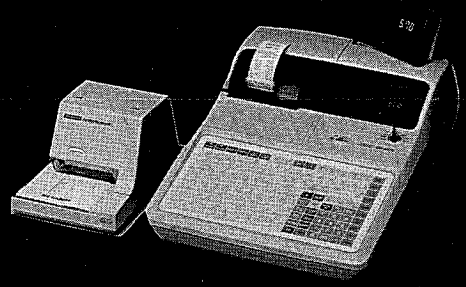
SHARP®

ELECTRONIC CASH REGISTER

MODEL ER-A570 ER-A610

OPERATOR PROGRAMMING REPORTS MANUAL



MID-RANGE SYSTEM SOLUTION

WARNING

FCC Regulations state that any unauthorized changes or modifications to this equipment not expressly approved by the manufacturer could void the user's authority to operate this equipment.

Note: 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.

CAUTION

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

FOR YOUR RECORDS

Please record below the model number and serial number, for easy reference, in case of loss or theft. These numbers are located on the right side of the unit. Space is provided for further pertinent data.

Model Number

_____

Serial Number

_____

Date of Purchase

_____

Place of Purchase

_____

MID-RANGE SYSTEM SOLUTION

INTRODUCTION

Thank you for purchasing the SHARP Electronic Cash Register, Model ER-A570/A610. Please read this Manual carefully before operating your machine in order to gain a full understanding of its functions and features.

Please keep this Manual for future reference. It will help you if you encounter any operational problems.

IMPORTANT

- Install your ER-A570/A610 in a location that is not subject to direct radiation, unusual temperature changes, high humidity or exposed to water sources.

Installation in such locations could cause damage to the cabinet and the electrical components.

- The register should not be operated by any individual with wet hands.

The water could seep into the interior of the ER-A570/A610 and cause component failure.

- When cleaning your register, use a dry, soft cloth. Never use solvents, such as benzine and/or thinner.

The use of such chemicals will lead to discoloration or deterioration of the cabinet.

- The ER-A570/A610 register plugs into any standard wall outlet (120 ±10% AC).

Other electrical devices on the same electrical circuit could cause the ER-A570/A610 to malfunction.

- If the register malfunctions, call your local dealer for service - do not try to repair the register yourself.
- For a complete electrical disconnection, pull out the main plug.
- The standard machine is not equipped with those functions that are marked with the asterisk (*) in this manual.

If you need the functions, consult your local dealer.

PRECAUTION

This Electronic Cash Register has a built-in memory protection circuit which is operated by rechargeable batteries.

As you know, all batteries will, in time, dissipate their charge even if not used. Therefore, to insure an adequate initial charge in the protection circuit, and to prevent any possible loss of memory upon installation, it is recommended that each unit be allowed to recharge for a period of 24 to 48 hours prior to use by the customer.

In order to charge the batteries, the machine must be plugged in. This recharging precaution can prevent unnecessary initial service calls.

The RBRC™ Seal

The RBRC™ Seal on the easily removable nickel-cadmium battery pack contained in our product indicates that SHARP is voluntarily participating in an industry program to collect and recycle these battery packs at the end of their useful life, when taken out of service within the United States. The RBRC™ program provides a convenient alternative to placing spent nickel-cadmium battery packs into the trash or municipal waste stream, which is illegal in some areas.

SHARP's payments to RBRC™ makes it easy for you to drop off the spent battery pack at local retailers of replacement nickel-cadmium batteries, or at authorized SHARP product service centers. You may also contact your local recycling center for information on where to return the spent battery pack. SHARP's involvement in this program is part of its commitment to protecting our environment and conserving natural resources.

(RBRC™ is a trademark of the Rechargeable Battery Recycling Corporation.)

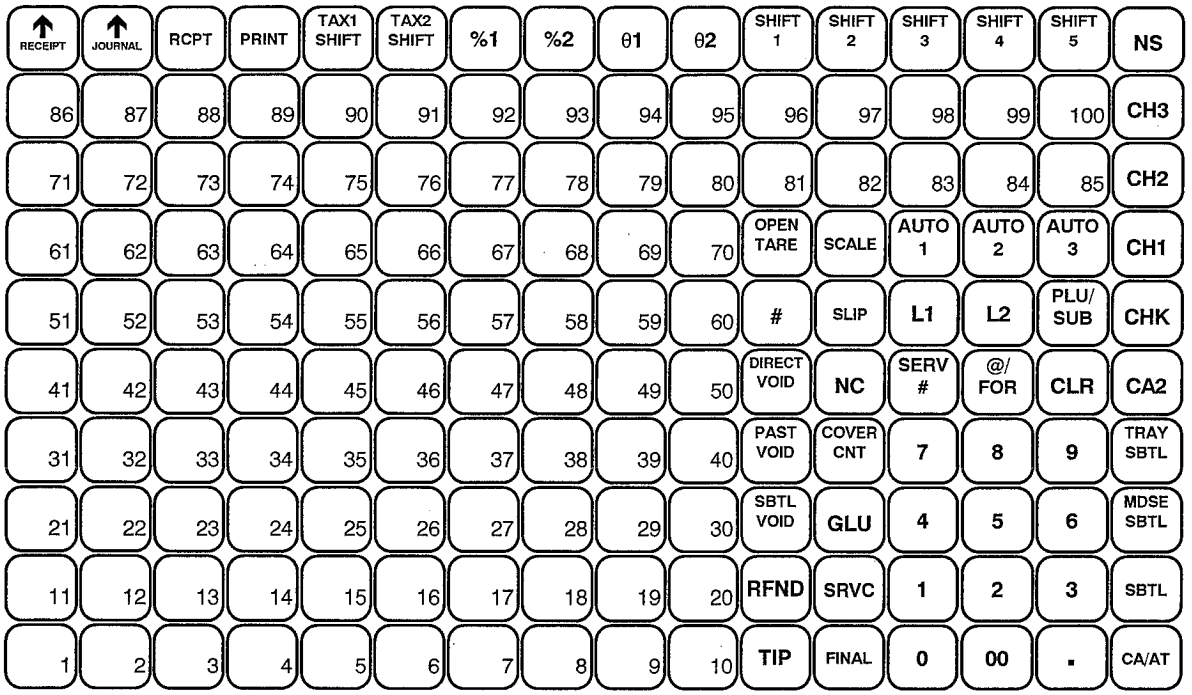
For Individual Household Batteries: 1-800-8-BATTERY

To sign up for the RBRC Retail Program or to order additional collection supplies:

1-800-984-0708

KEYBOARD LAYOUT
SWITCH AND KEY DESCRIPTIONS

◆ER-A570 STANDARD KEYBOARD LAYOUT



◆ER-A610 STANDARD KEYBOARD LAYOUT

RECEIPT	JOURNAL					SERV #	PRICE 1	PRICE 2	PRICE 3	PRICE 4	PRICE 5	PRICE 6	CUS-TOMER	DEL	NON-DELETE
				PLU/SUB			UPC		REPEAT	INQ	PRICE CHANGE		AMT	FS SHIFT	FS TEND
PRINT	#	SCAL E		TAX	TAX1 SHIFT	TAX2 SHIFT								CH4	CH5
RCPT	θ 1	θ 2		@/ FOR	•	CLEAR		5		10				CH2	CH3
CONV	% 1	% 2		7	8	9		4		9				CHK	CH1
NS	RA	PO		4	5	6		3		8				AUTO	MDSE SBTL
RFND	SBTL VOID			1	2	3		2		7				SBTL	
PAST VOID	DIRECT VOID			0		00		1		6				CA/AT	

NOTE: All keys but the receipt paper feed and journal paper feed keys on both the ER-A570 and ER-A610 can be re-positioned. If you want to reposition the layout, however, contact your Sharp authorized dealer.

PRIOR TO PROGRAMMING

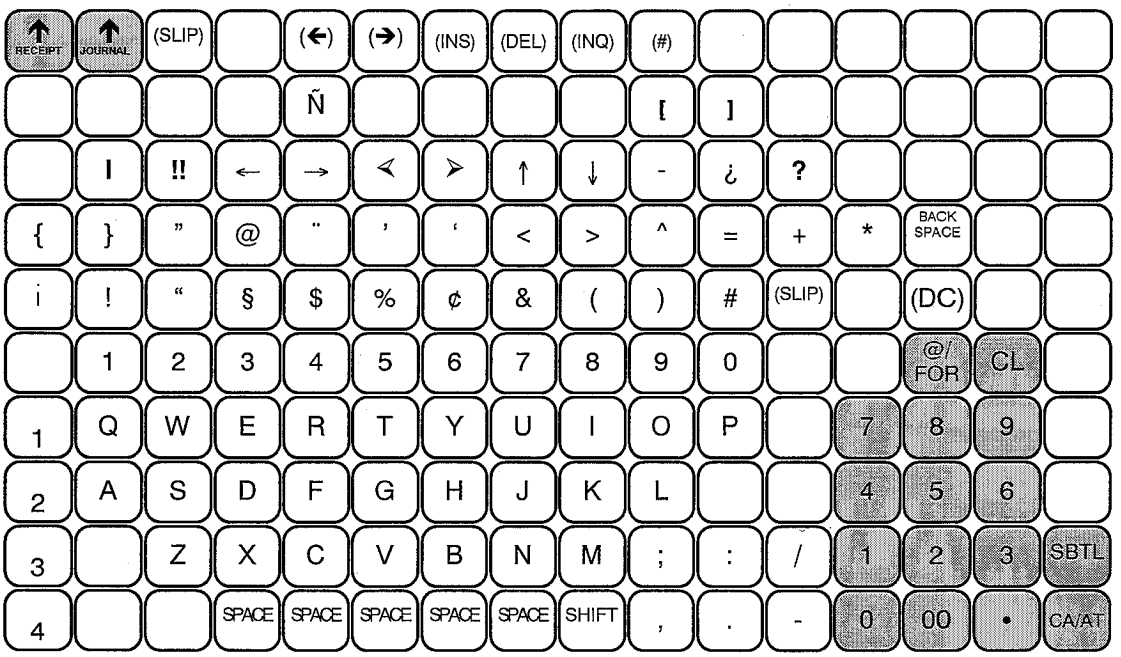
Use the accompanying programming sheet to key in numbers, letters and symbols. Using the assigned touch keys, it is easy to program alphabetical letters as well as symbols.
- Numerals, letters and symbols are programmable simply by pressing the keys.
- Double-size characters can be made by using the (DC) key.

Example: To program the word "SHARP" in double size, perform the following key sequence.

(DC) S (DC) H (DC) A (DC) R (DC) P

- All the keys required for programming are included in this layout, therefore, all programming can be accomplished using this key sheet.

Programming key sheet for the ER-A570



Note 1: The shaded keys cannot be used as a character key.
Note 2: If you enter a wrong character, you can delete it with the "BACK SPACE" key. The "BACK SPACE" key deletes the last character.
Note 3: If you press the 'SHIFT' key, the following characters are printed in small letters. If you press the 'SHIFT' key again, the following characters are printed in capital letters.

Programming key overlay for the ER-A610

↑ RECEIPT	↑ JOURNAL					A	B	C	D	E	F	G	H	I	J
				K			(#)		(DC)	(INQ)		L	M	0	1
(SHIFT)	#	SCAL E		N	O	P								2	3
(SPACE)	(DEL)	(BACK SPACE)		@/ FOR	.	CLEAR		Q		R				4	5
(INS)	/	&		7	8	9		S		T				6	7
%	-	$		4	5	6		U		V				8	9
:		.		1	2	3		W		X				SBTL	
(		)		0		00		Y		Z				CA/AT	

Note 1: The shaded keys cannot be used as a character key.
Note 2: If you enter a wrong character, you can delete it with the "BACK SPACE" key. The "BACK SPACE" key deletes the last character.
Note 3: If you press the 'SHIFT' key, the following characters are printed in small letters. If you press the 'SHIFT' key again, the following characters are printed in capital letters.

PROGRAMMING

Your ER-A570/A610 allows you to program in two modes: PGM1 and PGM2. The PGM1 mode is for programming those items that need to be changed often: unit prices of departments/PLUs, and percentages. The PGM2 mode is used for programming all PGM1 mode programs and those items that require less frequent changes: date, time, tax table, tax rate, and the functions of each key.

SOME RULES TO REMEMBER

1. When entering options it **is not** necessary to enter leading zeros.
2. When entering options it **is** necessary to enter trailing zeros.

PREPARATIONS FOR PROGRAMMING

1. Plug your ER-A650 into a standard wall outlet.
2. Put the manager or submanager key in the mode switch and turn it to the PGM1 or PGM2 position depending upon the programming you are about to do.
3. Make sure both journal and receipt paper rolls are present in the machine. If they are not, refer to "Installing and removing the paper roll".

1. Setting the date and time (PGM2 mode)

(1) Setting the date

Enter the month (one or two digits), day (two digits), and year (two digits) in this sequence.

Procedure

2610 → [.] → [@/FOR] → Date (five or six digits) → [CA/AT]

Example: August 9, 1995

Key operation	Print
2610 [•] [@/FOR]	#2610 * P G M 2 *
80995 [CA/AT]	08/09/95

(2) Setting the time

Set the time using military time (24-hour) system. For example, when the time is set to 2:30 AM enter 230; and when the time is set to 2:30 PM enter 1430. The time is printed and displayed on a real time system.

Procedure

2611 → [.] → [@/FOR] → Time (max. four digits) → [CA/AT]

To program 0:00 (12:00 AM)

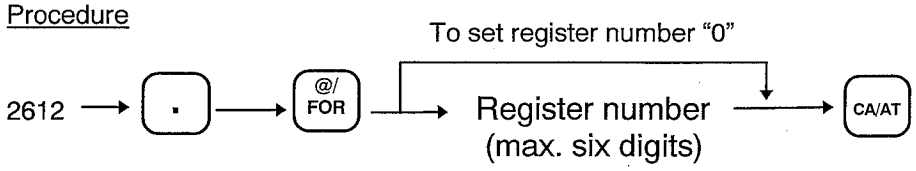
Example: Setting the time as 2:30 PM (14 :30)

Key operation	Print
2611 [•] [@/FOR]	#2611 * P G M 2 *
1430 [CA/AT]	2:30PM

2. Setting the register number (PGM2 mode)

When your store has two or more registers, it is practical to set separate register numbers for their identification. You may set them with a maximum of six digits.

Procedure



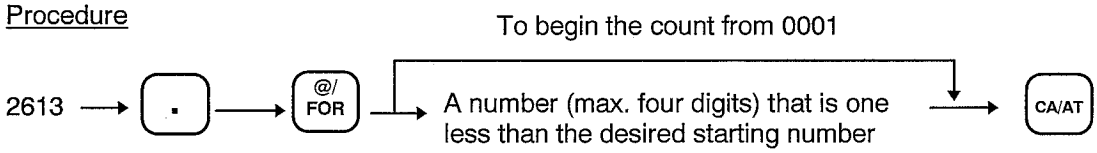
Example: Setting the register number as 1234.

Key operation	Print
2612 . @/FOR	#2612 * P G M 2 *
1234 CA/AT	1234

3. Setting the consecutive (transaction) number (PGM2 mode)

The consecutive number is increased by one each time an operation is completed. Enter a number (one to four digits) that is one less than the desired starting number.

Procedure



Example: Setting the desired start count number as "1001" (program number 1000).

Key operation	Print
2613 . @/FOR	#2613 * P G M 2 *
1000 CA/AT	1000

4. Programming for the automatic tax calculation function (PGM2 mode)

Your ER-A570/A610 has an automatic tax calculation feature which allows you to program different tax calculations to insure proper taxation of each transaction. Each tax calculation can be either a tax table or a straight tax rate.
Automatic tax calculations require you to program, in addition to the tax table and rate, the tax status of each department, PLU, and function key, which will be described later.

MID-RANGE SYSTEM SOLUTION

(1) Tax Table

Tax tables are used as opposed to straight percentage calculations when there are amounts where the result of applying the percentage calculation does not result in a tax amount which is required by local tax regulation. The information which must be supplied to the ECR for tax table calculations include the following:

R: The Rate (R) is entered as a six-digit number, 2-digit integer and 4-digit decimal (XX.XXX). example:
6% entered as 6
If the rate is fractional (i.e. 4-3/8%) then the fractional portion must be converted to its decimal equivalent (i.e. .375) and the resulting rate of 4.375 would be entered. Note: Decimal point is required during fractional entry.

Q: The smallest amount for which tax must be collected. In some states, there are amounts which are not subject to tax (e. g. if the amounts of $0.01 to $0.10 are not taxed, the value of Q - being the smallest taxable amount - would be $0.11).

T: The amount of tax which is associated with the amount Q.

M: The value is associated with the cyclical nature of the tax table. The table must therefore be used to obtain the data necessary.
The tax table must be examined in order to find repeating cycles in terms of the "breakpoint" differences as indicated in the tax table example. The "breakpoint" is that amount at which a tax amount increment takes place.
As you can see from the example table, the breakpoint differences indicate a pattern. M is determined by adding the breakpoint difference amounts associated with the first pattern cycle or by simply taking the difference between the first breakpoint of the cycle and the first breakpoint of the next cycle.

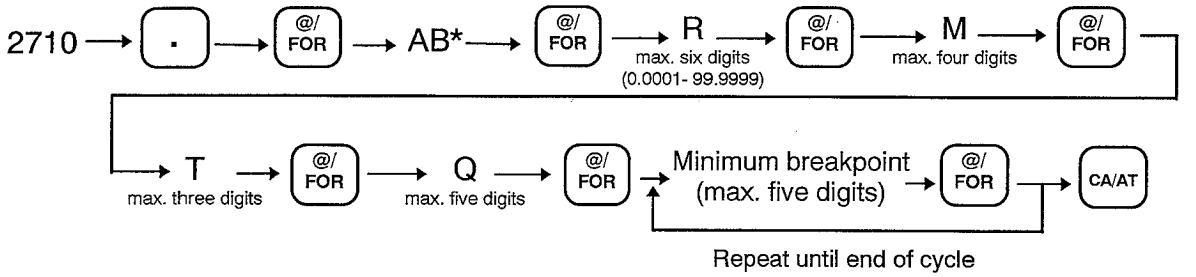
Example tax table for New Jersey : 6% rate

	A		B	C
Tax	Minimum breakpoint	Maximum breakpoint	Breakpoint difference (¢)	
.00	.01	.10	-	
.01 ←T	.11 ← Q	.22	10	Non-repeat
.02	.23	.38	12	
.03	.39	.56	16	
.04	.57	.72	18	
.05	.73	.88	16	Repeat (1)
.06	.89	1.10	16	
.07	1.11	1.22	22	
.08	1.23	1.38	12	
.09	1.39	1.56	16	
.10	1.57	1.72	18	
.11	1.73	1.88	16	Repeat (2)
.12	1.89	2.10	16	
.13	2.11	2.22	22	

From example:
M = 12 + 16 + 18 + 16 + 16 + 22 = 100

MID-RANGE SYSTEM SOLUTION

Procedure



* A Enter "1" when the difference between a minimum breakpoint to be entered and the preceding minimum breakpoint is more than 99¢. When the difference is 99¢ or less, enter "0" or nothing.

B Enter the tax table number 1, 2, 3, or 4.

Note 1: If you make an incorrect entry before entering the M in programming a tax table, cancel it with the CL key; and if you make an error after entering the M, cancel it with the SBTL key. Then program again from the beginning correctly.

Note 2: You must use the . key to enter the fractional part of the rate (R).

	Key operation
	2710 . @/FOR
	1 @/FOR
R →	6 @/FOR
M →	100 @/FOR
T →	1 @/FOR
Q →	11 @/FOR
The first repeat or cycle	23 @/FOR
	39 @/FOR
	57 @/FOR
	73 @/FOR
	89 @/FOR
	111 @/FOR
	CA/AT

Print

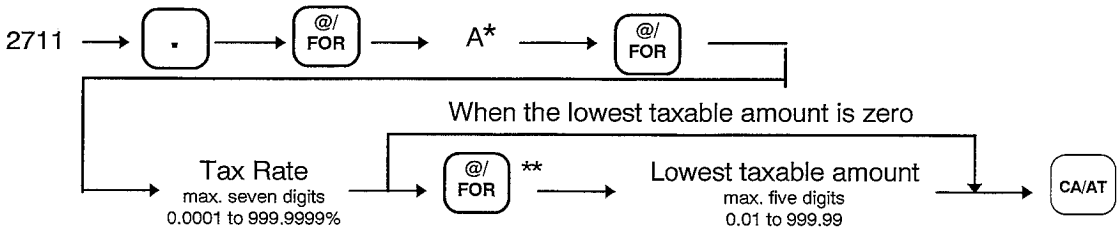
```
#2710 * P G M 2 *

TAX1              6.0000%
                  /  1.00
                1    0.11
                2    0.23
                3    0.39
                4    0.57
                5    0.73
                6    0.89
                7    1.11
```

- **Limitations to the entry of minimum breakpoints**

The ER-A570/A610 can support a tax table consisting of up to 72 breakpoints (Note: The number of breakpoints is a maximum of 36 when the breakpoint difference is $1.00 or more). If the number of breakpoints exceeds 72, then the manual tax entry approach should be used.

(2) The tax rate

Procedure



A*: Enter the tax rate number 1, 2, 3 or 4.
** Note: Depression of the subtotal key at this point will delete the tax rate or table programmed.

Example: Programming tax rate #2 for 4% exempt up to 12¢.

Key operation	
2711	. @/FOR
2	@/FOR
4	@/FOR
12	CA/AT

Print

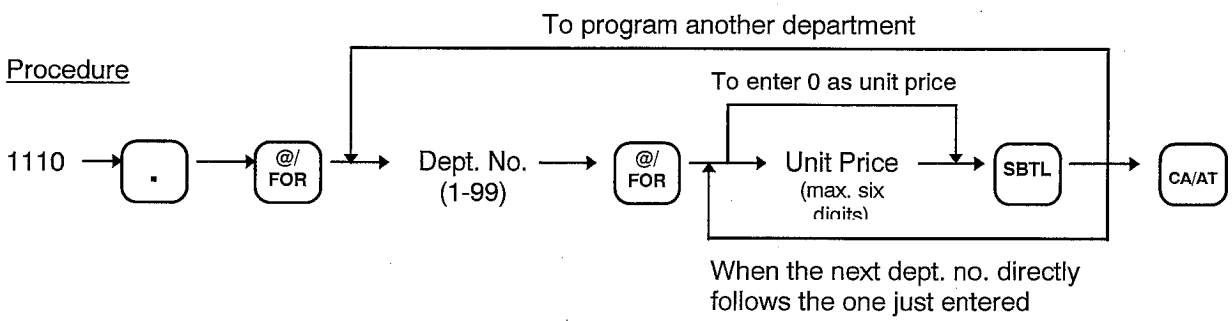
```
#2711 * P G M 2 *

TAX2              4.0000%
                      0.12
```

5. Department Programming

The ER-A570/A610 comes standard with 10 departments expandable to 99. Departments are used for sales entry as either an open amount entry or preset entry. Each department provides totalizers for quantity sold and dollar amount entered. Also provided is a grouping function for consolidated reports of multiple departments.

