

Cat. No. 65-754

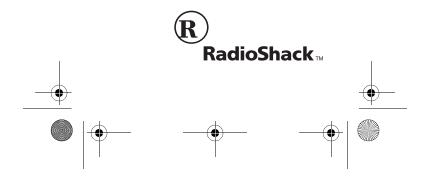
### **OWNER'S MANUAL**

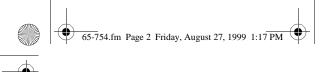
Please read before using this equipment.

### EC-3031

# Handheld Printing Calculator







### **FEATURES**

Your RadioShack EC-3031 Handheld Printing Calculator is a full-featured calculator designed for accuracy and ease of use. The EC-3031 can perform many different types of calculations, including percentage add-ons, discounts, and much more. The print function produces a permanent record of each entry and calculation result for later reference. With its small size, the EC-3031 fits easily into a briefcase or travel bag for people on the go.

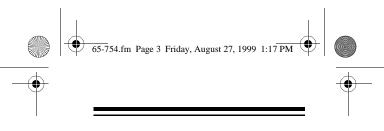


**Percentage Calculations** — make determining percentages and taxes simple.

**Four-Key Memory** — lets you save subtotals, then add to, subtract from, and recall them for additional calculations.

**Round-Off Key** — lets you set the calculator to round up or down at two decimal places, or use a full floating decimal point.





**Paper Feed Key** — lets you quickly advance the print paper without affecting calculations.

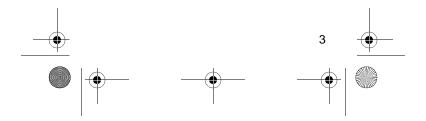
Non-Add Print Key — lets you print dates, code numbers, or other reference numbers without affecting the calculations. You can also print out only the calculation results.

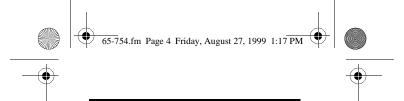
**Two-Way Paper Feed** — lets you feed paper from an internal compartment or from a convenient fold-out roll holder.

**Two Power Sources** — let you power your calculator from four AA batteries or standard AC power (with an optional AC adapter).

**Automatic Power Off** — conserves battery power by turning off the calculator about 6 minutes after the last entry.

Before you begin using your new EC-3031, we recommend you completely read through this manual and familiarize yourself with the calculator's many functions and features.





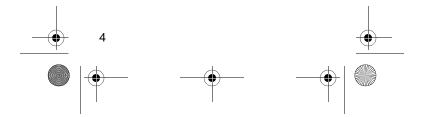
### THE FCC WANTS YOU TO KNOW

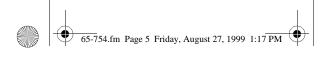
This equipment complies with the limits for a Class B digital device as specified in Part 15 of FCC Rules. These limits provide reasonable protection against radio and TV interference in residential areas. However, your calculator might cause TV or radio interference even when it is operating properly. To eliminate interference, try one or more of the following corrective measures:



- Reorient or relocate the receiving antenna.
- Increase the distance between the calculator and the radio or TV.
- Use outlets on different electrical circuits for the calculator and the radio or TV.

Consult your local RadioShack store if the problem still exists.



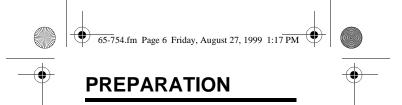




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# CHOOSING A POWER SOURCE

You can power your calculator from:

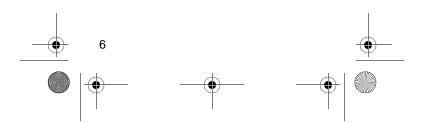
- Four AA batteries (not supplied)
- Standard AC power, using an AC adapter (not supplied)

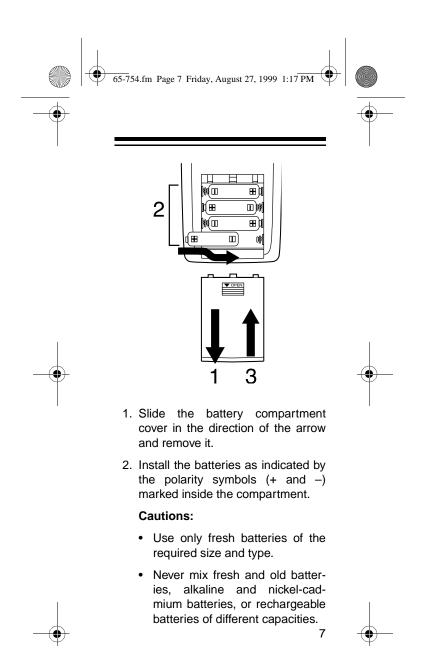
If you plan to use the print function frequently, we suggest you use an AC adapter.

