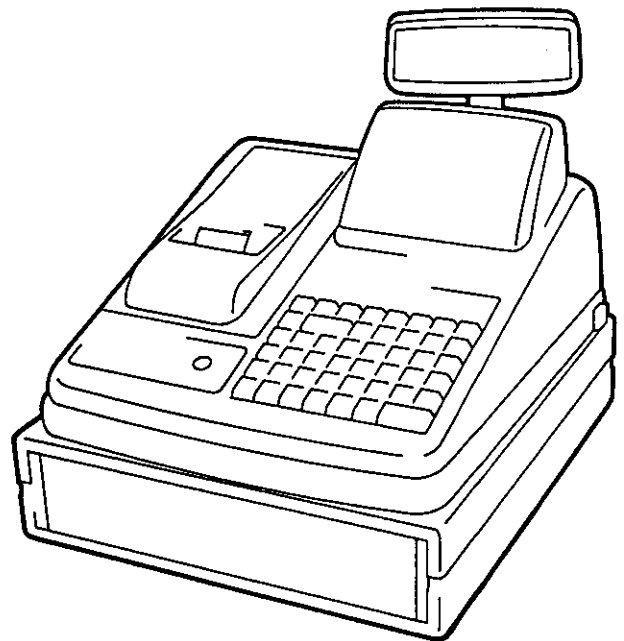


TEC

TEC Electronic Cash Register

MA-85-100

Owner's Manual



TOKYO ELECTRIC CO., LTD.

NOTICE

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

WARNING

"THIS DIGITAL APPARATUS DOES NOT EXCEED THE CLASS A LIMITS FOR RADIO NOISE EMISSIONS FROM DIGITAL APPARATUS SET OUT IN THE RADIO INTERFERENCE REGULATIONS OF THE CANADIAN DEPARTMENT OF COMMUNICATIONS."

"LE PRÉSENT APPAREIL NUMÉRIQUE N'EMET PAS DE BRUITS RADIOÉLECTRIQUES DÉPASSANT LES LIMITES APPLICABLES AUX APPAREILS NUMÉRIQUES DE LA CLASSE A PRESCRITES DANS LE RÉGLEMENT SUR LE BROUILLAGE RADIOÉLECTRIQUE ÉDICTÉ PAR LE MINISTÈRE DES COMMUNICATIONS DU CANADA."

1. Introduction

Thank you for choosing the TEC electronic cash register MA-85-100 series. This instruction manual provides a description of the functions and handling of this register and should be read carefully to ensure optimum performance. Since every consideration has been given to safety and reliability, there is no danger of damaging the machine by incorrect operation.

Please refer to this manual whenever you have any questions concerning the machine. This machine has been manufactured under strict quality control and should give you full satisfaction. However, if the machine is damaged during transit, or there are any unclear points in this manual:

For supplies, service or assistance call:

Please have the following information available when you call:

