

ROYAL[®]

140DX

Electronic Cash Register

Instruction Manual

16

Departments

999

PLUs

8 Clerks

**Automatic Tax
Computation**

4 Tax rates

**(Including Canadian
and VAT)**



WELCOME...

to the Royal family of fine business machines. We sincerely hope you will enjoy the many benefits of being associated with a distinguished product name that has represented both quality and customer satisfaction since 1905.

This electronic cash register is designed to help your business function smoothly by providing efficient register operations and accurate management reports. Start-up is quick and easy, yet there are many options that can be added and revised so that you can customize your operations for optimum productivity. Here are just a few of the register's many valuable features:

- 16 departments
- 999 PLU (Price Look-Up) settings
- 8 Clerk Totals
- Security System
- Automatic tax computation for tax rate **(Add-on, Canadian Tax and VAT)**
- Up to 4 Tax Tables
- Department-linked entry options that streamline and speed-up operation
- Periodic management reporting systems
- Battery back-up / memory protection of records

PLUS...

The ROYAL CONSUMER PRODUCT SUPPORT HOTLINE gives you the opportunity to call for operational assistance and problem resolution. Please call toll-free:

Customer Service:
1-800-272-6229 (USA)
52-559-138-3300 (in Mexico)
To Order Supplies: 1-888-261-4555

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1) INTRODUCING YOUR CASH REGISTER

STANDARD ACCESSORIES

The following are included in the box with your cash register:

- Instruction Manual
- 1 Set of Drawer Keys
- 2 pcs of Coin Separator
- 57/58MM (2 ¼") Single-Ply, Bond Register Tape
- (3) "AA"-Batteries for Memory Back-up System

USING THIS MANUAL

Your Cash Register manual is organized for easy reference. The front portion contains general information on all features and functions of the cash register. Instructions for setting the optional programs are next. Transaction examples for operating the register are at the back of the manual.

Use the TABLE OF CONTENTS to locate a particular item.

Throughout this manual, references to the keypad are shown bolded and in brackets. References to the operational keys are preceded by the word "press". For example: Press **[ST]**. Or: Press **[DEPARTMENT 1]**. References to the 11-key numeric keypad are preceded by the word "type". For example: Type the number **[1]**.

GETTING STARTED

Important note: The cash register must be first plugged in before installing the back-up batteries.

Before you begin to operate the register or set the programs, check SETTING UP AND MAINTAINING THE CASH REGISTER for installation information. Review KEYPAD FUNCTIONS, THE CONTROL SYSTEM and THE DISPLAY to become familiar with their operations.

NOTE: Programs and transaction information for management reports are stored in the memory of the cash register. The batteries must be installed to save this information.

SAFETY NOTICE

The main outlet for this cash register must be located near the unit and easily accessible. Do not use this cash register outdoors, in the rain or near any source of liquid. This equipment is not suitable for use in locations where children are likely to be present. This equipment with CLASS I construction shall be connected to a main socket outlet with a protective ground connection.

2) SPECIFICATIONS AND SAFETY

MODEL:	Royal 140DX Electronic Cash Register
DISPLAY:	LCD Display. Front display for cashier. Symbols for error, change, subtotal, minus, total and item count.
CAPACITY:	Total: 9-digit display with 7 numeric-digits input and readout.
PRINTER:	Impact, numeric only serial printer.
INK SOURCE:	Black or Purple Ink Roll, MS37902 (ROYAL brand part # 013109)
PAPER SUPPLY:	57/58MM (2 ¼") Single-Ply, Bond Register Tape (ROYAL brand part #013129)
MEMORY PROTECTION:	Approximately 30 days after power interruption. 3 Size AA (1.5-Volt) Batteries (User installed. Included with unit)
TECHNOLOGY:	CMOS RAM
OPERATING TEMPERATURE:	0-40 Degrees Centigrade (32-104 Degrees Fahrenheit)
DIMENSIONS:	14 ¼"D x 13 1/2"W x 7 5/8"H
WEIGHT:	9.4 lbs.

WARNING

FEDERAL COMMUNICATIONS COMMISSION (FCC) RADIO FREQUENCY INTERFERENCE STATEMENT INFORMATION TO THE USER:

CAUTION: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. If applicable, connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio / TV technician for assistance.

Connection of peripherals to this unit requires the use of grounded, shielded cables to ensure compliance with the Class B FCC limits.

3) BATTERY SAFETY & MAINTAINING THE CASH REGISTER

FEDERAL COMMUNICATIONS COMMISSION (FCC) RADIO FREQUENCY INTERFERENCE STATEMENT INFORMATION TO THE USER (continued)

IN CANADA:

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatuses set forth in the Radio Interference Regulations of the Canadian Department of Communications.

Le present appareil numerique n'emet pas de bruits radioelectriques depassant les limites applicables aux appareils numeriques de la Class B prescrites dans le Reglement sur le brouillageradioelectrique edicte par le ministere de Communications du Canada.

PROPOSITION 65 NOTICE

The following is given in accordance with California Proposition 65:


WARNING: This product contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm. *Wash hands after handling.*

BATTERY WARNING

CAUTION: RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE.

- Replace only with the same type of batteries recommended by the manufacturer.
- Use Alkaline or standard batteries (**Carbon-Zinc**).
- When replacing batteries pay attention to the polarity (the positive + and negative – ends of the battery); be sure to install the batteries in the correction position and proper direction.
- Do not mix old and new batteries, and do not mix Alkaline or standard batteries (**Carbon-Zinc**)
- Properly dispose of used batteries according to the battery manufacturer's instructions or according to your local environmental regulations and disposal guidelines.
- Never dispose of any batteries in fire! The batteries may leak or explode.

MAINTAINING THE CASH REGISTER

- Never cover the cash register when turned on. Doing so will prevent proper cooling of the electronic components.
- Cover the register when not in use to protect components from dust. The cash register should be turned "OFF" when covered and not in use.
- Take care to keep all liquids away from the machine to avoid spills, which could damage electronic components.
- To clean, use a soft, dry cloth. Do not apply organic solutions such as alcohol.
- Your cash register should be kept in areas free from dust, dampness or extreme hot or cold temperatures.
- If stored in extreme temperatures (**below 32 degrees or above 104 degrees Fahrenheit**), allow the temperature inside the register to reach room temperature before turning it on.
- DO NOT attempt to pull the paper tape when printing or installing paper. Always use the [] key to advance the paper. Pulling the tape could damage the print mechanism.
- If electronic service is necessary, an authorized service center is recommended. For a list of the Authorized Service Centers within your local area, please call 1-888-261-3888.

4) SETTING UP YOUR CASH REGISTER

IMPORTANT - Please read this section carefully before attempting to operate the cash register or set the programs.

1. Place on a hard, flat, level surface to permit smooth operation of the cash register.
2. Plug in the electrical connection to an appropriate outlet.
3. Install batteries. Do not install batteries unless the register is plugged in. **(See Page 7)**
4. Install paper. **(See Page 8)**
5. Set desired program options.
6. Set the Control Switch to "reg1" **(Receipt On: With Printing)** or "reg2" **(Receipt Off: Without Printing)**.
7. The machine is ready for cash register transactions.

REMOVABLE CASH DRAWER WITH LOCK

This model cash register has a compact cash box that takes up less counter space. The removable cash drawer has 4-bill slots that are sized to accommodate either US, Canadian or Mexican paper currency. It also has a removable coin tray. The coin tray is preset with 4-coin slots, however it can be expanded up to 6-slots to accommodate additional coins if required.

The coin separators, creating the walls between each coin slot, are removable and can be re-positioned in another groove to change the size of each coin slot. Three separators are already installed in the coin tray to create 4-slots. Two additional separators are included in the box with the cash register **(please check the packaging thoroughly)** and one or both of these can be installed to create a total of 5 or 6-slots. To remove a separator already installed in the coin tray, lift out the removable coin tray from the cash drawer. While squeezing the bottom of the plastic separator where it inserts into the groove opening at the bottom of the coin tray, turn the coin tray upside-down and use a flat-head screw driver from the opposite side to gently push the plastic locking tab out of the groove. Be careful not to break the plastic. To install a separator into the coin tray; line up the separator in a groove with the curved side of the separator facing down and into the coin tray, matching the shape of the coin tray. Be sure the separator is in one groove only; and push it all the way down into the coin tray until the locking tab clicks into position.

The cash drawer will open automatically or electronically after completing a cash, check or charge transaction or by pressing the **[#/ST/NS]** no-sale key. The cash drawer can also be opened manually by using the hidden emergency lever underneath the register, towards the back of the cash box.

The cash drawer is electronically locked when the control switch is in the "off" position. In addition, the cash drawer is designed with a security "lock and key" that manually locks it and prevents it from opening either electronically or when manually using the hidden emergency lever underneath the register. **WARNING:** The cash drawer cannot be opened when it is locked using the cash drawer key **(# 515)** – do NOT lose these keys.

When opened, the cash drawer can be completely removed from the register by lifting up on the front of the open drawer and pulling it towards you away from the register.

5) THE DISPLAY

READING THE DISPLAY

The display shows entry amounts and related transaction information through use of numbers and special symbols. The display window is situated so that the operator can view the operations.

The display is read from left to right as follows.

Department - The first 2-digits display the department number associated for the specific entry.






Repeat / Multiply - The second digit displays the number of items entered at the same price for the same PLU when repeating PLU's or multiplying items using the **[Qty/time]** key.

Amount - The remainder of the display shows the entry amount. Up to 7 digits can be used for the amount of each entry. For example, if you register a \$1.00 item to Department 1 and repeated the entry, the display would show:



Special Symbol Indicators

Special symbols appear at the far left of the display during operation of the cash register. These symbols identify the amount shown, warn of an error condition or indicate use of the program mode. They include:

- (Change)** -  Indicates the displayed amount is change due to the customer.
- (Minus)** -  Displays for a negative entry. Also displays if subtotal or cash tendered total is a negative number due to a return or refund.
- (Subtotal)** -  Indicates amount shown is a subtotal, including tax if applicable.
- (Total)** -  Indicates amount shown is the total of the transaction.
- (Error)** -  Displays if an error is made during operation or when setting programs. An error tone will sound to alert the operator. To stop the error tone (**beep**) and to clear the error, press the **[C]** Clear key

These symbols clear automatically when you start the next entry or press the **[C]** Clear key.

