## CAUTION:

Read Rules for Safe Operation and Instructions carefully. If AC Adapter is used, use only the one made specifically for this Calculator.

Sears Service is at Your Service wherever you live or move in the U.S.A.

The Model Number will be found stamped on the bottom of the Calculator. Always mention the Model Number when requesting service or repair for your Calculator.

All parts may be ordered through SEARS, ROEBUCK AND CO.

Your Sears merchandise takes on added value when you discover that Sears has over 2000 Service Units throughout the country. Each is staffed by Sears-trained, professional technicians using Sears approved parts and methods.

MODEL NO. 728.5825

SEARS, ROEBUCK AND CO. CHICAGO, ILL. 60607 U.S.A.



### INTRODUCTION

Your Sears Portable Electronic Calculator is light enough and small enough to be used in one hand yet it provides a standard keyboard and a light emitting diode (LED) display that is easily read at home or in the office.

The ten digit display and the full floating decimal allow the calculation of most problems without sacrificing accuracy, and the time-out feature provides longer battery life between charges.

Your calculator has the ability to solve engineering or budget problems, with such features as a switch-selectable accumulative or fully accessible memory, square root, reciprocal, percentage, automatic constant, automatic squaring, and change sign. The calculator operates in "algebraic" mode, which allows you to perform chain or mixed calculations in the order in which they are written. The reciprocal and change sign features are particularly helpful in solving complex problems. We suggest that this programmed Instruction Manual be read with the calculator in hand. Performing the operations as you read them will increase your familiarity with them. For a quick reference, an outline of operations is on the back of the calculator.

#### ELECTRONIC CACULATOR GUARANTEE

We guarantee this calculator to work properly. If it does not, simply return it to our nearest store and we will: During the first year, repair it, free of charge. (wherever you live in the United States)

SEARS, ROEBUCK AND CO.

### **OPERATION:**

Your calculator has rechargeable NiCd batteries included in the unit. The following procedure should be followed for A.C. and battery operation:

### AC Operation:

Connect the Charger unit to any standard 120 Volt electrical outlet and plug the connector into the Calculator. After the above connections, the power switch may be turned on and operation started. (While connected to AC, the internal batteries are automatically charged whether the power switch is "ON" or "OFF".)

#### Battery Operation:

Disconnect the Charger cord and turn the power switch "ON". With normal use a full battery charge can be expected to supply about 5 hours of working time.

NOTE: When the low battery indicator (L) on the display is lighted, do not continue battery operation. This indicates need for a battery charge.

Battery Charging:

Simply follow the same procedure as in AC operation. The calculator may be used during the charge period if desired. In order to fully charge a battery which has been

completely discharged, 7 hours is required. NOTE: Although no damage will result from prolonged periods with the Charger connected, it is advisable to remove the Charger cord when the Calculator is not in use after a full recharge cycle.

**CAUTION:** To avoid possible damage, use only the charger provided with the calculator.



### CONTROLS AND INDICATORS

Ce	<ul> <li>When used once:</li> <li>(1) During number entry, clears the last entry and recalls the previous entry if one has been entered.</li> <li>(2) During Time-Out, recalls and displays the information on the display without affecting it.</li> <li>(3) During overflow, clears</li> </ul>	% Key Decimal Point Indicator	Completes a percent operation and conditions a markup or discount operation. Automatically appears to the right of any number entered, unless inserted in another sequence by use of the Decimal key. With fractional numbers, it will be preceded by a zero, i.e. ½ will appear as
	the overflow indicator. During all other conditions and also when touched twice, this key will clear calculator completely except memory register.	Minus Sign Indicator	0.333333333 Indicates a negative number and immediately precedes a number. Appears as
∑ Switch	When on $\Sigma$ position, the results provided by using =, $\sqrt{x}, \frac{1}{x} \& \%$ keys are accumulated into the memory.	Memory In Use Indicator	Indicates that data is stored in Memory Register. Appears as
<b>√x</b> Key	Displays square root of the entered number or completes the preceding operation and displays square root of the result.	Time-Out Indicator	Indicates that while using the calculator the keyboard has been inactive for approxi- mately 30 seconds. Appears in the center field as
1 Key	Displays reciprocal of the entered number or completes the preceding operation and displays reciprocal of the result.	Low Battery Indicator	Warns of need for battery charging.
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# Overflow Indicator