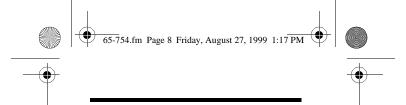


#### **Installing Batteries**

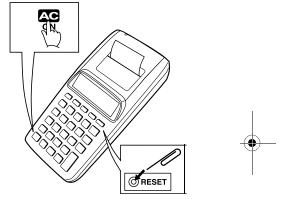
You can power your calculator from four AA batteries. We recommend alkaline batteries, such as RadioShack Cat. No. 23-552. You can also use rechargeable nickel-cadmium batteries (Cat. No. 23-125) with a battery charger (Cat. No. 23-133).

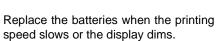






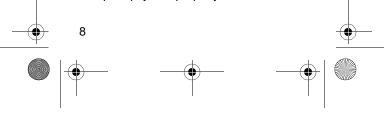
- 3. Replace the cover.
- 4. Press **AC** to turn power on, then press **RESET** with a straightened paper clip to clear the calculator.

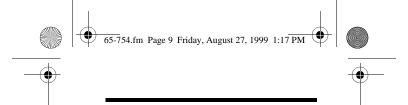




#### Cautions:

- If you do not plan to use the calculator for a month or more, or you plan to use only an AC adapter, remove and store the batteries.
- Always dispose of old batteries promptly and properly.



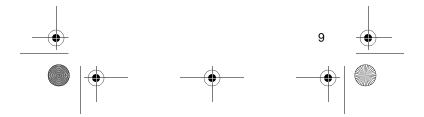


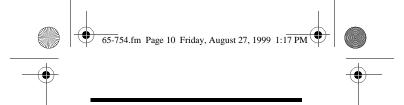
- Never heat, disassemble, or throw batteries into a fire.
- Never leave dead, old, or weak batteries in the calculator. They can leak chemicals that corrode or damage electronic circuits.

Important: This calculator is capable of using rechargeable nickel-cadmium batteries. At the end of the batteries' useful life, they must be recycled or disposed of properly. Contact your local, county, or state hazardous waste management authorities for information on recycling or disposal programs in your area. Some options that might be available are: municipal curb-side collection, drop-off boxes at retailers, recycling collection centers, and a mailback program.

#### **Using AC Power**

You can power the calculator from standard AC power, using an AC adapter such as Cat. No. 273-1664 (not supplied).





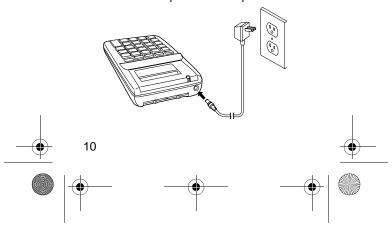
#### Cautions:

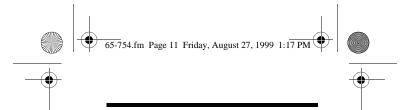
 You must use an AC adapter that supplies 6 volts and delivers at least 300 milliamps. Its center tip must be set to negative, and its plug must correctly fit the calculator's jack. The recommended adapter meets these specifications. Using an adapter that does not meet these specifications could damage the calculator or the adapter.



- When you finish using the AC adapter, disconnect it from the AC outlet first, then unplug it from the calculator.
- Be sure to turn off the calculator before you connect or disconnect the AC adapter.

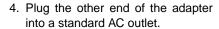
Follow these steps to use AC power.

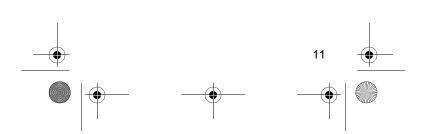


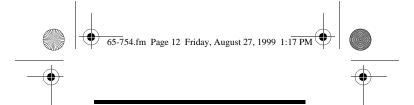


- Attach the 5.5 mm outer diameter/ 2.1 mm inner diameter barrel plug to the adapter cord, matching TIP on the plug's side with –NEG on the cord.
- 2. Set the adapter's voltage switch to 6V.
- 3. Insert the adapter's barrel plug into the calculator's jack.