(1) Programming of Unit Price (PGM 1 or PGM 2 mode)

Procedure



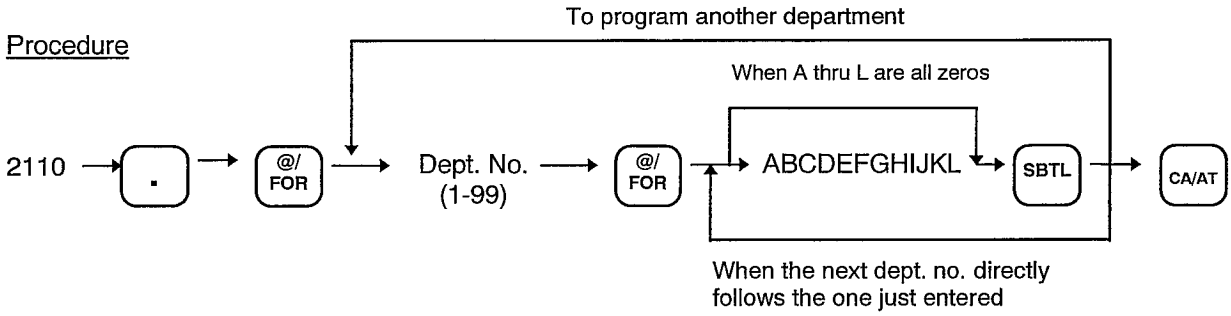
Example: Programming $10.00 for department 1 and $5.00 for department 2

Key operation	Print
1110 [•] [@/FOR] 1 [@/FOR] 1000 [SBTL] 500 [SBTL] [CA/AT]	#1110 * P G M 2 * D 01 10.00 DPT.0 1 000000000003KP0000 00 S0G00 L17/10 D 02 5.00 DPT.0 2 000000000003KP0000 00 S0G00 L17/10

(2) Functional Programming 1 (PGM 2 mode)

1) Item discount/item % entry prohibited/allowed
   - To prohibit an item dollar discount/item % entry for a particular department.
2) Compulsory Item validation
   - If a particular department entry requires validation program that particular department for compulsory item validation.
3) Tare table number
   - A tare table number can be assigned to each department for scale entries.
4) Scale entry compulsory/allowed/prohibited
   - Each department can be programmed for scale entry allowed or compulsory for usage with manual or automatic scale entries
5) SICS (Single Item Cash Sale)/SIF (Single Item Finalization)/Normal
   - If the department is set for SICS and the first item registered, the department is registered and the sale is finalized in one process. If the department is set for SICS and is preceded by another item registration, the sale is not finalized upon department registration.
   - If the department is set for SIF, the sale is finalized upon registration of that particular department no matter when the department is rung within the sale.
6) Bottle Return/HASH/Normal
   - A Bottle Return department is used to distinguish accumulated sale programmed as BR.
   - A HASH department is used to enter the amount "non-sale" registrations i.e. utility bills or lottery tickets. Amounts entered in this department are not added to the grand totals. The totalizers for HASH departments are not added to NET1 or NET2 but is added to NET3.
     Note: If your register is set for Bottle Return disable or HASH department disable by your dealer, you cannot program those operations. For more details consult your dealer.
7) Type of unit price entry
   - Selection of one of the following four types of price entry for each department must be made.
     Open and Preset Entry
     Preset Entry only
     Open Entry only
     Inhibit Department Entry

Procedure



A:	Item -1	Disable/Enable	1/0
B:	Item -2	Disable/Enable	1/0
C:	Item -3	Disable/Enable	1/0
D:	Item -4	Disable/Enable	1/0
E:	Item (-)/%	Disable/Enable	1/0
F:	(not used)		
G:	Item Validation	Compulsory/non-compulsory	1/0
H:	Tare Table Number		0/1 - 9
I:	Scale Entry	Compulsory/Enable/Inhibit	2/1/0
J:	SIF/SICS/Normal		2/1/0
K:	Bottle Return/HASH/Normal		2/1/0
L:	Amount Entry Type		
		Open & Preset/Preset/Open/Inhibit	3/2/1/0

Example: Programming for Department 3

Enter A=0, B=0, C=0, D=0, E=1, F=0, G=0, H=0, I=0, J=0, K=0, and L=3

Key operation

2110 [•] [@/FOR]

3 [@/FOR] 10000003 [SBTL]

[CA/AT]

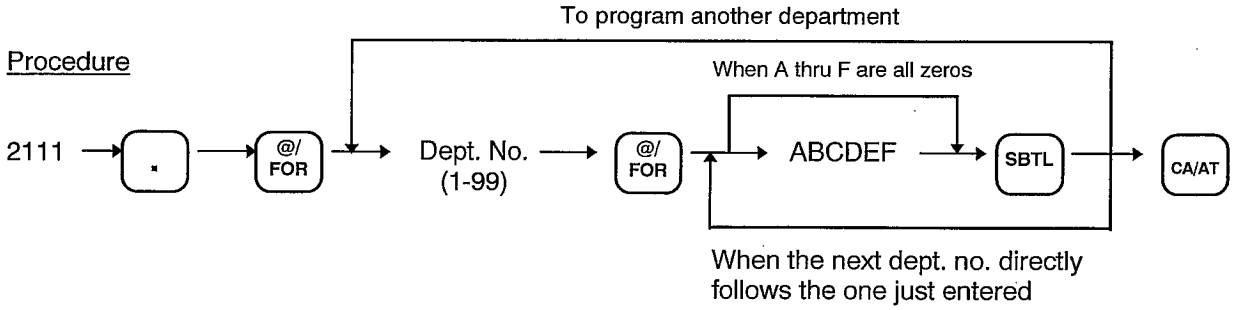
Print

```
#2110 * P G M 2 *

D 03                0.00
DPT.0 3
000010000003KP0000  00
S0G00             L17/10
```

(3) Functional Programming 2 (PGM2 mode)

1) Sign (plus/minus)
   - Each department can be given a sign status. PLUs for normal sale entries or minus for those departments in which payments for items such as bottle return or other minus transactions are to be entered.
2) Food stamp status
   - Assign a food stamp status, eligible or ineligible, to each department.
3) Tax status
   - Assign a tax status to each department, taxable 1/taxable 2/taxable 3/ taxable 4/ or non-taxable.
   - When entries are made into taxable departments in a transaction, tax is automatically computed according to the associated tax table or rate.
     Note: Tax 4 is prohibited if the food stamp function is enabled.

MID-RANGE SYSTEM SOLUTION



A:	Sign	Minus /Plus	1/0
B:	Food Stamp Status	Eligible/Ineligible	1/0
C:	Tax 4 Status	Enable/Disable	1/0
D:	Tax 3 Status	Enable/Disable	1/0
E:	Tax 2 Status	Enable/Disable	1/0
F:	Tax 1 Status	Enable/Disable	1/0

Note: Tax 4 is prohibited if the food stamp function is enabled

Example: Programming for departments 1, 5, and 6

Enter A=0, B=0, C=0, D=0, E=0, F=1 for department 1
Enter A=0, B=1, C=0, D=0, E=0, F=0 for department 5
Enter A=1, B=0, C=0, D=0, E=0, F=0 for department 6

Key operation

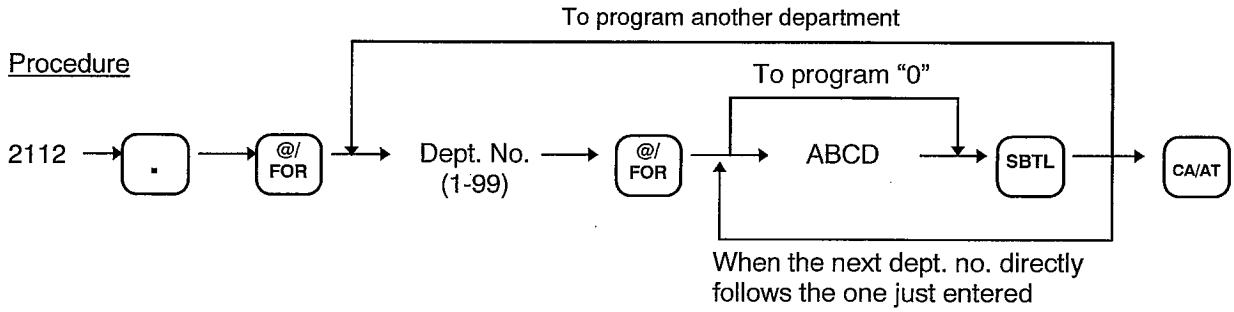
2111 • @/FOR
1 @/FOR 1 SBTL
5 @/FOR 10000 SBTL
100000 SBTL
CA/AT

Print

```
#2111 * P G M 2 *

D 01    T1          0.00
DPT.0 1
000000000001KP0000  00
S0G00             L17/10
D 09  F             0.00
DPT.0 5
000000000001KP0000  00
S0G00             L17/10
D 10                0.00
DPT.0 6
000000000003KP0000  00
S0G00             L17/10
```

(4) A limit amount of entry HALO/LALO (PGM2 mode)

One can set an upper and a lower amount entry limit for each department (HALO: High Amount Lockout; LALO: Low Amount Lockout). The limit restrictions apply for REG-mode operations and can be overridden in MGR mode.



AB: HALO
AB is the same as A x 10^B
A: Mantissa (first digit of amount limit) 0 thru 9
B: Exponent (number of zeros in amount limit) 0 thru 7

Note: Presetting 14 ($100.00) means that amount entries up to $100.00 are allowed in REG mode, but when you preset 17, the upper limit amount is $99999.99.

CD: LALO
CD is the same as C x 10^D
C: Mantissa (first digit of amount limit) 0 thru 9
D: Exponent (number of zeros in amount limit) 0 thru 7

Example: Programming a HALO of $100.00 (1 x 10^4) and a LALO of $0.01 (1 x 10^0) for department 1.

Key operation

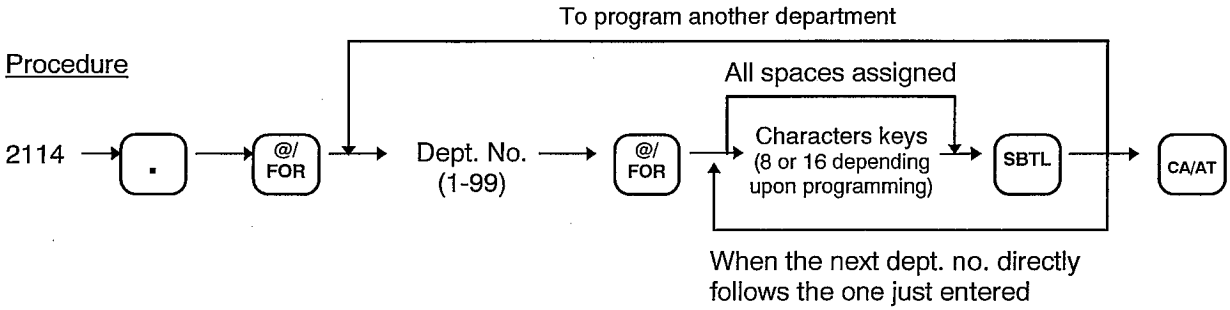
2112 . @/FOR
1 @/FOR 1410 SBTL
CA/AT

Print

```
#2112 * P G M 2 *

D .01              10.00
DPT.0 1
000000000001KP0000   00
SOGOO             L14/10
```

(5) Department Text Programming

A maximum of 16 characters can be programmed as the department descriptor. However, the default setting is for an 8 character descriptor. For more details consult your dealer. Select the characters you wish to program referring to the "Programming key sheets" on pages 7 and 8.



Example: Programming the description STEAK for Department 1 with the "S" being double size.

Key operation

2114 • @/FOR
1 @/FOR
(DC) STEAK SBTL
CA/AT

Print

```
#2114 * P G M 2 *

D .01              10.00
S T E A K
000000000001KP0000   00
S0G00             L14/10
```

Note: Your machine also allows you to program by character code. Each character is represented by a three digit number as shown in the character code table on the next page. Follow the above procedure however, enter the following sequence instead of depressing the character keys.

Character Code (3 digits) → 00 key

Example: To program the word "SHARP" with the letter "S" being double size.

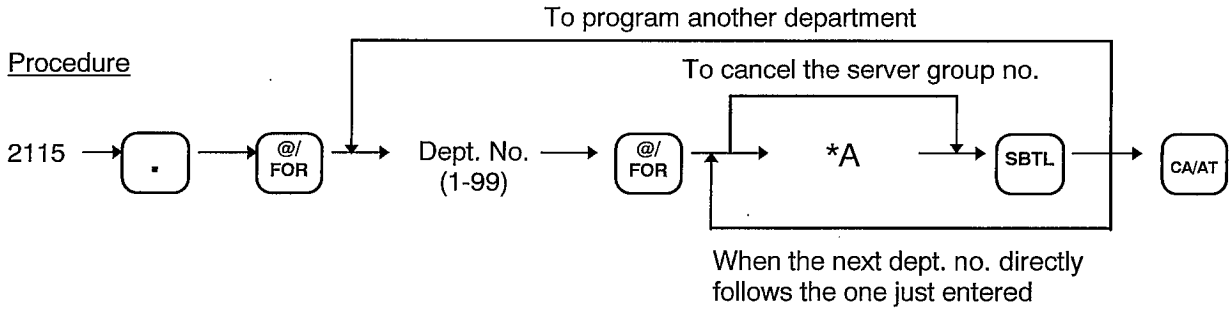
(DC) → 253 00 (Double size character code)
S → 083 00
H → 072 00
A → 065 00
R → 082 00
P → 080 00

Character	Code	Character	Code	Character	Code	Character	Code	Character	Code	Character	Code
Space	032	4	052	H	072	Ö	092	p	112	4	132
!	033	5	053	I	073	Ü	093	q	113	½	133
"	034	6	054	J	074	^	094	r	114	F_T	134
#	035	7	055	K	075	_	095	s	115	←	135
$	036	8	056	L	076	‘	096	t	116	→	136
%	037	9	057	M	077	a	097	u	117	∞	137
&	038	:	058	N	078	b	098	v	118	∞	138
’	039	;	059	O	079	c	099	w	119	⋖	139
(	040	<	060	P	080	d	100	x	120	⋗	140
)	041	=	061	Q	081	e	101	y	121	F	141
*	042	>	062	R	082	f	102	z	122	T	142
+	043	?	063	S	083	g	103	{	123	*(DC)	253
(Comma) ,	044	@	064	T	084	h	104	|	124		
-	045	A	065	U	085	i	105	}	125		
(Period) .	046	B	066	V	086	j	106	ß	126		
/	047	C	067	W	087	k	107	¢	127		
0	048	D	068	X	088	l	108	!!	128		
1	049	E	069	Y	089	m	109	1	129		
2	050	F	070	Z	090	n	110	2	130		
3	051	G	071	Ä	091	o	111	3	131		

* (DC) : Double-size character code

(6) Department linking to server groups (PGM2 mode)

This programming allows you to classify every department into any one of the server department groups ranging from 1 to 9. The sales total of each server department group is printed on the server reports. See report examples.



*A: Server group number (0 - 9)

Example: Programming Departments 1 and 2 to Server group No. 1.

Key operation

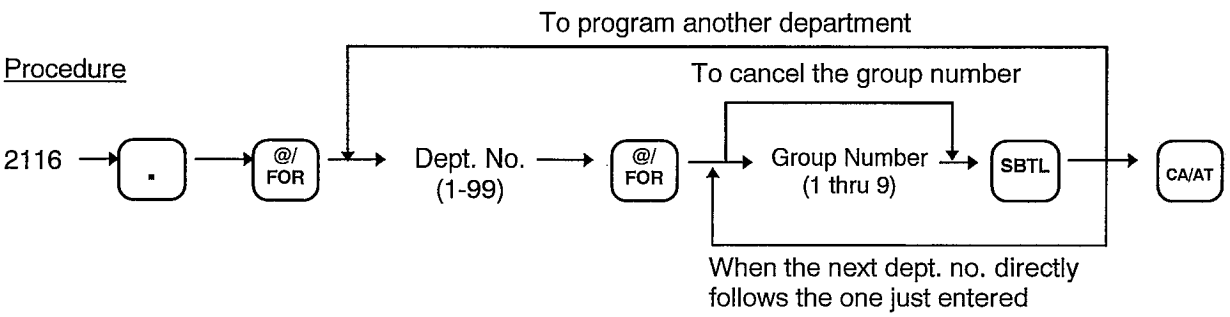
2115 . @/FOR
1 @/FOR 1 SBTL
1 SBTL
CA/AT

Print

```
#2115 * P G M 2 *

D 01                10.00
S T E A K
000000000001KP0000  00
S1G00             L14/10
D 02                 5.00
DPT.0 2
000000000003KP0000  00
S1G00             L17/10
```

(7) Group number (PGM2 mode)

Departments can be linked to groups (1 thru 9) for a more general report. Example of STEAK and CHICKEN departments linked to the ENTREE group. See report examples.



Example: Programming Departments 2 and 3 to Group number 5

Key operation

2116 • @/FOR
2 @/FOR 5 SBTL
5 SBTL
CA/AT

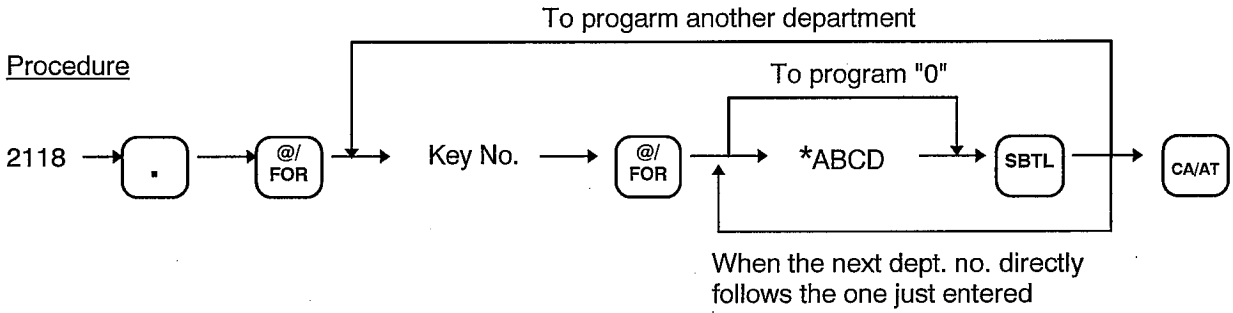
Print

```
#2116 * P G M 2 *

D 02                5.00
DPT.0 2
000000000003KP0000  00
S1G05             L17/10
D 03                0.00
DPT.0 3
000010000003KP0000  00
S0G05             L17/10
```

(8) Department Print station programming (PGM2 mode)

A print station can be assigned to each department. This means that each department is able to be routed to different preparation stations. Remote printers 1 to 9 and terminal receipt printer are selectable options. Finalizing the transaction via "SRVC", "FINAL", or payment key reorganizes and routes the transaction by remote printer. Partial orders can also be sent to the remote printer via the "RP SEND" key during a transaction. Partial orders print the message "PRT ORDER" on the remote printer printout.

Procedure



A:	Assigning dept. as RP modifier *	Enable/Disable	1/0
B:	In-line remote printer #1	(1 to 9) (0 is no output)	
C:	In-line remote printer #2	(1 to 9) (0 is no output)	
D:	Printing on terminal receipt printer (chit receipt)	Enable/Disable	1/0

* The RP modifier function is used to route items (usually condiments) to the kitchen printer of the previously rung item. Example: one key for Thousand Island dressing on the keyboard designated as an RP modifier, Burger outputting to KP#1, and Tossed Salad outputting to KP#2. When a Burger is rung with Thousand Island and then a Tossed Salad also with Thousand Island; KP#1 will receive Burger and Thousand Island and KP#2 will receive Tossed Salad and Thousand Island.

Example: To program dept. 10 to print on remote printer #1 and no chit receipt.

Key operation

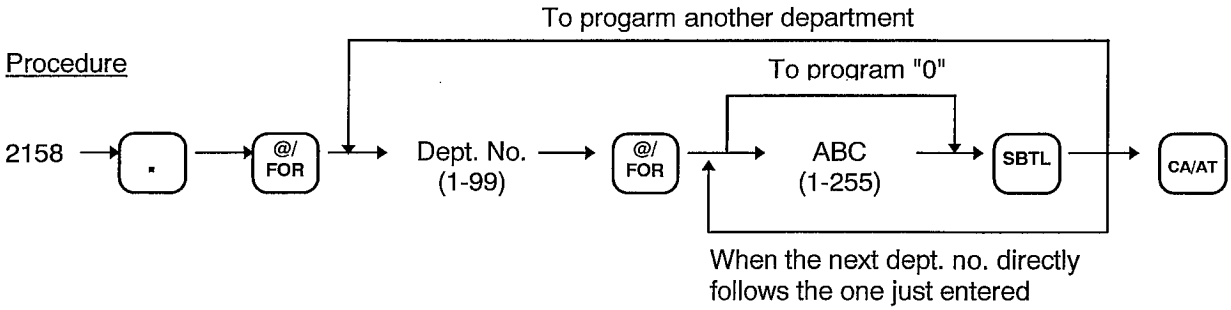
2118 • @/FOR
10 @/FOR 100 SBTL
CA/AT

Print

```
#2118 * P G M 2 *

D 10                0.00
DPT.1 0
000000000001KP0100  00
S0G00             L17/10
```

(9) IRC control character programming (PGM2 mode)

This number is converted to a two-digit character code that is transmitted for use by an IRC (Inter-Register Communication) device such as a color monitor system. For more information please consult your dealer.



Example: To program Dept. 10 to IRC control code of 100 (which converts to 64 HEX).

Key operation

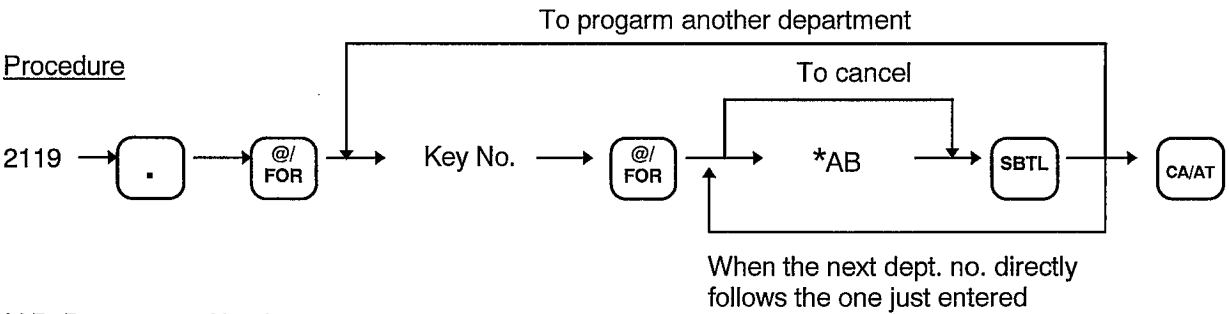
2158 . @/FOR
10 @/FOR 100 SBTL
CA/AT

Print

```
#2158 * P G M 2 *

D 10                0.00
DPT.1 0
000000000001KP0000   64
S0G00              L17/10
```

(10) Department key positioning

You can assign a department number to a specific key location on the physical keyboard. Consult your dealer for more information.



*AB: Department Number

Example:

Key No.	Dept. No.
101	1
102	2

Key operation

2119 . @/FOR
101 @/FOR 1 SBTL
2 SBTL
CA/AT

Print

```
#2119 * P G M 2 *

1 0 1   L1      D 0 1
1 0 2   L1      D 0 2
```

(11) Lead Through Department Programming

In accordance with the guide message in the display, you can program the characteristic of each department via one programming job.

Step No.	Guide Message	Operation	Note
1		2100 → [•] → [@/FOR]	
2	ENTER DEPT#	(Dept. no.) → [@/FOR]	(1 - 99 max.)
3	PRICE	(Unit price) → [SBTL] max. 6 digits	Job# 1110
4	PROGRAMMING	(ABCDEFGHIJKL) → [SBTL] A: Item θ1 Disable/enable (1/0) B: Item θ2 Disable/enable (1/0) C: Item θ3 Disable/enable (1/0) D: Item θ4 Disable/enable (1/0) E: Item θ/% Disable/enable (1/0) F: Always enter 0 G: Item Validation Compulsory/non-compulsory (1/0) H: Tare Table Number (1 - 9, 0 = no tare table) I: Scale Entry Compulsory/Allowed/Inhibit (2/1/0) J: SICS/SIF/Normal (2/1/0) K: Bottle Return/HASH/Normal (2/1/0) L: Amount Entry Type Open & Preset/Preset/Open/Inhibit (2/1/0)	Job# 2110
5	SIGN AND TAX	(ABCDEF) → [SBTL] A: Sign (-)/(+) (1/0) B: Food Stamp Status eligible/ineligible (1/0) C: Tax 4 status Enable/Disable (1/0) D: Tax 3 status Enable/Disable (1/0) E: Tax 2 status Enable/Disable (1/0) F: Tax 1 status Enable/Disable (1/0)	Job# 2111
6	HALO & LALO	(ABCD) → [SBTL] AB: HALO $A \times 10^{B}$ (A: 0 - 9; B: 0 - 7) CD: HALO $C \times 10^{D}$ (C: 0 - 9; D: 0 - 7)	Job# 2112
7	TEXT	(Character Keys) → [SBTL] 8 or 16 characters depending upon programming	Job# 2114
8	SERVER GROUP	(A) → [SBTL] A: 1 to 9 (0 to cancel server group number)	Job# 2115
9	GROUP	(A) → [SBTL] A: 1 to 9 (0 to cancel group number)	Job# 2116
10	PRINT STATION	(ABCD) → [SBTL] A: Follow the last entered Dept. Yes/No (1/0) B: RP1 number (1 to 9, 0: no output) C: RP2 number (1 to 9, 0: no output)	Job# 2118

		D: Chit Receipt Enable/Disable (1/0)	
11	CONTROL CHARACTER	(0 to 255) → [SBTL]	Job# 2158
12	PRICE	At this point you have three choices 1. Return to step no. 3 to program for the next dept. no. 2. Enter another dept. no. and depress [@/FOR] key. (Same as step no. 2) 3. Depress the [CA/AT] key to finalize the programming. → [CA/AT]	

Note: Depress [@/FOR] to skip to the next step and keep the existing value, instead of [SBTL]

Depress [CL] to back up to the last step and keep the existing value. You can program the guide messages via Job# 2644.

6. PLU (Price Look Up) Programming

The ER-A570/A610 comes standard with 200 single price level PLUs expandable to 20,000 with six digit free code numbering, meaning one has the ability to program 200 PLUs ranging in numbers from 1 to 999,999. PLU entry has multiple functions:

- 6 digit free code entry
- Stock counter tracking *
- Subdepartment ability
- Coupon like PLUs
- Linking Plus
- Promotional PLUs
- 5 Price level shifts *
- 2 Menu level shifts

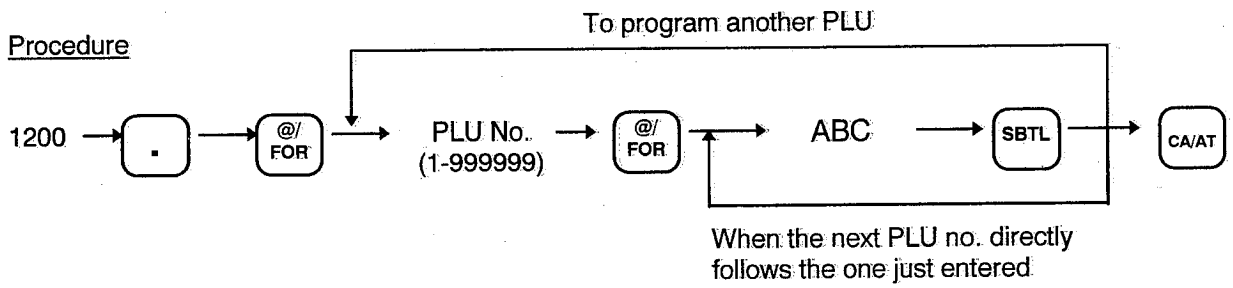
* See your dealer for more details and programming.

