Sharp EL-145T

Sharp EL-145T BL Calculator User Manual

Model: EL-145T BL

1. INTRODUCTION

This manual provides detailed instructions for the proper use and maintenance of your Sharp EL-145T BL 14-digit desktop calculator. Designed for office tasks, this calculator features tax calculation, percentage calculation, root calculation, and a 4-key memory system. It operates using both solar power and a backup battery, ensuring reliable performance.

Please read this manual thoroughly before using the calculator to ensure optimal performance and longevity.

2. SAFETY INFORMATION

- Do not expose the calculator to direct sunlight for extended periods or to extreme temperatures.
- Avoid dropping the calculator or subjecting it to strong impacts.
- Keep the calculator away from water and other liquids.
- Do not attempt to disassemble or modify the calculator. Refer all servicing to qualified personnel.
- Dispose of batteries according to local regulations.

3. PRODUCT OVERVIEW

The Sharp EL-145T BL is a compact and efficient 14-digit desktop calculator. Its angled LCD display enhances readability, making it suitable for various calculations.

Figure 1: Front view of the Sharp EL-145T BL calculator, showing the 14-digit display, solar panel, and key layout. The calculator features a black body with blue accents.

Key Features:

- 14-digit angled LCD display for clear viewing.
- Dual power source: Solar and battery (1 x LR-54/LR44).
- Dedicated tax calculation keys (+TAX, -TAX, RATE SET, RATE RECALL).
- Percentage calculation function (%).
- Square root calculation (√).
- 4-key memory functions (M+, M-, RM, CM).
- Clear Entry (CE) and All Clear (CA/C) keys.

Components:

The calculator consists of a main unit with a display panel, a solar panel, and a keypad. The keypad includes numeric keys (0-9, .), arithmetic operation keys (+, -, ×, ÷, =), and special function keys.
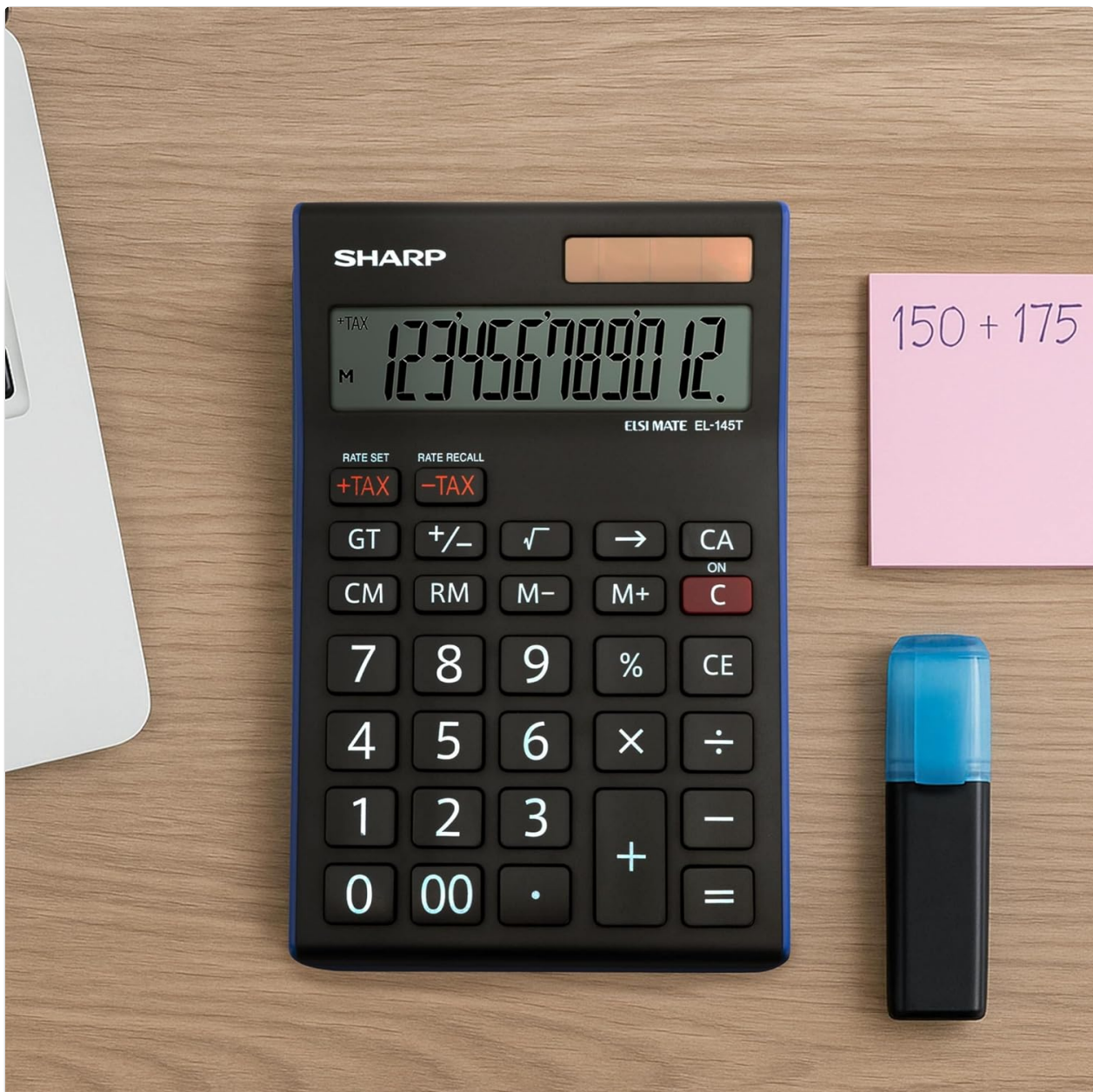
Figure 2: The Sharp EL-145T BL calculator positioned on a wooden desk, demonstrating its compact size and suitability for office environments. A highlighter and sticky note are visible nearby.