**Note:** Battery power automatically disconnects when you connect an AC adapter to the calculator.



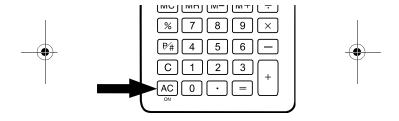




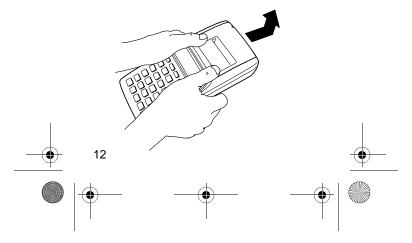
# INSTALLING THE PAPER ROLL

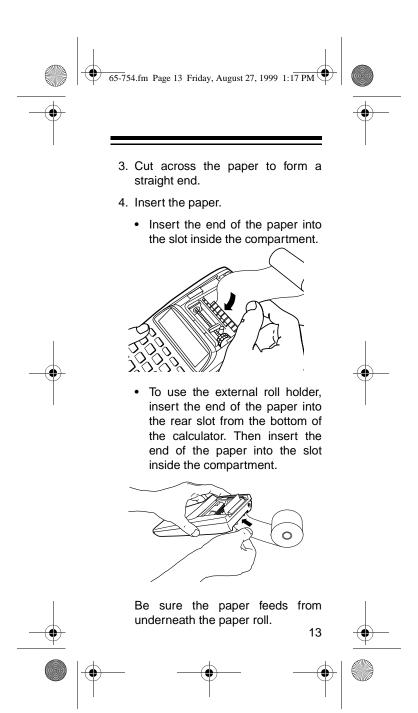
**Note:** If the paper roll does not fit inside the paper roll compartment, you can use the external roll holder until the roll is small enough to fit inside the compartment (about one-inch diameter).

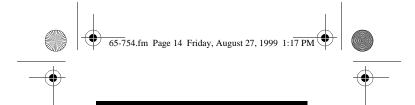
1. Press AC to turn on the calculator.



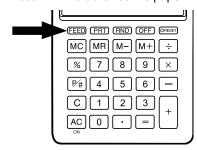
2. Slide open the paper roll compartment cover and lift it off.





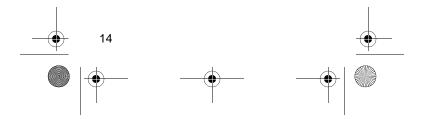


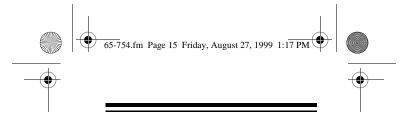
5. Press **FEED** to advance the paper.



- 6. Install the paper roll.
  - Place the paper roll inside the paper roll compartment.
  - To use the external paper roll holder, raise the holder and slip the paper roll onto it.



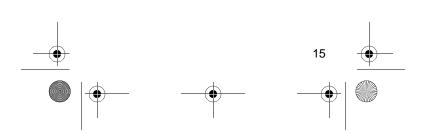


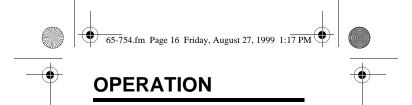


7. Replace the cover, threading the paper through the slot.

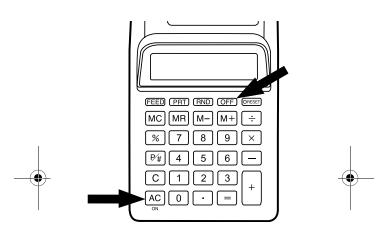


Replace the paper roll when you see a red strip on one edge of the paper. Use a standard  $2^{1/4}$ -inch paper roll, such as Cat. No. 65-710 or 65-715.





# TURNING THE EC-3031 ON/OFF

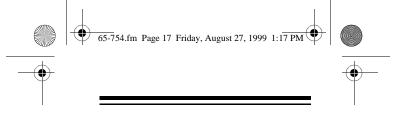


Press **AC** to turn on the EC-3031. Press **OFF** to turn it off.