There are two kinds of PLU registration methods: Direct which is accomplished by depressing the item key directly and indirect which is accomplished by entering a PLU number and depressing the "PLU/SUB" key. Each PLU requires association to a department. A PLU entry not only affects the PLU totalizers but also the department it belongs to.
The PLU entry function is intended for speedy entry operation. A subdepartment is a kind of "open PLU", which requires entry of a price. PLU reports can be used for item stocking and other management aids.

Each PLU requires the following programming:

(1) PLU/subdepartment mode and department assignment (PGM1 or PGM2 mode)

1. If the DELETE mode is selected, data programmed for that PLU is deleted.
2. If the OPEN & PRESET (PLU/Subdepartment) mode is selected follow description 3 & 4.
3. If the PRESET (PLU) mode is selected, the selection of the PLU automatically rings a preset amount entry.
4. If the OPEN (Subdepartment) mode is selected, the selection of the PLU/Subdepartment is followed by the unit price entry and the depression of the PLU/Subdepartment again.
5. If the INHIBIT mode is selected, the assigned PLU/Subdepartment cannot be entered. This mode does not clear programming data.



AB: Associate Department number
C: Amount Entry type
DELETE/OPEN & PRESET/PRESET/OPEN/INHIBIT (4/3/2/1/0)

Example: Programming as PLUs nos. 1 and 2 associated to department 2.

Key operation

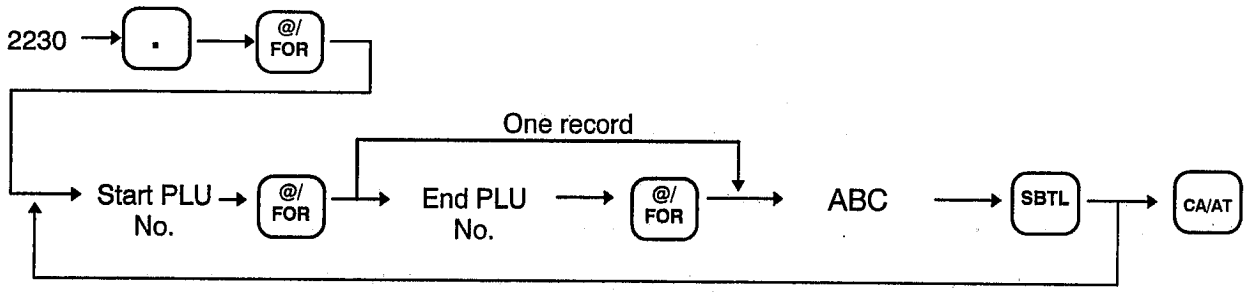
1200 • @/FOR
1 @/FOR 22 SBTL
22 SBTL
CA/AT

Print

```
#1200 * P G M 2 *

P 000001( 0 2 )     /00
                  0.00
PL000001
G00 00 00
00000000002 KP0000  00
P 000002( 0 2 )     /00
                  0.00
PL000002
G00 00 00
00000000002 KP0000  00
```

PLUs can also be programmed by a range of PLU numbers (PGM2 mode).

Procedure



AB: Associate Department number
C: Amount Entry type
DELETE/OPEN & PRESET/PRESET/OPEN/INHIBIT (4/3/2/1/0)

Example: Programming of PLUs 1 thru 6 for PRESET (PLU) mode and associated to department 3.

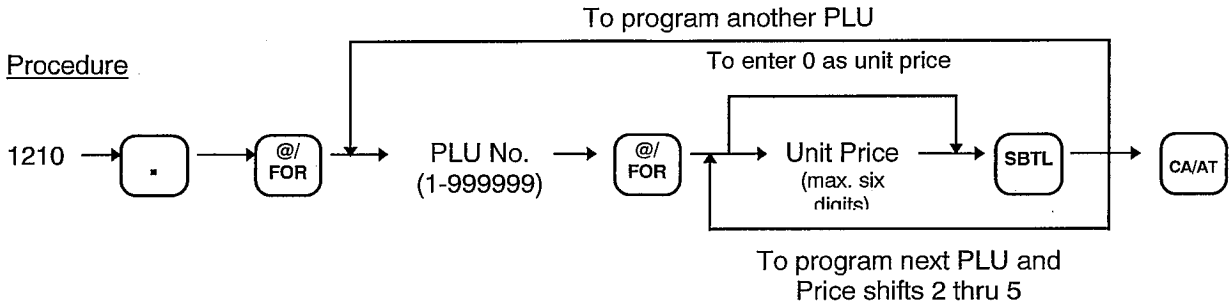
Key operation

2230 • @/FOR
1 @/FOR 6 @/FOR
32 SBTL
CA/AT

Print

```
#2230 * P G M 2 *

P 000001      -P 000006
        ( 0 3 )
          2
```

(2) Programming of Unit Price (PGM 1 or PGM 2 mode)



Note 1: When the PLU is programmed as OPEN (subdepartment) the unit price becomes the HALO for entries.
Note 2: Price entries for Price shift 2 thru 5 are allowed only when the multi-price shift PLU file has been created. See your dealer for more information.
Note 3: The PLU must have already been defined in Job# 1200.

Example: Programming PLU# 1 for $1.25 and PLU# 2 for $1.50.

Key operation

1210 • @/FOR
1 @/FOR 125 SBTL
150 SBTL
CA/AT

Print

```
#1210 * P G M 2 *

P 000001( 0 2 )     /00
                   1.25
PL000001
G00 00 00
00000000002 KP0000  00
P 000002( 0 2 )     /00
                   1.50
PL000002
G00 00 00
00000000002 KP0000  00
```

Example: Programming PLU #1 for $1.25 for Price Shift 1, $1.75 for Price Shift 2, and $2.25 for Price Shift 3.

Key operation

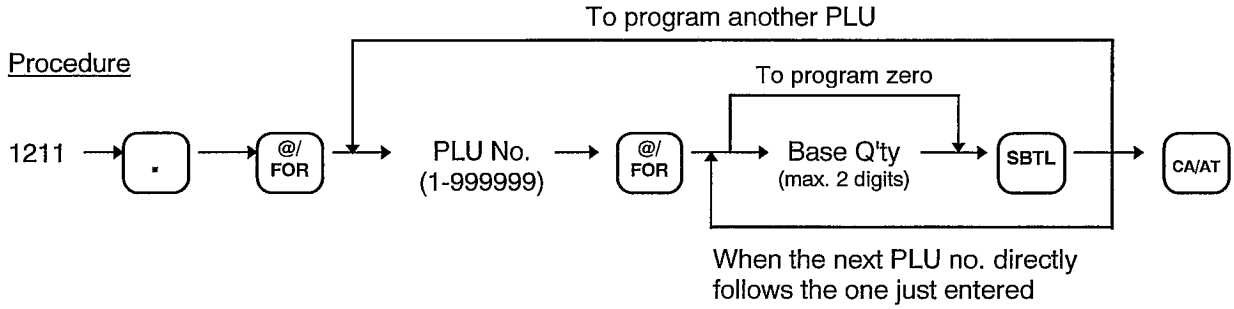
1210 • @/FOR
1 @/FOR 125 SBTL
175 SBTL
225 SBTL
SBTL SBTL
CA/AT

Print

```
#1210 * P G M 2 *

P 000001(0 1 )      /00
           P1      1.25
           P2      1.75
           P3      2.25
           P4      0.00
           P5      0.00
PL000001
G00 00 00
00000000002  KP0000 00
```

(3) Base quantity or weight for split-price entries

Program a base quantity for each PLU/Subdepartment dedicated to split-pricing entries.



Note: The PLU must have already been defined in Job# 1200.

Example: Programming PLU# 1 for Base Q'ty of 0 and PLU# 2 for Base Q'ty of 12.

Key operation

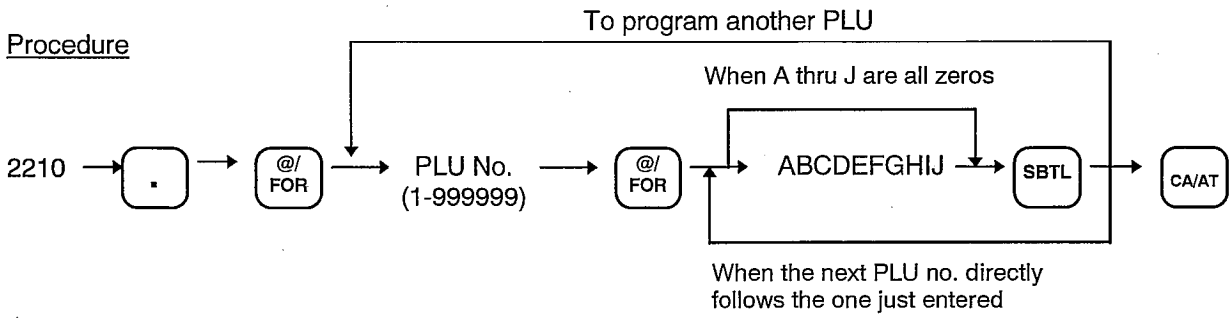
1211 [•] [@/FOR]
1 [@/FOR] [SBTL]
12 [SBTL]
[CA/AT]

Print

```
#1211 * P G M 2 *

P 000001( 0 2 )     /00
                   1.25
PL000001
G00 00 00
00000000002 KP0000   00
P 000002( 0 2 )     /12
                   1.50
PL000002
G00 00 00
00000000002 KP0000   00
```

(4) Functional Programming (PGM 2 mode)

1) Price shift compulsory/inhibited/allowed
   - The ER-A570 provides 5 price shifts per PLU. Example of use is size: small, medium, large. The appropriate price shift key is depressed prior to PLU registration.
2) Item discount/item % entry prohibited/allowed
   - To prohibit an item dollar discount/item % entry for a particular PLU.
3) Tare table number
   - A tare table number can be assigned to each PLU for scale entries.
4) Scale entry compulsory/allowed/prohibited
   - Each PLU can be programmed for scale entry allowed or compulsory for usage with manual or automatic scale entries



A:	Price Shift	Compulsory/Inhibited/Allowed	2/1/0
B:	Item -1	Disable/Enable	1/0
C:	Item -2	Disable/Enable	1/0
D:	Item -3	Disable/Enable	1/0
E:	Item -4	Disable/Enable	1/0
F:	Item (-)/%	Disable/Enable	1/0
G:	(not used)		0
H:	(not used)		0
I:	Tare Table Number		0/1 - 9
J:	Scale Entry Compulsory/Enable/Inhibit		2/1/0

Note: The PLU must have already been defined in Job# 1200.

Example: Programming for PLU 3
Enter A=2, B=0, C=0, D=0, E=0, F=0, G=0, H=0, I=0, and J=0

Key operation

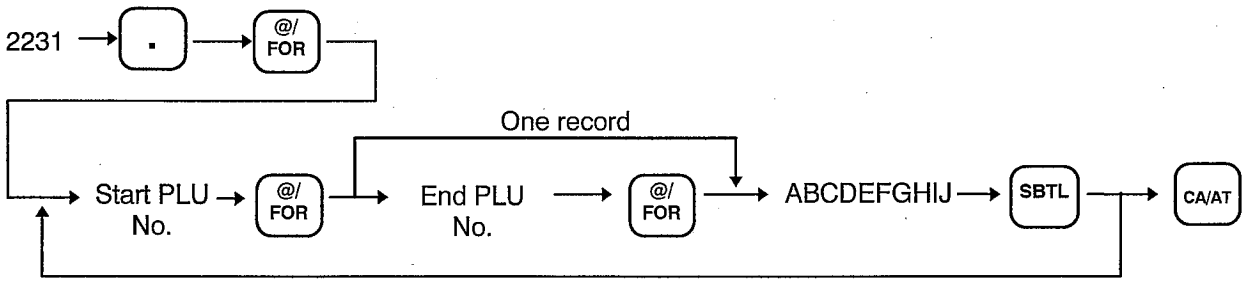
2210 [•] [@/FOR]
3 [@/FOR] 1000000000 [SBTL]
[CA/AT]

Print

```
#2210 * P G M 2 *

P 000003( 0 1 )     /00
                  0.00
PL000003
G00 00 00
10000000002 KP0000  00
```

PLUs can also be programmed by a range of PLU numbers (PGM2 mode).

Procedure



A:	Price Shift	Compulsory/Inhibited/Allowed	2/1/0
B:	Item -1	Disable/Enable	1/0
C:	Item -2	Disable/Enable	1/0
D:	Item -3	Disable/Enable	1/0
E:	Item -4	Disable/Enable	1/0
F:	Item (-)/%	Disable/Enable	1/0
G:	(not used)		0
H:	(not used)		0
I:	Tare Table Number		0/1 - 9
J:	Scale Entry Compulsory/Enable/Inhibit		2/1/0

Note: The PLU must have already been defined in Job# 1200.

Example: Programming of PLUs 1 thru 10 for Scale Compulsory and Tare Table no. 1.

Key operation

2231 [•] [@/FOR]
1 [@/FOR] 10 [@/FOR]
12 [SBTL]
[CA/AT]

Print

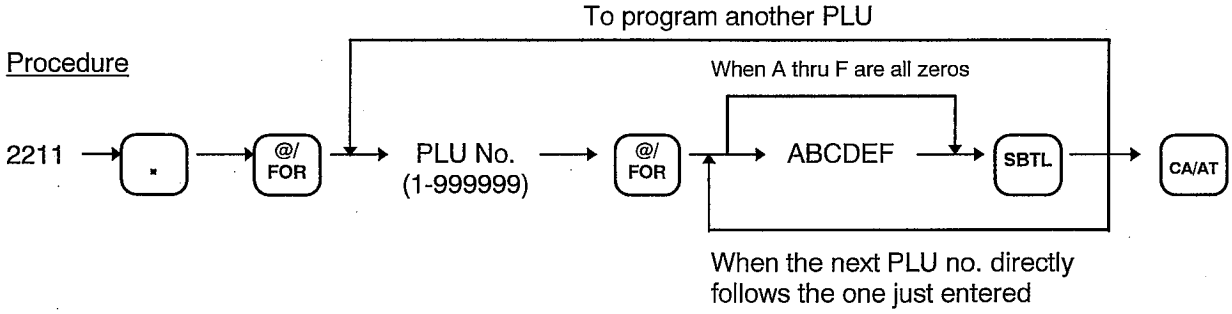
```
#2231 * P G M 2 *

P 000001      -P 000010
0000000012
```

(5) Functional Programming 2 (PGM2 mode)

1) Sign (plus/minus)
   - Each PLU can be given a sign status. Plus for normal sale entries or minus for those PLUs in which payments for items such as bottle return or other minus transactions are to be entered.
   - The function of every PLU/Subdepartment varies according to the combination of its sign and its associated department's sign as follows:

Sign		Function of PLU/Subdepartment
Dept.	PLU/subdept.	
+	+	• Serves as a normal plus PLU/subdept.
-	-	• Serves as a normal minus PLU/subdept.
+	-	• Accepts store coupon entries, but not split-pricing
-	+	• Invalid; not accepted

1) Food stamp status
   - Assign a food stamp status, eligible or ineligible, to each PLU.
2) Tax status
   - Assign a tax status to each PLU, taxable 1/taxable 2/taxable 3/taxable 4/non-taxable.
   - When entries are made into taxable PLUs in a transaction, tax is automatically computed according to the associated tax table or rate.
     Note: Tax 4 is prohibited if the food stamp function is enabled.



A:	Sign	Minus /Plus	1/0
B:	Food Stamp Status	Eligible/Ineligible	1/0
C:	Tax 4 Status	Enable/Disable	1/0
D:	Tax 3 Status	Enable/Disable	1/0
E:	Tax 2 Status	Enable/Disable	1/0
F:	Tax 1 Status	Enable/Disable	1/0

Note 1: Tax 4 is prohibited if the food stamp function is enabled
Note 2: The PLU must have already been defined in Job# 1200.

Example: Programming for PLU 1 and 9
Enter A=0, B=0, C=0, D=0, E=0, F=1 for PLU 1
Enter A=0, B=1, C=0, D=0, E=0, F=0 for PLU 9

Key operation

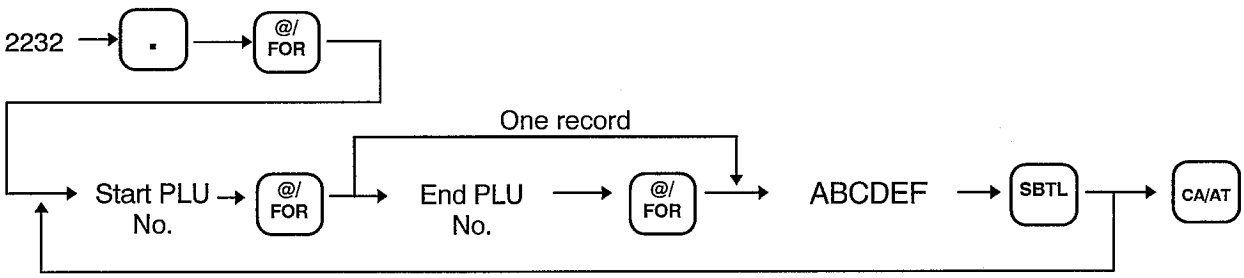
2211 • @/FOR
1 @/FOR 1 SBTL
9 @/FOR 10000 SBTL
CA/AT

Print

```
#2211 * P G M 2 *

P 000001( 0 2 )     /00
 T1                1.25
PL000001
G00 00 00
00000000002 KP0000  00
P 000009( 0 1 )     /00
F                  0.00
PL000009
G00 00 00
00000000002 KP0000  00
```

PLUs can also be programmed by a range of PLU numbers (PGM2 mode).

Procedure



A:	Sign	Minus /Plus	1/0
B:	Food Stamp Status	Eligible/Ineligible	1/0
C:	Tax 4 Status	Enable/Disable	1/0
D:	Tax 3 Status	Enable/Disable	1/0
E:	Tax 2 Status	Enable/Disable	1/0
F:	Tax 1 Status	Enable/Disable	1/0

Note 1: Tax 4 is prohibited if the food stamp function is enabled
Note 2: The PLU must have already been defined in Job# 1200.

Example: Programming of PLUs 1 thru 10 for Tax status 1 enabled.

Key operation

2232 • @/FOR
1 @/FOR 10 @/FOR
1 SBTL
CA/AT

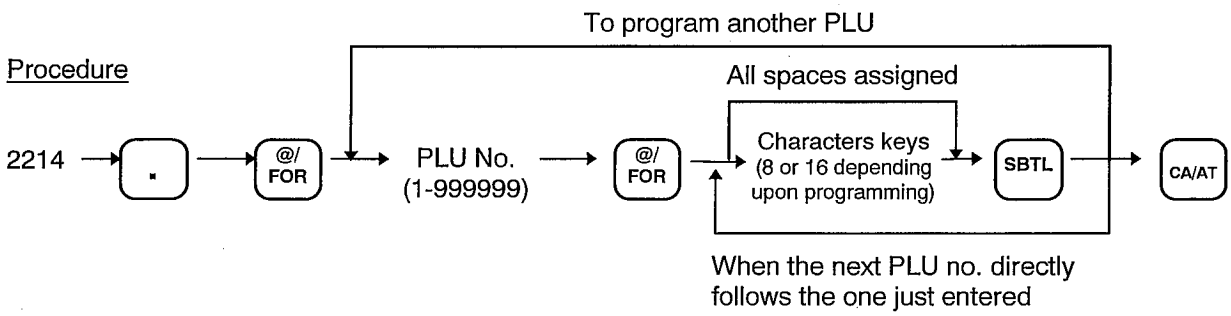
Print

```
#2232 * P G M 2 *

P 000001      -P 000010
 T1
```

(6) PLU Text Programming

A maximum of 16 characters can be programmed as the PLU descriptor. However, the default setting is for an 8 character descriptor. For more details consult your dealer. Select the characters you wish to program referring to the "Programming key sheets" on pages 7 and 8.

MID-RANGE SYSTEM SOLUTION



Example: Programming the description MILK for PLU 1.

Key operation

2214 • @/FOR

1 @/FOR

MILK SBTL

SP SP SP SP

CA/AT

Print

```
#2214 * P G M 2 *

P 000001( 0 2 )    /00
 T1                1.25
MILK
G00 00 00
00000000002 KP0000  00
```

Note: Your machine also allows you to program by character code. Each character is represented by a three digit number as shown in the character code table on page 19. Follow the above procedure however, enter the following sequence instead of depressing the character keys.

Character Code (3 digits) → 00 key

Example: To program the word "SHARP" with the letter "S" being double size.

(DC) → 253 00 (Double size character code)

S → 083 00

H → 072 00

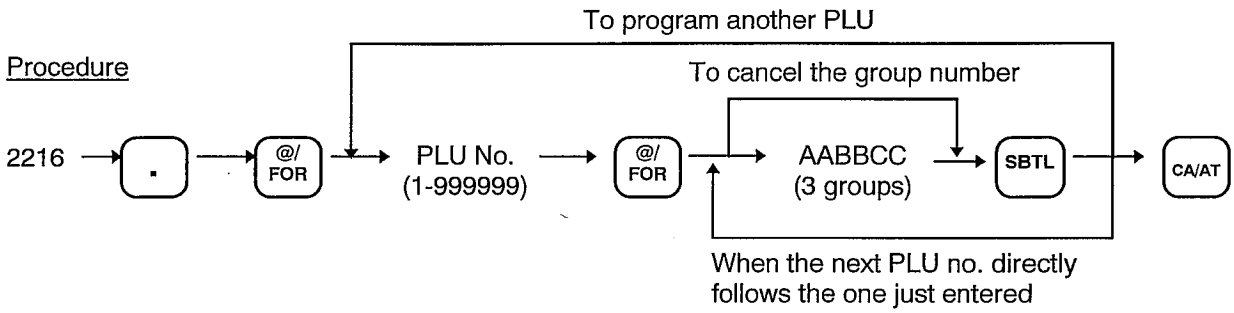
A → 065 00

R → 082 00

P → 080 00

(7) PLU Group programming (PGM2 mode)

Multiple PLUs can be associated to a maximum of 99 groups for more general reporting. Each PLU can be linked to three different groups.



AA: Group No. (0 to 99)
BB: Group No. (0 to 99)
CC: Group No. (0 to 99)

Example: Three sandwiches linked to a Sandwich group (Group 1); Hamburger (PLU 1), Cheese Burger (PLU 2), and Chicken Sandwich (PLU 3). This store owner also wants a report showing beef sales verses chicken sales so Hamburger and Cheese Burger are also linked to the Beef group (Group 2) while the Chicken Sandwich is linked to the Chicken group (Group 3).

Key operation

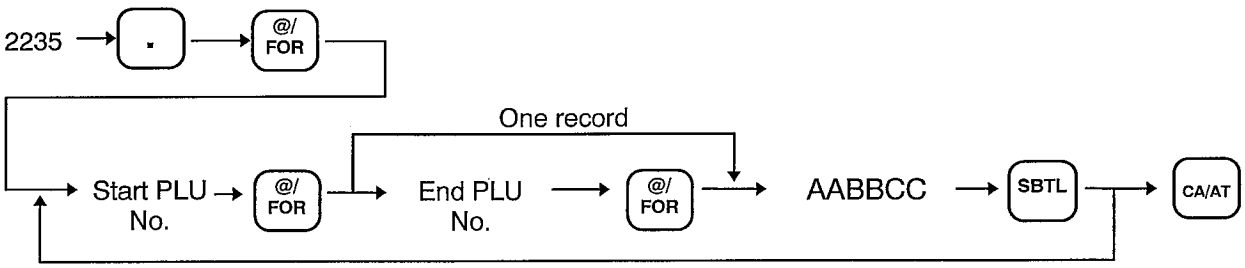
2216 [•] [@/FOR]
1 [@/FOR] 10200 [SBTL]
10200 [SBTL]
10300 [SBTL]
[CA/AT]

Print

```
#2216 * P G M 2 *

P 000001( 0 2 )     /00
 T1                1.25
MILK
G01 02 00
00000000002 KP0000   00
P 000002( 0 1 )     /00
                   1.50
PL000009
G01 02 00
00000000002 KP0000   00
P 000003( 0 1 )     /00
                   0.00
PL000003
G01 03 00
10000000002 KP0000   00
```

PLUs can also be programmed by a range of PLU numbers (PGM2 mode).

Procedure



AA: Group No. (0 to 99)
BB: Group No. (0 to 99)
CC: Group No. (0 to 99)

Note: The PLU must have already been defined in Job# 1200.

Example: Programming of PLUs 1 thru 10 for Groups 1, 10 and 23.