4. SETUP

Power Source:

The EL-145T BL calculator is designed for dual power operation:

- **Solar Power:** The calculator primarily operates on solar power when sufficient light is available. Ensure the solar panel (located above the display) is exposed to light.
- **Battery Power:** A backup battery (1 x LR-54 or LR44) is included to provide power in low-light conditions.

Battery Installation/Replacement:

1. Ensure the calculator is turned off or in a well-lit area to utilize solar power.
2. Locate the battery compartment cover on the back of the calculator.
3. Carefully remove the cover.

4. Insert a new LR-54 or LR44 battery, ensuring the correct polarity (+/-) as indicated inside the compartment.
5. Replace the battery compartment cover securely.

Note: The calculator may power on automatically once sufficient light or battery power is detected.

5. OPERATING INSTRUCTIONS

Basic Arithmetic Operations:

Enter numbers and use the standard arithmetic keys (+, -, ×, ÷) followed by the equals key (=) to perform calculations.

- **Addition:** **[Number 1] [+] [Number 2] [=]**
- **Subtraction:** **[Number 1] [-] [Number 2] [=]**
- **Multiplication:** **[Number 1] [×] [Number 2] [=]**
- **Division:** **[Number 1] [÷] [Number 2] [=]**

Clear Functions:

- **[CA/C] (All Clear):** Clears all entries and memory, resetting the calculator.
- **[CE] (Clear Entry):** Clears the last entered number or the current calculation result without affecting previous entries or memory.

Percentage Calculation:

To calculate percentages, use the **[%]** key.

- **Example:** Calculate 15% of 200.
  Enter **[200] [×] [15] [%]**. The result will be 30.
- **Example:** Add 15% to 200.
  Enter **[200] [+] [15] [%]**. The result will be 230.

Tax Calculation:

The calculator features dedicated keys for tax calculations. First, set the tax rate.

1. **Setting the Tax Rate:**
    Enter the tax rate (e.g., **[8]** for 8%). Press **[RATE SET]**. The tax rate is now stored.
2. **Adding Tax:**
    Enter the amount (e.g., **[100]**). Press **[+TAX]**. The display will show the amount with tax added.
3. **Subtracting Tax:**
    Enter the amount (e.g., **[108]**). Press **[-TAX]**. The display will show the amount with tax removed.
4. **Recalling Tax Rate:**
    Press **[RATE RECALL]** to view the currently set tax rate.

Memory Functions:

The 4-key memory allows you to store and recall values.

- **[M+] (Memory Plus):** Adds the displayed value to the memory.
- **[M-] (Memory Minus):** Subtracts the displayed value from the memory.