DISPLAYING THE TIME

Simply press the **[Qty/time]** key to display the current time. The time is displayed in 24-hour format. The displayed time is automatically cleared once a transaction is started.

NOTE: Trying to use this feature during a transaction will result in an error tone. If this occurs, press **[C]** to clear the error.

6) ERROR CONDITIONS

THE ERROR ALARM SYSTEM

The error alarm system warns of an operator error (**usually pressing the wrong key for a specific type of entry**) or an error when setting a program option. When the error beep tone sounds, an "E" appears in the display and the keypad locks. An error tone will also occur if the user tries to use a cash register function that has not been programmed yet.

To clear the "E" error, simply press the **[C]** Clear key.

NOTE: After starting a transaction, moving the Control Switch from "reg1" or "reg2" to another position before completing a transaction will result in an error condition to remind you to finish and total the transaction.

Clearing an Error:

1. Press the **[C]** Clear key. The tone ends, the display clears and the keypad unlocks.
2. Determine what error was made.
3. Correct the error, continue with the transaction, finish the transaction or restart the program.

NOTE: The **[C]** Clear key also clears an incorrect entry from the display prior to pressing a registration key. Once an entry is printed, the **[Void]** key must be used to correct an error.

VOIDING ERRORS

Once an entry is printed on the tape, the **[C]** Clear key cannot be used to correct the transaction or entry. Use the **[Void]** key to correct an error just registered.

1. Voiding the Entry Just Completed:

If an incorrect entry has been made AND the transaction has not yet been completed (**the [#ST/NS] or [Amount tend TOTAL] keys have NOT been pressed**), simply press the **[Void]** key to reverse the last entry BEFORE continuing with any other entries. The entry is reprinted with a "VOID/CORR" message following the amount and reversed or subtracted from the transaction.

2. Voiding an Earlier Entry:

To void an earlier entry in a previous transaction:

1. Complete and total the transaction, which includes the erroneous entry.
2. Start a new void transaction that will off-set the original transaction.
3. Press the **[Void]** key.
4. Re-type the incorrect information for the first item, exactly as originally entered (**with the incorrect price or other error**).
5. Repeat Steps 3 and 4 for each item in the original transaction.
6. Total the transaction by pressing the **[Amount tend TOTAL]** key. Then, you can start a new sale with the correct price or correct other information.

7) TO INSTALL OR REPLACE BATTERIES:

1. Be sure the cash register is plugged-in and there is power to the machine.
2. Move the control switch to the "reg1" or "reg2" position.
3. Open the printer cover (**Figure A**). The battery compartment is located inside the printer compartment.
4. Remove the paper roll from the compartment.
5. Remove the battery cover (Figure B), located on the bottom of the printer compartment.
6. Position the batteries as indicated (**Figure C**), making sure that the positive and negative poles are aligned correctly.
7. Replace the battery cover.
8. Re-install the paper roll (**See Figure D**)

NOTE: It is important that the unit is plugged in before the batteries are first installed and when being replaced.

NOTE: Please see important Battery Information and Safety Warnings on page 3.

NOTE: In order to assure continuous battery back-up protection, it is important that the batteries be changed at least once every year.

Fig. A



Fig. B



Fig. C



Fig. D



8) LOADING PAPER

HOW TO LOAD THE PAPER

This register uses standard 2 ¼ inch (57mm) single-ply bond paper to produce a customer receipt.

Fig. E




Fig. F



NOTE: It is recommended to use ROYAL brand 2 ¼" (57mm) bond paper, which will help prevent dust deposits on the printer mechanism caused by inexpensive paper rolls. Replace with standard bond quality calculator paper. **ROYAL Part #013129.**

To order, call the Royal Supply Center toll free at 1-888-261-4555.

1. Plug in your cash register.
2. Grasp the printer cover by the finger tab on front, left side of the cover. Gently pull up on the front of the cover and then raise it towards the back of the cash register (it is on a hinge and can be completely removed from the register). (**Figure E**)
3. Cut or tear the end of the paper roll evenly for a straight edge to permit proper feeding through the print head.
4. Place the paper roll in the paper holder so that the paper will feed out from the bottom of the roll toward the front of the register.
5. Insert the end of the paper roll into the paper slot (**Figure F**), the printer under the black plastic writing table.
6. Depress the  key until the paper catches and advances through the printer.
7. If the paper does not feed through the printer, make sure the paper has a smooth, straight edge and was inserted in the proper slot.
8. Pass the tape through the receipt window of the printer cover, in front of the metal paper cutting blade, if a customer receipt is desired.
9. Close the printer cover.

9) INSTALLING INK ROLL

HOW TO CHANGE THE INK ROLL

This register comes equipped with the ink roll installed at the factory. The ink roll releases special ink to the print head, which produces the print on the paper. After a period of time, depending upon the amount of use, the ink in the roll will be used up. When printout becomes faint, the ink roll needs to be replaced.

CAUTION:

The ink roll is NOT designed to be re-inked. Under no circumstances should this be done or permanent damage to your cash register print head will result. Such damage WILL NOT be covered under Royal's warranty.

REPLACE YOUR INK ROLL FOLLOWING THE INSTRUCTIONS BELOW:

1. Open the printer compartment by lifting the black, plastic printer cover.
2. The ink roll is found in the front of the printer compartment, just behind the print head, and is mounted in a plastic cartridge. To remove, grasp the small clip on the left of the ink roll (where the words "PULL UP" may be printed on the ink roll cartridge) and pull up. The ink roll will easily pull up and away from the print head. (**Figure G**)
3. To replace a new ink roll, insert the ink roll according to markings "L" (Left) and "R" (Right) by pressing downward to lock it into position, then close the printer cover. No tools are necessary.

For the best performance, store unopened ink roll package in a cool, dry place until installed.

Fig. G



NOTE: Replace with ROYAL Ink Roll, **Part #013109**.

To order, call the Royal Supply Center toll free at 1-888-261-4555.

10) BASIC FEATURES

DEPARTMENT : 16

PLU : 999

CLERK : 8 Clerks

TAX : USA TAX mode (4 TAX'S)
Canadian TAX Mode (4 TAX'S)
Value Add TAX Mode (4 VAT'S)

PAYMENT : CASH, CHECK, CHARGE

MANAGEMENT REPORTS : X/Z FINANCIAL REPORT
X/Z PLU REPORT
X/Z CLERK REPORT

DISPLAY : LCD DISPLAY (9 digits)

PRINTER : Citizen PA100
Printing Method - Character Selection Type
Print Speed - 2.03 line/second (at the 7 digits printing)
Number of Columns - 13 columns
Paper Width - 58 +0mm / -1mm
MCBF - 200000 lines

PROGRAMMABILITY : DATE (Month/Day/Year)
TIME
TAX mode – USA - Straight TAX (0-99.999%)
- Table TAX (63 step)
- Canadian (0-99.999%)
- VAT (0-99.999%)

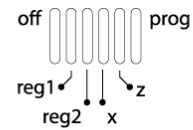
DEPARTMENT - Taxable
- Single Item or Normal
- Price

PLU - Price
- Link Department
- PLU or Sub-department
- Dump Report

-% rate (0-99.99%)
Decimal Point (X./X.X/X.XX/X.XXX)
Euro Conversion Rate (0.00000001-999999)
Euro Conversion Preset (Conversion currency will always print or not)
Euro Conversion Preset (Base currency setting)
Grand Total and Z Counter Clear
Z Report Security Code (4 digits)
Tax System (USA/Canadian/VAT)
Canadian Taxation Preset

Clerk - System (Active/Inactive)
- Security Code (3 digits)
- Security Setting

11) KEYBOARD LAYOUT




	Void	7	8	9	4/12	8/16	PLU	Dept shift
-%	Ref /-	4	5	6	3/11	7/15	Tax shift	Check /RA
Clerk	Qty /Time	1	2	3	2/10	6/14	#/ST/NS	Charge /PO
C		0	00	.	1/9	5/13	Amount Tend TOTAL	

12) TOTALIZERS & COUNTERS

	Z/X	
	TOTALIZERS	COUNTERS
DEPARTMENTS 1-16	8 (digits) × 16	3 (digits) × 16
TAX AMOUNT	8 × 1	-
MINUS	8 × 1	-
-%	8 × 1	-
RETURN	8 × 1	-
VOID	8 × 1	-
RECEIVED ACCOUNT	8 × 1	3 × 1
PAID OUT	8 × 1	3 × 1
CASH	8 × 1	3 × 1
CHARGE	8 × 1	3 × 1
CHECK	8 × 1	3 × 1
CASH IN DRAWER	8 × 1	-
CHECK IN DRAWER	8 × 1	-
GRAND TOTAL	10 × 1	-
NET SALES	8 × 1	-
GROSS SALES	8 × 1	-
NO SALE	-	3 × 1
Z1 COUNTER	-	3 × 1
PLU	8 × 999	3 × 999
CLERK	8 × 8	3 × 8

13) BASIC FEATURES AND FUNCTIONS (Continued)

KEYBOARD (Continued)

- | | |
|---|--|
| Amt Tend/TOTAL | - The Amt Tend/TOTAL key is used for cash tendering transactions. |
| Charge/PO | - The Charge key is used for charge tendering transactions.
The PO (PAID OUT) key is used to remove cash from the drawer.
It carries its own total on the financial report. |
| C | - The Clear key will clear an entry made on the numeric keypad or Qty/Time key before it is finalized on a department or function key.
The Clear key is also used to clear error conditions. |
|  | - Depressing the FEED key will advance the receipt or journal paper one line or continuously until the key is released. |
| Ref/- | - The Ref/- key is used to subtract an amount from the sale total.
The financial report records the (Ref/-) key total.