Key operation

2235 • @/FOR
1 @/FOR 10 @/FOR
11023 SBTL
CA/AT

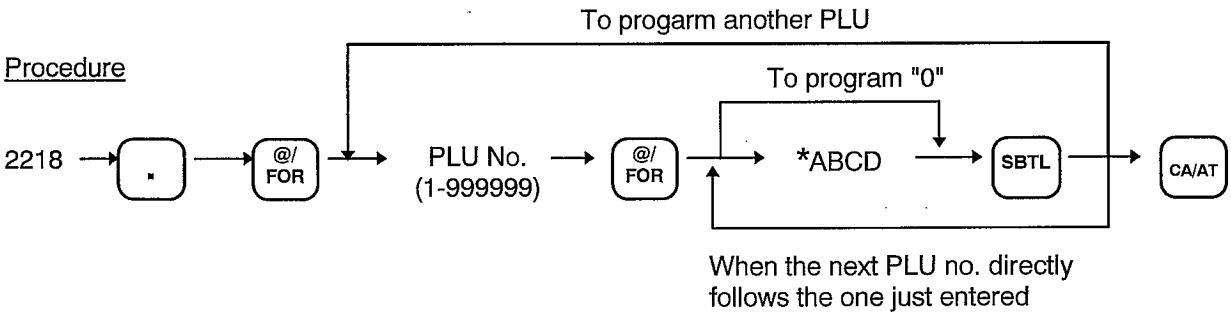
Print

```
#2235 * P G M 2 *

P 000001      -P 000009
G01 10 23
```

(8) PLU Print station programming (PGM2 mode)

A print station can be assigned to each PLU. This means that each PLU is able to be routed to different preparation stations. Remote printers 1 to 9 and terminal receipt printer are selectable options. Finalizing the transaction via "SRVC", "FINAL", or payment key reorganizes and routes the transaction by remote printer. Partial orders can also be sent to the remote printer via the "RP SEND" key during a transaction. Partial orders print the message "PRT ORDER" on the remote printer printout.

Procedure



A:	Assigning dept. as RP modifier *	Enable/Disable	1/0
B:	In-line remote printer #1	(1 to 9) (0 is no output)	
C:	In-line remote printer #2	(1 to 9) (0 is no output)	
D:	Printing on terminal receipt printer (chit receipt)	Enable/Disable	1/0

* The RP modifier function is used to route items (usually condiments) to the kitchen printer of the previously rung item. Example: one key for Thousand Island dressing on the keyboard designated as an RP modifier, Burger outputting to KP#1, and Tossed Salad outputting to KP#2. When a Burger is rung with Thousand Island and then a Tossed Salad also with Thousand Island; KP#1 will receive Burger and Thousand Island and KP#2 will receive Tossed Salad and Thousand Island.

Example: To program PLU 1 to print on remote printer #1 and no chit receipt.

Key operation

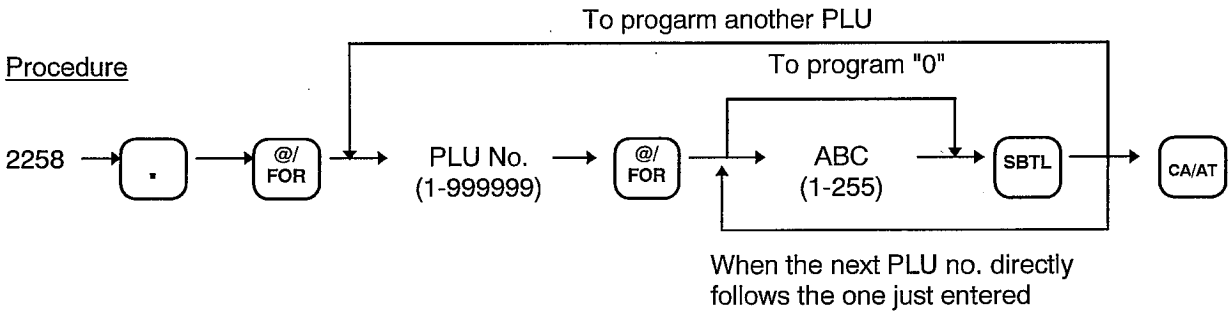
2218 [•] [@/FOR]
1 [@/FOR] 100 [SBTL]
[CA/AT]

Print

```
#2218 * P G M 2 *

P 000001( 0 2 )     /00
 T1                1.25
MILK
G00 00 00
00000000002 KP0100  00
```

(9) IRC control character programming (PGM2 mode)

This number is converted to a two-digit character code that is transmitted for use by an IRC (Inter-Register Communication) device such as a color monitor system. For more information please consult your dealer.



Example: To program PLU #1 to IRC control code of 100 (which converts to 64 HEX).

Key operation

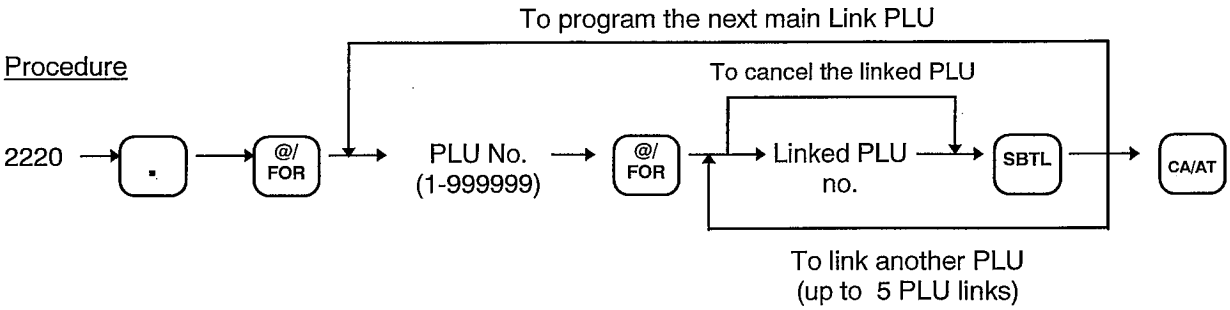
2258 [•] [@/FOR]
1 [@/FOR] 100 [SBTL]
[CA/AT]

Print

```
#2258 * P G M 2 *

P 000001( 0 2 )     /00
 T1                1.25
MILK
G00 00 00
00000000002 KP0000  64
```

(10) Linked PLU numbers (PGM2 mode)

The purpose of a Linked PLU is to sell multiple items as a set. This feature is often used for Bottle Deposit where the item is sold at the regular price but is linked to a bottle deposit charge. Up to 5 PLUs can be linked together. When a main Link PLU is entered each linked PLU is rung and printed in succession. The ER-A570 and ER-A610 comes standard with 30 programmable Link PLUs. For more information consult your dealer.



Example: Programming PLU 1 linked to PLU 5 and PLU 6

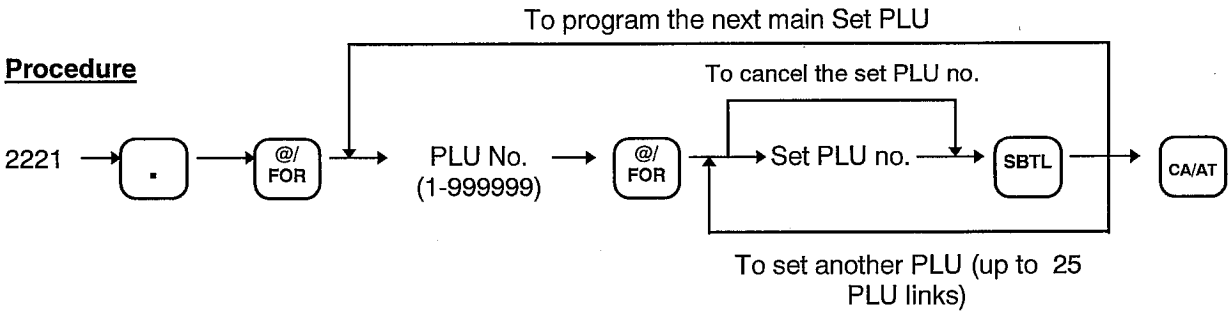
Key operation	
2220	• @/FOR
1 @/FOR	5 SBTL
	6 SBTL
	CA/AT

Print

```
#2220 * P G M 2 *

P 000001     L P000005
                P000006
```

(11) Promotional (Set) PLU numbers (PGM2 mode)

The purpose of a Promotional PLU is for selling multiple items as a combination. This feature is often used for Combo Items. The combo PLU is rung with a set price but for inventory purposes each PLU, linked to the combination, count is also incremented. Up to 25 PLUs can be set together.
The ER-A570 comes standard with 10 programmable Set PLUs and the ER-A610 comes standard with none. For more information consult your dealer.



Example: Programming PLU 11 set to PLU 15 and PLU 16

Key operation	
2221	• @/FOR
11 @/FOR	15 SBTL
	16 SBTL
	CA/AT

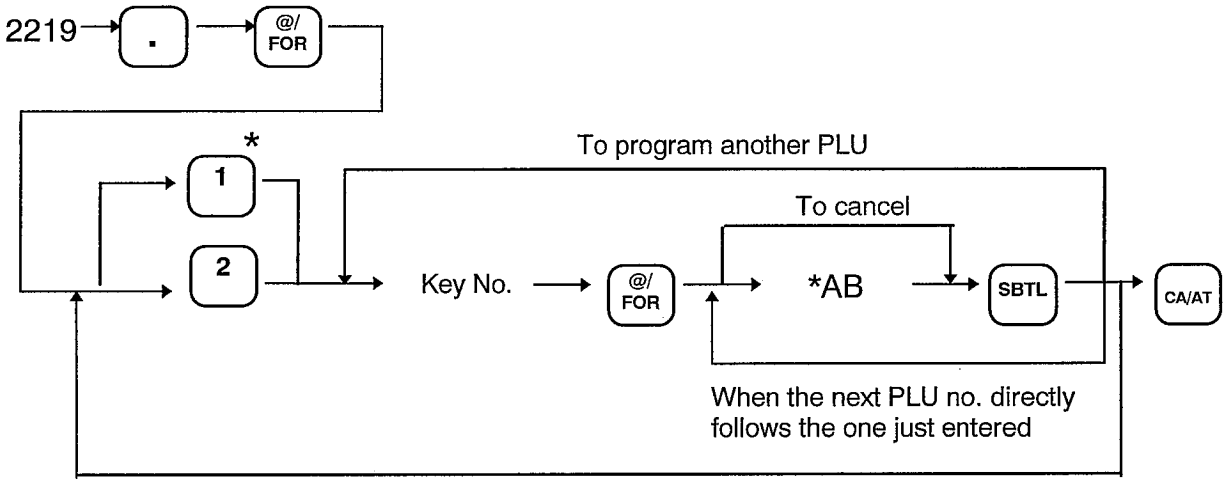
Print

```
#2221 * P G M 2 *

P 000011     S P000015
                P000016
```

(12) PLU key positioning (PGM 2 mode)

You can assign a PLU number to a specific key location on the physical keyboard. Consult your dealer for more information.
A single direct Key No. can be linked to two different PLU numbers.

Procedure



* When programming PLU levels (levels 1 and 2), you must use the following keys shown on the programming key sheet.

Example: Programming for PLUs 1 and 2 as follows:

Key no.	PLU no.
1 (level 1)	1
2 (level 1)	2

Key operation

2219 [•] [@/ FOR]
1 [@/ FOR] 1 [SBTL]
2 [SBTL]
[CA/ AT]

Print

```
#2219 * P G M 2 *

0 0 1    L1   P 000001
0 0 2    L1   P 000002
```

(13) Lead Through PLU Programming

In accordance with the guide message in the display, you can program the characteristic of each PLU via one programming job.

Step No.	Guide Message	Operation	Note
1		2200 → [•] → [@/FOR]	
2	ENTER PLU#	(PLU no.) → [@/FOR]	(1 - 999999 max.)
3	DEPT & TYPE	(ABC) → [SBTL] AB: Associate dept. no. C: Mode parameter Delete/Open & Preset/Preset/Open/Inhibit (4/3/2/1/0)	Job# 1200
4	PRICE	(Unit price) → [SBTL] max. 6 digits	Job# 1210
5	BASE Q'TY	(Base Q'ty) → [SBTL] max. 2 digits)	Job# 1211
6	PROGRAMMING	(ABCDEFGHIJ) → [SBTL] A: Price Shift Compulsory/Inhibited/Allowed (2/1/0) B: Item θ1 Disable/enable (1/0) C: Item θ2 Disable/enable (1/0) D: Item θ3 Disable/enable (1/0) E: Item θ4 Disable/enable (1/0) F: Item θ/% Disable/enable (1/0) G: Always enter 0 H: Always enter 0 I: Tare Table Number (1 - 9, 0 = no tare table) J: Scale Entry Compulsory/Allowed/Inhibit (2/1/0)	Job# 2210
7	SIGN AND TAX	(ABCDEF) → [SBTL] A: Sign (-)/(+) (1/0) B: Food Stamp Status eligible/ineligible (1/0) C: Tax 4 status Enable/Disable (1/0) D: Tax 3 status Enable/Disable (1/0) E: Tax 2 status Enable/Disable (1/0) F: Tax 1 status Enable/Disable (1/0)	Job# 2211
7	TEXT	(Character Keys) → [SBTL] 8 or 16 characters depending upon programming	Job# 2214
9	GROUP	(AABBCC) → [SBTL] AA: 1 to 99 (0 to cancel group number) BB: 1 to 99 (0 to cancel group number) CC: 1 to 99 (0 to cancel group number)	Job# 2216

10	PRINT STATION	(ABCD) → [SBTL] A: Follow the last entered Dept. Yes/No (1/0) B: RP1 number (1 to 9, 0: no output) C: RP2 number (1 to 9, 0: no output) D: Chit Receipt Enable/Disable (1/0)	Job# 2218
11	CONTROL CHARACTER	(0 to 255) → [SBTL]	Job# 2258
12	DEPT & TYPE	At this point you have three choices 1. Return to step no. 3 to program for the next PLU no. 2. Enter another PLU no. and depress [@/FOR] key. (Same as step no. 2) 3. Depress the [CA/AT] key to finalize the programming. → [CA/AT]	

Note: Depress [@/FOR] to skip to the next step and keep the existing value, instead of [SBTL].

Depress [CL] to back up to the last step and keep the existing value. You can program the guide messages via Job# 2644.

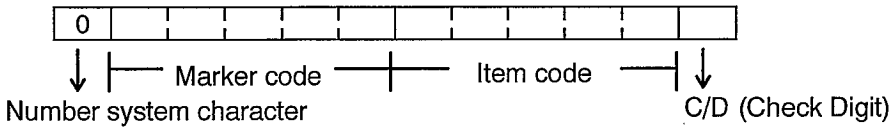
7. UPC (Universal Price Code) Programming

When it comes to UPC programming data, the ER-A570/A610 can hold the information in two different files: the UPC file and the Dynamic UPC file.
The ER-A570 comes standard with no UPC records and no Dynamic UPC records, while the ER-A610 comes standard with 300 UPC records expandable to 20,000 and no Dynamic UPC records.
Your register has 10 UPCs or EANs as standard default setting and can transact the following codes:

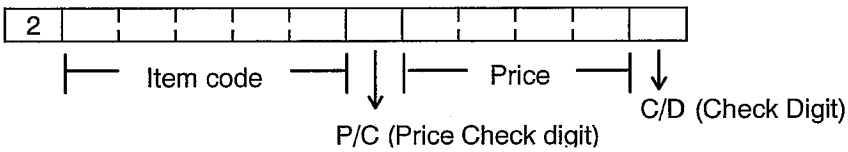
- UPC-A (Number system character: 0, 2, 3, 4, 5)
- UPC-E
- EAN 8
- EAN 13

(1) UPC-A

- Number system character: 0 (used in the source marking items such as common foods, daily necessities, and miscellaneous goods.

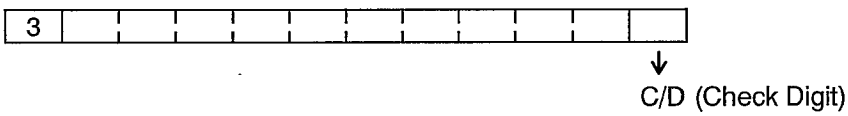


- Number system character: 2 (used in the in-store marking of variable weight non-UPC type items such as meat)

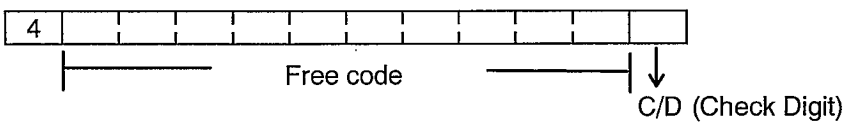


Note: This method obtains a sales amount by using the amount encoded in the PRICE field.

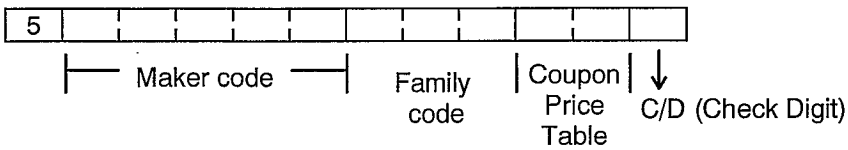
- Number system character: 3 (used as National Drug Codes (NDC) or National Health Related Items Code (HRI))



- Number system character: 4 (used in the in-store marking UPC type)



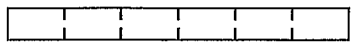
- Number system character: 5 (used for coupon)



Note: The Coupon Price Table was created in accordance with specifications provided by the Universal Product Code Council. (6/1/1995) The table is fixed and cannot be changed.

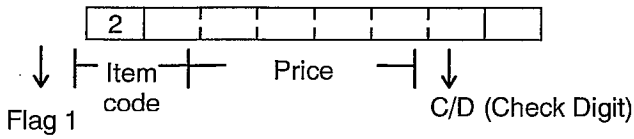
(2) UPC-E

- UPC-E is a zero-suppressed version of UPC-A that conforms to the UPC-E Standards. This code is applied to such items as canned or bottled soda, candy, cigarettes, and other miscellaneous goods.



(3) EAN 8

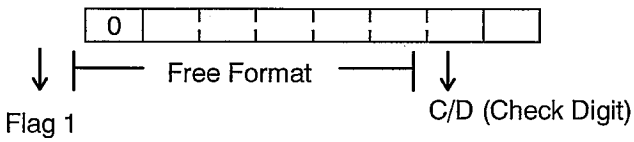
- Flag 1: 2 (used in the in-store marking non-UPC short type)



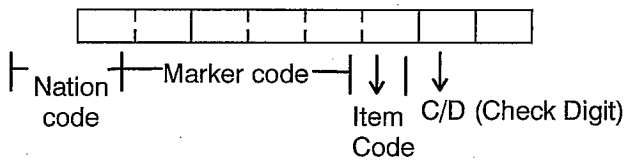
The format of the in-store code can be programmed by PGM Job #2025.

Note: Sales entries using this code can be achieved by using the same method as described (1) UPC-A Number system character: 2).

- Flag 1: 0 (used in the in-store marking UPC short type)

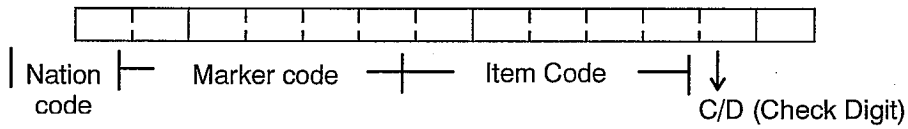


- Flag 1: neither 0 or 2 (used in the source marking: ordinary short EAN code)



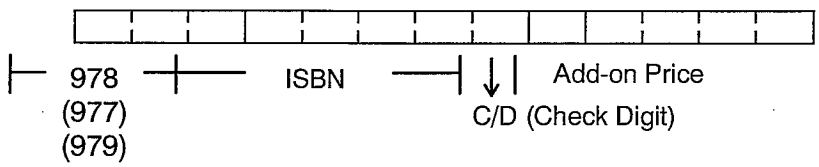
(4) EAN 13

- This code is used in the source marking of such items as common foods, daily necessities, and miscellaneous goods.



- Internal coding (format 20 thru 29)
  This coding is used for in-store marking. The format can be programmed in PGM job #2025.

- Extraordinary EAN-13 code (ISBN, ISSN)



The availability of this code is dependent on PGM programming. When this code is available and read, the entry for price is forced. The operator cannot read any add-on pricing.

(5) Dynamic UPC/EAN function utilizes the Learning function):

The purpose of the Learning function is to allow the creation of a UPC record, during normal operation, without having first created the record in the main UPC data file. When the Dynamic UPC file is present, the learned UPC is retained and used for additional entries within the same transaction and/or in all subsequent transactions. Note: The Dynamic UPC file is not standard. See your dealer for details.

A Dynamic UPC is created when the UPC code entered (scanned) is an undefined code. The operator is then prompted for price and associated department entry (PRICE → DEPT). Once a price is entered and the associated department is depressed the item is added to the transaction. The text description and parameters associated to the selected department are used by the learned UPC.

The data record created by the learning function can be modified and downloaded to the main UPC file via PGM mode.

Rules of UPC and EAN entries with the ten numeric keys

• UPC-A (Number system characters 0, 3). A full 12 digits or 11 digits (omitting the check digit) must be entered.	X1 X2 X3 X4 X5 X6 X7 X8 X9 X10 X11 C/D or X1 X2 X3 X4 X5 X6 X7 X8 X9 X10 X11
• UPC-A (Number system character 4) A full 12 digits, 11 digits (omitting the check digit), or a leading zero plus 12 digits must be entered.	X1 X2 X3 X4 X5 X6 X7 X8 X9 X10 X11 C/D or X1 X2 X3 X4 X5 X6 X7 X8 X9 X10 X11 or 0 X1 X2 X3 X4 X5 X6 X7 X8 X9 X10 X11 C/D
• UPC-A (Number system character 2) A full 12 digits, 11 digits (omitting the check digit), or a leading zero plus 12 digits must be entered. (Any numbers are allowed for X7 to X11 and C/D.)	X1 X2 X3 X4 X5 X6 X7 X8 X9 X10 X11 C/D or X1 X2 X3 X4 X5 X6 X7 X8 X9 X10 X11 or 0 X1 X2 X3 X4 X5 X6 X7 X8 X9 X10 X11 C/D
• UPC-A (Number system character 5) A full 12 digits or 11 digits (omitting the check digit) must be entered.	X1 X2 X3 X4 X5 X6 X7 X8 X9 X10 X11 C/D or X1 X2 X3 X4 X5 X6 X7 X8 X9 X10 X11
• UPC-E A full 6 digits or a leading zero plus 6 digits must be entered.	X1 X2 X3 X4 X5 X6 or 0 X1 X2 X3 X4 X5 X6
• EAN 8 (Flag 1: neither 0 nor 2) A full 8 digits must be entered.	X1 X2 X3 X4 X5 X6 X7 C/D
• EAN 8 (Flag 1: 0) A full 8 digits must be entered.	X1 X2 X3 X4 X5 X6 X7 C/D
• EAN 8 (Flag 1: 2) A full 8 digits must be entered. (Any numbers are allowed for X4 to X7 and C/D.)	X1 X2 X3 X4 X5 X6 X7 C/D
• EAN 13 A full 13 digits must be entered.	X1 X2 X3 X4 X5 X6 X7 X8 X9 X10 X11 X12 C/D

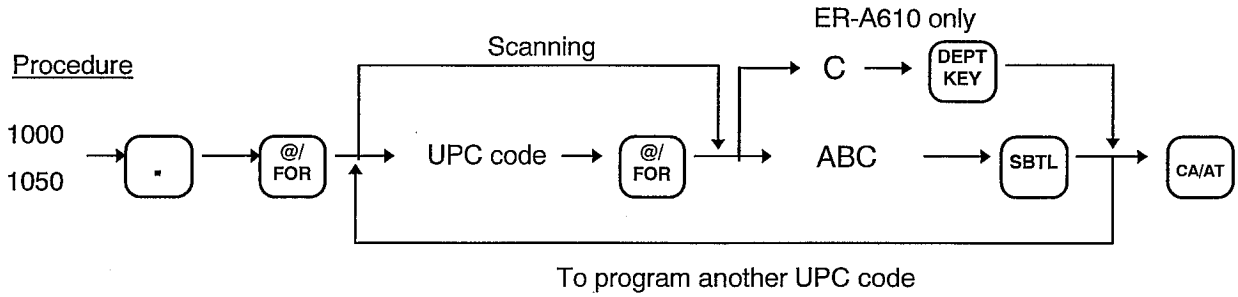
Following is required programming for each UPC (or EAN):
Each UPC requires association to a department. A UPC entry not only affects the UPC totalizers but also the department it belongs to.

The UPC entry function is intended for speedy entry operation. A subdepartment is a kind of "open UPC", which requires entry of a price. UPC reports can be used for item stocking and other management aids.

Each UPC and Dynamic UPC requires the following programming:

(1) Definition of UPC department assignment (PGM1 or PGM2 mode)

PGM Job# 1000 for UPCs.
PGM Job# 1050 for Dynamic UPCs.



