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SHARP EL-T3301 12 Digit Thermal Printing Calculator with 10 Digit Large Print User Manual

SHARP

EL-T3301
12 Digit Thermal Printing Calculator with 10 Digit Large Print
User Manual

Contents

OPERATIONAL NOTES

To insure trouble-free operation of your SHARP calculator, we recommend the following:

1. The calculator should be kept in areas free from extreme temperature changes, moisture, and dust
2. A soft, dry cloth should be used to clean the calculator. Do not use solvents or a wet cloth.
3. Since this product is not waterproof, do not use it or store it where fluids, for example water, can splash onto it. Raindrops. water spray. juice. coffee. steam, perspiration. etc. will also cause malfunction.
4. if service should be required, use only a SHARP servicing dealer. a SHARP approved service facility or SHARP repair service.

5. Do not wind the cord around the body or otherwise forcibly bend or twist it.

6. Unplug the calculator by pulling on the plug portion, not the ca-d.

7. Do not place objects on the cord. Do not run the cord under rugs. mats. or other such objects.

8. This product. including accessories, may change due to upgrading without prior notice.

SHARP will not be liable nor responsible for any incidental or consequential economic or property damage caused by misuse andfor malfunctions of this product and its peripherals, unless such liability is acknowledged by law.

OPERATING CONTROLS

**POWER SWITCH; PRINT I ITEM COUNT MODE SELECTOR:**
"OFF": Power OFF.
"•"Power ON. Set to the non-print mode.
"V": Power ON. Set to the print mode.
"P•IC": Power ON. Set to the print and item count mode.

1. For addition or subtraction, each time + is pressed, 1 is added to the item counter, and each time − is pressed, 1 is subtracted.

   • The count is printed when the calculated result is obtained.

   • Pressing of I * 1, cia Icaf1/4-41 clears the counter.

2. When the grand total/rate setting mode selector is in the ON position (GT), the counter will count the number of times that the calculation results have been stored in the grand total memory. To print and clear the count, press the GT key.

3. The memory item counter will count the number of times that the M+ key has been pressed in the addition.
   Note:

   • Each time the M− key is used in the subtraction, 1 will be subtracted from the count

   • The count is printed when the memory is recalled.

   • Pressing of the *M key clears the counter.

Note: The counter has a maximum capacity of 3 digits (up to -±999).
If the count exceeds the maximum, the counter will recount from zero.
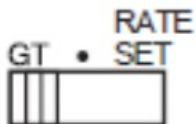
GRAND TOTAL /RATE SETTING MODE SELECTOR:

'GT': Grand Total
"•" Neutral 'RATE SET": Rate setting
Tax rate:

• Press %CE three times, enter the tax rate. fdlowed by TAX+

• A maximum of 4 digits can be stored (decimal point is not counted as a digit).

Conversion rate:

- Press three times, enter the conversion rate, followed by .
- A maximum of 6 digits can be stored (decimal point is not counted as a digit).
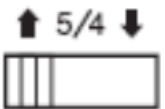
Note:

- Be sure to set this selector to the ” • ” position after storing an each rate.
- For the conversion rate and the tax / discount rate, a single value can be stored for each. If you enter a new rate. the previous rate will be cleared.
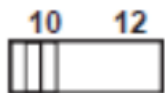
 DIGIT SELECTOR:

410 ": Sets the calculator to 10 Digit Mode with larger print. 412 ": Sets the calculator to 12 Digit Mode with normal save pnnt.

Note: When switching to the other mode. memory contents excluding the tax and conversion rate will be cleared.
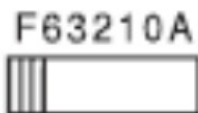
 ROUNDING SELECTOR:

"↑": An answer is rounded up.

"5/41" : An answer is rounded off.

"↓" : An answer is rounded down.

Note : The decimal point floats during successive calculation by the use of or

If the decimal selector is set to 1-F" then the answer is always rounded down (↓).

 DECIMAL i ADD MODE SELECTOR:

"6 3 2 1 0": Presets the number of decimal places in the answer.

"F": The answer is displayed in the floating decimal system.