The Ref/- key is also used for refund operations.
The financial report records the refund total. |
| -% | - The -% key is used to subtract a percentage from the sale total.
The financial report records the -% key total. |
| #/ST/NS | - # key is used as a non-add number entry.
Depressing the ST (Subtotal) key will display the sales total.
NS (Non Sales) key is used as a non sales function (to open the drawer). |
| Check/RA | - The Check key is used for check tendering transactions.
The RA (Received On Account) key is used to record a cash payment or loan to the cash drawer.
The financial report records the Received On Account total. |
| 00,0 - 9 | - Numerical keys.
The numerical keys are used to input numbers. |
| • (Decimal point) | - The Decimal Point key is used to enter decimal points. |
| PLU | - Price Look Up function (999 PLUs). |
| Qty/Time | - The Qty/Time key is used to multiply department or (-) key entries. |
| Tax shift | - Tax may be programmed. |
| 1/9 - 8/16 | - Department keys are used to select non-taxable sales at the pre-programmed tax rate. |
| Dept. shift | - Dept. (Department) Shift key is used to select departments 9-16. |
| Clerk | - Clerk key is used for assign a clerk.
This key is also used for Euro conversion operations. |
| Void | - The Void key is used to erase an incorrect entry or for error correct operations. The financial report records the Void total. |

13) BASIC FEATURES AND FUNCTIONS (Continued)

CONTROL SWITCH

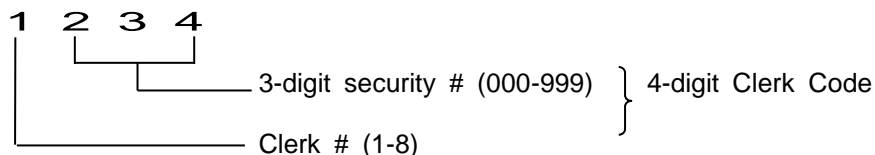
- OFF - The system is inoperable.
- REG1 - Registration mode with printing (Receipt ON).
- REG2 - Registration mode without printing (Receipt OFF).
- X - The X position is used to read the management report.
- Z - The Z position is used to read the management report and reset total to zero.
- PRG - The PRG position is used for all programming.

14) CLERK FUNCTION

Clerk codes are a special security feature to control access to the register. There are up to eight Clerks that can be assigned to the ECR. Once activated, the user can select either (please refer to Clerk System Programming):

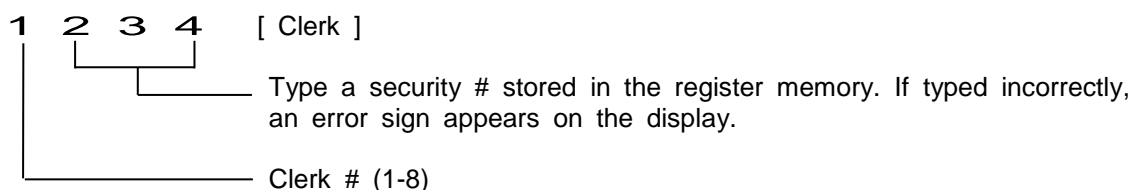
- i. Enter Clerk # without a security code, or
- ii. Entry Clerk # together with a security code
(Please refer to Clerk Security Setting for details).

Clerk code format



14-1) TO ASSIGN A CLERK

(REG MODE)



If the Clerk Security Setting is set to 0, it means you can assign the Clerk # ONLY for the starting transaction registration if the Clerk # is not set to a security code. The user can assign a Clerk # only, followed by the [Clerk] key.

If the Clerk # is set to a security code, you must assign the Clerk # together with the 3 digit security code once the Clerk Function has been activated.

1 [Clerk] ← Clerk # (1-8)

14) CLERK FUNCTION (Continued)

Note:

- In the event that the Clerk Security Setting is set to 1 (Default Setting), the user must assign a 3 digit security code for the Clerk # before the starting transaction registration.
- For the Clerk # that is not set to a security code, the Clerk # will not be able to be assigned for the starting transaction registration. "Re CL" will appear at the time of the error.

(Please refer to Section 7-20 for details).

14-2) CLERK # ON THE DISPLAY

The Clerk # is displayed as the 9th digit from the right.

Example: Clerk 1

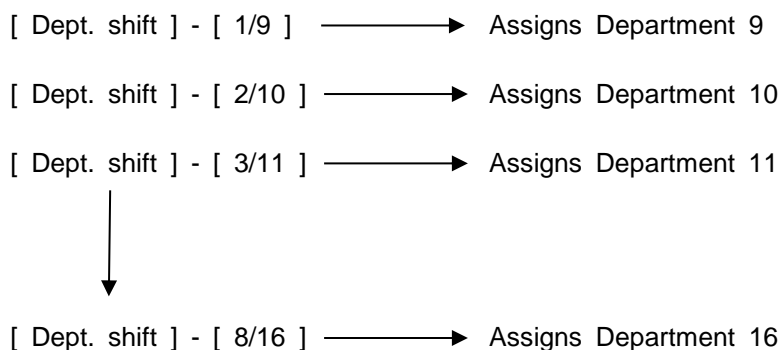
1									
---	--	--	--	--	--	--	--	--	--

To cancel the Clerk # currently assigned, turn off the mode selector or enter a new Clerk #.

15) DEPARTMENT SHIFT FUNCTION

The function is used to select DEPT 9-16.

To shift the departments, press DEPT 1-8 while pressing the DEPT SHIFT key.



Both REG and PRG Modes can be used for this function.

16) PROGRAMMING NOTES

If a mistake is made during programming, return to the beginning of that programming section, start again and complete all the required steps.

ALL PROGRAMMING IS PERFORMED IN THE PROGRAM MODE

Explanation of flow charts:

This manual uses a flow chart system to illustrate programming procedures. Following are explanations for the symbols used.

() : Parentheses indicate that an entry from the numeric keypad is necessary.

[] : Square Brackets indicate that depressing one of the function keys is necessary.

16-1) DATE PROGRAMMING

Enter the date in the sequence of month, day, and year and depress the #/ST/NS key.

(month) (day) (year) - [#/ST/NS]

Example : (112017) - [#/ST/NS]

11 - 20 - 17

16-2) TAX RATE PROGRAMMING

TO SET THE STRAIGHT TAX RATE:

(1-4) - [Tax shift] ...TAX NUMBER

(XX) - (4) - [Tax shift] ...MAXIMUM NON TAXABLE PRICE AND STRAIGHT TAX STATUS (4).

(0 - 99999) - [Tax shift] ...INDEX THE DESIRED TAX RATE (0 - 99.999%)

or

(1-4) - [Tax shift] ...TAX NUMBER.

(0 - 99999) - [Amt Tend/TOTAL] ...TAX RATE (0 - 99.999%)

Note: Even when in the programming sequence, you can exit the programming by pressing the [Amt Tend/TOTAL] key.

16) PROGRAMMING NOTES (Continued)

TO SET THE TABLE TAX RATE:

The tax table programming calculation uses the left side of the tax breaks. Maximum program length is 63 steps.

Following is an example of a 4% program from tax tables.

-----BREAK POINTS-----

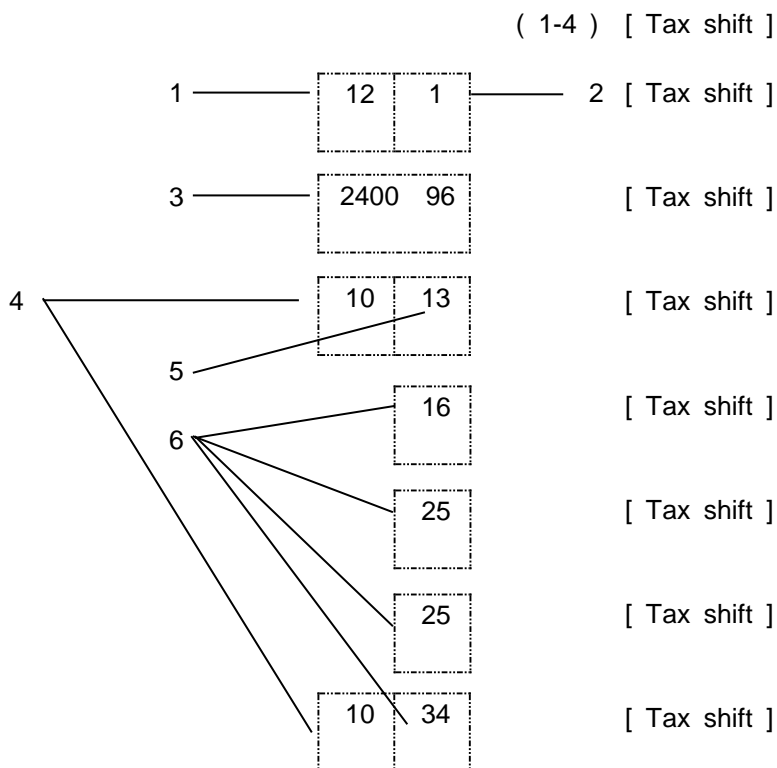
BREAKS	RANGE	TAX
13	0.00 - 0.12	0.00
16	0.13 - 0.28	0.01
25	0.29 - 0.53	0.02
25	0.54 - 0.78	0.03
34	0.79 - 1.12	0.04
:	1.13 - 1.28	0.05
:	:	:
:	:	:
:	:	:

The left side of the chart is used as shown to determine break points. On each set, the smaller number is subtracted from the larger for the break point.

16) PROGRAMMING NOTES (Continued)

Note : Some tax charts show \$0.01 as the low range. For accuracy, \$0.00 must be used.

THE TAX PROGRAM WOULD BE WRITTEN LIKE THIS:



1. MAXIMUM NON TAXABLE AMOUNT.
2. PROGRAMMING MODE – 1 = TAX TABLE.
3. THIS IS A SPECIAL NUMBER INDICATING TAX PERCENTAGE. 2 EXAMPLES ARE SHOWN HERE AS GUIDES TO DETERMINE THIS NUMBER.

1st Example : 4%

(4 breaks over \$1.00 range.)

$$\begin{array}{r} 100 \\ \times 24 \\ \hline =2400 \end{array} \quad \begin{array}{r} 4 \\ \times 24 \\ \hline =96 \end{array}$$

(Multiplier is used to bring the second part of the number as close to 100 as possible, but remaining a 2 digit number.)

2nd Example : 5.75%

(5.75 breaks over \$1.00 range.)

$$\begin{array}{r} 100 \\ \times 16 \\ \hline =1600 \end{array} \quad \begin{array}{r} 5.75 \\ \times 16 \\ \hline =92 \end{array}$$

(This multiplier number must give a whole number result close to 100.)