Product Name: TEC Electronic Cash Register

Model: MA-85-100

Serial Number: _____

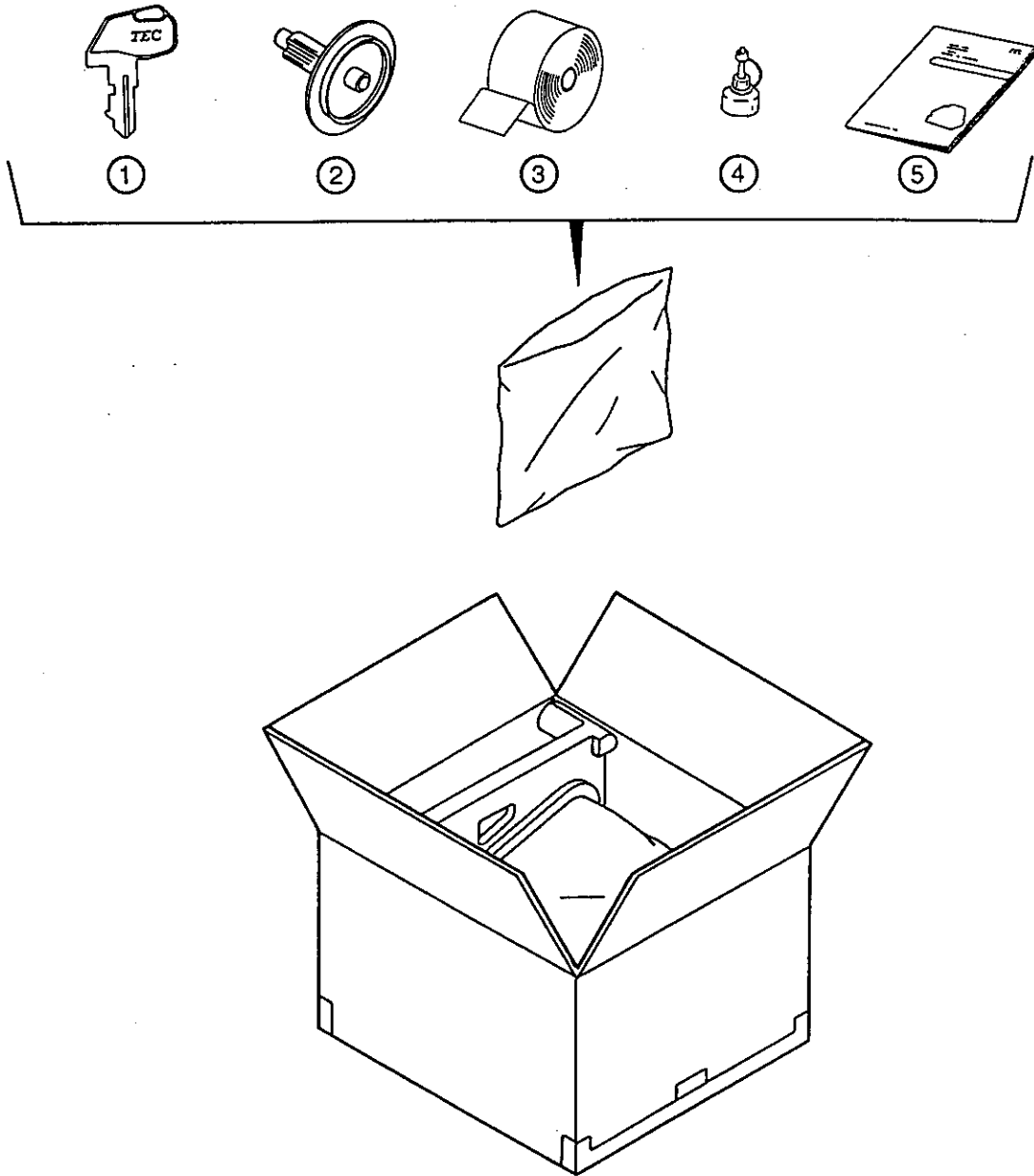
Place Purchased: _____

Date of Purchase: _____

If for any reason this product is to be returned to the store where purchased, it must be packed in the original carton.

- The specifications described in this manual may be modified by TEC, if necessary.
- Be sure to keep this manual for future reference.

2. Unpacking



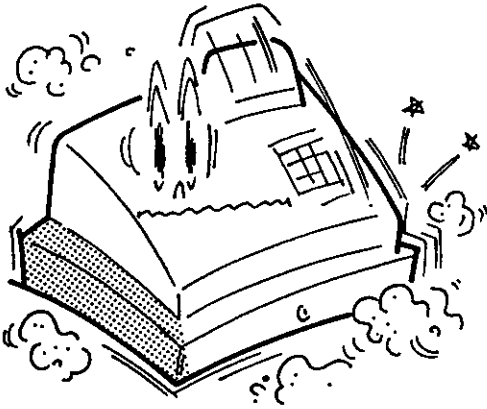
- | | |
|--|--------------------------|
| ① Control Key
(REG Key, MA Key, S Key; 2 pcs. respectively) | ④ Stamp Ink (1 pc.) |
| ② Journal Take-up Reel (1 pc.) | ⑤ Owner's Manual (1 pc.) |
| ③ Paper Roll 58mm x Ø50mm (1 pc.) | |

3. Precautions

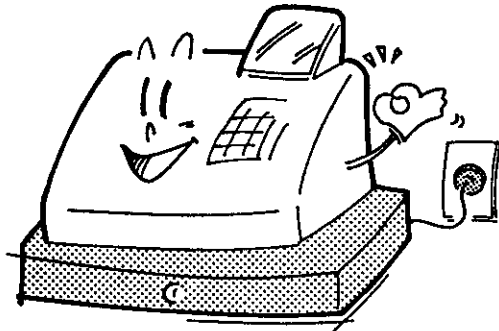
The ECR is a precision machine. Please handle it carefully considering the following guidelines.

Remarks on the Location

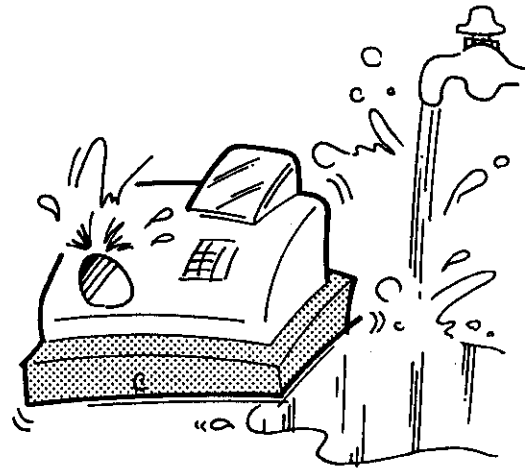
Do not place it where unusual temperature changes are expected or where it will be subjected to direct sunlight.