"A"The decimal point in addition and subtraction entries is automatically positioned to the 2nd digit from the lowest digit of entry number. Use of the add mode permits addition and subtraction of numbers without entry of the decimal point. Use of , and will automatically override the add mode and decimally correct answers will be printed.
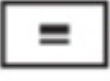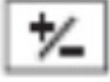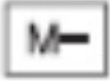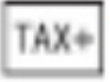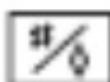
 TIME CALCULATION KEY:

- Utilize this key to enter hours and minutes in time calculations.
- Press this key after entering an hour or minute value. (There is no need to press this key when entering a second value.)
- To bypass hour entry, press this key after entering 0.
- To bypass minute entry, you may press this key alone, or press it after entering 0.
- When this key is pressed, if the preceding entry is in any of the following ranges, it is set as an hour or minute value: Hour: Within 6 digits Minute: 0 to 99 (An entry above 60 is rounded up to one hour. If a value of more than 3 digits is entered, only the least significant two digits take effect.)
- A second value is set when it is entered in the following range:

Second: 0 to 99 (An entry above 60 is rounded up to one minute. If a value of more than 3 digits is entered,

only the least significant two digits take effect.)

	PAPER FEED KEY
	For better printing. after setting the paper and after cutting the paper. prros
	LAST DIGIT CORRECTION KEY
GT	GRAND TOTAL KEY
C/CE	CLEAR f CLEAR ENTRY KEY
	Press this key twice followed by rate. TAX+ , to print the set tax

	TOTAL KEY
	MULTIPLICATION KEY
	|DIVISION KEY
	SUBTRACTION KEY
	ADDITION KEY
	EQUAL KEY
	CHANGE SIGN KEY
	MEMORY TOTAL CLEAR KEY
	MEMORY SUBTOTAL RECALL KEY
	MEMORY PLUS KEY
	MEMORY MINUS KEY
	TAX-INCLUDING KEY
	PRE-TAX KEY
	PERCENT KEY

[✻]	
[×]	
[÷]	
[−]	
[+]	
[=]	
[±]	
[✻M]	NON-ADD: SUBTOTAL KEY:
[◊M]	
[M✦]	
[M−]	
[TAX+]	
[TAX−]	
[%]	
[#✓]	

Non-add – When this key is pressed right after an entry of a number in the Print mode. the entry is printed an the left-hand side with the symbol "tr. This key is used to print out numbers not subject to calculation such as code. date, etc.

Subtotal – Used to get subtotal(s) of additions and/or subtractions. When pressed following the [+] or [−] key, the subtotal is printed with the symbol "C' and the calculation may be continued.
By pressing this key even in the Non-print mode, the displayed number is printed.

×RATE CONVERSION KEY:
This key is used:

- to store the conversion rate (by the use of the rate setting mode selector).
- obtains a value by multiplying a given number with a specified conversion rate.
- to recall the presently stored rate for check. Press C/CE first to clear the calculation register and reset an error condition, then press ×RATE .

÷RATE CONVERSION KEY:
This key is used to obtain a value by cfrviang a given number with a specified conversion rate.

DISPLAY SYMBOLS:

MGN	Appears when the margin is entered or calculated.
COST	Appears when the cost price is entered or calculated.
SELL	Appears when the selling price is entered or calculated.
TAX RATE	Appears when a TAX RATE is set.
TAX+	Appears when tax is included in the calculation result.
TAX-	Appears when tax is not included in the calculation result.
RATE	Appears when conversion rate is set.
E	Appears when an overflow or other error is detected.
G	Appears when a number is in the grand total memory.
M	Appears when a number is in the memory.
TIME	Appears when a time is set.

HOW TO CONNECT THE AC ADAPTOR

This machine can be operated on AC power by use of AC Adaptor
AC adaptor: PA1015-090DUB200
Make sure that you turn the calculator's power off when disconnecting the AC adaptor. To connect the AC adaptor, follow steps'33 and 21. To disconnect the AC adaptor, simply reverse the procedure.
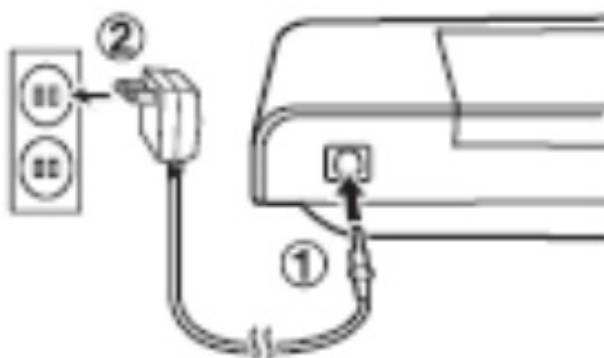
CAUTION
Use of other than the AC adaptor PA1015-090DUB200 may apply improper voltage to your SHARP calculator and will cause damage.