To save power, the EC-3031 automatically turns off if you do not use it for about 6 minutes. Press **AC** to turn it back on.

**Note:** All previous entries are cleared when the calculator turns off.



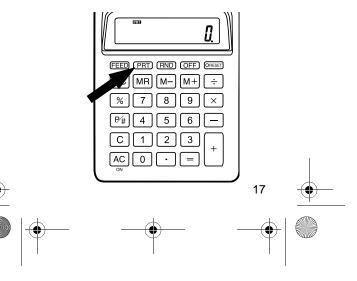


### **PRINTING**

The EC-3031 can print and display all calculator entries and results, or simply display entries and results without printing them. You can also print a date, a reference or code number, and so on, without affecting the calculations in progress.

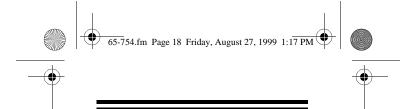
**Note:** The calculator's input buffer holds up to 7 key operations, so you can enter calculations even while the calculator is printing.

To print, press **PRT**. **PRT** appears on the display, and the calculator prints and displays all your calculator entries and results.





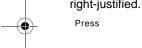




To simply display entries and results without printing them, press PRT again. PRT disappears from the display and the calculator displays your entries and results, but does not print them.

#### **Printing a Displayed Value**

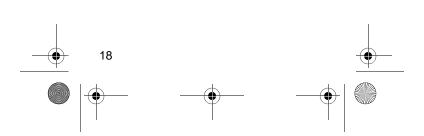
To print a displayed value even when the print function is turned off, press **P/#**. If the display is showing a calculation result, the EC-3031 prints that number right-justified.



①**10/21/96** ②**#10022** Press

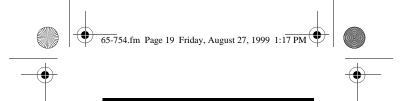
s Print Display

If the display is showing your entry, the EC-3031 prints those numbers left-justified, with a # to the left.



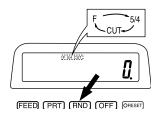
Print

Display



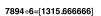
#### **ROUNDING**

The RND key determines where the decimal appears on the display. Each time you press RND, the display changes from F to 5/4 to CUT.



Select **F** to display a floating decimal point. The calculator uses the full 10-

digit display to show your calculation results.



Press	Print	Display
"PRT"	"F"	
7894 <del>÷</del> 6 ≡	7,894· ÷ 6· = 1,315·666666 *	7'894. 1'315.666666

Select 5/4 to round final calculation results to two decimal places. If the third number to the right of the decimal is 5 or greater, the final calculation rounds up. If the third number to the right of the decimal is 4 or less, the calculation rounds







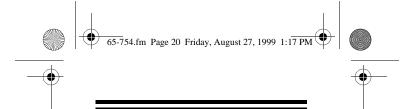






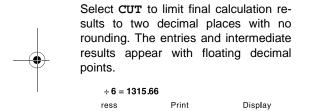
19

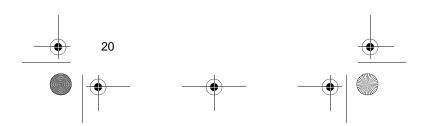


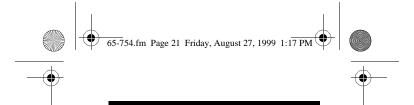


down. The entries and intermediate results appear with floating decimal points.

 $\div$  6 = 1315.67 ress Print Display

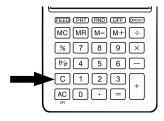




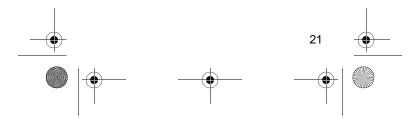


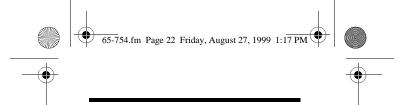
# CORRECTING ENTRY ERRORS

If you enter an incorrect value, press **C** once. Then enter the correct value and proceed with your calculation.



If you press an incorrect function key (+, -,  $\times$ ,  $\div$ ), simply press the correct key and continue.