16) PROGRAMMING NOTES (Continued)

4. END OF NON REPEAT BREAKS AND REPEAT BREAKS INDICATOR.

5. NON REPEAT BREAKS PATTERN.

6. REPEAT BREAKS PATTERN.

Note: Even when in the programming sequence, you can exit the programming by pressing the Amt Tend/TOTAL key.

Example : 5% TAX PROGRAM

STRAIGHT PERCENTAGE

(1) – [Tax shift]

(154) – [Tax shift]

(5000) – [Tax shift]

or

(1) – [Tax shift]

(5000) – [Amt Tend/TOTAL]

0 - 01	*
1 - 54	*
50 - 00	*

0 - 01	*
50 - 00	*

Example : 4% TAX PROGRAM (4 BREAKS)

a. TAX TABLE

(1) - [Tax shift]

(121) - [Tax shift]

(240096) - [Tax shift]

(1013) - [Tax shift]

(16) - [Tax shift]

(25) - [Tax shift]

(25) - [Tax shift]

(1034) - [Tax shift]

0 - 01	*
1 - 21	*
2400 - 96	*
10 - 13	*
0 - 16	*
0 - 25	*
0 - 25	*
10 - 34	*

16) PROGRAMMING NOTES (Continued)

b) Canadian TAX

$(\text{TAX\#}) - [\text{Tax shift}] - (\text{Non-taxable limit price}) - [\text{Ref/-}] - (\text{Rate}) - [\text{Amt Tend/TOTAL}]$
1-4
Max.6 digits
0-99.999%

TAX # : 1 = GST
 2 = PST1
 3 = PST2
 4 = PST3

Example 1: GST = 7%, PST1 = 8%, PST2 = 8% (Non-taxable limit price = \$4.00),
PST3 = 10%

(1) - [Tax shift] - (7000) - [Amt Tend/TOTAL]
 (2) - [Tax shift] - (8000) - [Amt Tend/TOTAL]
 (3) - [Tax shift] - (400) - [Ref/-] - (8000) - [Amt Tend/TOTAL]
 (4) - [Tax shift] - (10000) - [Amt Tend/TOTAL]

70 - 00	*
80 - 00	*+
4 - 00	-
80 - 00	*△
100 - 00	*◇

16) PROGRAMMING NOTES (Continued)

Example 2: GST = 10%, PST1 = 20%, PST2 = 30%, PST3 = 40%

DEPT 1 = Taxable by GST
DEPT 2 = Taxable by PST1
DEPT 3 = Taxable by PST2
DEPT 4 = Taxable by PST3

Note: Do not select the Canadian Taxation System for TAX ON TAX.

11-20-05			
- 1 -			
1 - - - 10-00	*		
2 - - - 10-00	*+		
3 - - - 10-00	*Δ		
4 - - - 10-00	*◇		
1-00	*	←	GST AMOUNT
2-00	*+	←	PST1 AMOUNT
3-00	*Δ	←	PST2 AMOUNT
4-00	*◇	←	PST3 AMOUNT
50-00	==		
13-19-001			

GST \$10.00 X GST rate 10% = \$1.00
PST1 \$10.00 X PST1 rate 20% = \$2.00
PST2 \$10.00 X PST2 rate 30% = \$3.00
PST3 \$10.00 X PST3 rate 40% = \$4.00

16) PROGRAMMING NOTES (Continued)

Example 3: GST = 10%, PST1 = 20%, PST2 = 30%, PST3 = 40%

DEPT 1 = Taxable by GST and PST1

DEPT 2 = Taxable by GST and PST2

DEPT 3 = Taxable by GST and PST3

Note: Do not select the Canadian Taxation System for TAX ON TAX.

11-20-05	
- 1 -	
1 - - - - 10-00	*X
2 - - - - 10-00	*X
3 - - - - 10-00	*X
3-00	*
2-00	*+
3-00	*Δ
4-00	*◇
42-00	==
13-19-002	

← GST AMOUNT

← PST1 AMOUNT

← PST2 AMOUNT

← PST3 AMOUNT

GST \$30.00 X GST rate 10% = \$3.00

PST1 \$10.00 X PST1 rate 20% = \$2.00

PST2 \$10.00 X PST2 rate 30% = \$3.00

PST3 \$10.00 X PST3 rate 40% = \$4.00

c) VAT

(TAX #) - [Tax shift] - (Rate) - [Amt Tend/TOTAL]
 1-4 0-99.999%

TAX #: 1 = VAT1

2 = VAT2

3 = VAT3

4 = VAT4

Example 1 : VAT1 = 10%, VAT2 = 20%, VAT3 = 30%, VAT4 = 40%

(1) - [Tax shift] - (10000) - [Amt Tend/TOTAL]

(2) - [Tax shift] - (20000) - [Amt Tend/TOTAL]

(3) - [Tax shift] - (30000) - [Amt Tend/TOTAL]

(4) - [Tax shift] - (40000) - [Amt Tend/TOTAL]

100-00	*
200-00	*+
300-00	*Δ
400-00	*◇

16) PROGRAMMING NOTES (Continued)

Example 2: VAT1 = 10%, VAT2 = 20%, VAT3 = 30%, VAT4 = 40%

DEPT 1 = Taxable by VAT 1
DEPT 2 = Taxable by VAT 2
DEPT 3 = Taxable by VAT 3
DEPT 4 = Taxable by VAT 4

11-20-05	
- 1 -	
1 - - - 10-00	*
2 - - - 10-00	*+
3 - - - 10-00	*Δ
4 - - - 10-00	*◇
0-91	*
1-67	*+
2-31	*Δ
2-86	*◇
40-00	==
13-19-003	

← VAT1 AMOUNT

← VAT2 AMOUNT

← VAT3 AMOUNT

← VAT4 AMOUNT

16-3) TIME PROGRAMMING

Enter the hour and minutes in military standard time. Depress the Qty/Time key.

Example : (time) - [Qty/Time]
(1:00 pm = 13:00 hours) (1300) - [Qty/Time]

13-00

16-4) -% KEY PROGRAMMING

(rate : 4 digits) - [-%]
0 - 9999 = 0 - 99.99%

Enter the desired percent rate, then depress the -% key.

Example : 10% discount

(1000) - [-%]

10-00 %-

Note: The attribute of -% in the REG mode is identical to the attribute of the item (Dept or PLU) registered just before. When -% is used after Subtotal, it attributes to all the items registered by then.

16) PROGRAMMING NOTES (Continued)

16-5) DECIMAL POINT POSITION PROGRAMMING

Depress the 1 key.

Enter desired decimal status (position) number (0-3).

Depress the Received Account key.

Status :

0 = x.

1 = x.x

2 = x.xx

3 = x.xxx

Note: Default Value = 2 (x.xx)

(1) - (status) - [Void]
1 digit

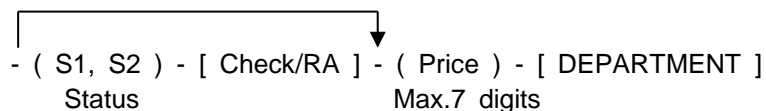
Example : (1) - (2) - [Void]

12

16) PROGRAMMING NOTES (Continued)

16-6) DEPARTMENT PROGRAMMING

Key sequence



< Status >

S1 : 0 = Normal department

1 = Single item cash

S2 :

		USA	CANADIAN	VAT
00	Non-Taxable	o	o	o
01	Taxable by TAX 1	o	o	o
02	Taxable by TAX 2	o	o	o
03	Taxable by TAX 3	o	o	o
04	Taxable by TAX 4	o	o	o
05	Taxable by TAX 1 and TAX 2	o	o	
06	Taxable by TAX 1 and TAX 3	o	o	
07	Taxable by TAX 1 and TAX 4	o	o	
08	Taxable by TAX 2 and TAX 3	o	o	
09	Taxable by TAX 2 and TAX 4	o	o	
10	Taxable by TAX 3 and TAX 4	o	o	
11	Taxable by TAX 1, TAX 2 and TAX 3	o	o	
12	Taxable by TAX 1, TAX 2 and TAX 4	o	o	
13	Taxable by TAX 1, TAX 3 and TAX 4	o	o	
14	Taxable by TAX 2, TAX 3 and TAX 4	o	o	
15	Taxable by TAX 1, TAX 2, TAX 3 and TAX 4	o	o	

* Possible tax status indicated as "o".

* When it is set to 05-15, only "TX" is printed as a tax symbol.

Example:

- (001) - [Check/RA]
- (1000) - [1/9]
- (000) - [Check/RA]
- (9000) - [Dept shift] - [1/9]

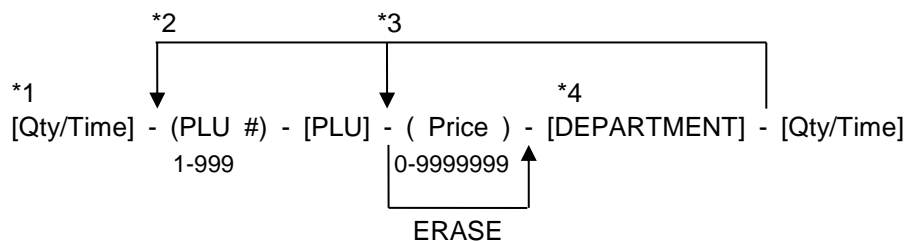
$001 = X$
 $1 \dots 10 \cdot 00 \quad *$
 $000 = X$
 $9 \dots 90 \cdot 00$

16) PROGRAMMING NOTES (Continued)

16-7) PLU PROGRAMMING

(a) TO PROGRAM PLU ITEM PRICE

Key sequence



*1 Enter program PLU item price.

*2 After you press the [DEPT] key, you can loop back and start programming for another PLU by inputting a new PLU number.

*3 After you press the [DEPT] key, you can loop back and input a preset price which will be assigned to the next PLU.

*4 Linked department is changed.

Note: When in the programming sequence, you can exit the programming by pressing the [Amt Tend/TOTAL] key.