PAPER ROLL REPLACEMENT

1. Insert the paper roll to the paper holder. Make sure the direction of the paper roll. (Fig. 1) If it set in the incorrect direction, nothing will be printed on the paper roll.
2. Open the cover. (Fig. 2)
3. Insert the paper from behind and pass it to the exit. ((9g. 3)
4. Close the cover. (Fig. 4)

Fig. 1   Fig. 2   Fig. 3   Fig. 4
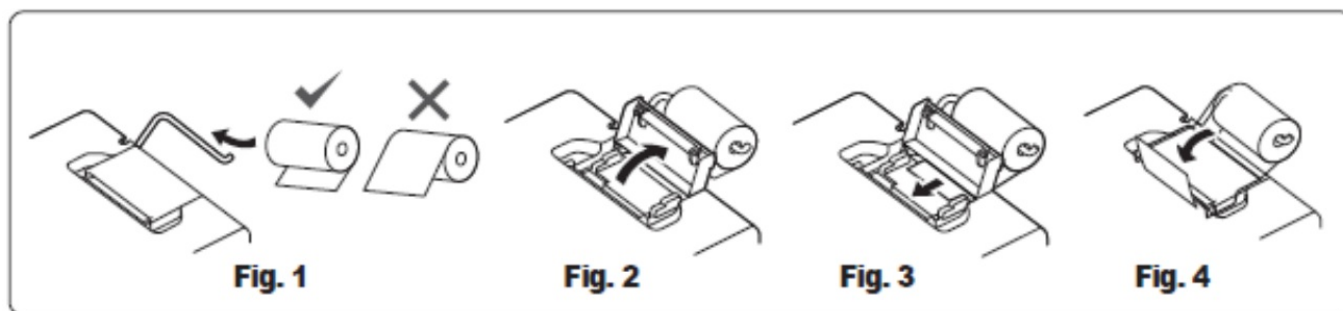
DO NOT PULL PAPER BACKWARDS AS THIS MAY CAUSE DAMAGE TO PRINTING MECHANISM.

ERRORS

There are several situations which will cause an overflow or an error condition. When this occurs, "E" will be displayed. The contents of the memory at the time of the error are retained.

If an "E" is displayed at the time of the error, [C/CE] must be used to clear the calculator. Also, in rare cases, printing may stop midway and the indication "E" will appear on the display. This is not a malfunction but is caused when the calculator is exposed to strong electromagnetic noise or static electricity from an external source.

Should this occur, press the [C/CE] key and then repeat the calculation from the beginning.

Error conditions:

1. When the integer portion of an answer exceeds 12 digits. (or 10 digits in 10 Digit Mode)
2. When the integer portion of the contents of the memory or grand total memory exceeds 12 digits. (or 10 digits in 10 Digit Mode) (Ex. [✻M] 999999999999 [M+] 1 [M+])
3. When any number is divided by zero. (Ex. [÷] 0 [=])

SPECIFICATIONS

Operating capacity: 12 digits (10 digits in 10 Digit Mode)
Power supply:
Operating: AC: Local voltage with AC adaptor PA1015-090DUB200
PRINTING SECTION:
Printer: Thermal printer

Printing speed: Approx. 8.0 lines/sec. (vanes according to use and other factors)
Printing paper: Thermal paper only
57 mm(2-114″) – 58 mm(2-9/32″) wide
80 mm(3-5/32″) in diameter (max.)
Operating temperature: 0°C — 40°C (32°F — 104°F)
Dimensions: 216 mm (W) x 245 mm (D) x 60 mm (H) (8-1/2″ (W) x 9-21132″ (D) x 2-318″ (I-1))
Weight: Approx. 670 g (1.48 lb.)
Accessories: 1 paper roll, AC adaptor PA1015-090DUB200, and operation manual

RESETTING THE UNIT

Strong impacts. exposure to electrical fields, or other unusual conditions may render the unit inoperative. and pressing the keys will have no effect. If this occurs, you will have to press The RESET switch on the front of the unit. The RESET switch should be pressed only when:

- an abnormal event occurs and all keys are disabled.

Notes:

- Pressing the RESET switch will clear conversion rate, tax rate, and memory contents.
- Use only a ballpoint pen to press the RESET switch. Do not use anything breakable or anything with a sharp tip, such as a needle.
- Connect the AC adaptor to an outlet, then press the RESET switch. Turn the power key "OW' and check that '0' is displayed.