AB: Associate Department number (0 to 99)
C: Delete method
DELETE/Manual Delete/Automatic delete at Daily Z1 (4/1/0)

Example: Programming as UPC code 123456 associated to department 1 with Automatic Delete. (Key operation shown for both the ER-A570 and ER-A610)

Key operation for ER-A570 or ER-A610

1000 • @/FOR
123456 @/FOR 10 SBTL
CA/AT

Key Operation for ER-A610 only

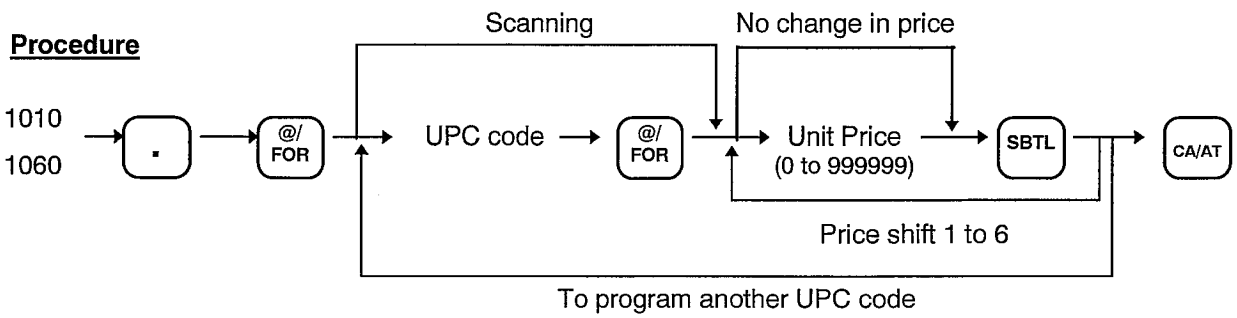
1000 • @/FOR
123456 @/FOR 0 DEPT 1 SBTL
CA/AT

Print

```
#1000 * P G M 2 *
        123456#(01)/00
                  0.00
00000000     KP0000  00
```

(2) Programming of UPC code Unit Price (PGM 1 or PGM 2 mode)

PGM Job# 1010 for UPCs.
PGM Job# 1060 for Dynamic UPCs.



Note 1: Price entries for Price shift 2 to 6 is allowed only when the UPC multi-price shift file is created (For more details consult your dealer).
Note 2: The UPC code must have already been defined in Job# 1000.

Example: Programming UPC code 123456 for $1.25.

Key operation

1010 [•] [@/FOR]
123456 [@/FOR] 125 [SBTL]
[CA/AT]

Print

```
#1010 * P G M 2 *

        123456#(01)/00
                  1.25

00000000     KP0000  00
```

Example: Programming UPC code 123456 for $1.25 for Price Shift 1, $1.75 for Price Shift 2, and $2.25 for Price Shift 3.

Key operation

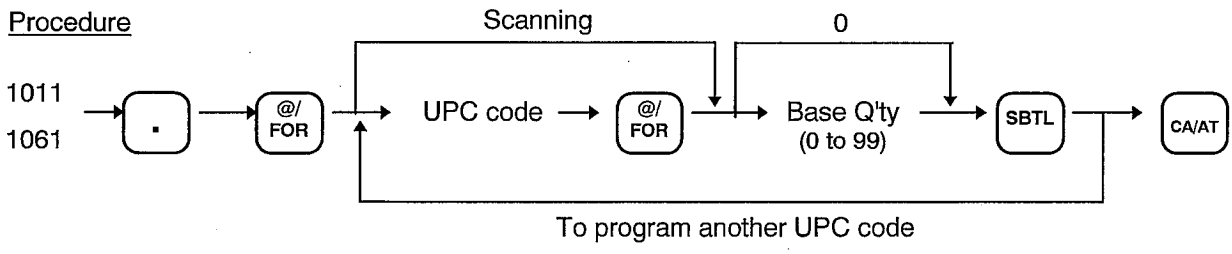
1010 [•] [@/FOR]
123456 [@/FOR] 125 [SBTL]
175 [SBTL]
225 [SBTL]
[SBTL] [SBTL] [SBTL]
[CA/AT]

Print

```
#1010 * P G M 2 *

        123456#(01)/00
           P1      1.25
           P2      1.75
           P3      2.25
           P4      0.00
           P5      0.00
           P6      0.00

00000000     KP0000  00
```

(3) Base quantity or weight for split-price entries (PGM 2 mode)

PGM Job# 1011 for UPCs.
PGM Job# 1061 for Dynamic UPCs.
Program a base quantity for each UPC dedicated to split-pricing entries.



Note: The UPC must have already been defined in Job# 1000.

Example: Programming UPC code 123456 for Base Q'ty of 0.

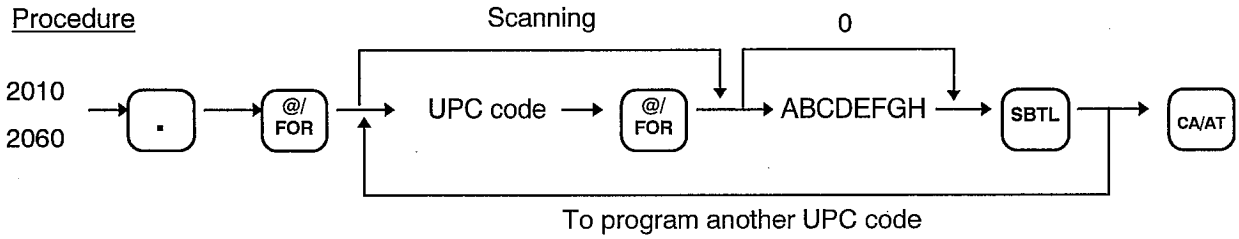
Key operation	Print
1011 [•] [@/FOR]	#1011 * P G M 2 *
123456 [@/FOR] [SBTL]	123456#(01)/00 1.25
[CA/AT]	00000000 KP0000 00

(4) UPC Functional Programming (PGM 2 mode)

PGM Job# 2010 for UPCs.
PGM Job# 2060 for Dynamic UPCs.

1) Price shift compulsory/inhibited/allowed
   - The ER-A570/A610 provides 6 price shifts per UPC. Example of use is size: single can, 6 pack, case. The appropriate price shift key is depressed prior to UPC registration.
2) Item discount/item % entry prohibited/allowed
   - To prohibit an item dollar discount/item % entry for a particular UPC.
3) Tare table number
   - A tare table number can be assigned to each UPC for scale entries.
4) Scale entry compulsory/allowed/prohibited
   - Each UPC can be programmed for scale entry allowed or compulsory for usage with manual or automatic scale entries

Note: The UPC must have already been defined in Job# 1000.



A:	Price Shift	Compulsory/Inhibited/Allowed	2/1/0
B:	Item -1	Disable/Enable	1/0
C:	Item -2	Disable/Enable	1/0
D:	Item -3	Disable/Enable	1/0
E:	Item -4	Disable/Enable	1/0
F:	Item (-)/%	Disable/Enable	1/0
G:	Tare Table Number		0/1 - 9
H:	Scale Entry Compulsory/Enable/Inhibit		2/1/0

Note: The UPC must have already been defined in Job# 1000.

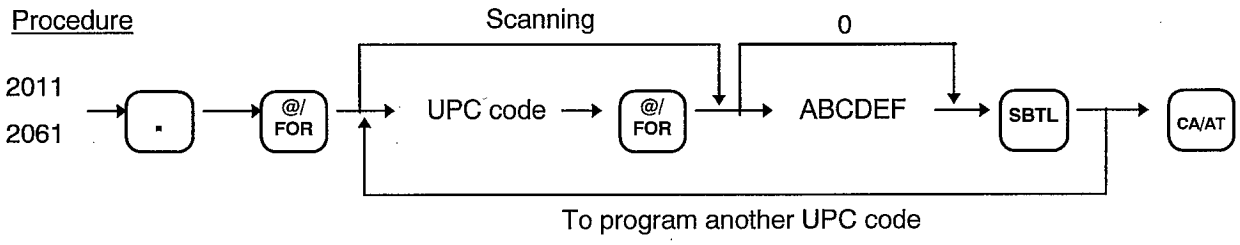
Example: Programming for UPC code 123456
Enter A=2, B=0, C=0, D=0, E=0, F=0, G=0, and H=0

Key operation	Print
2010 [•] [@/FOR]	#2010 * P G M 2 *
123456 [@/FOR] 20000000 [SBTL]	123456#(01)/00 1.25
[CA/AT]	20000000 KP0000 00

(5) Functional Programming 2 (PGM2 mode)

PGM Job# 2011 for UPCs.
PGM Job# 2061 for Dynamic UPCs.

1) Sign (plus/minus)
   - Each UPC can be given a sign status. Plus for normal sale entries or minus for those UPCs in which payments for items such as bottle return or other minus transactions are to be entered.
2) Food stamp status
   - Assign a food stamp status, eligible or ineligible, to each UPC.
3) Tax status
   - Assign a tax status to each UPC: taxable 1/taxable 2/taxable 3/taxable 4/non-taxable.
   - When UPC entries are made, tax is automatically computed according to the associated tax table or rate.
     Note: Tax 4 is prohibited if the food stamp function is enabled.



A:	Sign	Minus /Plus	1/0
B:	Food Stamp Status	Eligible/Ineligible	1/0
C:	Tax 4 Status	Enable/Disable	1/0
D:	Tax 3 Status	Enable/Disable	1/0
E:	Tax 2 Status	Enable/Disable	1/0
F:	Tax 1 Status	Enable/Disable	1/0

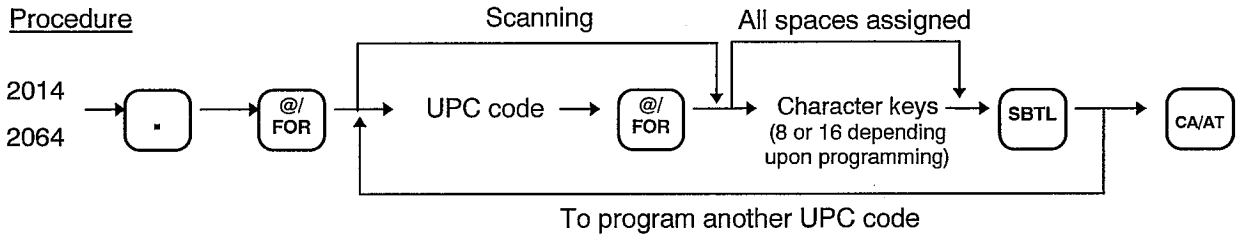
Note 1: Tax 4 is prohibited if the food stamp function is enabled
Note 2: The UPC must have already been defined in Job# 1000.

Example: Programming for UPC code 123456
Enter A=0, B=1, C=0, D=0, E=0, F=1

Key operation	Print
2011 [•] [@/FOR]	#2011 * P G M 2 *
123456 [@/FOR]	123456#(01)/00
10001 [SBTL]	FT1 1.25
[CA/AT]	20000000 KP0000 00

(6) UPC Text Programming (PGM 2 mode)

PGM Job# 2014 for UPCs.
PGM Job# 2064 for Dynamic UPCs.
A maximum of 16 characters can be programmed as the UPC descriptor. However, the default setting is for an 8 character descriptor. For more details consult your dealer. Select the characters you wish to program referring to the "Programming key sheets" on pages 7 and 8.



Example: Programming the description JUICE for UPC 123456.

Key operation	Print
2014 [•] [@/FOR]	#2014 * P G M 2 *
123456 [@/FOR]	123456#(01)/00
JUICE [SBTL]	FT1 1.25
[CA/AT]	JUICE
	00000000 KP0000 00

Note: Your machine also allows you to program by character code. Each character is represented by a three digit number as shown in the character code table on page 19. Follow the above procedure however enter the following sequence instead of depressing the character keys.

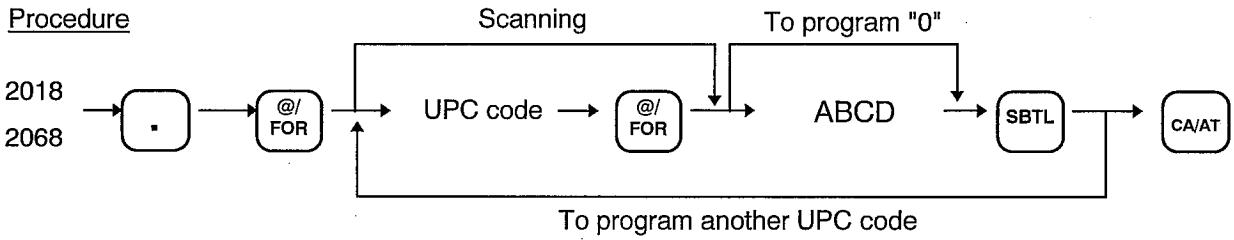
Character Code (3 digits) → [00] key

Example: To program the word "SHARP" with the letter "S" being double size.

(DC) → 253 [00] (Double size character code)
S → 083 [00]
H → 072 [00]
A → 065 [00]
R → 082 [00]
P → 080 [00]

(7) UPC Print station programming (PGM2 mode)

PGM Job# 2018 for UPCs.
PGM Job# 2068 for Dynamic UPCs.
A print station can be assigned to each UPC. This means that each UPC is able to be routed to different preparation stations. Remote printers 1 to 9 and terminal receipt printer are selectable options. Finalizing the transaction via "SRVC", "FINAL", or payment key reorganizes and routes the transaction by remote printer. Partial orders can also be sent to the remote printer via the "RP SEND" key during a transaction. Partial orders print the message "PRT ORDER" on the remote printer printout.



A:	Assigning dept. as RP modifier *	Enable/Disable	1/0
B:	In-line remote printer #1	(1 to 9) (0 is no output)	
C:	In-line remote printer #2	(1 to 9) (0 is no output)	
D:	Printing on terminal receipt printer (chit receipt)	Enable/Disable	1/0

* The RP modifier function is used to route items (usually condiments) to the kitchen printer of the previously rung item. Example: one key for Thousand Island dressing on the keyboard designated as an RP modifier, Burger outputting to KP#1, and Tossed Salad outputting to KP#2. When a Burger is rung with Thousand Island and then a Tossed Salad also with Thousand Island; KP#1 will receive Burger and Thousand Island and KP#2 will receive Tossed Salad and Thousand Island.

Example: To program UPC code 123456 to print on remote printer #1 and no chit receipt.

Key operation

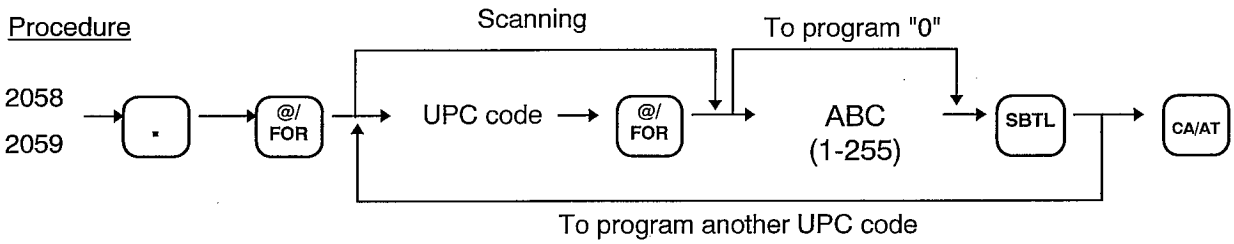
2018 [•] [@/FOR]
123456 [@/FOR] 100 [SBTL]
[CA/AT]

Print

```
#2018 * P G M 2 *

        123456#(01)/00
  FT1              1.25
JUICE
00000000     KP0100  00
```

(8) IRC control character programming (PGM2 mode)

PGM Job# 2058 for UPCs.
PGM Job# 2059 for Dynamic UPCs.
This number is converted to a two-digit character code that is transmitted for use by an IRC (Inter-Register Communication) device such as a color monitor system. For more information please consult your dealer.



Example: To program UPC code #123456 to IRC control code of 100 (which converts to 64 HEX).

Key operation

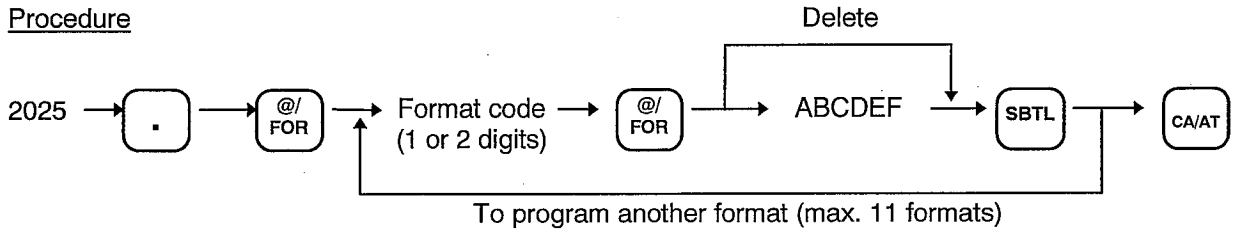
2058 • @/FOR
123456 @/FOR 100 SBTL
CA/AT

Print

```
#2058 * P G M 2 *

        123456#(01)/00
  FT1             1.25
JUICE
00000000    KP0100  64
```

(9) Non-PLU code formatting (PGM 2 mode)

When formatting your own store code using the following:



A: Length of field 1
B: Length of field 2
C: (Not used)

D:	Meaning of field 2	Quantity/Price	2/0
E:	Price check digit used	Yes/No	1/0
F:	Number of digits after decimal point		3/2/1/0

Example: Programming a format code for:
Format code of 23, length of field 1 is 5 digits, price check code, length of field 2 is 4 digits, and 2 digits after the decimal place.

Key operation

2025 • @/FOR
23 @/FOR
540012 SBTL
CA/AT

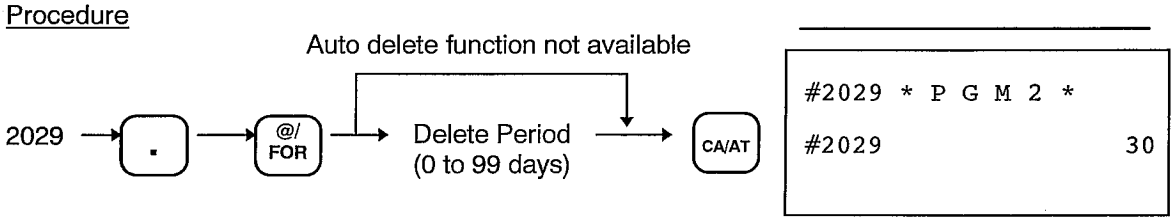
Print

```
#2025 * P G M 2 *

23          5 4 0 0 1 2
```

(10) Auto delete period programming (PGM 2 mode)

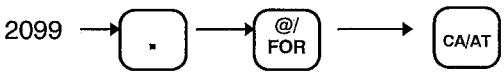
Print

Procedure



(11) Download from Dynamic UPC file to UPC file

Procedure



(12) Lead Through UPC Programming

In accordance with the guide message in the display, you can program the characteristic of each UPC via one programming job.
PGM Job# 2000 for UPCs.
PGM Job# 2050 for Dynamic UPCs.

Step No.	Guide Message	Operation	Note
1		2000 → [•] → [@/FOR]	
2	ENTER UPC#	(UPC no.) → [@/FOR] or Scanned	Scanning does not require [@/FOR] depression.
3	DEPT & TYPE	(ABC) → [SBTL] For the ER-A570 or ER-A610 (C) → [Dept Key] For the ER-A610 only AB: Associate dept. no. C: Delete Method Delete/Manual Delete/Automatic Delete at Z1 (4/1/0)	Job# 1000
4	PRICE	(Unit price) → [SBTL] max. 6 digits	Job# 1010
5	BASE Q'TY	(Base Q'ty) → [SBTL] max. 2 digits)	Job# 1011
6	PROGRAMMING	(ABCDEFGH) → [SBTL] A: Price Shift Compulsory/Inhibited/Allowed (2/1/0) B: Item θ1 Disable/enable (1/0) C: Item θ2 Disable/enable (1/0) D: Item θ3 Disable/enable (1/0) E: Item θ4 Disable/enable (1/0) F: Item θ/% Disable/enable (1/0) G: Tare Table Number (1 - 9, 0 = no tare table) H: Scale Entry Compulsory/Allowed/Inhibit (2/1/0)	Job# 2010
7	SIGN AND TAX	(ABCDEF) → [SBTL] A: Sign (-)/(+) (1/0) B: Food Stamp Status Eligible/Ineligible (1/0) C: Tax 4 status Enable/Disable (1/0) D: Tax 3 status Enable/Disable (1/0) E: Tax 2 status Enable/Disable (1/0) F: Tax 1 status Enable/Disable (1/0)	Job# 2011
8	TEXT	(Character Keys) → [SBTL] 8 or 16 characters depending upon programming	Job# 2014

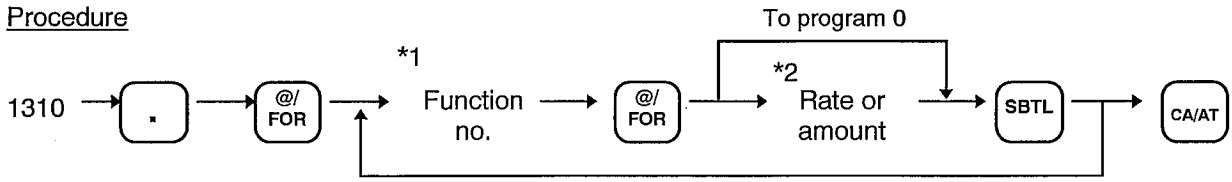
9	PRINT STATION	(ABCD) → [SBTL] A: Follow the last entered Dept. Yes/No (1/0) B: RP1 number (1 to 9, 0: no output) C: RP2 number (1 to 9, 0: no output) D: Chit Receipt Enable/Disable (1/0)	Job# 2018
10	CONTROL CHARACTER	(0 to 255) → [SBTL]	Job# 2058
11	DEPT & TYPE	At this point you have two choices 1. Enter another UPC no. and depress [@/FOR] key. (Same as step no. 2) 2. Depress the [CA/AT] key to finalize the programming. → [CA/AT]	

Note: Depress [@/FOR] to skip to the next step and keep the existing value, instead of [SBTL]
Depress [CL] to back up to the last step and keep the existing value. You can program the guide messages via Job# 2644.

8. Programming for miscellaneous key

(1) Programming percentage rates and deduction amounts (PGM 1 or PGM 2 mode)

Procedure



Function no.	Function	Entry Range	Notes
1 2 3 4	(-) 1 (-) 2 (-) 3 (-) 4	0 to 9999.99	(-) Unit Price (also called deduction amount)
5 6 7 8	% 1 % 2 % 3 % 4	0 to 100.00	% Rate
76 77 78	Conv 1 Conv 2 Conv 3	0 to 9999.9999	Rate (The Conv 4 key is provided only for manual rate entry)
103	Tip (Tip in)	0 to 100.00	Rate
65	Gratuity	0 to 100.00	Rate

Note: You must use the [•] key to enter the fractional part of the rate.

Example: Assigning $10.00 to the [θ1] key and 10.25% to the [%1] key.

Key operation

1310 [•] [@/FOR]
1 [@/FOR] 1000 [SBTL]
5 [@/FOR] 10 [•] 25 [SBTL]
[CA/AT]

Print

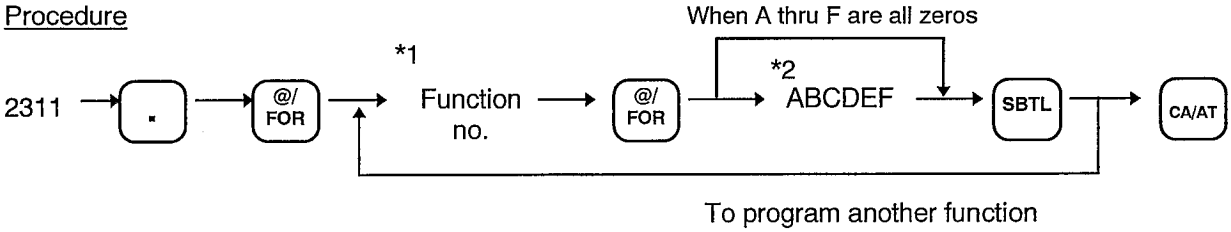
```
#1310 * P G M 2 *

F 001   ( - ) 1
S                -10.00
                    L17
F 005   % 1
S                -10.25%
                L100.00%
```

(2) Sign and tax status (PGM 2 mode)

- +/- sign: Programming the + assignment constitutes a premium/service charge function; while programming the - assignment constitutes a discount function.
- Food Stamp Status: Assign a food stamp status to each function as eligible or ineligible.
- Tax Status: Assign a tax status to each function; taxable 1, taxable 2, taxable 3, taxable 4 as enabled or disabled.

Note: Tax 4 is prohibited if you use the food stamp function.

Procedure



*1: Function no.

1: For the -1 key	5: For the %1 key
2: For the -2 key	6: For the %2 key
3: For the -3 key	7: For the %3 key
4: For the -4 key	8: For the %4 key
63: For the Gratuity key	

*2: Status

A: Sign	+/-	1/0
B: Food Stamp	Eligible/Ineligible	1/0
C: Tax 4 status	Enable/Disable	1/0
D: Tax 3 status	Enable/Disable	1/0
E: Tax 2 status	Enable/Disable	1/0
F: Tax 1 status	Enable/Disable	1/0

Note 1: Tax 4 is prohibited if the food stamp function is enabled.
Note 2: Food stamp status cannot be programmed for the gratuity.

Example: Assign the "-" sign and "taxable 1" to the [%1] key while "-" sign and "food stamp eligible" to the [θ1] key.