- **[RM] (Recall Memory):** Displays the value currently stored in memory.
- **[CM] (Clear Memory):** Clears the memory content. (Often combined with RM, pressing RM twice clears memory).

Square Root Calculation:

To calculate the square root of a number, enter the number and then press the [√] key.

- **Example:** Calculate the square root of 81.
  Enter **[81] [√]**. The result will be 9.

6. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the calculator's exterior. For stubborn dirt, slightly dampen the cloth with water and a mild detergent, then wipe dry immediately. Do not use abrasive cleaners or solvents.
- **Storage:** When not in use for extended periods, store the calculator in a cool, dry place away from direct sunlight and extreme temperatures.
- **Battery Life:** The battery life is approximately 2 years when used for 1 hour per day under solar power. Replace the battery when the display becomes dim or erratic in low light.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Display is blank or dim.	Insufficient light for solar power, or low battery.	Move the calculator to a brighter area. Replace the LR-54/LR44 battery.
Incorrect calculation results.	Incorrect key input, or memory not cleared.	Double-check your input. Press **[CA/C]** to clear all and restart the calculation. Clear memory with **[CM]**.
Keys are unresponsive.	Calculator frozen, or power issue.	Press **[CA/C]**. If unresponsive, remove and reinsert the battery (if applicable) or ensure sufficient light for solar power.

8. SPECIFICATIONS

Feature	Detail
Model	EL-145T BL
Display	14-digit LCD
Power Source	Solar Powered with 1 x LR44 (or LR-54) battery backup
Functions	Basic arithmetic, Percentage (%), Tax calculation (+TAX, -TAX, RATE SET, RATE RECALL), Square Root (√), 4-key Memory (M+, M-, RM, CM)

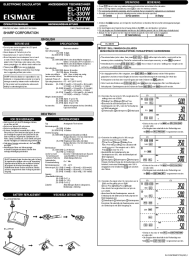| Feature	Detail
Dimensions (L x W x H)	Approximately 11.2 cm x 17.6 cm x 1.3 cm (4.41" x 6.93" x 0.51")
Weight	Approximately 125 g (0.28 lbs)
Material	Plastic
Color	Black/Blue

9. WARRANTY AND SUPPORT

Sharp products are manufactured to high-quality standards. For specific warranty information, please refer to the warranty card included with your purchase or contact your local Sharp customer support. Keep your purchase receipt as proof of purchase.

For further assistance or inquiries, please visit the official Sharp website or contact their customer service department.

Related Documents - EL-145T

[Sharp EL-310W, EL-330W, EL-377W Electronic Calculator Operation Manual](#)
Comprehensive operation manual for the Sharp EL-310W, EL-330W, and EL-377W electronic calculators, detailing specifications, usage instructions, cost/sell/margin calculations, tax calculations, and conversion functions.

[Sharp EL-1611V Electronic Printing Calculator Operation Manual](#)
Comprehensive operation manual for the Sharp EL-1611V electronic printing calculator, covering setup, controls, operations, maintenance, and specifications. Learn how to use its printing, tax, and memory functions.

[SHARP EL-1901 Paperless Printing Calculator Operation Manual](#)
This operation manual provides detailed instructions for the SHARP EL-1901 Paperless Printing Calculator, covering its features, controls, operation modes, calculation examples, and maintenance.

[Sharp ELSI MATE EL-244W, EL-310W, EL-377W Electronic Calculator Operation Manual](#)

Official operation manual for the Sharp ELSI MATE EL-244W, EL-310W, and EL-377W electronic calculators, covering features, specifications, basic calculations, tax calculations, and battery replacement. Provides detailed instructions and operational guidance.

[SHARP EL-546XTBSL Scientific Calculator: Operations Manual and Examples](#)

Comprehensive guide to the SHARP EL-546XTBSL scientific calculator, featuring detailed explanations and examples for COMP, STAT, MTR, BASE, MLT, and CPLX modes. Learn to use its advanced functions for mathematics, statistics, and more.

[Sharp EL-244W, EL-310W, EL-377W Electronic Calculator Operation Manual](#)

Operation manual for Sharp EL-244W, EL-310W, and EL-377W Elsi Mate electronic calculators, covering basic operations, tax calculations, and battery replacement.