CALCULATION EXAMPLES

1. Set the decimal selector as specified in each example. The rounding selector should be in the '-5/4r. position unless otherwise specified.
2. The grand total/rate setting mode selector should be in the its" position (off) unless otherwise specified.
3. The print/item count mode selector should be in the "P" position unless otherwise specified.
4. The digit selector should be in the "12: position.
5. If an error is made while entering a number. press [C/CE] or [→] and enter the correct number.

6. Negative values are printed in BOLD font.

ADDITION AND SUBTRACTION WITH ADD MODE

12.45 + 16.24 + 19.35 − 5.21 =

*	1245 **+**	12.45
	1624 **+**	28.69
	1935 **+**	48.04
	521 **−**	42.83
	✱	002
		42.83

* : **·** was not used in the entries.
* : La **·** no ha sido usada en las introducciones.

A. 5 × 2 + 12 =

	%CE %CE	
5	×	5.
2	■	
		10.
	+	10.
12	**+**	22.
	✱	
		22

12.45 +
16.24 +
19.35 +
5.21 −

42.83 ✱

5. ×
2. =
10. ✱

10. +
12. +
002

22. ✱

B. (10 + 2) × 5 =

10	**+**	10.
2	**+**	12.
	×	12.
5	**=**	60.

10. +
2. +
12. ×
5. =
60. ✱

CONSTANT

A. 62.35 × 11.11 = ①   62.35 × 22.22 = ②

62.35	×	62.35
11.11	■	
		692.7085
22.22	**=**	
		1,385.417

62.35 ×
11.11 =
692.7085 ✱ ①

22.22 =
1,385.417 ✱ ②

B. 11.11 ÷ 77.77 = ①   22.22 ÷ 77.77 = ②

11.11	**÷**	11.11
77.77	**=**	
		0.14285714285
22.22	■	
		0.28571428571

11.11 ÷
77.77 =
0.14285714285 ✱ ①

22.22 =
0.28571428571 ✱ ②

GRAN TOTAL

```
100 + 200 + 300 = ①
+) 300 + 400 + 500 = ②
```
Grand total/Gran total ③   F63210A   GT • SET(RATE)   OFF • P P•IC — ON

✱ GT			
100 +		100.	100. +
200 +		300.	200. +
300 +		600.	300. +
✱			600. ✱ +G ①
	G	600.	
300 +	G	300.	300. +
400 +	G	700.	400. +
500 +	G	1,200.	500. +
✱			1,200. ✱ +G ②
	G	1,200.	
GT			1,800. ✱G ③
		1,800.	

CORRECTION OF ERRORS

123 + 556 → 123 + 456   F63210A

123 +	123.	123. +
556 C/CE	0.	
456 +	579.	456. +
✱		579. ✱
	579.	

1234567 → 1234578   F63210A

1234567	1,234,567.
→	123,456.
→	12,345.
78	1,234,578.

PERCENT

100 × 25% =

100 ☒	100.	100. ×
25 %		25. %
		25.00 ✳
	25.00	

RATE GT • SET   F 6 3 2 1 0 A

(123 ÷ 1368) × 100 =

F 6 3 2 1 0 A

123 ÷	123.	123. ÷
1368 %		1,368. %
		8.99 ✳
	8.99	

ITEM COUNT CALCULATION

Bill No.	Number of tills	Amount
1	1	$00,101.
n	1	$200.00
3	1	$200.00
4	1	$00,401.
5	1	$00,501.
Total	(a)	(b)

F 6 3 2 1 0 A   OFF • P P•IC   ON

⅌CE ⅌CE		
100.55 +	100.55	100.55 +
200 +	300.55	200.00 +
+	500.55	200.00 +
400.55 +	901.10	400.55 +
500.65 +	1,401.75	500.65 +
✳		005 (a)
		1,401.75✳(b)
	1,401.75	

MEMORY

```
     46 × 78 = ①
 +)  125 ÷  5 = ②
 −)   72 ×  8 = ③
     Total        ④
```



```
*
         *M
    46  ×              46.                    46. ×
    78  M+                                    78. =
            M   3,588.          3,588.    +M①

   125  ÷    M   125.           125. ÷
     5  M+                        5. =
            M   25.              25.     +M②

    72  ×    M   72.             72. ×
     8  M−                        8. =
            M   576.            576.     −M③

        ◊M                     3,037.    0M④
            M   3,037.
        *M                     3,037.    *M

            3,037.
```

* : Press Ism I to clear the memory before starting a memory calculation.