Key operation

2311 [•] [@/FOR]
5 [@/FOR] 100001 [SBTL]
1 [@/FOR] 110000 [SBTL]
[CA/AT]

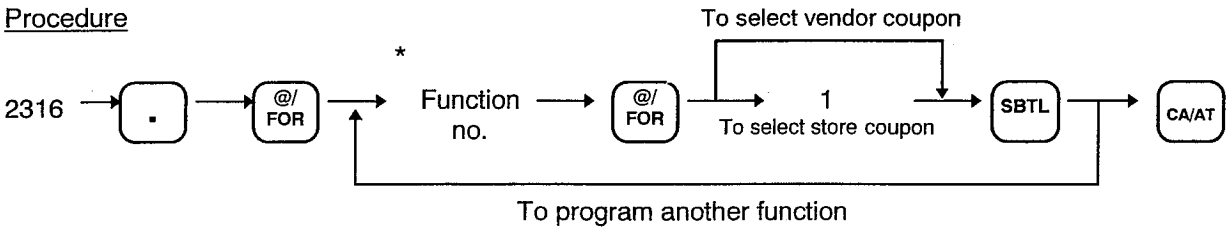
Print

```
#2311 * P G M 2 *

F 005   % 1
S                -10.25%
                 L100.00%
F 001   ( - ) 1
I                  -10.00
       F              L17
```

(3) Vendor or store (Total sale or Item) coupon selection (PGM2 mode)

- Store (Item): Select this when a coupon selection is to be made for the department and PLU.
- Vendor (Total sale): Select this when a coupon selection is to be made for the merchandise subtotal.

Procedure



* Function no.
  1: For the θ1 key
  2: For the θ2 key
  3: For the θ3 key
  4: For the θ4 key

Example: Programming the θ1 for store coupon selection.

Key operation

2316 . @/FOR
1 @/FOR 1 SBTL
CA/AT

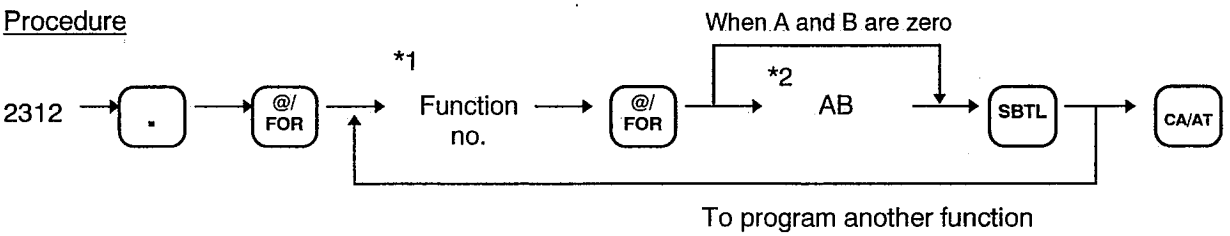
Print

```
#2316 * P G M 2 *

F 001   ( - ) 1
I                -10.00
        F            L17
```

(4) Limit amount entry (HALO) programming for function keys (PGM 2 mode)

The limit is in effect for the REG mode operations but can be overridden in the MGR mode. The HALO is represented by two figures: the Mantissa (first digit of amount limit) and the Exponent (number of zeros in amount limit).

Procedure



*1: Function no.

1: For the -1 key
2: For the -2 key
3: For the -3 key
4: For the -4 key
32: For the TAX key
70: For the RA key
71: For the PO key
72: For the PO2 key
103: For the TIP (Tip In) key

*2: HALO

AB is the same as A x 10^B
A: Mantissa (first digit of amount limit) 0 to 9
B: Exponent (number of zeros in amount limit)
0 thru 7 for -1 thru -4, TAX and TIP keys
0 thru 8 for RA, PO and PO2 keys

Note: AB = 17 for no limitation for -1 thru -4, TAX and TIP keys.
AB = 18 for no limitation for RA, PO and PO2 keys.

Example: Programming $10.00 (13) limit for the θ1 key.

Key operation

2312 • @/FOR
1 @/FOR 13 SBTL
CA/AT

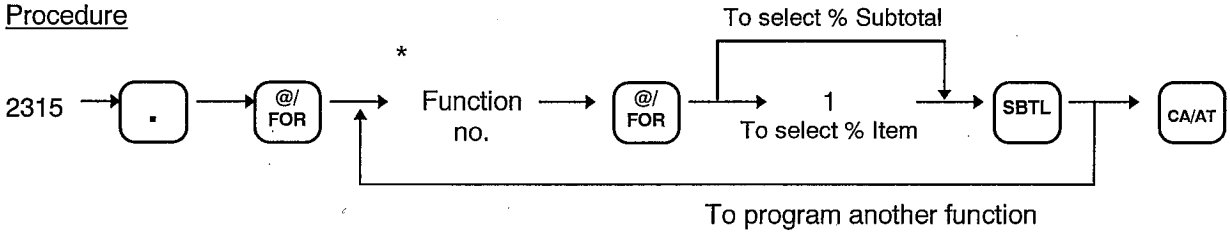
Print

```
#2312 * P G M 2 *

F 001   ( - ) 1
I                -10.00
        F            L13
```

(5) % Item or % Subtotal selection (PGM2 mode)

- % Item: Select this when a percent calculation is to be made for the department and PLU.
- % Subtotal: Select this when a percent calculation is to be made for the merchandise subtotal.

Procedure



* Function no.

5: For the %1 key
6: For the %2 key
7: For the %3 key
8: For the %4 key

Example: Programming the [%1] for store coupon selection.

Key operation

2315 [•] [@/FOR]
5 [@/FOR] 1 [SBTL]
[CA/AT]

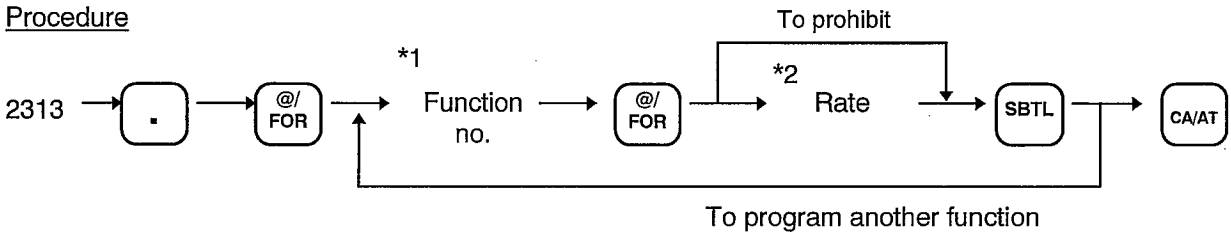
Print

```
#2315 * P G M 2 *

F 005  % 1
I              -10.25%
              L100.00%
```

(6) Limit amount entry programming for % Item or % Subtotal Functions (PGM 2 mode)

The upper limit of percent rates for percent entries.

Procedure



*1: Function no.
- 1: For the %1 key
- 2: For the %2 key
- 3: For the %3 key
- 4: For the %4 key

*2: Rate
- 0.00 to 100.00 (Entering 0.00% inhibits the open percent rate entry.)

Note: You must use the [•] key to enter the fractional part of the rate.

Example: Programming 20.00% for the [%1] key.

Key operation

2313 [•] [@/FOR]
5 [@/FOR] 20 [SBTL]
[CA/AT]

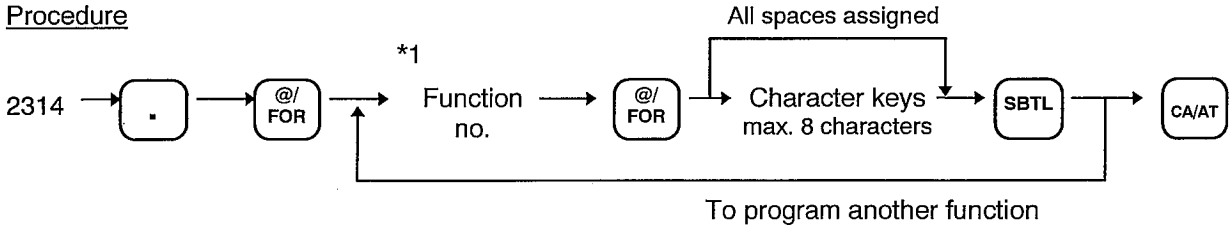
Print

```
#2313 * P G M 2 *

F 005  % 1
I              -10.25%
              L 20.00%
```

(7) Programming alphanumeric characters for Keys and Functions (PGM 2 mode)

You can program a maximum of 8 characters for each function key using the following table. Refer to "Programming key sheet" on page -.

Procedure



Function no.	Key or Function	Default programming
1	θ1	**(-) 1**
2	θ2	**(-) 2**
3	θ3	**(-) 3**
4	θ4	**(-) 4**
5	% 1	**% 1**
6	% 2	**% 2**
7	% 3	**% 3**
8	% 4	**% 4**
9	Net Sales Total	**NET1**
10	Net taxable 1 subtotal	TAX1 ST
11	Gross tax 1 total	GRS TAX1
12	Tax 1 total of Refund entries	RFD TAX1
13	Net tax 1 total	TAX1
14	Taxable 1 exempt total	TX1 EXPT
15	Net taxable 2 subtotal	TAX2 ST
16	Gross tax 2 total	GRS TAX2
17	Tax 2 total of Refund entries	RFD TAX2
18	Net tax 2 total	TAX2
19	Taxable 2 exempt total	TX2 EXPT
20	Net taxable 3 subtotal	TAX3 ST
21	Gross tax 3 total	GRS TAX3
22	Tax 3 total of Refund entries	RFD TAX3
23	Net tax 3 total	TAX3
24	Taxable 3 exempt total	TX3 EXPT
25	Net taxable 3 subtotal	TAX3 ST
26	Gross tax 4 total	GRS TAX4
27	Tax 4 total of Refund entries	RFD TAX4
28	Net tax 4 total	TAX4
29	Taxable 4 exempt total	TX4 EXPT
30	Gross manual tax	GRS MTAX
31	Refund manual tax	RFD MTAX
32	Net manual tax	M-TAX

Function no.	Key or Function	Default programming
36	Tax 1 forgiveness total	FS TX1
37	Tax 2 forgiveness total	FS TX2
38	Tax 3 forgiveness total	FS TX3
39	Tax total	TTL TAX
40	Sales total without tax	**NET**
41	Sales total including tax	**NET2**
42	Coupon like PLU	CP PLU
43	Vendor coupon UPC	V.CP UPC
44	Eat In 1	EAT IN 1
45	Eat In 2	EAT IN 2
46	Eat In 3	EAT IN 3
47	Direct void total	DIR VD
48	Past item void total	PAST VD
49	Subtotal void total	SBTL VD
50	Manager void total	MGR VD
51	Void mode total	**VOID**
52	Refund total	REFUND
53	Hash item direct void total	HASH VD
54	Hash item past item void	HA P.VD
55	Hash item refund total	HASH RF
56	No sale	NO SALE
57	Validation print counter	VP CNT
58	Bill counter	BILL CNT
59	Tray subtotal counter	TRAY CNT
60	Drawer counter	DRW CNT
61	PBAL	***PBAL
62	Service	SERVICE
63	Cover counter	COVER CT
64	Transaction counter	TRANS CT
65	Gratuity	GRATUITY
66	Sales total	**NET3**
67	Cash	**CASH**

68	Cash 2	CASH2
69	Food stamp sale	FSSALE
70	Received on account	***RA
71	Paid out	***PO
72	Paid out 2	***PO2
73	Check cashing	CA/CHK
74	Check change	CHK/CG
75	Food stamp change	FS/CG
76	Currency conversion 1	CONV 1
77	Currency conversion 2	CONV 2
78	Currency conversion 3	CONV 3
79	Currency conversion 4	CONV 4
80	Food stamp in drawer	FS/ID
81	Gross charge 1	CHARGE1
82	Refund charge 1	CHARGE1-
83	Gross charge 2	CHARGE2
84	Refund charge 2	CHARGE2-
85	Gross charge 3	CHARGE3
86	Refund charge 3	CHARGE3-
87	Gross charge 4	CHARGE4
88	Refund charge 4	CHARGE4-
89	Gross charge 5	CHARGE5
90	Refund charge 5	CHARGE5-
91	Gross charge 6	CHARGE6
92	Refund charge 6	CHARGE6-
93	Gross charge 7	CHARGE7
94	Refund charge 7	CHARGE7-
95	Gross charge 8	CHARGE8
96	Refund charge 8	CHARGE8-
97	Check	CHECK
98	Cash and check in drawer	CA+CK ID
99	Cash in drawer	****CID
100	Deposit	DEPOSIT
101	Deposit Refund	DPST RF
102	Tip Paid	TIP PAID
103	Tip In	TIP IN
104	Server group 1	GROUP 1
105	Server group 2	GROUP 2
106	Server group 3	GROUP 3
107	Server group 4	GROUP 4
108	Server group 5	GROUP 5
109	Server group 6	GROUP 6
110	Server group 7	GROUP 7
111	Server group 8	GROUP 8
112	Server group 9	GROUP 9

113	Group 1	DPT GP-1
114	Group 2	DPT GP-2
115	Group 3	DPT GP-3
116	Group 4	DPT GP-4
117	Group 5	DPT GP-5
118	Group 6	DPT GP-6
119	Group 7	DPT GP-7
120	Group 8	DPT GP-8
121	Group 9	DPT GP-9
122	Price level shift 1 for PLU	LEVEL 1
123	Price level shift 2 for PLU	LEVEL 2
124	Price level shift 3 for PLU	LEVEL 3
125	Price level shift 4 for PLU	LEVEL 4
126	Price level shift 5 for PLU	LEVEL 5
127	Price level shift 1 for UPC	UPC LV-1
128	Price level shift 2 for UPC	UPC LV-2
129	Price level shift 3 for UPC	UPC LV-3
130	Price level shift 4 for UPC	UPC LV-4
131	Price level shift 5 for UPC	UPC LV-5
132	Price level shift 6 for UPC	UPC LV-6
133	(+) Department total	*DEPT TL
134	(-) Department total	DEPT(-)
135	Hash (+) department total	*HASH TL
136	Hash (-) department total	HASH (-)
137	Bottle Return (+) dept. total	*BTTL TL
138	Bottle Return (-) dept. total	BTTL (-)
139	Subtotal	SUBTOTAL
140	Merchandise subtotal	MDSE ST
141	Total	***TOTAL
142	Change	CHANGE
143	Due	DUE
144	Tip Due	TIP DUE
145	Tray total	TRAY TL
146	Food stamp subtotal	FS ST
147	Food stamp tender	FS TEND
148	Food stamp change	FS CG
149	Items	ITEMS
150	Balance	BALANCE
151	Copy receipt title	**COPY**
152	Bill total title	**B.T.**
153	Slip print message	SLIP PR.
154	Final balance	FIN. BAL
155	Final	FINAL
156	Balance forward	BAL FWD
157	Closed check	CLOSE CK

158	Open check	OPEN CK
159	Percent of Net sales	(%) SALES
160	New code	NEWCODE
161	Price change	PR CHNG
162	Remained charge	CHARGE
163	PLU Group 01	PLU GR01
164	PLU Group 02	PLU GR02
165	PLU Group 03	PLU GR03
166	PLU Group 04	PLU GR04
167	PLU Group 05	PLU GR05
168	PLU Group 06	PLU GR06
169	PLU Group 07	PLU GR07
170	PLU Group 08	PLU GR08
171	PLU Group 09	PLU GR09
172	PLU Group 10	PLU GR10
173	PLU Group 11	PLU GR11
174	PLU Group 12	PLU GR12
175	PLU Group 13	PLU GR13
176	PLU Group 14	PLU GR14
177	PLU Group 15	PLU GR15
178	PLU Group 16	PLU GR16
179	PLU Group 17	PLU GR17
180	PLU Group 18	PLU GR18
181	PLU Group 19	PLU GR19
182	PLU Group 20	PLU GR20
183	PLU Group 21	PLU GR21
184	PLU Group 22	PLU GR22
185	PLU Group 23	PLU GR23
186	PLU Group 24	PLU GR24
187	PLU Group 25	PLU GR25
188	PLU Group 26	PLU GR26
189	PLU Group 27	PLU GR27
190	PLU Group 28	PLU GR28
191	PLU Group 29	PLU GR29
192	PLU Group 30	PLU GR30
193	PLU Group 31	PLU GR31
194	PLU Group 32	PLU GR32
195	PLU Group 33	PLU GR33
196	PLU Group 34	PLU GR34
197	PLU Group 35	PLU GR35
198	PLU Group 36	PLU GR36
199	PLU Group 37	PLU GR37
200	PLU Group 38	PLU GR38
201	PLU Group 39	PLU GR39
202	PLU Group 40	PLU GR40

203	PLU Group 41	PLU GR41
204	PLU Group 42	PLU GR42
205	PLU Group 43	PLU GR43
206	PLU Group 44	PLU GR44
207	PLU Group 45	PLU GR45
208	PLU Group 46	PLU GR46
209	PLU Group 47	PLU GR47
210	PLU Group 48	PLU GR48
211	PLU Group 49	PLU GR49
212	PLU Group 50	PLU GR50
213	PLU Group 51	PLU GR51
214	PLU Group 52	PLU GR52
215	PLU Group 53	PLU GR53
216	PLU Group 54	PLU GR54
217	PLU Group 55	PLU GR55
218	PLU Group 56	PLU GR56
219	PLU Group 57	PLU GR57
220	PLU Group 58	PLU GR58
221	PLU Group 59	PLU GR59
222	PLU Group 60	PLU GR60
223	PLU Group 61	PLU GR61
224	PLU Group 62	PLU GR62
225	PLU Group 63	PLU GR63
226	PLU Group 64	PLU GR64
227	PLU Group 65	PLU GR65
228	PLU Group 66	PLU GR66
229	PLU Group 67	PLU GR67
230	PLU Group 68	PLU GR68
231	PLU Group 69	PLU GR69
232	PLU Group 70	PLU GR70
233	PLU Group 71	PLU GR71
234	PLU Group 72	PLU GR72
235	PLU Group 73	PLU GR73
236	PLU Group 74	PLU GR74
237	PLU Group 75	PLU GR75
238	PLU Group 76	PLU GR76
239	PLU Group 77	PLU GR77
240	PLU Group 78	PLU GR78
241	PLU Group 79	PLU GR79
242	PLU Group 80	PLU GR80
243	PLU Group 81	PLU GR81
244	PLU Group 82	PLU GR82
245	PLU Group 83	PLU GR83
246	PLU Group 84	PLU GR84
247	PLU Group 85	PLU GR85

248	PLU Group 86	PLU GR86
249	PLU Group 87	PLU GR87
250	PLU Group 88	PLU GR88
251	PLU Group 89	PLU GR89
252	PLU Group 90	PLU GR90
253	PLU Group 91	PLU GR91
254	PLU Group 92	PLU GR92

255	PLU Group 93	PLU GR93
256	PLU Group 94	PLU GR94
257	PLU Group 95	PLU GR95
258	PLU Group 96	PLU GR96
259	PLU Group 97	PLU GR97
260	PLU Group 98	PLU GR98
261	PLU Group 99	PLU GR99

Example: Programming VISA for the [CH1] key with "V" being double size.

Key operation

2314 [•] [@/FOR]
81 [@/FOR]
[DC] VISA [SBTL]
[CA/AT]

Print

```
#2314 * P G M 2 *

F 081  V ISA
              KP000  L18
      00000000000000000
```

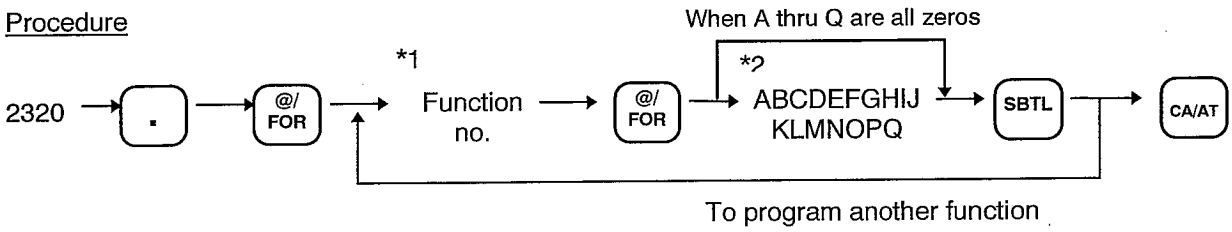
9. Programming media keys

(1) Functional programming for media keys (PGM2 mode)

Several functional selections are available for each media key as follows:

1) GLU (Guest Look Up)/PBLU (Previous Balance Look Up) entry compulsory/inhibited/allowed
2) Short amount tender or Under tendering disallowed/allowed
3) CAT3 compulsory/CAT2 compulsory/CAT1 compulsory/non-compulsory
   - You can enforce a CAT entry when a media is selected.
4) Method of retention on the closed guest check file.
   - Retained/Not retained
5) Bill (Slip) Printing compulsory/non-compulsory
6) Footer print on receipt yes/no
   - This programming decides whether or not your machine should print a message at the foot of a receipt when the specified media is used.
7) Non-add code entry compulsory/non-compulsory
   - You can enforce the non-add code entry when a media key is accepted.
8) Change due disable/enable
   - You can select whether over tendering is allowed per media.
9) Compulsory validation print
   - You can force a validation print when a media entry is accepted.
10) Tax calculation status delete/calculate
11) Drawer open no/yes
   - You can program each media key whether or not to open drawer.
12) Entry of amount tendered compulsory/non-compulsory

Procedure



*1: Function no.

67: For the CA key	81: For the CH1 key
68: For the CA2 key	83: For the CH2 key
97: For the CHK key	85: For the CH3 key
69: For the FS SALE key	87: For the CH4 key
62: For the SERVICE key	89: For the CH5 key
155: For the FINAL key	91: For the CH6 key
44: For the EAT IN 1 key	93: For the CH7 key
45: For the EAT IN 2 key	95: For the CH8 key
46: For the EAT IN 3 key	

*2: Status

A: GLU/PBLU entry	Compulsory/inhibited/allowed	2/1/0
B: Under tendering	Disallowed/allowed	1/0
C: (not used)		0
D: (not used)		0
E: CAT entry		
CAT1 compulsory/CAT2 compulsory/CAT1 compulsory/non-compulsory		3/2/1/0
F: Closed check retention	Retained/not retained	1/0
G: Bill (slip) printing	Compulsory/non-compulsory	1/0
H: Footer print on receipt	Enable/disable	
I: Non-add code entry	Compulsory/non-compulsory	1/0
J: Over tendering	Disallowed/allowed	1/0
K: Validation print	Compulsory/non-compulsory	1/0
L: Tax 4 calculation status	Delete/calculate	1/0
M: Tax 3 calculation status	Delete/calculate	1/0
N: Tax 2 calculation status	Delete/calculate	1/0
O: Tax 1 calculation status	Delete/calculate	1/0
P: Drawer open	Remain closed/Open	1/0
Q: Entry of amount tendered		
compulsory/non-compulsory (CASH, CASH2 and CHECK)		1/0
compulsory/inhibit (CHARGE1 to CHARGE8)		1/0

Example: Programming compulsory amount tendered for the CHK key.

Key operation

2320 . @/FOR
97 @/FOR 1 SBTL
CA/AT

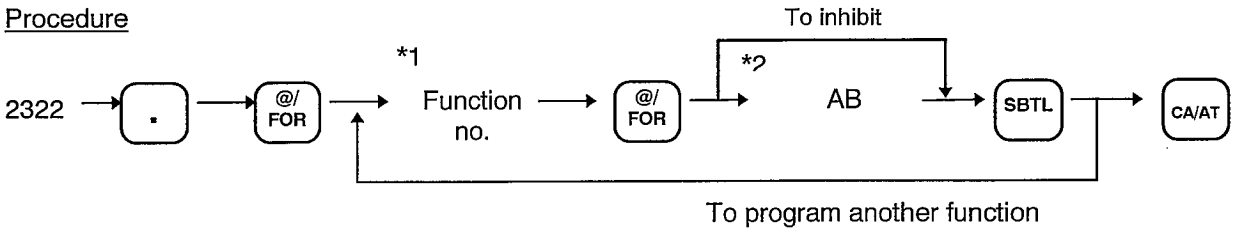
Print

```
#2320 * P G M 2 *

F 097 CHECK
              KP000  L18
      00000000000000001
```

(2) High amount lockout (HALO) of entry for media keys

The limit is in effect for the REG mode operations but can be overridden in the MGR mode.

Procedure



*1: Function no.

67: For the CA key
68: For the CA2 key
97: For the CHK key
81: For the CH1 key
83: For the CH2 key
85: For the CH3 key
87: For the CH4 key
89: For the CH5 key
91: For the CH6 key
93: For the CH7 key
95: For the CH8 key

*2: HALO

AB is the same as A x 10^B
A: Mantissa (first digit of amount limit) 0 to 9
B: Exponent (number of zeros in amount limit) 0 to 8
Programming AB = 18 for no limitation

Example: Programming the HALO limit to $1000.00 for the CHK key.

