
ER-380



Operation and Program Manual

All specificaitons are subject to change without notice

Precaution Statements

Follow these safety, servicing and ESD precautions to prevent damage and to protect against potential hazards such as electrical shock.

1-1 Safety Precautions

1. Be sure that all built-in protective devices are replaced. Restore any missing protective shields.
2. When reinstalling the chassis and its assemblies, be sure to restore all protective devices, including nonmetallic control knobs and compartment covers.
3. Make sure there are no cabinet openings through which people - particularly children - might insert fingers and contact dangerous voltages. Such openings include excessively wide cabinet ventilation slots and improperly fitted covers and drawers.
4. Design Alteration Warning:
Never alter or add to the mechanical or electrical design of the SECR. Unauthorized alterations might create a safety hazard. Also, any design changes or additions will void the manufacturer's warranty.
5. Components, parts and wiring that appear to have overheated or that are otherwise damaged should be replaced with parts that meet the original specifications. Always determine the cause of damage or over- heating, and correct any potential hazards.
6. Observe the original lead dress, especially near the following areas : sharp edges, and especially the AC and high voltage supplies. Always inspect for pinched, out-of-place, or frayed wiring. Do not change the spacing between comp-onents and the printed circuit board. Check the AC power cord for damage. Make sure that leads and components do not touch thermally hot parts.
7. Product Safety Notice:
Some electrical and mechanical parts have special safety-related characteristics which might not be obvious from visual inspection. These safety features and the protection they give might be lost if the replacement component differs from the original - even if the replacement is rated for higher voltage, wattage, etc.
Components that are critical for safety are indicated in the circuit diagram by shading, () or (). Use replacement components that have the same ratings, especially for flame resistance and dielectric strength specifications. A replacement part that does not have the same safety characteristics as the original might create shock, fire or other hazards.

CAUTION

Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type recommended by the manufacturer.
Dispose used batteries according to the manufacturer's instructions.

ATTENTION

Il y a danger d'explosion s'il y a remplacement incorrect de la batterie.
Remplacer uniquement avec une batterie du même type ou d'un type équivalent recommandé par le constructeur.
Mettre au rebut les batteries usagées conformément aux instructions du fabricant.

1-2 Servicing Precautions

WARNING: First read the-Safety Precautions-section of this manual. If some unforeseen circumstance creates a conflict between the servicing and safety precautions, always follow the safety precautions.

WARNING: An electrolytic capacitor installed with the wrong polarity might explode.

1. Servicing precautions are printed on the cabinet. Follow them.
2. Always unplug the units AC power cord from the AC power source before attempting to:
 - (a) Remove or reinstall any component or assembly
 - (b) Disconnect an electrical plug or connector
 - (c) Connect a test component in parallel with an electrolytic capacitor
3. Some components are raised above the printed circuit board for safety. An insulation tube or tape is sometimes used. The internal wiring is sometimes clamped to prevent contact with thermally hot components. Reinstall all such elements to their original position.
4. After servicing, always check that the screws, components and wiring have been correctly reinstalled. Make sure that the portion around the serviced part has not been damaged.
5. Check the insulation between the blades of the AC plug and accessible conductive parts (examples : metal panels and input terminals).
6. Insulation Checking Procedure:
Disconnect the power cord from the AC source and turn the power switch ON. Connect an insulation resistance meter (500V) to the blades of AC plug.
The insulation resistance between each blade of the AC plug and accessible conductive parts (see above) should be greater than 1 megohm.
7. Never defeat any of the B+ voltage interlocks. Do not apply AC power to the unit (or any of its assemblies) unless all solid-state heat sinks are correctly installed.
8. Always connect an instrument's ground lead to the instrument chassis ground before connecting the positive lead ; always remove the instrument's ground lead last.

1-3 Precautions for Electrostatically Sensitive Devices (ESDs)

1. Some semiconductor (solid state) devices are easily damaged by static electricity. Such components are called Electrostatically Sensitive Devices (ESDs); examples include integrated circuits and some field-effect transistors. The following techniques will reduce the occurrence of component damage caused by static electricity.
2. Immediately before handling any semiconductor components or assemblies, drain the electrostatic charge from your body by touching a known earth ground. Alternatively, wear a discharging wrist-strap device. (Be sure to remove it prior to applying power - this is an electric shock precaution.)
3. After removing an ESD-equipped assembly, place it on a conductive surface such as aluminum foil to prevent accumulation of electrostatic charge.
4. Do not use freon-propelled chemicals. These can generate electrical charges that damage ESDs.
5. Use only a grounded-tip soldering iron when soldering or unsoldering ESDs.
6. Use only an anti-static solder removal device. Many solder removal devices are not rated as anti-static; these can accumulate sufficient electrical charge to damage ESDs.
7. Do not remove a replacement ESD from its protective package until you are ready to install it. Most replacement ESDs are packaged with leads that are electrically shorted together by conductive foam, aluminum foil or other conductive materials.
8. Immediately before removing the protective material from the leads of a replacement ESD, touch the protective material to the chassis or circuit assembly into which the device will be installed.
9. Minimize body motions when handling unpackaged replacement ESDs. Motions such as brushing clothes together, or lifting a foot from a carpeted floor can generate enough static electricity to damage an ESD.