TAX RATE CALCULATIONS
EXAMPLE 1: Set a 5% tax rate. Calculate the tax on S800 and calculate the total including tax.


```
    RATE
  GT • SET
  [  ║  ]

    RATE
  GT • SET
  [     ║]  %CE  %CE  %CE

      5                        5.

        TAX+                                 TAX
                                         5.000 % SET
    RATE
  GT • SET
  [  ║  ]        TAX     5.000

    RATE
  GT • SET
  [  ║  ]

    800  TAX+                              800.
                                           40. TAX
                                          840. TAX+

                TAX      840.
```

EXAMPLE 2: Perform two calculations using $840 and 5525, both of which already indude tax. Calculate the tax on the total and he total *tout tax (tax rate:5%)

```
                                                    F63210A
                                                     ▯▮

  840  +              840.              840. +
  525  +            1,365.              525. +
       TAX-                           1,365.
                                        65. TAX
                                      1,300. TAX-


              TAX- 1,300.
```

CONVERSION CALCULATION EXAMPLES
EXAMPLE 1: Set the conversion rate ($1 = ¥123.45).

```
                                                        RATE
                                                   GT • SET
                                                    ▯▮

  %CE %CE %CE 123.45 XRATE                          RATE
                                                 123.450SET

                      RATE 123.450
```

EXAMPLE 2: Convert $120 to yen ($1 = 123.45).

```
                                              RATE
                                    F63210A  GT • SET
                                     ▯▮       ▯▮

  120 XRATE                                 120. x
                                         123.450RATE
                                          14,814. *
                      14,814.
```

EXAMPLE 3: Set the conversion rate (1 meter = 39.3701 inches).

```
                                                        RATE
                                                   GT • SET
                                                    ▯▮

  %CE %CE %CE 39.3701 XRATE                         RATE
                                                 39.3701SET

                      RATE 39.3701
```

EXAMPLE 4: Convert 472.4412 inches to meters (1 meter = 39.3701 inches).

```
                                              RATE
                                    F63210A  GT • SET
                                     ▯▮       ▯▮

  472.4412 ÷RATE
                                          472.4412 ÷
                                         39.3701RATE
                                             12.*
                      12.
```

TIME CALCULATIONS

EXAMPLE 1: 4 hours 15 minutes 20 seconds + 3 hours 50 minutes 18 seconds =

EXAMPLE 2: Calculate the payroll amount at an hourly rate of $15 for the total number of hours worked for 7 hours 45 minutes per day for five days.

- Each time [TIME CALC] pressed after a result is displayed, the result toggles between the sexagesimal and decimal formats.
- This printer calculator supports the following repertoire of time calculations: Addition, subtraction, multiplication and division, constant calculation, memory calculation, grand total memory calculation, and percent calculation.
- Calculation range —999999 hours 59 minutes 59 seconds — 999999 hours 59 minutes 59 seconds
- Because time calculation results are rounded down to 13 decimal places after sexagesimal-to-decimal conversion, calculation errors may be introduced. Time calculations are displayed in sexagesimal with the fraction part of a second being rounded off.
- The sexagesimal arithmetic specifications of this printer calculator are as follows: Addition (Subtraction is similar to addition.) (Sexagesimal) + (Sexagesimal) = (Sexagesimal) (Sexagesimal) + (Decimal) = (Sexagesimal) (Decimal) (Sexagesimal) (Sexagesimal)

Multiplication (Division is similar to multiplication.)

(Sexagesimal) x (Sexagesimal) = (Decimal) (Sexagesimal) x (Decimal) .

(Decimal) (Decimal) x (Sexagesimal) = (Decimal)

COST / SELL / MARGIN CALCULATION
EXAMPLE 1: Determine the cost price for 30% margin when the selling price is set at $500. Selling Price Z, Marg.) Cost price

		RATE
	F53210A	GT • SET
500 SELL	SELL 500.	500.SELL ①
30	30.	
MGN		30.%MGN ②
		350.COST ③
	COST 350.	

• E'-tries In the order of '30 MGN 500 SELL are also valid.

