



€-2006 English

*Texas Instruments Holland B.V.
Rutherfordweg 102
3542 CG Utrecht—The Netherlands*

CE

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<http://www.ti.com/calc>
ti-cares@ti.com

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Getting Started

Installing the Paper Roll

1. Remove the printer compartment cover.
2. Lift the paper holder so that it extends behind the printer compartment.
3. Remove packing materials from the printer compartment.
4. Replace the printer compartment cover.
5. Plug the calculator into an electrical outlet.
6. Set the power switch on the calculator to **ON**.
7. Place the paper roll on the paper holder.
8. Insert the end of the paper into the paper slot on the back of the calculator as shown. To avoid paper jams, use quality bond paper.

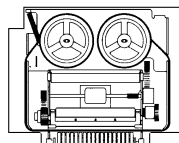


9. While feeding the paper into the slot, press and hold .

Note: To prevent damaging the printer (which may void the warranty), move the **PRINTER** switch to **OFF** when operating the calculator without paper.

Replacing the 2-Colour Ink Ribbon

1. Remove the paper roll and press  to run out any remaining paper.
2. Set the power switch on the calculator to **OFF**.
3. Remove the printer compartment cover.
4. Lift each ribbon spool until the ribbon is clear of the printer.
5. Lower the new ribbon (red side on the bottom) into the compartment and press down until it snaps into place.
6. Place the ribbon around the guides and along the print drum as shown in the picture.



7. Replace the printer compartment cover.

Key Descriptions

-  **TAX+** Adds the stored tax rate to the value in the display.
-  **TAX-** Subtracts the stored tax rate from the value in the display.
-  **SET** Choose a currency icon or set the rate for an optional currency. Show second chosen currency.
-  **C1 to C2** Convert from the second currency to the first currency.
-  **C2 to C1** Convert from the first currency to the second currency.
-  **PAPER** Advances the paper.
-  **SELECT** Removes the last digit entered in the display.
-  **CUR** Display the currency icons. Show first chosen currency.
-  **GPM** Calculates the selling price and profit or loss amount on an item.
-  **D/#** Prints a reference number or date without affecting calculations.
-  **%** Interprets the number in the display as a percentage.
-  **+/-** Changes the sign (+ or -) of the displayed number.
-  **CE/C** Pressed once, clears an entry. Pressed twice, clears an overflow or calculation.
-  **II/GT** Pressed once, displays and prints the grand total of all totals. Pressed twice, clears the grand total. This is active only if **PRINTER = GT**.
-  **SUB/TOTAL** Displays and prints the total, but does not clear the total.
-  **TOTAL** Displays and prints the total and clears the total. Also resets the item counter (IC) to zero.
-  **MT** Displays and prints the value in memory and clears the memory. Also clears M from the display and resets the memory item counter to zero.
-  **MS** Displays and prints the current total in memory but does not clear the memory.

-  **M-** Subtracts the displayed value from memory. If a multiplication or division operation is pending,  completes it and subtracts the result from memory.
-  **M+** Adds the displayed value to memory. If a multiplication or division operation is pending,  completes it and adds the result to memory.

Printing (POWER Switch)

- OFF** The calculator is turned off.
- ON** Calculations are displayed but not printed.
- PRT** Calculations are displayed and printed.
- IC** Both the printer and item counter are active. To clear the item counter, press  or .
- GT** Accumulates a running grand total of all calculations you perform until you clear the grand total. To print a grand total, press . To clear the grand total, press  again.

Setting Decimals (DECIMAL Switch)

For calculations that are **not** currency conversions:

- +** Lets you add and subtract numbers without entering the decimal point (key in 5321 to get 53.21). Shows two decimal places.
- F** The number of decimal places varies based on the result.
- 0,2,3,4,6** Sets the number of decimal places to 0, 2, 3, 4 or 6.

For currency conversion calculations:

Euro currency shows:		Other currency shows:
+	F	F
F	2	2
0	2	0
2	2	2
3	2	3
4	2	4
6	2	6

Rounding (ROUND Switch)

- ↓ Results are rounded down (if DECIMAL = 1, 2.33 rounds to 2.3).
- 5/4 Results are rounded up or down, depending on the value and decimal setting (if DECIMAL = 2, 2.349 rounds to 2.35).
- ↑ Results are rounded up (if DECIMAL = 1, 2.33 rounds to 2.4).

Converting Currencies

The currencies of the countries that participate in the Monetary Union and their exchange rates are stored in a list in the calculator.

Up to five additional currency rates can be stored in the calculator (CC1, CC2, CC3, CC4, and CC5).