Example:

[Qty/Time]
 (1) - [PLU]
 (1000) - [1/9]
 (100) - [2/10]
 (10) - [PLU]
 (100) - [3/11]
 [Qty/Time]

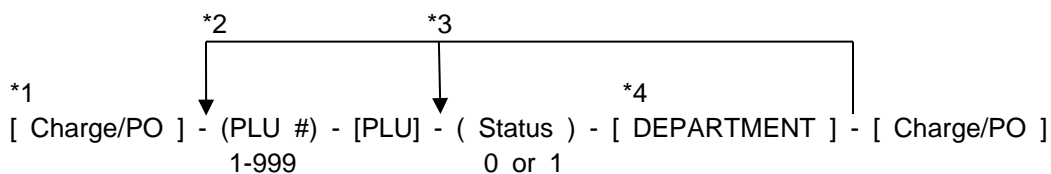
P001
P001
P002
P003
P010
P011
O.00

*NON-PRINT

16) PROGRAMMING NOTES (Continued)

(b) TO PROGRAM PLU STATUS

Key sequence



Status : 0 = Treat as a PLU
 1 = Treat as a SUB-DEPARTMENT

- *1 Enter program PLU Status.
- *2 After you press the [DEPT] key, you can loop back and start programming for another PLU by inputting a new PLU number.
- *3 After you press the [DEPT] key, you can loop back and input a preset status which will be assigned to the next PLU.
- *4 Linked department is changed.

Note: When in the programming sequence, you can exit the programming by pressing the [Amt Tend/TOTAL] key.

Example:

[Charge/PO]	P001
(1) - [PLU]	P001
(0) - [1/9]	P002
(1) - [2/10]	P003
(10) - [PLU]	P010
(0) - [3/11]	P011
[Charge/PO]	0.00

*NON-PRINT

16) PROGRAMMING NOTES (Continued)

16-8) GRAND TOTAL & Z COUNTER CLEAR

Example : (20) - [Void]

20

16-9) Z REPORT SECURITY CODE

Management reports can be printed in either the "X" or "Z" position on the Control Switch. When printed in the "Z" position, transaction totals are reset to zero. Assigning a security code can prevent accidental resetting of transaction totals. Once assigned, the "Z" report prints only after entering the security code.

NOTE: Assign a number that is easy to remembered. You should also keep the program receipt as a reminder. If you do forget the code, reset this program with a new code. Then print using the new code.

(Security code) - [Charge/PO]
Max. 4 digits

Example : (1234) - [Charge/PO]

12 - 34 = C

16-10) PLU DUMP REPORT

Depress the PLU key.

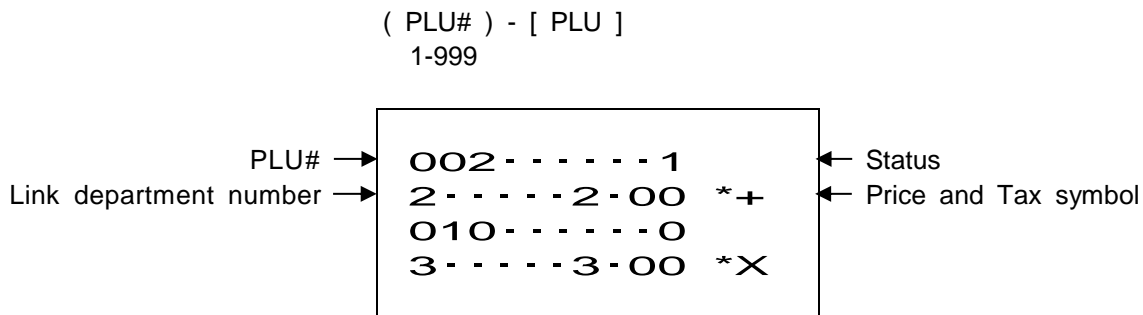
[PLU]

PLU# →	001 - - - - - 0	← Status
Link department number →	1 - - - - - 1 - 00 *	← Price and Tax symbol
	002 - - - - - 1	
	2 - - - - - 2 - 00 * +	
	010 - - - - - 0	
	3 - - - - - 3 - 00	← Price (Non taxable)

Note: Press the [C] key when you want to interrupt the printing.

16) PROGRAMMING NOTES (Continued)

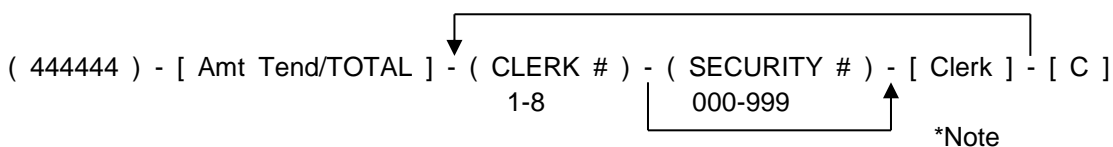
16-11) DESIGNATED PLU PROGRAMMING DUMP REPORT



Note: Press the [C] key when you want to interrupt the printing.

16-12) CLERK SECURITY # PROGRAMMING

TO SET THE SECURITY NUMBER



Example: Security # "234" is stored in the register memory for Clerk #1.
 Security # "345" is stored in the register memory for Clerk #2.

(444444) - [Amt Tend/TOTAL]
 (1) - (234) - [Clerk]
 (2) - (345) - [Clerk]
 [C]

4444 - 44 ==
 12 - 34
 23 - 45

*Note: To remove the security code for a Clerk, input the Clerk # followed by the [Clerk] Key.

Example: To remove the security code for Clerk 1

(1) - [Clerk]

0 - 01

16) PROGRAMMING NOTES (Continued)

16-13) CLERK SYSTEM PROGRAMMING

(44444) - (Status) - [Amt Tend/TOTAL]

Status : 0 = Clerk System inactive

1 = Clerk System active

Example : (44444) - (0) - [Amt Tend/TOTAL]

4444 - 40 ==

Note: If "CLERK SYSTEM INACTIVE" in the clerk system programming was selected, the cash register operates without entering the Clerk # and its 3 digit security #. Under this mode, the display shows "1" as the Clerk # and prints "1" as the Clerk # on receipts, journals and reports. All sales will be added together into Clerk # 1 and the Clerk Report covers only sales for Clerk # 1.

16-14) TAX SYSTEM PRESET

(3) - (Status) - [Void]
1 digit

Status : 0 = USA TAX MODE

1 = CANADIAN TAX MODE

2 = VAT MODE

Note : Default value = 0 (USA TAX mode)

Example : USA MODE

(3) - (0) - [Void]

30

16) PROGRAMMING NOTES (Continued)

16-15) SETTING THE CANADIAN TAX SYSTEM

In the Canadian Tax mode, when the "non-taxable limit price" is set in the PST calculation, you can select a value either including GST or excluding it.

a) (4) - (status) - [Void]
1 digit

Status : 0 = Setting non-taxable limit without GST TAX for Canadian tax mode.
1 = Setting non-taxable limit with GST TAX for Canadian tax mode.

Note: Default value = 0 (Without GST TAX)

Example 1: Without GST TAX

(4) - (0) - [Void]

40

Example 2: DEPT 1 = Taxable GST and PST1
DEPT 2 = Taxable GST and PST2
DEPT 3 = Taxable GST and PST3
GST = 7%, PST1 = 8%, PST2 = 8% Non-taxable limit price \$4.00, PST3 = 10%

5 = 1 (TAX ON TAX)

Status = 0 (without GST TAX)

11-20-05		
-1-		
1- - - -	1-00	*X
2- - - -	4-00	*X
3- - - -	5-00	*X
	0-70	*
	0-09	*+
	0-00	*Δ
	0-54	*◇
	11-33	==
13-19-005		

GST 7%
PST1 8%
PST2 8%
FROM \$4.01
PST3 10%

Status = 1 (with GST TAX)

11-20-05		
-1-		
1- - - -	1-00	*X
2- - - -	4-00	*X
3- - - -	5-00	*X
	0-70	*
	0-09	*+
	0-34	*Δ
	0-54	*◇
	11-67	==
13-19-006		

When GST is excluded, \$4.00 becomes \$0.00 (PST amount) as the non-taxable limit price. In the above receipt, it is shown as \$0.00 but in the actual printing, \$0.00 is not printed because of the zero skip. When GST is included, \$4.28 becomes \$0.34 (PST amount) as the non-taxable limit price.

16) PROGRAMMING NOTES (Continued)

b) (5) - (status) - [Void]
1 digit

status : 0 = Do not select the Canadian Taxation System on TAX ON TAX
1 = Select the Canadian Taxation System on TAX ON TAX

Note) Default Value = 0

Example 1: (5) - (1) - [Void]

51

c) (6) - (status) - [Void]
1 digit

Status :	Do not include GST in PST1	Do not include GST in PST2	Do not include GST in PST3
0 =	X	X	X
1 =	O	X	X
2 =	X	O	X
3 =	O	O	X
4 =	X	X	O
5 =	O	X	O
6 =	X	O	O
7 =	O	O	O

X = No (Include) O = Yes (Do not Include)

* This is effective only when '1' is selected in b) above.

Note) Default Value = 0

Example 2: (6) - (0) - [Void]

60

16) PROGRAMMING NOTES (Continued)

Example 3: DEPT 1 = Taxable GST
 DEPT 2 = Taxable PST1
 DEPT 3 = Taxable PST2
 DEPT 4 = Taxable PST3
 GST = 7%, PST1 = 8%, PST2 = 9%, PST3 = 10%

5 = 0 (No Canadian tax on (TAX ON TAX))
 6 = 0

5 = 1 (TAX ON TAX)
 6 = 0

11-20-05		
- 1 -		
1 - - - 100-00	*	
2 - - - 100-00	*+	
3 - - - 100-00	*Δ	
4 - - - 100-00	*◇	
7-00	*	
8-00	*+	
9-00	*Δ	
10-00	*◇	
434-00	==	
13-19-007		

GST 7%
 PST1 8%
 PST2 9%
 PST3 10%

11-20-05		
- 1 -		
1 - - - 100-00	*	
2 - - - 100-00	*+	
3 - - - 100-00	*Δ	
4 - - - 100-00	*◇	
7-00	*	
8-56	*+	
9-63	*Δ	
10-70	*◇	
435-89	==	
13-19-008		

No Canadian Tax on (TAX ON TAX)

GST = \$100.00 x GST rate 7% = \$7.00
 PST1 = \$100.00 x PST 1 rate 8% = \$8.00
 PST2 = \$100.00 x PST 2 rate 9% = \$9.00
 PST3 = \$100.00 x PST 3 rate 10% = \$10.00

TAX ON TAX

GST = \$100.00 x GST rate 7% = \$7.00
 PST1 = {\$100.00 + (\$100.00 x GST rate 7%)} x PST1 rate 8% = \$8.56
 PST2 = {\$100.00 + (\$100.00 x GST rate 7%)} x PST2 rate 9% = \$9.63
 PST3 = {\$100.00 + (\$100.00 x GST rate 7%)} x PST3 rate 10% = \$10.70

16-16) EURO CONVERSION PRESET

(7) - (Status) - [Void]
 1 digit

Status : 0 = Euro convert function will not be allowed.
 1 = Euro convert function will be allowed.
 Note : Default Value = 0

Example : (7) - (1) - [Void]

71

16) PROGRAMMING NOTES (Continued)

16-17) ZERO PRICE ENTRY SETTING

(8) – (Status) – [Void]
1 digit

Status : 0 = Zero price entry will not be allowed.
1 = Zero price entry will be allowed.