Key operation

2322 . @/FOR
97 @/FOR 15 SBTL
CA/AT

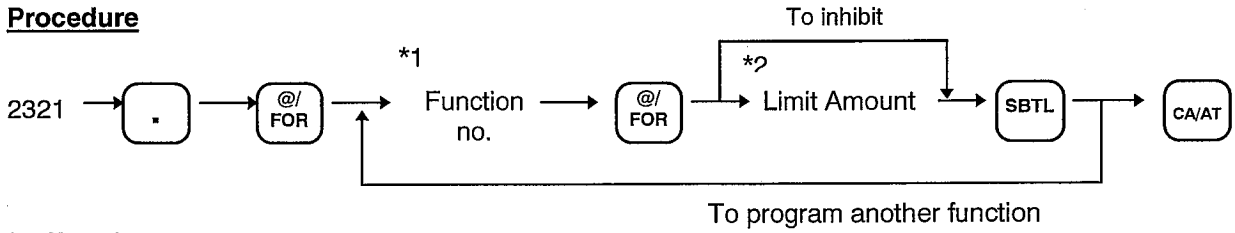
Print

```
#2322 * P G M 2 *

F 097 CHECK
              KP000  L15
      00000000000000001
```

(3) High amount lockout (HALO) for check change, check cashing, and cash in drawer (PGM2 mode)

You can program the upper limit amounts for check change, check cashing, and cash in drawer (CID)/sentinel.

Procedure



*1: Function no.

99: For cash in drawer (sentinel amount)
74: For check cashing
73: For check change

*2: Limit amount
0 thru 999999.99 for Check cashing or check change
0 thru 9999999.99 for Cash in drawer

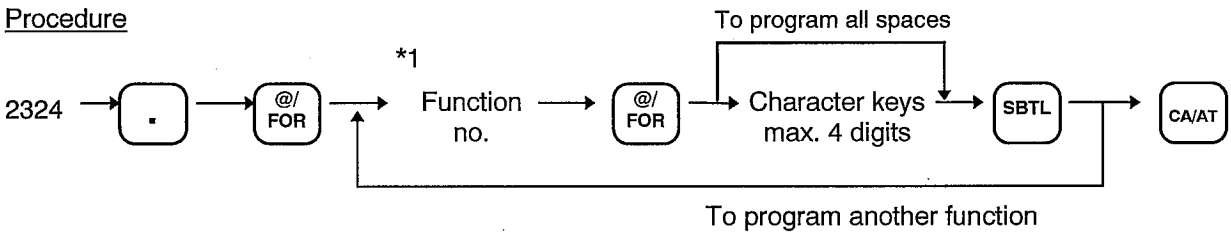
Example: Programming the limit to $99.99 for check change.

Key operation	Print
2321 [•] [@/FOR] 73 [@/FOR] 99.99 [SBTL] [CA/AT]	#2321 * P G M 2 * F 073 CA/CHK 99.99

(4) Programming of the currency descriptor (PGM2 mode)

You can program a maximum of 4 characters for each currency conversion key (1 to 4). Refer to "Programming key sheets" on pages 7 and 8.

Procedure



*1: Function no.
76: For the conversion 1
77: For the conversion 2
78: For the conversion 3
79: For the conversion 4

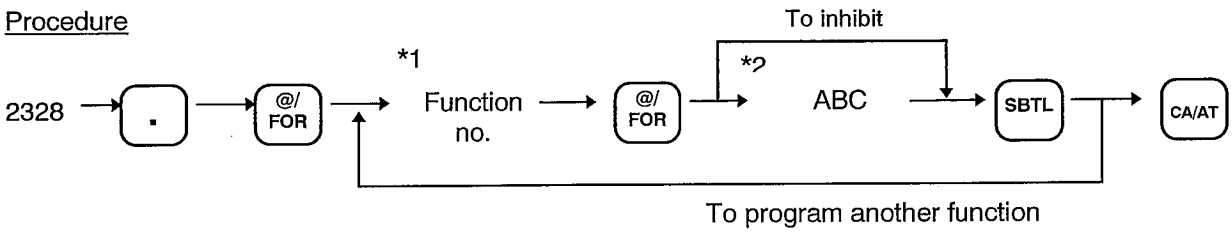
Example: Programming the conversion 1 key for "PESO".

Key operation	Print
2324 [•] [@/FOR] 76 [@/FOR] PESO [SBTL] [CA/AT]	#2324 * P G M 2 * F 097 CONV 1 0.0000 PESO

(5) Assigning print stations to functions (PGM2 mode)

It is possible to print function information at selected printer locations.

Procedure



*1: Function no.

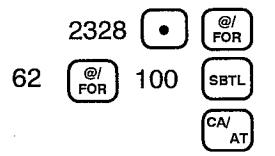
67: For the CA key	87: For the CH4 key
68: For the CA2 key	89: For the CH5 key
97: For the CHK key	91: For the CH6 key
81: For the CH1 key	93: For the CH7 key
83: For the CH2 key	95: For the CH8 key
85: For the CH3 key	69: For the FS Sale key
62: For the SERVICE key	155: For the FINAL key

*2: ABC

A: In-line remote printer #1	(1 to 9) (0 for no output)
B: In-line remote printer #2	(1 to 9) (0 for no output)
C: Printing on terminal receipt printer (chit receipt)	Enable/Disable 1/0

Example: Programming SERVICE key to print on remote printer #1 and no chit receipt.

Key operation



Print

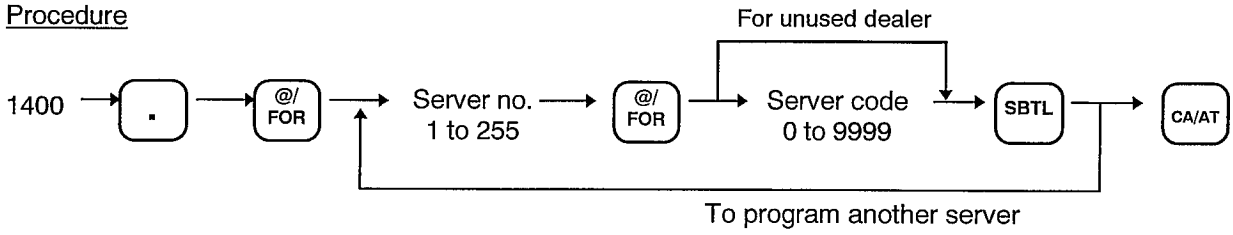
```
#2328 * P G M 2 *

F 062 CHECK
            KP100
     00000000000000000
```

10. Server programming

(1) Programming of Server codes (PGM 1 or PGM 2 mode)

You can assign a server code to each server. The server file can be increased to a maximum of 255 server. See your dealer for details.

Procedure



Example: Programming a server code of 10 for server 1 and a server code of 20 for server 2.

Key operation

1400 . @/FOR
1 @/FOR 10 SBTL
2 @/FOR 20 SBTL
CA/AT

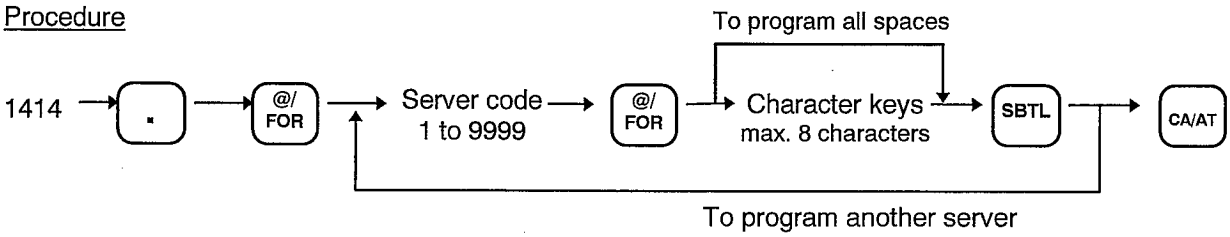
Print

```
#1400 * P G M 2 *

001S#0 0 1 0 SERV.001
0000001-9999999
   0.00%      000000D1
002S#0 0 2 0 SERV.002
0000001-9999999
   0.00%      000000D1
```

(2) Server name (PGM1 or PGM2 mode)

You can program a maximum of 8 characters for each server name. Refer to "Programming key sheets" on pages 7 and 8.

Procedure



Example: Programming "PATTY" for server code 10 (server no. 1 from previous example).

Key operation

1414 . @/FOR
10 @/FOR PATTY SBTL
CA/AT

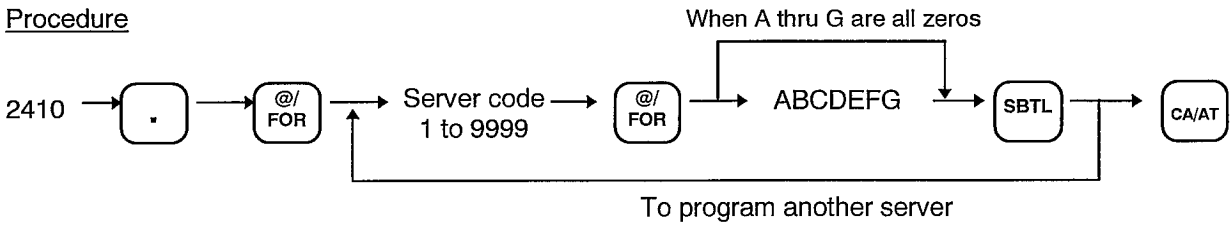
Print

```
#1414 * P G M 2 *

001S#0 0 1 0 PATTY
0000001-9999999
   0.00%      000000D1
```

(3) Server functional programming (PGM2 mode)

Each server can be required to perform a GLU/PBLU function. Each server can also be assigned a Drawer number. The drawer number can be overridden, see operation section.

Procedure



A: Always enter 0		0
B: GLU/PBLU entry	compulsory/non-compulsory	1/0
C: Always enter 0		0
D: Always enter 0		0
E: Always enter 0		0
F: Always enter 0		0
G: Drawer no. (1 to 4/ 0 for remain closed)		1-4/0

Example: Programming server code 10 (server no. 1) for compulsory GLU/PBLU and drawer 2.

Key operation

2410 . @/FOR
10 @/FOR 100002 SBTL
CA/AT

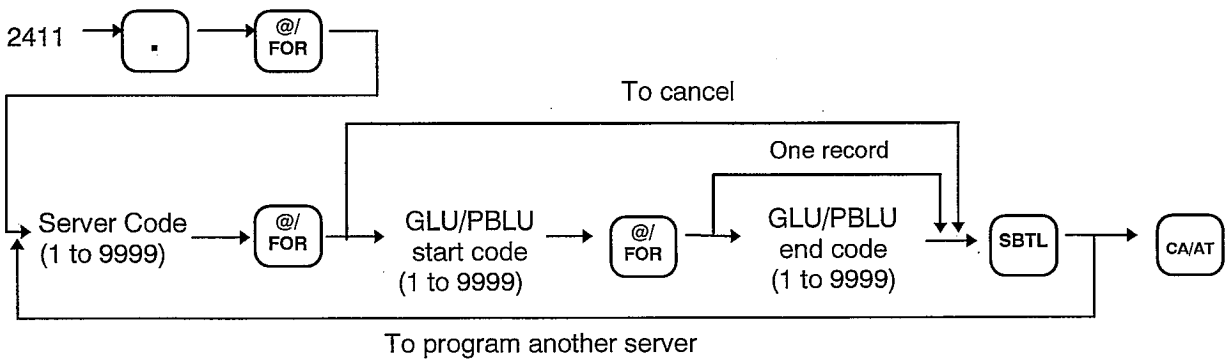
Print

```
#2410 * P G M 2 *

001S#0 0 1 0 PATTY
0000001-9999999
   0.00%      010000D2
```

(4) Programming of guest check (GLU/PBLU) codes (PGM2 mode)

This programming is invalid if the system is set to automatically generate the guest check number. See your dealer for more information.

Procedure



Example: Programming server code 10 (server no. 1) for a GLU/PBLU code range 1 to 10.

Key operation

2411 [•] [@/FOR]
10 [@/FOR]
1 [@/FOR]
10 [SBTL]
[CA/AT]

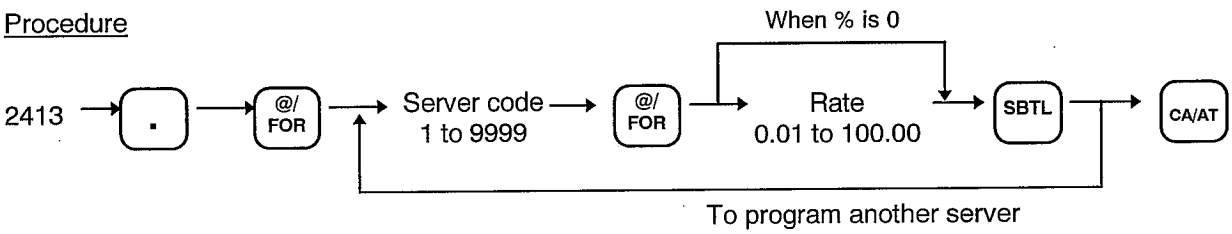
Print

```
#2411 * P G M 2 *

001S#0 0 1 0 PATTY
0000001-0000010
   0.00%      010000D2
```

(5) Server net sales percent rate on server reports (PGM2 mode)

You can program each server to report a different percentage of sales on the server reports. See example Server report.

Procedure



Note: You must use the [•] key to enter the fractional part of the rate.

Example: Programming server code 10 (server no. 1) for 8% net sales percentage.

Key operation

2413 [•] [@/FOR]
10 [@/FOR] 8 [SBTL]
[CA/AT]

Print

```
#2413 * P G M 2 *

001S#0 0 1 0 PATTY
0000001-0000010
   8.00%      010000D2
```

11. Programming of print messages

Your register has the ability to program multiple messages. Each message serves a different purpose and can be programmed individually.

(1) Receipt printer logo message (PGM2 mode)

The default settings provide stamping only, with the following message:

YOUR RECEIPT

THANK YOU

Your stamp can be changed to your own message or art. Contact your dealer for more information.

MID-RANGE SYSTEM SOLUTION

The following four selections are available for the logo message.

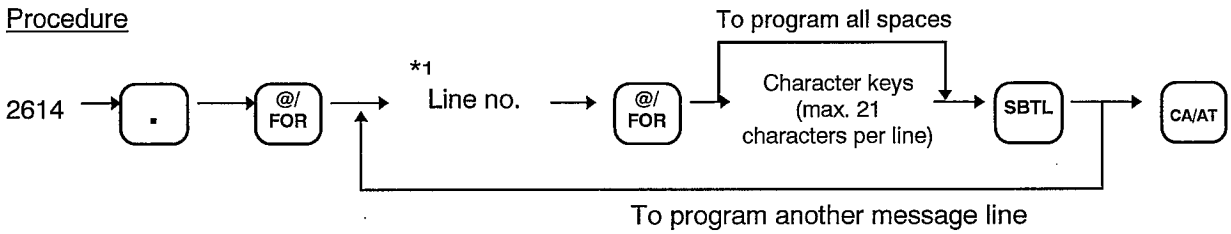
- Stamp only, no message
- 3-line header message
- 6-line header message
- 3-line footer message

Note: Each line can have a maximum of 21 characters.

The default message setting is:

Line 1	**S H A R P**
Line 2	PRESENTS THE
Line 3	**E R - A 5 7 0**
Line 4	**S H A R P**
Line 5	**I S T H E**
Line 6	**B E S T**

Procedure



*1: Line number (1 to 6)
For 3-line header program lines 1 thru 3
For 6-line header program lines 1 thru 6
For 3-line footer program lines 4 thru 6

Example: Programming a 3-line header for

SHARP CAFETERIA
TOMORROW'S SPECIAL:
FRENCH BREAD PIZZA

Key operation

2614 . @/FOR
1 @/FOR
(SP) (SP) (SP) SHARP (SP)
CAFETERIA SBTL
2 @/FOR
TOMORROW ' S (SP)
SPECIAL : SBTL
3 @/FOR
FRENCH (SP) BREAD (SP)
PIZZA SBTL
CA/AT

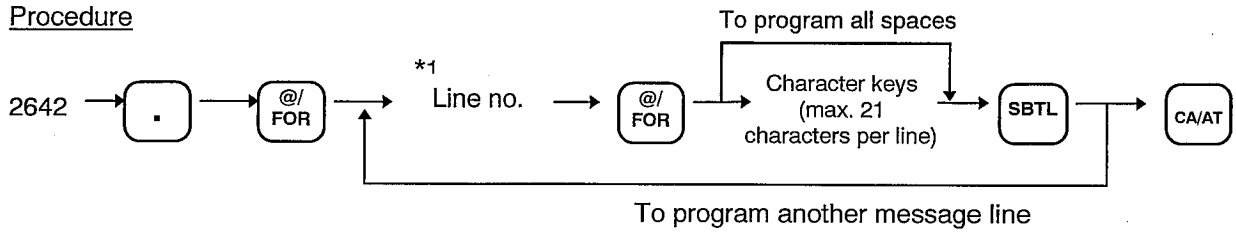
Print

```
#2614 * P G M 2 *

   SHARP CAFETERIA
TOMARROW'S SPECIAL:
FRENCH BREAD PIZZA
```

(2) Check validation message on a slip (PGM2 mode)

A 3-line message for check validation, when using the ER-33SP slip printer only, can be programmed.
Note: Each line can have a maximum of 21 characters.

Procedure

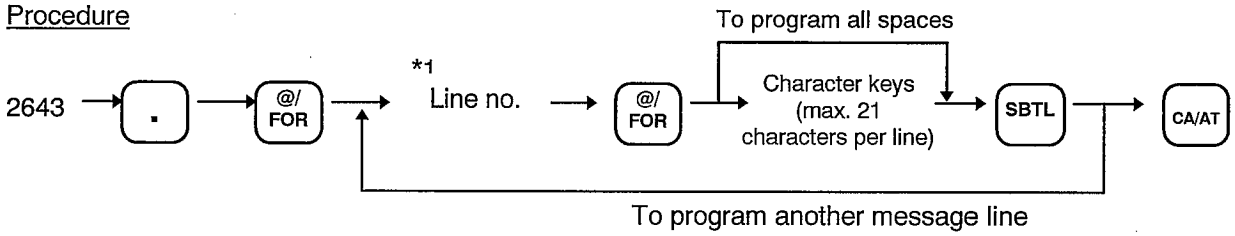


*1: Line number (1 to 3)

(3) Guest check slip printer logo message (PGM2 mode)

A 3-line message for guest checks header, when using the ER-33SP slip printer only, can be programmed.
Note: Each line can have a maximum of 21 characters.

Procedure



*1: Line number (1 to 3)

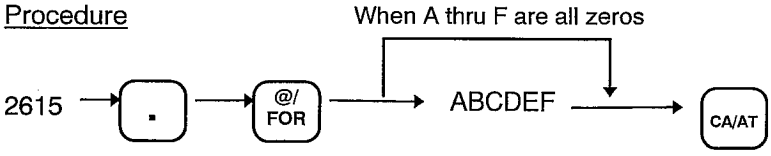
(4) Setting print parameters for slip, validation and tray subtotal printing (PGM2 mode)

Several printing parameters need to be programmed.

- Slip initial feed lines (0 - 64 lines)
- Maximum number of slip print lines (0 - 99 lines)
- Number of times for validation printing (1 - 9 times)
- Number of feed lines after tray subtotal printing (0 - 9 lines)

Note: Service settings may be required. Contact your local dealer.

Procedure



AB: Slip print initial feed lines (0 - 64 lines)
CD: Maximum number of slip print lines (0 - 99 lines)
E: Number of times to validation print (1 - 9 times)
To inhibit validation printing, enter 0.
F: Number of line feeds after printing of a tray subtotal (0 - 9 lines)

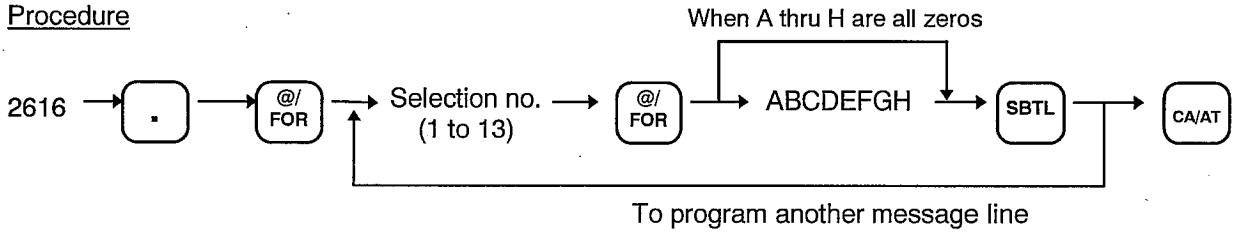
Example: Programming AB = 00, CD = 00, E= 1, F=2

Key operation	Print
2615 [•] [@/FOR]	#2615 * P G M 2 *
12 [CA/AT]	00 00 1 2

12. Programming for optional feature selections (PGM2 mode)

Multiple optional features settings are available. Several of the areas which require selections are reports, which features are under manager control, level shifting, tip system, validation controls, customer management controls, as well as many other areas.
For more information contact your dealer.

Procedure



Selection 1

A: OP X/Z mode availability	Disable/Enable	1/0
To allow Operator X/Z reports, enter 0		
To disallow Operator X/Z reports, enter 1		
B: PO operation in REG mode	Disable/Enable	1/0
To allow the PAID OUT operation in the REG mode, enter 0		
To disallow the PAID OUT operation in the REG mode, enter 1		
C: Not used		0
D: REFUND and RETURN key entry in REG mode	Disable/Enable	1/0
To allow REFUND and RETURN key depression in the REG mode, enter 0		
To disallow REFUND and RETURN key depression in the REG mode, enter 1		
E: DIRECT VOID function in REG mode	Disable/Enable	1/0
To allow DIRECT VOID in REG mode, enter 0		
To disallow DIRECT VOID in REG mode, enter 1		
F: INDIRECT VOID in REG mode	Disable/Enable	1/0
To allow INDIRECT VOID in REG mode, enter 0		
To disallow INDIRECT VOID in REG mode, enter 1		
G: SUBTOTAL VOID in REG mode	Disable/Enable	1/0
To allow SUBTOTAL VOID in REG mode, enter 0		
To disallow SUBTOTAL VOID in REG mode, enter 1		
H: REFUND or RETURN VP compulsory	Compulsory/Non-compulsory	1/0
To select validation non-compulsory when the REFUND or RETURN keys are used, enter 0		
To select validation compulsory when the REFUND or RETURN keys are used, enter 1		

Selection 2

A: First item past item void availability	Disable/Enable	1/0
To allow past item voiding of the first item rung, enter 0		
To disallow past item voiding of the first item rung, enter 1		
B: PLU level shift system	Manual/Auto	1/0
To select automatic level return, enter 0		
To select manual level shifting, enter 1		
C: PLU level shift system	MGR/MGR & REG	1/0
To allow PLU level shifting in MRG and REG modes, enter 0		
To allow PLU level shifting in MGR mode only, enter 1		
D: Printing of the number of purchases	Yes/No	1/0
To disallow the printing of the number of items purchased in a sale, enter 0		
To allow the printing of the number of items purchased in a sale, enter 1		
E: Time print	No/Yes	1/0
To disallow the printing of the time of the transaction, enter 0		
To allow the printing of the time of the transaction, enter 1		
F: Journal select	Summary/Detail	1/0
To select detail journal printing (all items rung, corrections, and total), enter 0		
To select summary journal printing (corrections and totals), enter 1		
G: Item validation	Disable/Enable	1/0
To allow item validation, enter 0		
To disallow item validation, enter 1		
H: Coupon validation	Compulsory/Non-compulsory	1/0
To select validation non-compulsory when a coupon is used, enter 0		
To select validation compulsory when a coupon is used, enter 1		

Selection 3

A: Zero skip in UPC report	No/Yes	1/0
To select suppression of zero fields on the UPC reports, enter 0		
To select non-suppression of zero fields on the UPC reports, enter 1		
B: Zero skip in server report	No/Yes	1/0
To select suppression of zero fields on the server reports, enter 0		
To select non-suppression of zero fields on the server reports, enter 1		
C: Not used		0
D: Zero skip in transaction report	No/Yes	1/0
To select suppression of zero fields on the transaction reports, enter 0		
To select non-suppression of zero fields on the transaction reports, enter 1		
E: Zero skip in Department report	No/Yes	1/0
To select suppression of zero fields on the department reports, enter 0		
To select non-suppression of zero fields on the department reports, enter 1		
F: Zero skip in PLU report	No/Yes	1/0
To select suppression of zero fields on the PLU reports, enter 0		
To select non-suppression of zero fields on the PLU reports, enter 1		
G: Zero skip in Hourly report	No/Yes	1/0
To select suppression of zero fields on the hourly reports, enter 0		
To select non-suppression of zero fields on the hourly reports, enter 1		
H: Zero skip in Daily net report	No/Yes	1/0
To select suppression of zero fields on the daily net reports, enter 0		
To select non-suppression of zero fields on the daily net reports, enter 1		

Selection 4

A: Share % printing in department report	No/Yes	1/0
To allow share % printing in the department report, enter 0		
To disallow share % printing in the department report, enter 1		
B: Tip entry method	Fixed rate entry/Amount entry	1/0
To select amount enter tip method, enter 0		
To select fixed rate tip method, enter 1		

C: Not used 0
D: Not used 0
E: Not used 0
F: Cover count entry Compulsory/Non-compulsory 1/0
To select cover count entry as non-compulsory, enter 0
To select cover count entry as compulsory, enter 1
G: Table number entry Compulsory/Inhibit 1/0
To select table number entry as inhibited, enter 0
To select table number entry as compulsory, enter 1
H: When to return to PLU level 1 when PLU level shifting is set for Auto
By transaction/By item 1/0
To return to PLU level 1 after item entry, enter 0
To return to PLU level 1 after transaction, enter 1