Currency	List #	Icon	Rate
Euro €	00	EUR	1.00000
Belgian franc	01	bEF	40.3399
Deutsche mark	02	dEM	1.95583
Spanish peseta	03	ESP	166.386
French franc	04	FrF	6.55957
Irish punt	05	IEP	0.787564
Italian lira	06	ItL	1936.27
Luxemburg franc	07	LUF	40.3399
Dutch guilder	08	nLG	2.20371
Austrian schilling	09	AtS	13.7603
Portuguese escudo	10	PtE	200.482
Finnish markka	11	FIN	5.94573
CC1	12		
CC2	13		
CC3	14		
CC4	15		
CC5	16		

Example Convert 20 Euro to ITL.

DECIMAL = 2

Enter/Press	Display	Print
	0.	0· C
	Set	0.
	EUR=1.00000	
	1, EUR=1.00000	#1·00 1·00000 €
	Set	0.
7 times	ItL=1,936.27	
	2, ItL=1,936.27	#2·06 1,936·27 R#
	0.	0· C
	38,725·40 †	20· €
		#2·06 1,936·27 R#
		38,725·40 #

To convert back, press

20· †

† The ' marks before each of the last two digits in the display indicates that this amount is shown in the second selected currency.

†† The ' mark before the last digit in the display indicates that this amount is shown in the first selected currency.

The numbers displayed on the printout are explained as follows:

#1·00 1·00000 €
#2·06 1,936·24 R#

The first column (#1 and #2) indicates the two currencies selected for conversion.

The second column (00 and 06) indicates each currency's list # in the calculator's list of currencies. Euro is number "00", Lira is number "06".

The third column shows the currency's exchange rate.

The fourth column shows the "€" symbol for Euro and "R#" for other currencies.

Example Convert 45 ATS to DEM.

DECIMAL = 0

Enter/Press	Display	Print
	0.	0· C
	Set	0.
10 times	AtS=13.7603	
	1, AtS=13.7603	#1·09 13·7603 R#
	Set	0.
3 times	dEM=1.95583	
	2, dEM=1.95583	#2·02 1·95583 R#
	0.	0· C
	'6. †	45· #
		#1·09 13·7603 R#
		3·2702775375536 €
		#2·02 1·95583 R#
		6· #
To convert back, press	45· †	#1·09 13·7603 R#
		45· #

† The ' marks before each of the last two digits indicates that this amount is shown in the second selected currency.

†† The ' mark before the last digit indicates that this amount is shown in the first selected currency.

Setting an Optional Currency Rate

Use CC1, CC2, CC3, CC4 and CC5 to set rates for currencies outside the Monetary Union.

- Set a conversion rate for US\$ as CC1. 1 Euro = \$95

Enter/Press	Display	Print
	0.	0· C
	Set	0.95
	CC1=0.95	
	CC1=0.950000	··12 0·950000 R#

Note: If you set a negative rate, the calculator shows an error (E). Press to clear an error.

2. Select Euro and CC1 as the two currencies:

Enter/Press	Display	Print
CE/C	0.	0° C
SET	SEt	0.
1/x	EUR=1.00000	#1°00 1°00000 €
1/x	1EUR=1.00000	#1°00 1°00000 €
SET	SEt	0.
1/x 13 times	CC1=0.950000	°02 1°95583 R#
1/x	2,CC1=0.950000	°03 166°386 R#

3. Convert \$100 to Euro.

Enter/Press	Display	Print
CE/C	0.	0° C
100 1/x	105.2°6	100° #
		#2°12 0°950000 R#
		105°26 €
To convert back, press	1°0°.	#2°12 0°950000 R#
1/x		100° #

Recalling and Printing Currency Rates

You can automatically print out the rates of the two currencies that you have set for conversion. POWER = PRT

Enter/Press	Display	Print
CE/C SET	SEt	0.
0/#	0.	0°00000 RT
		0°00000 R#
		#1°00 1°00000 €
		#2°12 0°950000 R#

Note: If you have set a tax rate, that number prints first with the symbol RT beside it.

You can also display and print the set conversion rates.

Enter/Press	Display	Print
SET	SEt	0.
1/x	1EUR=1.00000	#1°00 1°00000 €
SET	SEt	0.
1/x	2,CC1=0.950000	#2°12 0°950000 R#

In addition, you can print the entire Currency Table.