Note : Default Value = 0

Example : (8) – (1) – [Void]

81

16-18) EURO CONVERSION PRESET (CONVERSION CURRENCY ALWAYS `PRINT OR NOT)

(9) – (Status) – [Void]
1 digit

Status : 0 = PRINT AT CONVERSION TENDER
1 = PRINT ALWAYS TENDER

Note 1: When selecting “1”, the converted currency is printed in the following cases.

- a. Sales total of sales receipt
- b. Change of sales receipt
- c. Value of RA/PO.
- d. Net sales total in the Z report

Note 2: Default Value = 0

Example: (9) – (0) – [Void]

90

16) PROGRAMMING NOTES (Continued)

16-19) EURO CONVERSION PRESET (BASE CURRENCY SETTING)

(10) – (Status) – [Void]
1 digit

Status : 0 = LOCAL Currency
1 = EURO Currency

Note 1: When the base currency is set to LOCAL, the converted amount is in EURO, and when the base currency is set to EURO, the converted amount is in LOCAL.

Note 2: Default Value = 0

Example : (10) – (0) – [Void]

100

16-20) CLERK SECURITY SETTING

(11) – (Status) – [Void]
1 Digit

Status : 0 = Allows you to enter the clerk # ONLY to assign a clerk for the transaction registration.
1 = Must enter the clerk # together with the 3 digit security code (in OFF mode) To assign a clerk for transaction registration. (Default Setting)

Example : (11) – (0) – [Void]

110

16-21) EURO CONVERSION RATE PROGRAMMING

(Exp.) – (D.P) – (RATE) - [Clerk]
0-8 0-3 0.00000001-999999

- Euro Exchange Rate is programmed using the [Exp] and [Rate] keys.
- [Exp] = For setting the decimal place for the Euro rate.
- [D.P.] = For setting the decimal place for the exchange amount.

Note : Default Value - Exp. = 0, D.P = 2 RATE = 00001

Example : 1 Euro = 2.5 LOCAL
D.P = 2

(1) – (2) - (000025) – [Clerk]

12000025 Δ

17) OPERATING NOTES

ALL OPERATIONS ARE PERFORMED WITH THE CONTROL SWITCH IN THE REG POSITION

The term '**department entry**' is used many times in the operating sequences. This refers to a normal department entry - remember that an amount must be entered via the numeric keypad before depressing a department key.

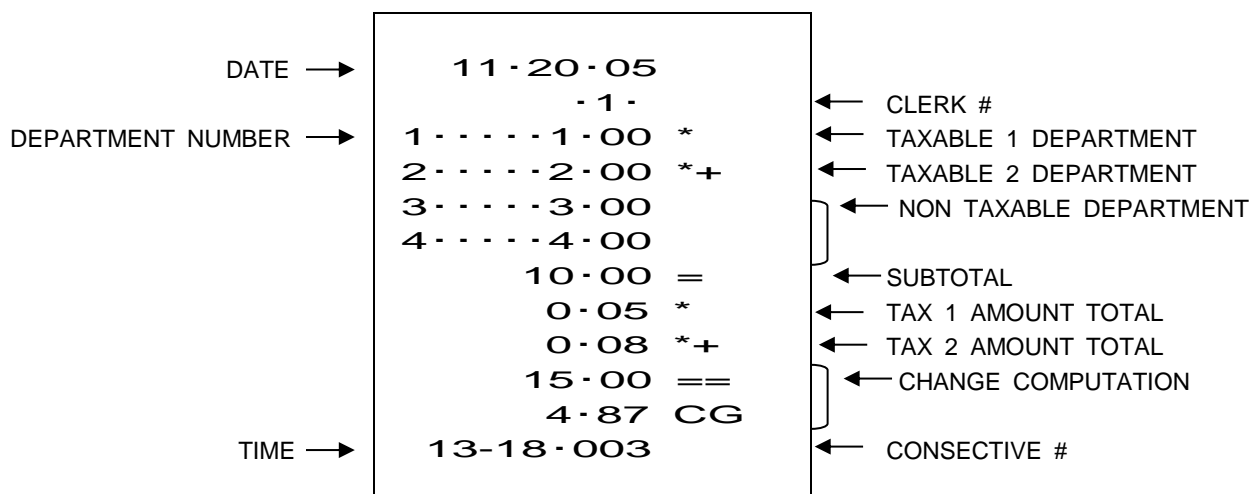
An error prompt is shown as the symbol '**E**' which will appear on the display accompanied by an error tone, which can be cleared by depressing the Clear key. An error prompt may indicate that an incorrect key sequence has been made, or a compulsory function has not been performed.

17-1) TIME DISPLAY

Note : The time can be displayed outside of a sale only.

[Qty/Time]

17-2) SAMPLE RECEIPT



17) OPERATING NOTES (Continued)

17-3) DEPARTMENT ENTRIES

Department entries can be made with a maximum of 7 digits.

Single Department Entry

enter amount () - [DEPARTMENT]

Repeat Department Entry

enter amount () - [DEPARTMENT]
[DEPARTMENT]

Multiple Department Entry

enter quantity () - [Qty/Time]
(0.001 - 99.999)

enter amount () - [DEPARTMENT]
{ TENDER }

11-20-05		
- 1 -		
1 - - - - 1 - 00	*	← SINGLE DEPARTMENT ENTRY
2 - - - - 2 - 00	*+	
2 - - - - 2 - 00	*+	← REPEAT DEPARTMENT ENTRY
2 -	X	
3 - 00	◇	← MULTIPLE DEPARTMENT ENTRY
3 - - - - 6 - 00	}	
0 - 05	*	
0 - 16	*+	
11 - 21	==	
13-18-004		

17) OPERATING NOTES (Continued)

(17-3-1)

Single Department Entry

enter amount () - [Dept shift] - [DEPARTMENT]

Repeat Department Entry

enter amount () - [Dept shift] - [DEPARTMENT]
[DEPARTMENT]

Multiple Department Entry

enter quantity () - [Qty/Time]
(0.001 - 99.999)

enter amount () - [Dept shift] - [DEPARTMENT]
{ TENDER }

11-20-05	
-1-	
9- - - -1-00 *	← SINGLE DEPARTMENT ENTRY
10- - - -2-00 *+	
10- - - -2-00 *+	← REPEAT DEPARTMENT ENTRY
2- X	
3-00 ◇	← MULTIPLE DEPARTMENT ENTRY
11- - - -6-00 }	
0-05 *	
0-16 *+	
11-21 ==	
13-18-004	

17) OPERATING NOTES (Continued)

17-4) PLU ENTRIES

enter PLU # () - [PLU]

Sub-department entry

enter PLU # () - [PLU]

enter price () - [PLU]

Sub-department preset price entry

enter PLU # () - [PLU]

[PLU]

Multiple PLU Entries

enter quantity () - [Qty/Time]
(0.001 - 99.999)

enter PLU # () - [PLU]

{ TENDER }

11-20-05	
-1-	
001---1-00 *	← SINGLE PLU ENTRY
002---2-00	← SUB-DEPARTMENT ENTRY
003---3-00	← SUB-DEPARTMENT PRESET
2- X	PRICE ENTRY
2-00 ◇	← MULTIPLE PLU ENTRY
004---4-00 }	
0-05 *	
10-05 ==	
13-18-006	

17) OPERATING NOTES (Continued)

17-5) MINUS (-) OPERATIONS

Ref/- key entries can be made with a maximum of 7 digits.

Single Ref/- key Entry

{ DEPARTMENT ENTRY }

{ DEPARTMENT ENTRY }

enter amount () - [Ref/-]

enter amount () - [Ref/-]

Multiple Ref/- Key Entry

{ DEPARTMENT ENTRY }

{ DEPARTMENT ENTRY }

enter amount () - [Qty/Time]
(0.001 - 99.999)

enter amount () - [Ref/-]

{ TENDER }

11-20-05		
- 1 -		
1- - - - -	1-00 *	
2- - - - -	2-00 *+	
	-0-10 -	← SINGLE (-) KEY ENTRY
	-0-20 -	← SINGLE (-) KEY ENTRY
3- - - - -	3-00	
4- - - - -	4-00	
	2- X	
	0-25 ◇	
	-0-50 -	← MULTIPLE (-) KEY ENTRY
	0-05 *	
	0-08 *+	
	9-33 ==	
13-18-007		

17) OPERATING NOTES (Continued)

17-6) -% KEY OPERATIONS

Sale Discount

{ DEPARTMENT ENTRY }

{ DEPARTMENT ENTRY }

[Subtotal]

[-%]

{ TENDER }

11	20	05		
-	1	-		
1	.....	1	00	*
2	.....	2	00	*+
		3	00	=
		10	00	%
		-0	30	-
		0	05	*
		0	07	*+
		2	82	==
13	19	008		

← PRESET PERCENT RATE

← DISCOUNT AMOUNT

Item Discount

{ DEPARTMENT ENTRY }

{ DEPARTMENT ENTRY }

Enter percent rate (0.01 - 99.99%) - [-%]

{ TENDER }

11	20	05		
-	1	-		
3	.....	3	00	
4	.....	4	00	
		5	00	%
		-0	20	-
		6	80	==
13	19	009		

← MANUAL PERCENT RATE

← DISCOUNT AMOUNT

17) OPERATING NOTES (Continued)

Item Discount

{ DEPARTMENT ENTRY }

{ DEPARTMENT ENTRY }

enter percent rate (0.01 - 99.99%) - [-%]

{ TENDER }

```
11-20-05
-1-
3-----3-00
4-----4-00
      5-00 %
     -0-20 -
      6-80 ==
13-19-009
```

← MANUAL PERCENT RATE
← DISCOUNT AMOUNT

17-7) VOID KEY OPERATIONS

The Void key is used for error correct operations inside of a sale.