Indicates a calculation result that contains more than ten digits. Appears as

Note: A negative result of more than ten digits can indicate overflow as

### **Special Battery-Saver Feature**

If you do not actuate the keyboard for approximately 30 seconds while performing a calculation, the display will turn off automatically, leaving only the "Time-Out Indicator", previously described, on. This feature decreases unnecessary power consumption, and extends battery life between charges. The displayed information can be recalled by touching the two once, The information or function mode will not be affected.

### **BATTERY NOTES**

- With normal use at room temperature, a full battery charge can be expected to supply about 5 hours of accumulated working time.
- 2. The Calculator may be used while its battery is charging.
- 3. Batteries that have been neither used nor charged for as long as 2 or 3 months will suffer substantial loss of operating time through a tendency to self-discharge. As a general rule, batteries lose about 1% charge per day due to self-discharge, at normal temperatures.
- 4. For optimum performance and long life:
- a. Alternate frequently between Battery and AC power.
- b. Operate at or near normal room temperatures.
- c. Charge as soon as possible upon appearance of the Low-Battery indicator.
- 5. Recharge time is 7 hours for a fully discharged battery, with the calculator off.
- 6. The Low-Battery indicator is designed to appear as soon as battery voltage drops to the lowest value that will support optimum performance of the Calculator. Should further discharge occur, through continued operations or self-discharge, the Low-Battery indicator may fail to appear. Do not continue to operate on batteries when this condition is noted, or a damaged battery may result.
- As a general rule, if improper operation occurs, first try the Calculator with its charger connected. If operation is then normal, this indicates the batteries are low.
- 8. Do not store the unit in high temperature areas such as the top of radiators or the rear deck of automobiles exposed to the sun. The Calculator will operate satisfactorily over an ambient temperature range of 0° to 50°C (32° to 122°F) and relative humidity to 95%.

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#### 3. To clear an incorrect entry INSTRUCTIONS Example: 48 + 12 is your calculation 1. To clear (erase) machine completely for A. You have already entered 48 new operation Display is: A. Touch the ca key twice. 48 B. Cleared display will be: B. You now touch the key $\Omega$ The display is: 48. 2. To enter (write a number) C. Then you enter 13 by mistake The display is: Example: enter 123.45 13. A. First, clear by touching ce twice D. To clear 13, touch the 🔛 key once. B. Then touch number and decimal keys for 123.45 one at a time. Always start This erases only the last number entered (i.e. 13) and the previous entry with the left hand digit and progress from left to right. is displayed. Display will then be: Display will be: 48. 123.45E. Then enter '12' whole numbers up to ten digits: Display will be: 12. 34567890 F. Finally, touch the key for answer 2. Enter numbers less than one up Display will be: to nine digits to right of decimal. 60. (zero always appears to left of decimal if number is less than Note: Use ce during or immediately one.) after entry of a number to clear 0.123456789 display. Use of ce key when a result is displayed without overflow 3. Enter decimal number up to ten clears the display. digits. 123.4567890 9 8

CALCULATION 1. ADDITION To calculate 16.39 Do these steps	<b>VS</b> 9 + 9.83 +	<b>16 = 42.22</b> display will be	
Touch c twi	се	0.	
Enter 16.39		16.39	. <b>4</b>
Touch +		16.39	
Enter 9.83		9.83	¢
Touch +	subtotal	26,22	
Enter 16		16.	
Touch =	Answer	42.22	
2. SUBTRACT To calculate 23 – Do these steps	FION - 6 - 5 = 1	12 display will be	
Touch c twi	ce	0.	
Enter 23		23.	4
Touch		23.	
Enter 6		6.	÷
Touch	subtotal	17.	
Enter 5		5.	
Touch 😑	Answer	12.	,

Note: When adding or subtracting figures with a fixed decimal place, the calculator will hold that decimal place (decimal alignment).