Enter/Press	Display	Print
CE/C SET	SEt=	0.
=	0.	0°00000 RT
		0°00000 R#
		#1°00 1°00000 €
		°01 40°3399 R#
		°02 1°95583 R#
		°03 166°386 R#
		:
		#2°12 0°950000 R#
		°13 1°00000 R#
		°14 1°00000 R#
		°15 1°00000 R#
		°16 1°00000 R#

Performing Basic Calculations

Addition and Subtraction **12.41 – 3.95 + 5.40 = 13.86**

ROUND = 5/4, DECIMAL = +, POWER = IC

Enter/Press	Display	Print
CE/C	0.	0° C
1241 +	12.41	12°41 +
395 -	8.46	3°95 -
SUB 2/TOTAL	002	
	8.46	8°46 °
540 +	13.86	5°40 +
TOTAL	003	
	13.86	13°86 *

Multiplication and Division **11.32 × (-6) ÷ 2 = -33.96**

ROUND = 5/4, DECIMAL = F, POWER = PRT

Enter/Press	Display	Print
CE/C	0.	0° C
11.32 ×	11.32	11°32 ×
6 ÷	67.92	6° ÷
2 =		2° =
	33.96	33°96 *

Squares **2.5² = 6.25**

Enter/Press	Display	Print
CE/C	0.	0° C
.5 × =		2°5 ×
		2°5 =
	6.25	6°25 *

Reciprocals **1/25 = 0.04**

Enter/Press	Display	Print
CE/C	0.	0° C
25 ÷ = =		25° ÷
		25° =
		1° *
		1° =
	0.04	0°04 *

Calculating Percentages

ROUND = 5/4, DECIMAL = F, POWER = PRT

Percent 49 × 15%

Enter/Press	Display	Print
CE/C	0.	0° C
49 ×	49.	49° ×
15 %		15° %
	7.35	7°35 *

Percent Ratio 29.5 is what percent of 25?

Enter/Press	Display	Print
CE/C	0.	0° C
29.5 ÷	29.5	29°5 ÷
25 %		25° %
	118.	118° *

Using Constants

ROUND = 5/4, DECIMAL = F, POWER = PRT

Multiply by a Constant $5 \times 3 = 15$ $5 \times 4 = 20$

The first number in a multiplication problem is the constant multiplier.

Enter/Press	Display	Print
$\frac{\square}{\square}$	0.	0• C
5 $\frac{\square}{\square}$	5.	5• X
3 $\frac{\square}{\square}$		3• =
	15.	15• *
4 $\frac{\square}{\square}$		4• =
	20.	20• *

Divide by a Constant $66 \div 3 = 22$ $90 \div 3 = 30$

The second number in a division problem is the constant divisor.

Enter/Press	Display	Print
$\frac{\square}{\square}$	0.	0· C
$\frac{\square}{\square}$	66.	66· =
$\frac{3}{\square}$		3· =
	22.	22· *
$\frac{90}{\square}$		90· =
	30.	30· *

Using Memory

ROUND = 5/4, DECIMAL = 2, POWER = PRT

Multiplication with Memory Keys

You need the total of 3 items at 10.50 and 5 items at 4.95. By using the memory keys, you will not disturb a current calculation.

Enter/Press	Display	Print
$\boxed{M\bar{T}} \div 10.5 \boxed{\times} 3 \boxed{M\bar{2}}$		$10.5 \times 3 =$
	M 31.50	$31.50 \text{ M}+$
$4.95 \boxed{\times} 5 \boxed{M\bar{2}}$		$4.95 \times 5 =$
	M 24.75	$24.75 \text{ M}+$
$\boxed{M\bar{S}} \div \div$	M 56.25	$56.25 \text{ M}0$
$4.95 \boxed{\times} 5 \boxed{M\bar{2}} \div \div$		$4.95 \times 5 =$
	M 24.75	$24.75 \text{ M}-$
$\boxed{M\bar{T}}$	31.50	$31.50 \text{ M}*$

† **[MT]** prints the current memory total and clears the memory.

†† You calculate a memory subtotal to see the current total amount of your order.

+++ You decide not to order the last item.

Calculating Gross Profit Margin

ROUND = 5/4, DECIMAL = 2, POWER = PRT

Calculating a Profit Amount

An item cost you 65.00. You want to earn a 40% profit. Calculate the selling price.

Enter/Press	Display	Print
$\boxed{C/C}$	0.	0. C
$65 \boxed{GPM}$	65.	65. M
$40 \boxed{=}$		40. %
		43.3333333333 Δ *
	108.33	108.33 *

Calculating a Loss Amount

An item cost you 35,000. You must sell it, but can only afford to lose 33.3%. Calculate the selling price.

Enter/Press	Display	Print
CE/C	0.	0- C
35000 GPM	35,000.	35,000- M
33.3 $\square$ $\square$		33-30 -
		33-30 -%
	8 743-435858965	Δ *
	26,256.56	26 256-56 *

Calculating Tax

Store a Tax Rate Tax rate = 8.25%.

Enter/Press	Display	Print
$\boxed{\text{CE/C}}$	0.	0- C
$\boxed{8} \boxed{-} \boxed{2} \boxed{5} \boxed{\text{SET}}$	Set 8.25	
$\boxed{\text{TAX+}}$ or $\boxed{\text{TAX-}}$	$\pm$ 8.25000	8.25000 RT

Note: The tax rate you entered remains stored when the calculator is turned off, but not when the calculator is unplugged.