Keep it away from water sources.



Place it on a flat and level surface with little dust, humidity, vibration, etc.

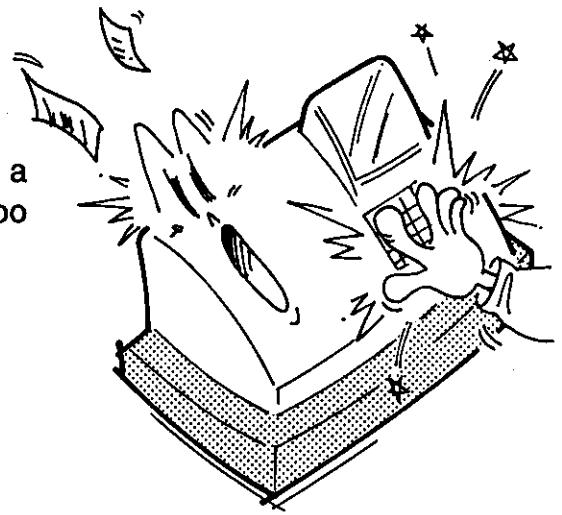
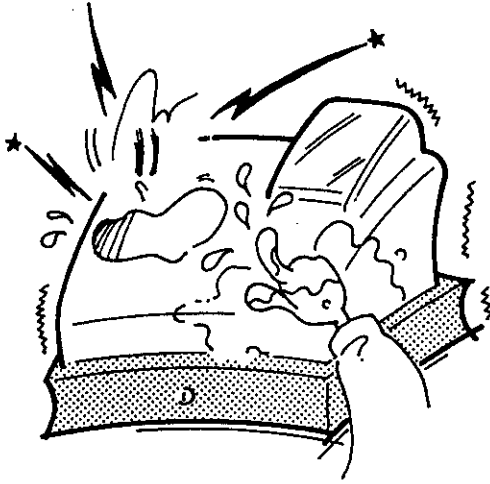


Be certain that the power voltage in your area matches that required for the machine. (The rated voltage is 117V AC.)

The socket-outlet shall be installed near the equipment and shall be easily accessible.

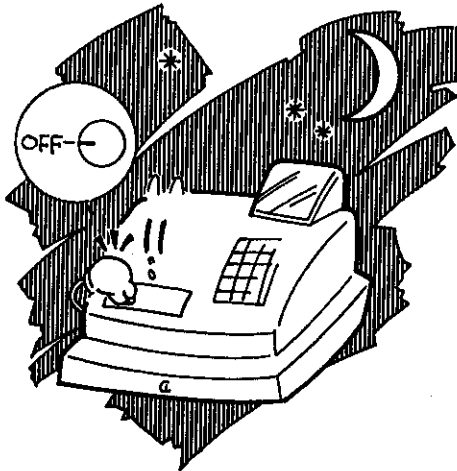
Remarks on Operating the ECR

The keys on the keyboard function with a light touch. Avoid pressing the keys too hard.



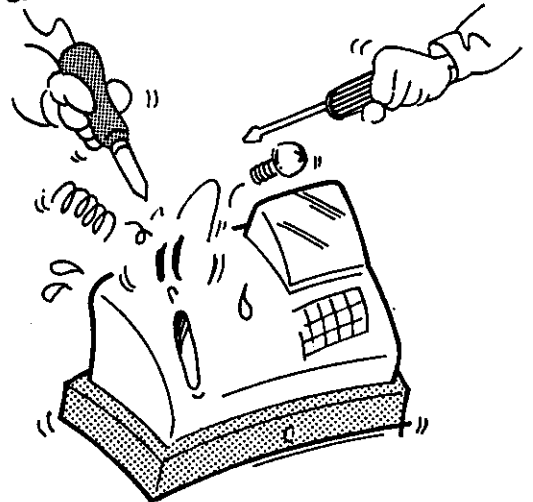
Do not handle the machine with wet hands, since this may cause electrical malfunctions and corrosion of parts.

Do not apply thinner, benzene, or other volatile materials to the cabinet or other plastic parts. Such liquids will cause discoloration or deterioration. If dirty, wipe off with a piece of cloth soaked in a neutral detergent and wrung out thoroughly.



Turn the Control Lock to **OFF** position when all operations are completed after business hours.

Never try to repair the ECR. If a problem occurs, please call your authorized TEC dealer, reseller or local TEC representative.