### **CORRECTING CALCULATION ERRORS**

E (error) appears at the upper left of the display when:

- A calculation result exceeds 10 digits (this is an overflow error see "Estimating Calculation Results").
- A memory calculation exceeds 10 digits (the memory contents remain unchanged).
- You try to divide by 0.

If E appears, press AC to clear the er-



If you perform an operation that results in an overflow error, you can estimate the approximate value (to 10 significant digits) by following this procedure.

- 1. Count the number of digits displayed to the left of the decimal point.
- 2. Remove the decimal point.

22







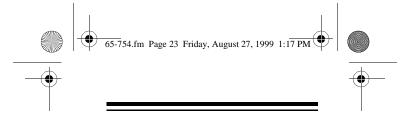








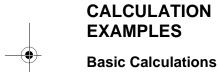




3. Add to the right of the number as many zeros as there were digits to the left of the decimal point.

For example, the displayed value E1.014206404 is estimated to equal 10,142,064,040 (one zero added).

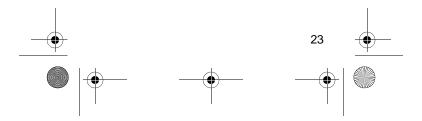
4. Press **c** to clear the error.

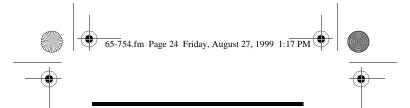


 $(-45) \times 89 + 12 = -3993$ 

Press

Display



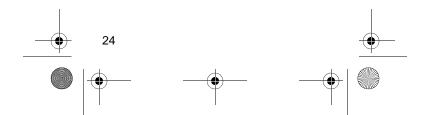


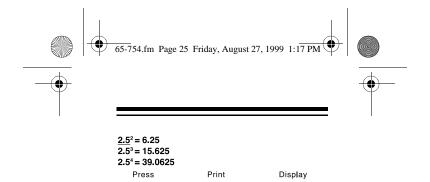
#### **Constant Calculations**

Press the function key  $(\div, \times, -, +)$  twice to make the following value a constant.

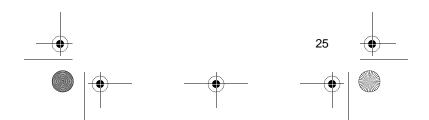
Note: A  $\mathbf K$  appears on the display when you use a constant.

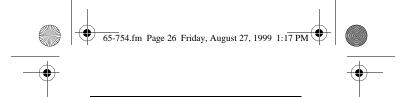






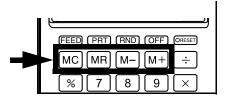






#### **Memory Calculations**

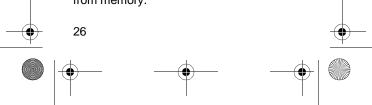
The memory calculation feature lets you easily do multi-step calculations. Use the following keys for memory calculations.

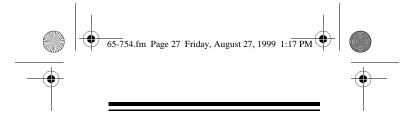


To store a value in memory, first press AC then MC to clear the memory. Then enter the number or calculation and press M+.

To add a value to the current memory value, enter the number or calculation you want to add then press M+. The calculator totals the current calculation and adds that value to memory.

To subtract a value from the current memory value, enter the number or calculation you want to subtract, then press  $\mathbf{M}$ -. The calculator totals the current calculation and subtracts that value from memory.

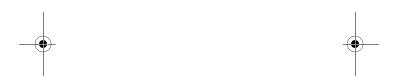


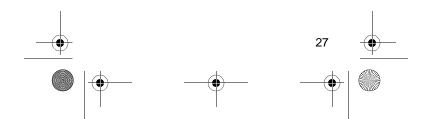


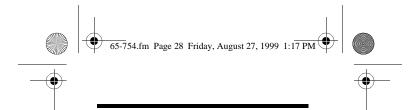
To recall the value from memory, press  $\mathbf{MR}.$ 

Note: An  ${\bf M}$  appears on the display when the memory function is used.