ROUND = 5/4, DECIMAL = F, POWER = PRT

Calculate Add-On 1,450 + 15% tax

Enter/Press	Display	Print
$\boxed{\text{CE/C}}$	0.	0- C
$\boxed{\text{1}} \boxed{\text{5}} \boxed{\text{SET}}$	Set 15.	
$\boxed{\text{TAX+}}$	t= 15.0000	15-0000 RT
1450 $\boxed{\text{TAX+}}$		1 450- 15-0000 RT 217-5 $\Delta+$ 1 667-5 *
	1,667.5	

Calculate Discount $235 - 17.5\%$

Enter/Press	Display	Print
CE/C	0.	0- C
1 7 - 5 SET TAX+	Set 17.5 t= 17.5000	17-5000 RT
235 TAX-		235- 17-5000 RT 35- Δ - 200. 200- *

Display the Currently Set Tax Rate

Enter/Press	Display	Print
CE/C	0.	0· C
SET	0.	
TAX+ or TAX-	t= 17.5000	17·5000 RT

Calculating a Grand Total

ROUND = 5/4, DECIMAL = F, POWER = GT

Calculating a Grand Total

You operate a business. Calculate your expenses for each of the first three months of the year and the total expenses for the first quarter of the year.

January		February		March	
Rent:	\$500	Rent:	\$500	Rent:	\$500
Utilities:	\$103	Utilities:	\$96	Utilities:	\$84
Telephone:	\$32	Telephone:	\$44	Telephone:	\$38
Materials:	\$535	Materials:	\$614	Materials:	\$587

Before you begin, press **II/GT** twice to clear the grand total register.

Enter/Press	Display	Print
II/GT	000	G
	0.	0• G♦
II/GT	000	G
	0.	0• G*
CE/C	0.	0• C

Note: The result printed when you press **II/GT** may not be zero as shown above.

January:

Enter/Press	Display	Print
5 0 0 +	500.	500• +
1 0 3 +	603.	103• +
3 2 +	635.	32• +
5 3 5 +	1,170.	535• +
TOTAL	004	
G	1,170.	1 170• G+

February:

Enter/Press	Display	Print
5 0 0 +	G 500.	500• +
9 6 +	G 596.	96• +
4 4 +	G 640.	44• +
6 1 4 +	G 1,254.	614• +
TOTAL	004	
G	1,254.	1 254• G+

March:

Enter/Press	Display	Print
5 0 0 +	G 500.	500• +
8 4 +	G 584.	84• +
3 8 +	G 622.	38• +
5 8 7 +	G 1,209.	587• +
TOTAL	004	
G	1,209.	1 209• G+

First Quarter Totals:

Enter/Press	Display	Print
II/GT	003	003 G♦
G	3,633.	3 633• G♦
II/GT	003	G
	3,633.	3 633• G*

Note: Pressing **II/GT** once prints the grand subtotal (indicated by G♦); pressing **II/GT** a second time prints the grand total (indicated by G*) and then clears the register.

Using Second Memory (II)

ROUND = 5/4, DECIMAL = 0, POWER = PRT

This calculator has a second memory. Second memory calculations use the **II/GT** key. An example is given below.

Addition and Subtraction 564 + 15 – 32

Enter/Press	Display	Print
II/GT TOTAL CE/C	0.	0• II*
5 6 4 II/GT +	II 564.	564• II+
1 5 II/GT +	II 15.	15• II+
II/GT %TOL	II 579.	579• II♦
3 2 II/GT -	II 32.	32• II-
II/GT TOTAL	547.	547• II*

Multiplication

$$(12 \times 3) + (25 \times 4) - (13 \times 8)$$

Enter/Press	Display	Print
II/GT TOTAL CE/C	0.	0• II*
1 2 × 3 II/GT +	12.	12• x
II	3.	3• II+
M±	36.	36• M+
2 5 × 4 II/GT +	25.	25• x
II/M	4.	4• II+
M±	100.	100• M+
II/GT MS	136.	136• M♦
1 3 × 8 II/GT -	13	13• x
II/M	8.	8• II-
M±	104.	104• M-
II/GT MT	32.	32• M*

Clearing Errors and Overflows

Correcting Entry Errors

If you have not pressed an operation key:

- To clear an incorrect entry, press **CE/C**.
- To clear the last digit, press **SELECT**.

If you have pressed an operation key:

- To cancel an incorrect entry, press the opposite operation key. (This applies only to calculations with **+**, **-**, **M±**, or **M±**.)

Error and Overflow Conditions and Indicators

If you divide by zero or calculate a selling price using a margin of 100%, an error occurs.

An overflow occurs if you calculate a result with too many digits for the calculator to display or print.

To clear an error or overflow, press **CE/C**. The memory is not cleared unless the error or overflow occurred in a memory calculation.

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