Contents

Getting Started	1
About the <i>ER-380</i> Series	1
Unpacking.....	2
Installing the Paper	2
Basic Features and Functions	6
Standard Hardware	6
Optional Hardware	6
Software Features	6
Display	7
Control Lock	11
Keyboards.....	12
Operating Instructions	13
Function Key Descriptions	13
Clerk Sign-On/Sign-Off	17
Direct Sign-On	17
Coded Sign-On.....	17
Receipt On and Off.....	18
Item Registrations.....	19
Open Keyboard PLU Entry	20
Preset Price Keyboard PLU.....	20
Keyboard PLU Repeat Entry.....	21
Keyboard PLU Multiplication.....	22
Keyboard PLU Multiplication with Decimal Point.....	23
Split Pricing (Keyboard PLU).....	24
Single Item Keyboard PLU	25
Open Code Entry PLU	26
Preset Price Code Entry PLU	26
Code Entry PLU Multiplication	27
Code Entry PLU Multiplication with Decimal Point	28
Split Pricing Code Entry PLU	28
Modifier Key	29
Price Level Key.....	30
Promo	31
Waste.....	32
Percent Key Operations	33
Preset Percent Discount on an Item.....	33
Enter a Percent Discount on an Item	34
Percent on Sale Total.....	34
Coupon on Sale (Vendor Coupon).....	35
Coupon on Item (Store Coupon)	36
Return Merchandise Registrations.....	37
Voids and Corrections	38

Error Correction (Void Last Item).....	38
Void Previous Item.....	38
Cancel.....	39
Void Position Operations	39
No Sale Operations.....	40
Open Drawer	40
Non Add Number	40
Received On Account Operations.....	41
Paid Out Operations.....	42
Subtotaling a Sale	43
Eat In/Take Out/Drive Thru Sales	43
Totaling and Tendering.....	44
Totaling a Cash Sale	44
Totaling a Check Sale.....	44
Tendering a Cash Sale.....	45
Tendering a Check Sale.....	45
Totaling a Charge Sale	46
Tendering a Charge Sale	47
Check Cashing.....	48
Split Tender	49
Post Tender.....	50
Currency Conversion.....	51
Table Management and Clerk Interrupt Operations	52
Overview	52
Soft Check	53
Hard Check.....	56
Direct Scale Entry.....	59
Automatic Scale Entry.....	60
Tare Weight Entry	60
Manual Tare Weight Entry.....	61
Manual Weight Entry	62

X Mode 63

Introduction.....	63
X Reports	64
Running a Report - General Instructions.....	64
Report Table	65
Cash Declaration.....	67

Service Mode Programming 68

Overview.....	68
Memory Allocation Scan	69
Pc Online Mode	69
Pc Memory Allocation.....	70
Clear Total	71
Clear Grand Total	71
Clear PLU File.....	71
Eprom Information	71
Function Key Assignment Programming.....	72
Function Key Codes	73
RS232C Port 1 Options	74

Program Mode Programming 76

Default Programming	76
Descriptor Programming Methods.....	76
Descriptor Code Method	77
Tax Programming	78
Straight Percentage Tax Rate Programming	78
PLU Programming.....	80
Program 100 - PLU Status Programming.....	81
Program 110 - PLU Auto Tare Programming.....	84
Program 150 - PLU Group Assignment	85
Program 200 - PLU Price/HALO Programming	86
Program 250 - PLU Stock Amount Programming	87
Program 300 - PLU Description Programming.....	88
Program 350 - PLU Link Programming.....	89
Program 400 - PLU Delete Programming	90
Program 450 - PLU MIX & MATCH Programming.....	91
System Option Programming.....	92
System Option Table	93
Print Option Programming	96
Print Option Table	97
Function Key Programming	101
Program 70 - Function Key Options	102
Program 80 - Function Key Descriptor	103
Program 90 - Function Key HALO.....	104
ADD CHECK.....	105
CANCEL.....	106
CASH.....	107
CHARGE1-8.....	108
CHECK.....	109
CHECK CASHING.....	110
CHECK ENDORSEMENT.....	111
CHECK #.....	112
CURRENCY CONVERSION	113
DRIVE THRU / EAT IN / TAKE OUT.....	114
ERROR CORRECT	115
F/S SUB.....	115
F/S TEND.....	116
GUEST.....	117
LEVEL1-2.....	117
#/NS.....	118
RETURN.....	119
MODIFIER 1-5	120
PAYMENT.....	121
PBAL.....	121
PROMO.....	122
PAID OUT1-3	123
PRINT CHECK.....	124
RECD ON ACCT1-3.....	125
SCALE	126
SERVICE	127
SUBTOTAL.....	128
TABLE	128
TARE	129
TAX EXEMPT.....	130
TIP.....	131
VALIDATE.....	132

VOID	133
WASTE	134
%1- %5	135
Clerk Programming.....	137
Program 800 - Secret Code Programming.....	138
Program 801 - Drawer Assignment & Training Clerk	139
Program 810 – Clerk Description Programming	140
Mix & Match Programming.....	141
Program 600 - Trip Level Programming	142
Program 601 - Price Programming	142
Program 610 - Mix & Match Description Programming.....	143
Group Programming	144
Miscellaneous Programming	146
Macro Key Sequence Programming.....	146
Logo Description Programming	147
NLU Code Number Programming	154
Cash-In-Drawer Limit Programming	155
Check Change Limit Programming	156
Date and Time Programming.....	157
Scale Tare Weight Programming	158
Machine Number Programming	159
Program Scans	160

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