$$(53 + 6) + (23 - 8) + (56 \times 2) + (99 \div 4) = 210.75$$
  
Press Print Display

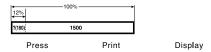


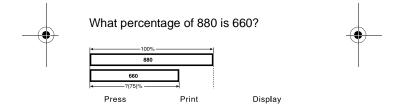


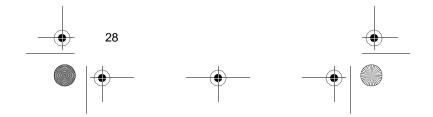


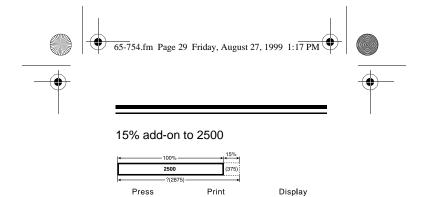
### **Percentage Calculations**

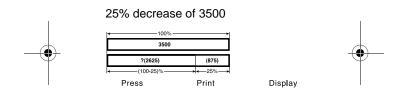
12% of 1500





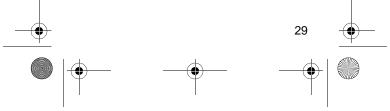


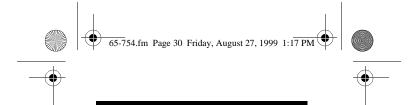




If you made \$80 last week and \$100 this week, what is the percent increase?

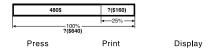




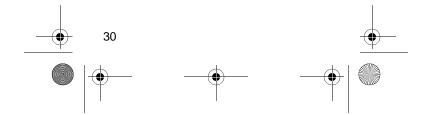


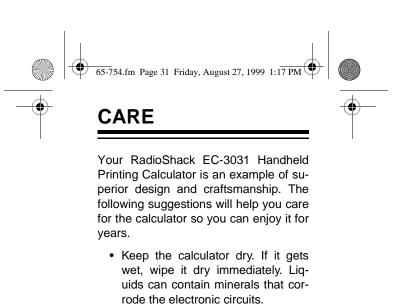
### **Markup Calculations**

What will the selling price and profit be when the purchasing price of an item is \$480 and the gross profit margin is 25%?











- · Handle the calculator gently and carefully. Dropping it can damage the circuit board and case, and can cause the calculator to work improperly.
- · Keep the calculator away from dust and dirt, which can cause premature wear of parts.
- · Wipe the calculator with a damp cloth occasionally to keep it looking new. Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the calculator.
- · Use and store the calculator only in normal temperature environments. Temperature extremes can shorten the life of electronic devices, damage batteries, and distort or melt plastic parts.





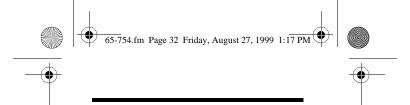




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Modifying or tampering with the calculator's internal components can cause a malfunction and might invalidate its warranty and void your FCC authorization to operate it. If your calculator is not performing as it should, take it to your local RadioShack store for assistance.

### REPLACING THE INK ROLLER

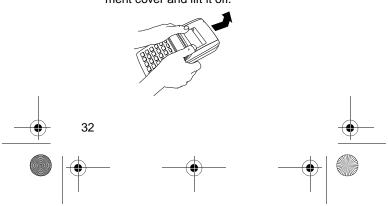


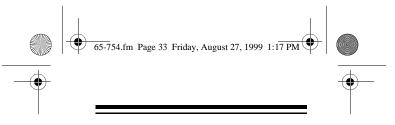
The printer uses a disposable ink roller cartridge. When the print gets too light, replace the ink roller cartridge. You can order replacement ink cartridges from your local RadioShack store.



**Caution:** Never try to reuse the ink roller by adding a solvent or liquid ink to it. This could damage the printer.

1. Slide open the paper roll compartment cover and lift it off.





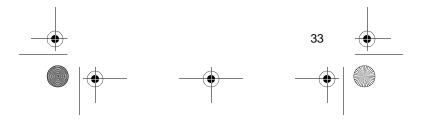
- 2. Raise the paper roll holder, if necessary.
- 3. Remove the ink roller by lifting it where you see PULL UP.

