-generated tips and solutions.

When contacting support, please have your calculator model number (TI-55 III) and purchase details ready.