EXAMPLE 2: Determine the seling price for 30% margin when the cost price is set at $350.1) Cost price 2) Margin 3) Selling Price

		F53210A
350 COST	COST 350.	350.COST ①
30	30.	
MGN		30.%MGN ②
		500.SELL ③
	SELL 500.	

• Entries in the order of *30 MGN 350 COST are also valid.

EXAMPLE 3: Determine the margin when the cost price is set at $350. and the seiiig price at $500.
1. Cost price 2. Selling Price 3. Margin
Also, obtain the mamil when the cost price is set to $250.

		F53210A
350 COST	COST 350.	350.COST ①
500	500.	
SELL		500.SELL ②
		30-%MGN ③
	MGN 30.	
250 COST	COST 250.	250.COST ①
SELL		500-SELL ②
		50.%MGN ③
	MGN 50.	

• Entries in the order of *500 SELL 350 COST are also valid.

- The entered value (enter value, then press [SELL], or [COST]) will be kept in the buffer, the re-entry will not be necessary when recalculating.
- The buffer contents will be cleared upon new entry, or when the power switch is turned off/on. or when "E" is displayed.
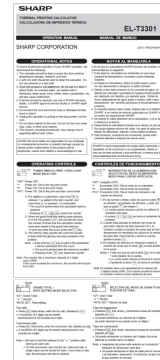
In U.S.A.:

LIMITED WARRANTY

VICTOR TECHNOLOGY LLC warrants to the first consumer purchaser that this Sharp brand product (the "Product"), when shipped in its original container, will be free from defective workmanship and materials, and agrees that it will, at its option, either repair the defect or replace the defective Product or part thereof with a new or remanufactured equivalent at no charge to the purchaser for parts or labor for the period(s) set forth below.

This warranty does not apply to any appearance items of the Product nor to the additional excluded item(s) set forth below nor to any Product the exterior of which has been damaged or defaced, which has been subjected to improper voltage or other misuse, abnormal service or handling, or which has been altered or modified in design or construction.

In order to enforce the rights under this limited warranty, the purchaser should follow the steps set forth below and provide proof of purchase to the servicer.

The limited warranty described herein is in addition to whatever implied warranties may be granted to purchasers by law. ALL IMPLIED WARRANTIES INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR USE ARE LIMITED TO THE PERIOD(S) FROM THE DATE OF PURCHASE SET FORTH BELOW. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

Neither the sales personnel of the seller nor any other person is authorized to make any warranties other than those described herein, or to extend the duration of any warranties beyond the time period described herein on behalf of Victor.

The warranties described herein shall be the sole and exclusive warranties granted by Victor and shall be the sole and exclusive remedy available to the purchaser. Correction of defects, in the manner and for the period of time described herein, shall constitute complete fulfillment of all liabilities and responsibilities of Victor to the purchaser with respect to the Product, and shall constitute full satisfaction of all claims, whether based on contract, negligence, strict liability or otherwise. In no event shall Victor be liable, or in any way responsible, for any damages or defects in the Product which were caused by repairs or attempted repairs performed by anyone other than an authorized servicer. Nor shall Victor be liable or in any way responsible for any incidental or consequential economic or property damage. Some states do not allow the exclusion of incidental or consequential damages, so the above exclusion may not apply to you.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS. YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

Your Product :	Electronic Calculator
Warranty Period for this Product :	Six (6) months parts and labor from date of purchase.
Additional Items Excluded from Warranty Coverage :	Any consumable items such as paper, maintenance cartridge, ink cartridges supplied with the Product or to any equipment or any hardware, software, firmware, fluorescent lamp, power cords, covers, rubber parts, or peripherals other than the Product.
How to Obtain Service :	Call Victor Technology LLC toll free at 1-844-578-1637 or email SharpService@victortech.com. You may be asked to ship your Product to Victor Technology LLC for repair. Be sure to have proof of purchase available. If you ship or mail the Product, be sure it is packaged carefully.

TO OBTAIN SUPPLY, ACCESSORY OR PRODUCT INFORMATION, CALL 1-844-578-1637.

Sharp Calculator Service by Victor Technology LLC
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Documents / Resources

SHARP EL-T3301 12 Digit Thermal Printing Calculator with 10 Digit Large Print [pdf] User Manual
EL-T3301 12 Digit Thermal Printing Calculator with 10 Digit Large Print, EL-T3301, 12 Digit Thermal Printing Calculator with 10 Digit Large Print, Printing Calculator with 10 Digit Large Print, 10 Digit Large Print