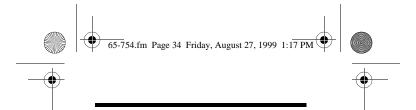


4. Install the new ink roller cartridge.



5. Lower the paper roll holder, if necessary.





#### 6. Replace the cover.



# RESETTING THE CALCULATOR

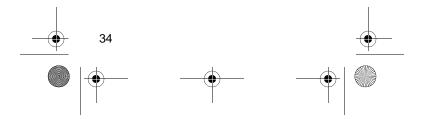


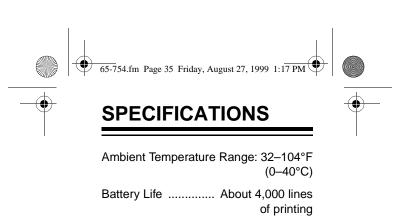
If your EC-3031 locks up, you reset it, as shown in "Installing Batteries" on Page 6.



**Note:** The reset procedure clears all calculations and memory values.

If your EC-3031 still does not work properly, replace the batteries and press **RESET** again.





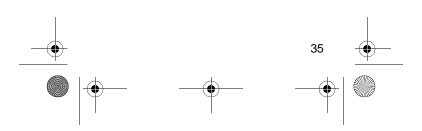
Power ...... 4 AA batteries (1.5 V) Optional AC Adapter (Cat. No. 273–1664)

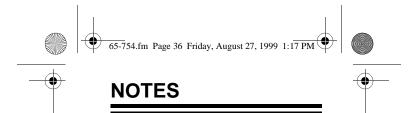
Dimensions
(HWD including foll holder):

1  $/_{16} \times 3 /_{8} \times 7 /_{16}$  Inches (39  $\times$  98  $\times$  192 mm)

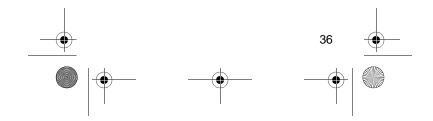
Weight (including batteries) ....... 12 oz (.34 kg)

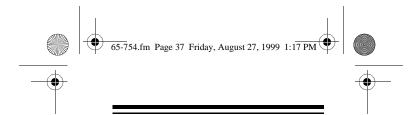
Specifications are typical; individual units might vary. Specifications are subject to change and improvement without notice.



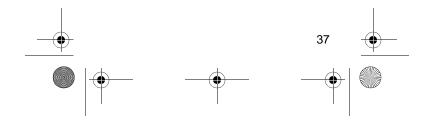


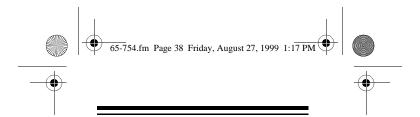




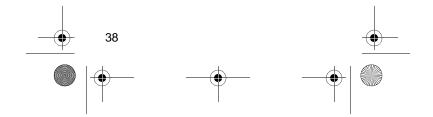


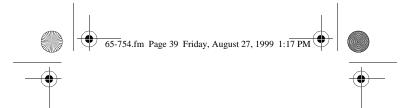










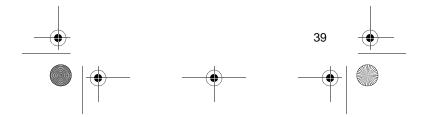


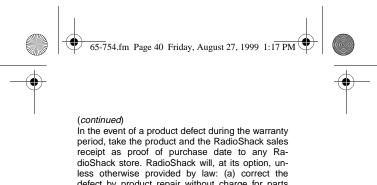
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Some states do not allow the limitations on how long an implied warranty lasts or the exclusion of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

(continued)





defect by product repair without charge for parts and labor; (b) replace the product with one of the same or similar design; or (c) refund the purchase price. All replaced parts and products, and products on which a refund is made, become the property of RadioShack. New or reconditioned parts and products may be used in the performance of warranty service. Repaired or replaced parts and products are warranted for the remainder of the original warranty period. You will be charged for repair or replacement of the product made after the expiration of the warranty period. This warranty does not cover: (a) damage or failure caused by or attributable to acts of God, abuse, accident, misuse, improper or abnormal usage, failure

to follow instructions, improper installation or maintenance, alteration, lightning or other incidence of excess voltage or current; (b) any repairs other than those provided by a RadioShack Authorized Service Facility; (c) consumables such as fuses or batteries; (d) cosmetic damage; (e) transportation, shipping or insurance costs; or (f) costs of product removal, installation, set-up service adjustment or reinstallation.

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