4. Table of Contents

	page
1. Introduction	1
2. Unpacking	2
3. Precautions	3
Remarks on the Location	3
Remarks on Operating the ECR	4
5. Outline of Preparation Procedure Before Operating the ECR	8
6. Appearance and Nomenclature	10
7. Control Lock and Control Keys	11
Control Keys	11
Control Lock	11
8. Display	12
Operator's Display	12
Customer's Display	12
Numeric Display	13
Message Descriptors	13
9. Keyboard	14
Standard Keyboard Layout	14
10. Installing the Receipt/Journal Roll	15
11. Setting the Time and Date	17
Setting the Time	17
Setting the Date	18
Displaying the Time	19
Printing Time and Date	19
12. Tax Table Setting	20
Setting the U.S. (or PST) Tax Tables	20
Setting the GST Rate	24
Setting the Non-taxable Limit Amount	25
Tax Calculation Test	26
13. Optional Key Setting	27
List of Keys	27
Key Installation Setting	28
Blank Keyboard Sketch (for your planning aid)	28
14. Daily Operation Flow	30
15. Setting Preparation of Each Key and Transaction Entries .	31
Receipt-issue/Non-issue Selection	31

Clearing Errors, or Clearing Wrong Declaration Key or Wrong Numeric Entries	32
Department Keys	33
Programming Department Keys	33
Sale Item Entries Using Department Keys	37
PLU (Price-Look-Up)	42
Programming PLUs	42
Sale Item Entries of PLUs	45
Listing Capacity Open	48
Percent Charge, Percent Discount	49
Setting Preset Rate for % Keys	49
% Key Operations in Sale Entries	50
Dollar Discount	51
Tax Modification	51
Item Correction (Last Line Voiding)	52
Returned Merchandise	53
Void (Designated Line Voiding)	54
All Void (Transaction Cancel)	55
Non-add Number Print	56
Subtotal Read & Print	57
Taxable Total Read	58
Manual Tax Entry	58
Cash Total, Cash Tender	59
Non-cash Media Total, Non-cash Media Tender	61
Multi-tender, Split Tender	62
Tax Exemption	63
Check Cashing	64
No-sale	65
Received-on-Account Payment	66
Paid Out	67
Post-issue Receipt	68
Print/Non-print Options on Sale Receipts	69

16. Read and Reset Reports **70**

Programming Operations Relating to Reports	70
Programming Hourly Range Table	70
Selecting Print/Non-print Items on Reports	71
Taking Read and Reset Reports	72
Fundamental Concepts of Various Types of Reports	72
Report Taking Operation	72
Daily Read Reports	73
Daily Reset Reports	75
Periodical Read Reports	76
Periodical Reset Reports	77
Report Sample Format	77
Daily Individual Department Read Report	78
Daily Media Sales & In-drawer Read Report	78
Financial Read or Reset Report (Daily or Periodical)	79
-- <i>Memory Balance</i> --	81
Daily Hourly Sales Read or Reset Report	82
Daily PLU Read or Reset Report (All or Zone)	83
Cashier Read or Reset Report (Daily or Periodical)	84

17. System Option Setting **85**

Programming Procedure	85
Address 1	87

Address 2	87
Address 3	88
Address 6	89
Address 7	89
Address 8	90
Address 11	91
Address 13	92
Address 14	92
Address 15	93
Address 16	94
18. Cashier Signing Operation (optional function)	95
Programming Requirements	95
Cashier Sign ON & Sign OFF	95
Cashier Reports	96
19. Electronic Journal Print (optional function)	97
Programming Requirements	97
Electronic Journal Report	97
Reading of the Remaining Lines of EJ Memory	97
Print Sample Format of Electronic Journal	98
20. Program Data Verification	99
Operating Procedure	99
Department Preset Price Read	100
Department LC and Status Read	100
PLU Table Read	101
Other Programmed Data Read	101
System Option Read	102
21. Paper Roll Replacement and Other Maintenance	103
Replacing the Paper Roll	103
Replacing the Ink Ribbon	104
Replenishing Ink to the Store Name Stamp	105
Manual Drawer Release	106
Removing the Drawer	106
22. Troubleshooting	107
23. Status Clear and Memory Clear Operations	111
Status Clear	111
Sales Memory Clear	112
All Memory Clear	113
24. Specifications	114

This is a “Table of Contents preview” for quality assurance

The full manual can be purchased from our store:

[https://the-checkout-tech.com/manuals/TEC/MA-85 operating programming manual.html](https://the-checkout-tech.com/manuals/TEC/MA-85%20operating%20programming%20manual.html)

And our free Online Keysheet maker:

<https://the-checkout-tech.com/Cash-Register-Keysheet-Creator/>

[HTTPS://THE-CHECKOUT-TECH.COM](https://the-checkout-tech.com)