### 3. MULTIPLICATION To calculate 29.32 x 56.5 = 1656.58 Do these steps display will be Touch Ce twice 0. 29.32 Enter 29.32 29.32 Touch X 56.5 Enter 56.5 1656.58 Answer Touch 🚍 4. DIVISION To calculate 6300 ÷ 14 = 450 Do these steps display will be Touch Ce twice О. 6300. Enter 6300 Touch 🚑 6300. Enter 14 14 450. Touch = Answer

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Touch - Enter 6	subtotal	125,965 6.		7. AUTOMATI (a) Addition 6 + 3 Do these steps	C CON + 3 + 3	STANT = 15 display will be
Touch %	6% discount	7.5579		Touch 😋 twi	ce	0.
Touch	subtotal	118.4071		Enter 6		6.
Enter 2		2.	<b>\$</b> .	Touch +		6.
Touch %	2% discount	2.368142		Enter 3		3.
Touch	Answer	116.038958	ġ.	Touch 💻		9.
(c) Mark \$42. u Do these steps	ıp by 30%			Touch 🚍		12.
Touch	twice	0.		Touch	Answer	15.
Enter 42		42		(b) Multiplication	6 x 2 = 6 x 5 = 6 x 12 =	12 30 = 72
Enter 30				Do these steps		display will be
Touch %		126		Touch C twi	ce	0.
Touch	Answer <b>B</b> a	54.6	~	Enter 6		6.
				Touch 🗙 🕗		6.
			÷	Enter 2		2.
				Touch	Answer	12.
				Enter 5		<u>.</u> <u>5</u> .
			4.	Touch	Anewor	30



QTY	UNIT PRICE	NET AMOUNT		Enter 5.75		5.75
5 12 5	\$29.95 .79 5.75	\$149.75 9.48 28.75		Touch		28.75
Salas T	1.23 av 3%	\$218.94	<b>(2</b>	Touch x		24.
Total		\$225.51		Enter 1.29		1.29
$\Sigma$ switch to left position				Touch 😑		30.96
Do these s	steps	display will be		Touch mr	subtotal	>=====218.94
Iouch	ce twice	<u></u>		Touch +		N 218.94
Enter 5		5.		Enter 3		3.
Touch	X	5.		Touch %	tax	6.5682
Enter 2	9.95	29.95		Touch	Total	> 225.5082
Touch Enter 1	2	<ul><li>√ 149.75</li><li>√ 12.</li></ul>	a .	<b>10. RECIPR</b> 1/20 = .05	OCAL	
Touch	X	N 6354 12.		Do these steps		display will be
Enter .7	79	0.79		Touch ce t	twice	<u></u>
Touch		N 9.48		Enter 20		20.
Enter 5		A 5.		Touch 1/x	Answer	0.05





Notes		SPECIFICATI	ONS
on your special calculation	î ç	Decimal Point:	Full floating decimal point
		Capacity:	Addition, subtraction, multi- plication, division, and omni-constant; percent, square root, reciprocal, Memory, change sign.
		Functions:	General add, subtract, multiply, divide and percentage. Chain multipli- cation and division. Constant multiplication, division, addition, subtrac- tion, percentage, fractions, reciprocals, square root, change sign, Memory.
	: : :	Power:	Battery operation — NiCd batteries (3) 5 hour opera- tion, 7 hour charge.
		Main Elements:	Large scale integrated circuit
*		Supplementary Elements:	Bipolar ICs, Transistors, Diodes
	<b>پ</b> ې - -	Dimensions:	Height 1¼″, Width 3″, Depth 5¾″.
		Weight:	9 oz.
		Peripherals:	Vinyl Pouch, Instruction Book.
			STK No. 16601
24	•	Printed in U.S.A.	A907-902/0