{ DEPARTMENT ENTRY }

{ DEPARTMENT ENTRY }

[Void]

Void of Non-last item entry

{ DEPARTMENT ENTRY }

{ DEPARTMENT ENTRY }

[C]

[Void]

{ INCORRECT DEPT ENTRY }

{ TENDER }

```
11-20-05
-1-
1-----1-00 *
2-----2-00 *+
2-----2-00 Δ
3-----3-00
4-----4-00
3-----3-00 Δ
      0-10 *
      5-10 ==
13-19-010
```

← LAST ITEM VOID

← NON LAST ITEM VOID

17) OPERATING NOTES (Continued)

17-8) MERCHANDISE RETURN OPERATIONS

Merchandise Return of a Single Department Entry

[Ref/-]
enter amount () - [DEPARTMENT]
{ TENDER }

Merchandise Return of a Multiple Department Entry

[Ref/-]
enter quantity () - [Qty/Time]
(0.001 - 99.999)
enter amount () - [DEPARTMENT]
{ TENDER }

```
11-20-05
-1-
1-----1-00 *
-0-10 *
-1-10 ==
13-19-011
```

← SINGLE ITEM RETURNED

```
11-20-01
-1-
2- X
1-00 ◇
1-----2-00 *
-0-20 *
-2-20 ==
13-19-012
```

← MULTIPLE ITEMS RETURNED

17) OPERATING NOTES (Continued)

17-9) RECEIVED ON ACCOUNT OPERATIONS

enter amount received () - [Check/RA]

Example : (1000) - [Check/RA]

11 - 20 - 05
- 1 -
10 - 00 M+
13 - 19 - 013

17-10) PAID OUT OPERATIONS

enter amount paid () - [Charge/PO]

Example : (500) - [Charge/PO]

11 - 20 - 05
- 1 -
- 5 - 00 M-
13 - 19 - 014

17-11) #/NS PRINT OPERATIONS

The #/NS key is a non-add key which accepts up to a 7 digit numeric entry. An entry will not add to any activity or sales totals.

(Maximum 7 digits) - [#/ST/NS]

11 - 20 - 05
- 1 -
- - 1234567
1 - - - - 1 - 00 *
0 - 10 *
1 - 10 ==
13 - 19 - 015

← Non ADD#

17) OPERATING NOTES (Continued)

17-12) NO SALE OPERATIONS

A no sale operation will simply open the cash drawer.

[#/ST/NS]

11-20-05
- 1 -
13-19-016 M

17-13) TENDERING OPERATIONS - Cash Tender

{ DEPARTMENT ENTRY }

{ DEPARTMENT ENTRY }

[#/ST/NS] or [Amt Tend/TOTAL]

Enter amount tendered () - [Amt Tend/TOTAL]

11-20-05
- 1 -
1 1 . 00 *
2 2 . 00 *+
3 . 00 =
0 . 05 *
0 . 08 *+
5 . 00 ==
1 . 87 CG
13-19-017

← Change

17) OPERATING NOTES (Continued)

17-14) TENDERING OPERATIONS - Check Tender

{ DEPARTMENT ENTRY }

{ DEPARTMENT ENTRY }

[#/ST/NS] or [Check/RA]

enter amount tendered () - [Check/RA]

11-20-05
- 1 -
1- - - - - 1-00 *
2- - - - - 2-00 *+
3-00 =
0-05 *
0-08 *+
5-00 =X ← Change
1-87 CG
13-19-018

17-15) TENDERING OPERATIONS - Charge Tender

11-20-05
- 1 -
3- - - - - 3-00
4- - - - - 4-00
7-00 =C
13-19-019

{ DEPARTMENT ENTRY }

{ DEPARTMENT ENTRY }

[Charge/PO]

Split Tender

11-20-05
- 1 -
1- - - - - 5-00 *
2- - - - - 10-00 *+
15-00 =
0-25 *
0-40 *+
5-00 ==
10-65 =C
13-19-020

{ DEPARTMENT ENTRY }

{ DEPARTMENT ENTRY }

[#/ST/NS]

Enter amount
tendered () - [Amt Tend/TOTAL]

[Charge/PO]

17) OPERATING NOTES (Continued)

17-16) EURO CONVERSION OPERATION

- Subtotal value is shown on the display using the Euro Exchange Rate. The original value and the converted value are shown in turn each time when the key is depressed.
- When the base currency is set to LOCAL, the converted amount is in EURO and when the base currency is set to EURO, the converted amount is in LOCAL.

Base Currency : LOCAL

Subtotal Amount / Euro Exchange Rate = Conversion Amount

Base Currency : Euro

Subtotal Amount x Euro Exchange Rate = Conversion Amount

- When tendered immediately after the currency conversion is made (the converted total amount is shown on the display), the machine understands that the payment is made in the converted currency.
- When the conversion is made, the converted total and change are printed despite the setting of "Conversion Currency Print Always or not".

{ DEPARTMENT ENTRY }

{ DEPARTMENT ENTRY }

[Clerk]

Enter amount
tendered () - [TENDER]

17) OPERATING NOTES (Continued)

Example 1 : Direct Tender

Base Currency : LOCAL

Euro Exchange Rate : 1 Euro = 2.5 LOCAL (D.P.= 2)

< DISPLAY >	
(1000) — [1/9]	01 10.00
(2000) — [2/10]	02 20.00
[#/ST/NS]	S 32.50
[Clerk]	13.00 ← $32.50 \div 2.5 = 13.00$
[Clerk]	S 32.50 ← LOCAL TOTAL
[Clerk]	13.00 ← EURO TOTAL
*1 [Amt Tend/TOTAL]	= 13.00 ← EURO CASH AMOUNT

Note: In the above example, the tender operation is entered while the Euro total is on the display; so the cash amount is also shown in Euro. But Cash Sales Total and Cash in Drawer are always updated in Local.

11-20-05	
- 1 -	
1 - - - 10-00 *	
2 - - - 20-00 *+	
30-00 =	
0-50 *	
2-00 *+	
32-50 =◇	← LOCAL TOTAL
- - 13-00 =◇	← EURO TOTAL
- - 13-00 ==	← EURO CASH AMOUNT
13-19-021	

17) OPERATING NOTES (Continued)

Example 2 : Over Tender

Base Currency : LOCAL

Euro Exchange Rate : 1 Euro = 2.5 LOCAL (D.P.= 2)

< DISPLAY >

(1000) — [1/9]

01

10.00

(2000) — [2/10]

02

20.00

[#/ST/NS]

S

32.50

[Clerk]

13.00

← EURO TOTAL

(No Print)

*2 2000 [Check/RA]

C

17.50

Change amount to be converted to local currency
 $(20.00 - 13.00) \times 2.5 = \underline{17.50}$
 change

11-20-05	
- 1 -	
1 - - - 10-00	*
2 - - - 20-00	*+
30-00	=
0-50	*
2-00	*+
32-50	=◇
- - 13-00	=◇
- - 20-00	=X
17-50	CG
- - 7-00	CG
13-19-022	

← LOCAL TOTAL

← EURO TOTAL

← EURO CHECK AMOUNT

← LOCAL CHANGE

← EURO CHANGE

Note: In the above example, the tender operation is entered while the Euro total is on the display and the Check amount is also shown in Euro. But the Check Sales Total and Cash in Drawer are always updated in Local currency. Change calculation is done after the Euro amount is converted to Local.

17) OPERATING NOTES (Continued)

17-17) TAX SHIFT KEY OPERATIONS

This function is effective only in the USA TAX mode.

17-17-1) Registration

(TAX NUMBER 1,2,3,4) - [Tax shift] - { DEPT or PLU ENTRY }

In this operation, Tax in Department and PLU can be shifted.

Example : TAX 1 = 10%, TAX 2 = 20%, TAX 3 = 30%, TAX 4 = 40%

{ NON-TAXABLE DEPARTMENT ENTRY }
(1) - [Tax shift]
{ NON-TAXABLE DEPARTMENT ENTRY }
{ TAXABLE 1 DEPARTMENT ENTRY }
(1) - [Tax shift]
{ TAXABLE 1 DEPARTMENT ENTRY }
(1234) - [Tax shift]
{ TAXABLE 1 DEPARTMENT ENTRY }
[#/ST/NS]
{ TENDER }

11-20-05	
- 1 -	
5- - - - 5-00	← DEPARTMENT PROGRAMMED NON-TAXABLE
5- - - - 5-00 *	← SAME DEPARTMENT BECOMES TAXABLE 1 BY USING
6- - - - 6-00 *	TAX 1 SHIFT
6- - - - 6-00	← DEPARTMENT PROGRAMMED TAXABLE 1
6- - - - 6-00 *X	← SAME DEPARTMENT BECOMES NON-TAXABLE BY USING
28-00 =	TAX 1 SHIFT
1-10 *	← SAME DEPARTMENT BECOMES TAXABLE 2, 3 and 4
1-20 *+	BY USING TAX 1 2 3 4 SHIFT
1-80 *Δ	
2-40 *◇	
34-50 ==	
13-19-021	

Notes:

- 1) In the Canadian Tax Mode, the [Tax shift] key serves as a [Non Tax] key. All registrations become 'non-taxable' after pressing [Tax shift].
- 2) In the VAT Mode, the [Tax shift] key is invalid.

17) OPERATING NOTES (Continued)

17-17-2) Tendering

(TAX NUMBER 1,2,3,4) - [Tax shift] - { TENDER KEY }

In this operation, the designated tax is not calculated for the payment.

Example : TAX 1 = 10%, TAX 2 = 20%, TAX 3 = 30%, TAX 4 = 40%

{ TAXABLE 1 DEPARTMENT ENTRY }
{ TAXABLE 2 DEPARTMENT ENTRY }
{ TAXABLE 3 DEPARTMENT ENTRY }
{ TAXABLE 4 DEPARTMENT ENTRY }
(1) - [Tax shift]
{ TENDER }

11-20-05		
- 1 -		
1 - - - -	1 - 00	*
2 - - - -	2 - 00	*+
3 - - - -	3 - 00	*Δ
4 - - - -	4 - 00	*◇
	0 - 40	*+
	0 - 90	*Δ
	1 - 60	*◇
	12 - 90	==
13-19-022		

Notes:

- 1) In the Canadian Tax Mode, the [Tax shift] key serves as a [Non Tax] key. All registrations become 'non-taxable' after pressing [Tax shift].
- 2) In the VAT Mode, the [Tax shift] key is invalid.

17) OPERATING NOTES (Continued)

17-18) DOUBLE RECEIPT ISSUE

To re-print a receipt, press the [Amt Tend/TOTAL] key. The maximum amount of data accumulated in RAM is 60 lines. In the event that the data exceeds 60 lines, only the total amount will be printed.

{ TRANSACTION }

{ TENDER }

[Amt Tend/TOTAL] → Print Receipt

Example : REG-1 Mode :

(100) - [DEPT 1]

(1) - [PLU]

[Amt Tend/TOTAL]

[Amt Tend/TOTAL] → Re-print Receipt

Example : REG-2 Mode :

(100) - [DEPT 1]

(1) - [PLU]

[Amt Tend/TOTAL]

[Amt Tend/TOTAL] → Print First Receipt

18) MANAGEMENT REPORT NOTES

Reports can be taken with the Control Switch in the X or Z positions.

X Positions - Reads financial reports.

Z Positions - Reads financial reports and resets totals to zero.

The read-out for the financial report is the same whether taken in the X or Z positions. The only difference is that the totals are reset to zero after a Z position report.

18-1) FINANCIAL REPORT

(Z report security code) - [Amt Tend/TOTAL]
Max. 4 digits

Note: In the event that the security code "0000" is preset, enter the Amt Tend/TOTAL key only.

Example : Security code "0000"

[Amt Tend/TOTAL]

18) MANAGEMENT REPORT NOTES (Continued)

11-20-05		← DATE
002	CM	← Z COUNTER
005		← ACTIVITY COUNTER
1- - - -10-00	*	← DEPARTMENT SALES TOTAL
003		
2- - - -38-00		
001		
3- - - -2-35		
001		
4- - - -7-89		
:		
:		
001		
13- - - -5-20		
001		
14- - - -6-20		
004		
15- - -16-80		
002		
16- - -15-80		
0-44	*	← TAX 1 TOTAL
0-00	*+	← TAX 2 TOTAL
0-00	*Δ	← TAX 3 TOTAL
0-00	*◇	← TAX 4 TOTAL
-2-00	-	← MINUS (-) TOTAL
-1-20	%-	← -% TOTAL
99-48	G=	← NET SALES TOTAL
0-00	ΔΔ	← REFUND SALES TOTAL
0-00	Δ	← VOID SALES TOTAL
102-68	GG	← GROSS SALES TOTAL
003		← CASH SALES COUNTER
61-48	==	← CASH SALES TOTAL
004		← CHECK SALES COUNTER
6-00	=X	← CHECK SALES TOTAL
001		← CHARGE SALES COUNTER
32-00	=C	← CHARGE SALES TOTAL
001		← RECD ON ACCT COUNTER
5-00	M+	← RECD ON ACCT TOTAL
001		← PAID OUT COUNTER
-4-00	M-	← PAID OUT TOTAL
001	M	← NO SALE COUNTER
62-48	M=	← CASH-IN-DRAWER TOTAL
6-00	MX	← CHECK-IN DRAWER TOTAL
99-48		← GRAND TOTAL
13-19-026		

18) MANAGEMENT REPORT NOTES (Continued)

18-2) PLU REPORT

X Positions - Reads PLU reports.

Z Positions - Reads PLU reports and resets totals to zero.

Depress the PLU key.

[PLU]

	11-20-05	← DATE
	002 CM	
PLU NUMBER →	001 - - - - -	
	001	← SALES COUNTER
	1-00	← SALES TOTAL
	002 - - - - -	
	002	
	4-00	
	5-00 =	← ALL PLU SALES TOTAL
	13-19-026	

18-3) CLERK REPORT

X Positions - Reads CLERK reports.

Z Positions - Reads CLERK reports and resets totals to zero.

Depress the Clerk key.

[Clerk]

	11-20-05	← DATE
	003 CM	
CLERK NUMBER →	1 - - - - -001	← SALES COUNTER
	1-00	← SALES TOTAL
	2 - - - - -010	
	177-98	
	3 - - - - -000	
	0-00	
	4 - - - - -000	
	0-00	
	5 - - - - -000	
	0-00	
	6 - - - - -005	
	44-32	
	7 - - - - -014	
	253-22	
	8 - - - - -008	
	37-98	
	13-19-027	

19) BALANCING FORMULAS

SYSTEM BALANCE

(+) DEPARTMENT 1
(+) DEPARTMENT 2
(+) DEPARTMENT 3
(+) DEPARTMENT 4
:
:
(+) DEPARTMENT 13
(+) DEPARTMENT 14
(+) DEPARTMENT 15
(+) DEPARTMENT 16
(-) MINUS TOTAL
(-) -% TOTAL
(+) TAX TOTAL (USA TAX MODE, CANADIAN TAX MODE)
(=) NET SALES

(+) NET SALES
(+) MINUS TOTAL
(+) -% TOTAL
(+) RETURN TOTAL
(+) VOID TOTAL
(=) GROSS SALES

(+) NET SALES
(+) PREVIOUS GRAND TOTAL
(=) ENDING GRAND TOTAL

MEDIA BALANCE

(+) NET SALES
(-) CHECK
(-) CHARGE
(+) RECEIVED ON ACCOUNT
(-) PAID OUT
(-) PAYMENTS OUT
(=) CASH IN DRAWER

20) **INDICATOR**



21) **ERRORS**

Contents	:	Display

Operation error	:	E1
Digits over error	:	E2
0 price error	:	E3
Non clerk error	:	rE CL
Security code illegal	:	SEC CodE

**ROYAL 140DX Electronic Cash Register
ACCESSORIES ORDER FORM**

ITEM DESCRIPTION	PART NUMBER
Replacement Cash Drawer (4-slot bill tray) (Does not include removable coin tray)	S11303020LF
Replacement 4-Slot Coin Tray	S11302930LF
Coin Tray Slot Divider (Plastic Separator)	11302920LF
Duplicate Cash Drawer/Journal Lock Key Set (Key # 515) (set of 2 keys)	47300511
MS37902 Ink Roll	013109
Single Ply 57mm Receipt Paper	013129
Owner's Manual (Shipping & Handling is not required when ordering this item only)	140DXim0517A

Call toll-free at 1-888-261-4555 or visit our website at www.royal.com

ROYAL ELECTRONIC CASH REGISTER LIMITED WARRANTY

Royal Consumer Information Products, Inc. ("Royal") at 1160 U.S. Highway 22 East, Suite 301, Bridgewater, NJ 08807 USA warrants that your NEW Royal Electronic Cash Register ("Product") is free of defects of workmanship and materials. If there is a defect or malfunction of this Product, Royal will repair the Product free of charge as follows:

PARTS: New or comparable rebuilt parts in exchange for defective parts for ONE YEAR from the date of purchase.

LABOR: All labor charges incurred from a Royal Authorized Service Center or the Royal National Repair Center are covered for 90 DAYS from the date of purchase. After 90 days, there will be a labor charge for repair of the Product and/or assemblies such as the keyboard, display(s), logic board, power supply and printer(s) at the Royal National Repair Center's or the Royal Authorized Service Center's then prevailing rates. The Product must be brought to a Royal Authorized Service Center nearest to your location; or the Product must be shipped postage prepaid, insured and via a traceable shipping method to a Royal Authorized Service Center or to the Royal National Repair Center. Royal will pay return postage from the Royal National Repair Center during the labor warranty period only.

This warranty does not apply to persons who purchased this Product second hand or used.

This warranty does not include the replacement of ink rolls, ribbons, paper rolls or any other consumables or supplies used in the cash register and consumed through the normal use of the Product.

This warranty does not include cleaning, adjustments, parts, or repairs required by circumstances beyond the control of Royal, including, but not limited to, fire or other casualty, accident, neglect, abuse, abnormal use, misuse or battery leakage damages. THERE ARE NO OTHER EXPRESSED WARRANTIES EXCEPT AS STATED HEREIN. AFTER THE PERIOD OF EXPRESSED WARRANTY SET FORTH HEREIN, THERE ARE NO EXPRESSED OR IMPLIED WARRANTIES AND THOSE EXCLUDED INCLUDE THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Royal shall NOT be liable for CONSEQUENTIAL DAMAGES resulting from any failure, defect, or malfunction of this Product. Some states do not allow limitations on how long an implied warranty lasts and some states do not allow the exclusion of limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

TO OBTAIN SERVICE UNDER THE TERMS OF THIS WARRANTY:

- Pack your Product in the original carton or equivalent.
- Enclose a copy of the bill of sale or other documentation showing the original purchase date.
- Enclose a card or note describing the difficulty you have had with the Product.
- Bring or ship the above Product, prepaid and insured, via a traceable shipping method to the nearest Royal Authorized Service Center location or to the Royal National Repair Center. The Royal National Repair Center and/or the Royal Authorized Service Centers cannot be held responsible for any loss or damage that occurs while in transit.

For the Authorized Service Centers within your local area, please call 1-800-261-3888 or 1-800-272-6229. In Canada, Or you may call the Royal National Repair Center directly at 1-800-832-6522 for shipping instructions and additional information.

Please retain the original proof of purchase for your records to establish the date of the original purchase. Your warranty starts with the date of original purchase. This warranty gives you specific legal rights, and you may also have other rights which vary from State to State.

- This warranty is valid only on cash registers purchased, delivered and used in the United States and/or Canada.

140DX

Electronic Cash Register

ROYAL Consumer Information Products

Product Registration Information

140DX

Register Your Product online at:
www.royal.com

Date of Purchase: _____ Model: _____

Place of Purchase: _____

Lot / Serial Number: _____

Customer Support: 1-800-272-6229 (US & Canada)
(52) 559 138 3300 (Mexico)

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140DXim0517A

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