Selection 5
A: Not used 0
B: Not used 0
C: Not used 0
D: Not used 0
E: PLU price shift system By server/By shift key 1/0
To select PLU price shifting by shift key, enter 0
To select PLU price shifting by server, enter 1
F: PLU price shift system MGR/MGR & REG 1/0
To allow PLU level shifting in MGR and REG modes, enter 0
To allow PLU level shifting in MGR mode only, enter 1
G: PLU price shift system Manual/Auto 1/0
To select automatic level return, enter 0
To select manual level shifting, enter 1
H: When to return to PLU price level 1 when PLU level shifting is set for Auto
By transaction/By item 1/0
To return to PLU price level 1 after item entry, enter 0
To return to PLU price level 1 after transaction, enter 1

Selection 6
Not used enter all zeros

Selection 7
A: Void mode entry MGR/MGR & REG 1/0
To allow Void mode in MGR & REG mode, enter 0
To allow Void mode in MGR mode only, enter 1
B: Coupon entry MGR/MGR & REG 1/0
To allow Coupon key depression in MGR & REG mode, enter 0
To allow Coupon key depression in MGR mode only, enter 1
C: No sale entry MGR/MGR & REG 1/0
To allow No sale key depression in MGR & REG mode, enter 0
To allow No sale key depression in MGR mode only, enter 1
D: Finalization of transaction when subtotal is zero MGR/MGR & REG 1/0
To allow finalization of a transaction when the subtotal is zero in MGR & REG mode, enter 0
To allow finalization of a transaction when the subtotal is zero in MGR mode only, enter 1
E: Printing of items in a GLU/PBLU transaction on the slip printer
No/Yes 1/0
To allow items to print on the slip printer in a GLU/PBLU transaction, enter 0
To disallow items from printing on the slip printer in a GLU/PBLU transaction, enter 1
F: Tip Paid operation MGR/MGR & REG 1/0
To allow a tip paid operation in MGR & REG mode, enter 0
To allow a tip paid operation in MGR mode only, enter 1
G: Not used 0
H: Not used 0

Selection 8
A: Not used 0
B: Not used 0
C: Not used 0
D: Not used 0
E: Check cashing validation Compulsory/Non-compulsory 1/0
To select validation non-compulsory when a check cashing operation is performed, enter 0
To select validation compulsory when a check cashing operation is performed, enter 1
F: RA validation Compulsory/Non-compulsory 1/0
To select validation non-compulsory after a Received on account transaction, enter 0
To select validation compulsory after a Received on account transaction, enter 1
G: PO validation Compulsory/Non-compulsory 1/0
To select validation non-compulsory after a Paid out transaction, enter 0
To select validation compulsory after a Paid out transaction, enter 1
H: TIP IN and TIP PAID validation Compulsory/Non-compulsory 1/0
To select validation non-compulsory after a TIP IN or TIP PAID transaction, enter 0
To select validation compulsory after a TIP IN or TIP PAID transaction, enter 1

Selection 9
Not used enter all zeros

Selection 10
A: Not used 0
B: Character entry shift key Caps Lock/Shift 1/0
To select Character entry using Shift for Capitol letters, enter 0
To select Character entry with Caps Lock on, enter 1
C: Learning function of EAN entry No/Yes 1/0
To allow Learning function of EAN entry, enter 0
To disallow Learning function of EAN entry, enter 1
D: Not used 0
E: Not used 0
F: Not used 0
G: Not used 0
H: Not used 0

Selection 11
A: Customer data Sales total/Detail 1/0
To select Detail customer data retention, enter 0
To select Sales totals only customer data retention, enter 1
B: Not used 0
C: Not used 0
D: Not used 0
E: Delete method of non-accessed UPC data
Delete key/Delete key and automatically after Z1 1/0
To select delete method of non-accessed UPC data via both the Delete key and Automatically after Z1, enter 0
To select delete method of non-accessed UPC data via Delete key, enter 1
F: Not used 0
G: Not used 0
H: Not used 0

Selection 12
A: Not used 0
B: Not used 0
C: Not used 0

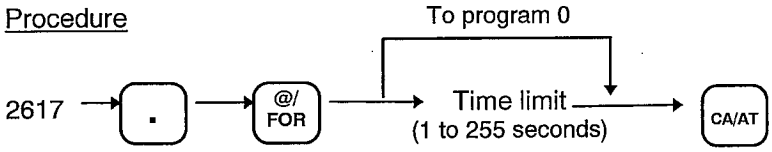
D: Non-payment customer report — Detail/Charge amount only — 1/0
To select Non-payment customer report as Charge amount only, enter 0
To select Non-payment customer report as Full Detail, enter 1
E: Not used — 0
F: Customer code — Free code/EAN with C/D code — 1/0
To allow EAN with check digit code enter as Customer code, enter 0
To allow Free code entry as Customer code, enter 1
G: Opening of customer file during transaction — MGR/MGR & REG — 1/0
To allow opening of new customer during transaction in MGR & REG mode, enter 0
To allow opening of new customer during transaction in MGR mode only, enter 1
H: Price change function — MGR/MGR & REG — 1/0
To allow Price change function in MGR & REG mode, enter 0
To allow Price change function in MGR mode only, enter 1

Selection 13
A: Not used — 0
B: Not used — 0
C: Not used — 0
D: Printing of the price shift level text on receipt /journal — No/Yes — 1/0
To allow price shift level text printing on receipt/journal, enter 0
To disallow price shift level text printing on receipt/journal, enter 1
E: Server drawer assignment — Compulsory/Inhibit — 1/0
To select inhibited Server drawer assignment, enter 0
To select compulsory Server drawer assignment, enter 1
F: Treating the EAN8 code 200 as PLU — No/Yes — 1/0
To allow EAN8 code 200 to be treated as PLU, enter 0
To disallow EAN8 code 200 to be treated as PLU, enter 1
G: Not used — 0
H: Price entry after ISBN or ISSN — Inhibited/Compulsory — 1/0
To select compulsory price entry after ISBN or ISSN entry, enter 0
To select inhibited price entry after ISBN or ISSN entry, enter 1

13. Setting the time limit for the TILL TIMER ™ (PGM2 mode)

The purpose of the TILL TIMER™ is to automatically count how many times the cash drawer is left open beyond a fixed time limit. The time limit for the TILL TIMER™ can be preset for 0 to 255 seconds. The counter is printed on the transaction report, server report, and cashier report.

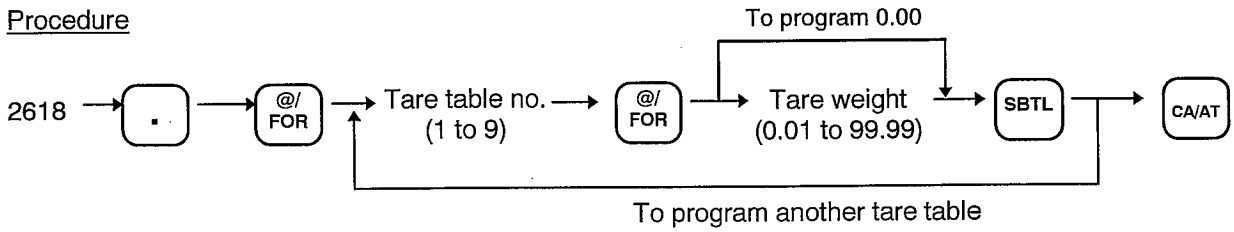
Procedure



14. Scale tare table programming (PGM2 mode)

A tare is a number which corresponds to the weight of a container. The register can be programmed with up to nine tare tables for auto scale entries.

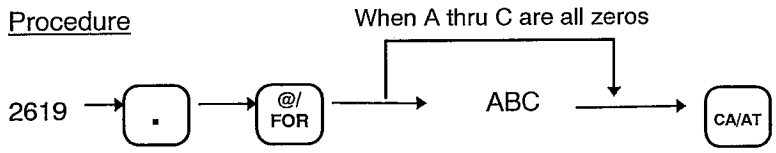
Procedure



15. Setting the time range for hourly reports (PGM2 mode)

You can program the hourly reports time increment and start time.
Note: The report start time must be one minute before the next increment time.

Procedure



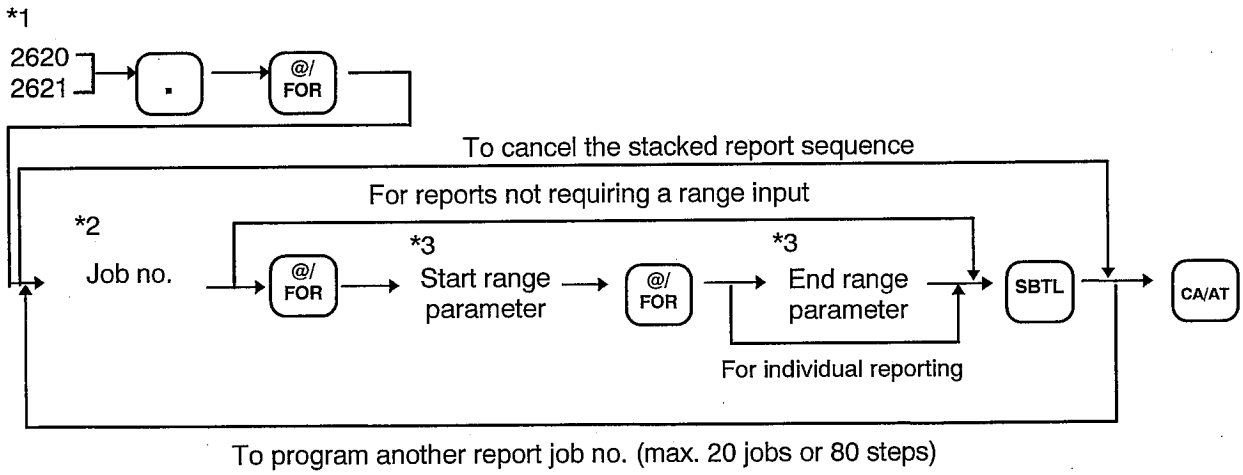
A: Time increment 15 min./30 min. 1/0
To set the time increment to 30 minutes (for 24 hours), enter 0
To set the time increment to 15 minutes (for 24 hours), enter 1
BC: Report hour starting time (00 to 23)

Note: The hourly report must be cleared (Z) before this programming operation will be allowed.

16. Selection of reports to be printed in the stacked report sequences 1 and 2 (PGM2 mode)

The purpose of a stacked report is to enable multiple X1/Z1 and X2/Z2 reports to be printed in sequence with only a single request.

Procedure



*1: Job# 2620 for stacked report 1
Job# 2621 for stacked report 2
Note: A step is a block of memory. Each report job utilizes a different number of steps as follows:
Range type 1 uses 8 steps
Range type 2 uses 10 steps
Range type 3 uses 16 steps
Range type 4 uses 6 steps

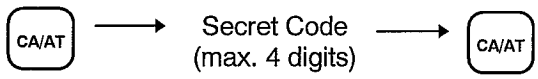
*2		*3	
Report Job no.	**Report title**	**Range parameter**	**Range type**
9	Full UPC		
4	UPC stock		

07	UPC zero sales		
08	UPC minimum stock		
10	Full Department		
13	Department by group		
19	Markdown by department		
20	Full PLU	1 to 999999	1
23	PLU all group		
24	PLU stock	1 to 999999	1
27	PLU zero sales		
28	PLU minimum stock	1 to 999999	1
30	Transaction		
31	CID		
33	Tax		
40	All server		
60	Hourly	0 thru 2330 or 2345	4 (X only)
68	Dynamic UPC clear		
69	Dynamic UPC		
70	Daily net		
80	GLU	1 to 9999	2
82	Closed GLU	1 to 9999	2
85	Customer		3
87	Customer non-access		
88	Customer no payment		

17. Programming secret codes to control access (PGM2 mode)

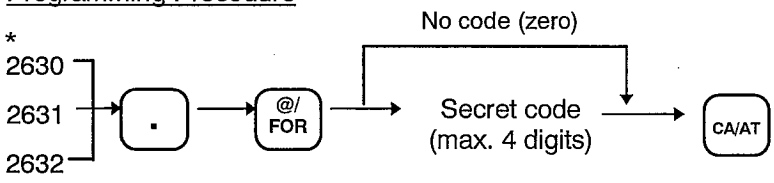
Access control can be given to changing stored programs in the PGM1 mode, X1/Z1 mode, and X2/Z2 mode. If no secret code is entered the operation is inhibited. You must enter the secret code according to the following procedure:

Operation Procedure



Note: Once a secret code is entered, it does not need to be entered again unless the mode switch setting is changed when any operation, report, or programming job is performed.

Programming Procedure

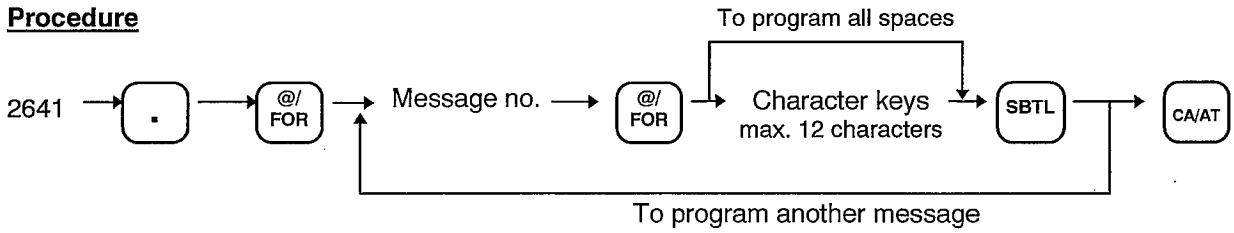


*:
2630 For the PGM1 mode
2631 For the X1/Z1 mode
2632 For the X2/Z2 mode

18. Programming of display messages (PGM2 mode)

A maximum of 12 characters can be programmed for each error/warning message using the following table (Refer to programming key sheets on pages 7 and 8):

Procedure



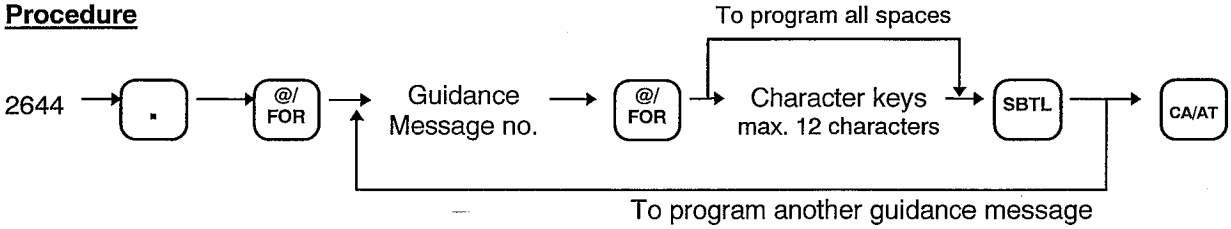
Message no.	State	Default message
1	Registration error	ENTRY ERROR
2	Misoperation error	MISOPERATION
3	Desired code is not programmed	NO RECORD
4	Paper out	PAPER EMPTY
5	Secret code error	SECRET CODE
6	Desired code is not free	NOT FREE
7	Memory is full	MEMORY FULL
8	Slip is not inserted	INSERT SLIP
9	The server has entered a code for which he or she is not authorized	NO AUTHORITY
10	(reserved)	
11	Compulsory pushing of SBTL key	SBTL COMPUL.
12	Compulsory tendering	TEND COMPUL.
13	Compulsory PB entry	PB COMPUL.
14	(reserved)	
15	Compulsory cover count entry	COV CNT COMP
16	Check digit error	C/D ERROR
17	IRC non reset error	NON RESET
18	Retry message	RETRY ?
19	Entry after individual resetting	ENTRY ERR Z
20	Remote printer off line	OFF LINE
21	Remote printer motor lock	MOTOR LOCK
22	(RESERVED)	
23	(RESERVED)	
24	Server resetting over entry	ENTRY ERR SR
25	Setting slip paper again	SLIP SET
26	File type error	TYPE ERROR
27	Power of target machine is off	POWER OFF
28	Transmission busy	IRC BUSY
29	Transmission error occurred	IRC ERROR
30	Tendering compulsory error for tip	TIP ERROR
31	Compulsory non-add code entry	# COMPULSORY
32	A server has not been entered of key not inserted	NOT ASSIGNED
33	The server key has been changed in the transaction	NOT CHANGE
34	Overflow limitation	OVER LIMIT.
35	Open price entry is inhibited	INH. OPEN PR
36	Unit price entry is inhibited	INH. UNIT PR

37	The direct non-tendering finalization after previous tender entry is inhibited	NOT NON-TEND
38	Scale read error	SCALE ERROR
39	(RESERVED)	
40	Remote printer's buffer full	BUFFER FULL
41	Remote printer hard error	HARD ERROR
42	Open store state	OPEN STORE
43	Close store state	CLOSE STORE
44	Sending Z data	SENDING
45	Sign on	SIGN ON
46	Master down	MASTER DOWN
47	Back-up master down	BACKUP DOWN
48	Guidance message for guest check number entry	CHECK#
49	Guidance message for cover count entry	COVER COUNT
50	Guidance message for table number entry	TABLE#
51	Weight on scale	WEIGHT
52	Closed check file is full	C. FILE FULL
53	(RESERVED)	
54	Guidance message for tare weight entry	ENTR TARE WT
55	The specified server was already signed on	ALREADY ON
56	The partial order is sent to the remote printer	PRT ORDER
57	The full order is sent to the remote printer	FULL ORDER
58	(RESERVED)	
59	(RESERVED)	
60	T-log buffer not empty	T. LOG REMAIN
61	Desired code is not programmed or it is used in the Learning function	NO RECORD
62	Entry of Price and Department no. (For Learning function)	PRICE→DEPT
63	Entry of Price and Department no. (For Price change function)	PRICE & DEPT
64	Entry of Department no.	DEPT #
65	Entry of name	NAME
66	Entry of Address	ADDRESS
67	Register buffer is full	BUFFER FULL
68	T. Log is full	T. LOG FULL
69	(RESERVED)	
70	Price entry at EAN refund	ENTER PRICE
71	UPC file is full	UPC FULL
72	(RESERVED)	
73	(RESERVED)	
74	Delete not-worked UPC file	N/W UPC DEL.
75	Delete not-worked Customer file	N/W CST DEL.
76	Close drawer error	CLOSE DRAWER
77	Price shift error	ENTER P. SFT
78	Drawer # entry compulsory	ENTER DR#
79	Reading of undefined Vendor Coupon UPC	OP ENTER

19. Programming of guidance messages for lead through programming (PGM2 mode)

Each guidance message can have a maximum of 12 characters using the following table (Refer to programming key sheets on pages 7 and 8):

Procedure



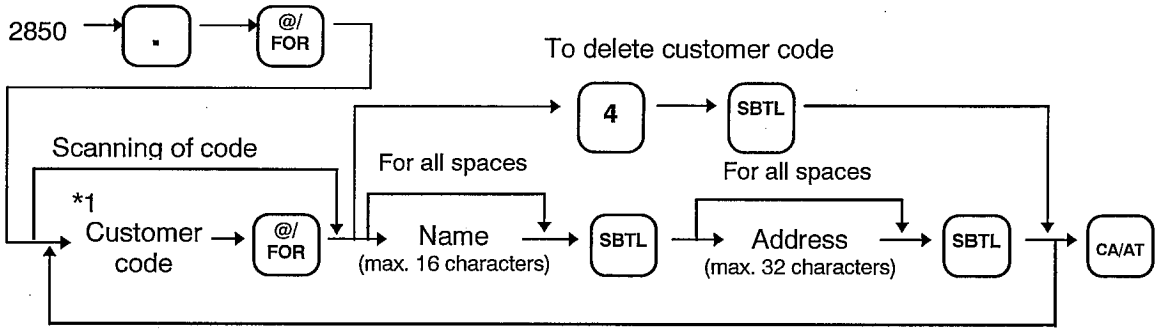
Message no.	Default message	Description	Note
1	ENTER DEPT#	Department no. entry	
2	PRICE	Unit price programming for UPC, Dept., and PLU	Job# 1010, 1110, 1210
3	PROGRAMMING	Functional programming for UPC, Dept., and PLU	Job# 2010, 2110, 2210
4	SIGN AND TAX	Sign and tax programming for UPC, Dept., and PLU	Job# 2011, 2111, 2211
5	HALO & LALO	HALO and LALO programming for dept.	Job# 2112
6	TEXT	Text programming for UPC, Dept., and PLU	Job# 2014, 2114, 2214
7	SERVER GROUP	Server group programming for Dept.	Job# 2115
8	GROUP	Group programming for Dept. and PLU	Job# 2116, 2216
9	PRINT STAT.	Print station programming for UPC, Dept., and PLU	Job# 2018, 2118, 2218
10	CONTROL CHAR	IRC control character programming for UPC, Dept., and PLU	Job# 2058, 2158, 2258
11	ENTER PLU#	PLU number entry	
12	DEPT & TYPE	Associated dept. and type programming for UPC and PLU	Job# 1000, 1200
13	BASE Q'TY	Base Q'ty programming for UPC and PLU	Job# 1011, 1211
14	STOCK	Stock quantity programming for UPC and PLU	Job# 1022, 1222
15	MIN. STOCK	Minimum stock quantity programming for UPC and PLU	Job# 1023, 1223
16	ENTER UPC#	UPC number entry	
17	CUSTOM. CODE	Customer code entry	
18	NAME	Customer Name programming	Job# 2850
19	ADDRESS	Customer Address programming	Job# 2850

20. Programming of Customer file

You can manage sales data for each customer by entering or scanning a customer code. The customer codes can be free code entry or an EAN code with check digit (set in PGM# 2616 selection 12F). New customers can be entered via a Customer learning function during operation or via a PGM2 programming job.

(1) Programming Customer code, Name, and Address (PGM2 mode)

Procedure



To program another customer code

Note: Entering @/ FOR key moves to the next step without changing existing programming and entering CL returns to the previous step.

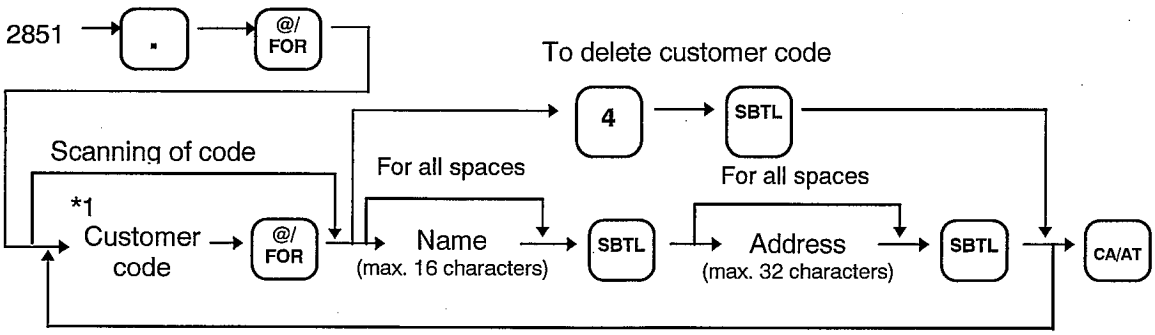
*1 Customer code:

- 13 digit free code (1 to 999999999)
- 13 digit EAN code with check digit (Flag code is "08"; last digit is check digit value)
  0 8 x x x x x x x x x x CD

(2) Editing/Reviewing new customers programmed by the learning function (PGM2 mode)

Customers can be entered via the learning function in REG & MGR modes. Once programmed by the learning function, this programming job allows you to review and edit the information previously entered.

Procedure



To program another customer code

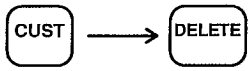
Note: Entering @/ FOR key moves to the next step without changing existing programming and entering CL returns to the previous step.

*1 Customer code:

- 13 digit free code (1 to 999999999)
- 13 digit EAN code with check digit (Flag code is "08"; last digit is check digit value)
  0 8 x x x x x x x x x x CD

(3) Programming delete period for customer data (PGM2 mode)

Customer codes not accessed during a preset period can be deleted automatically by the following operation in the **X2/Z2** mode:



When the deleting operation is performed, the following formula is used

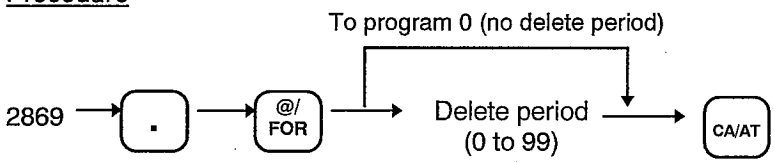
The last accessed month + preset period + 1

The customer codes which satisfy the condition are deleted.

Example: Preset period of 12 months; deleting operation performed in 8/"95

Last accessed date	
6/'94	Deleted
7/'94	Deleted
8/'94	Not Deleted

Procedure

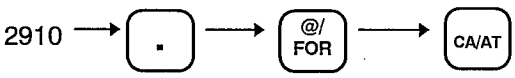


21. Activating and canceling the TRAINING mode

The training mode is used to train servers how to operate the terminal without adding or changing the register's sales totals. Training entries do not affect any totalizers except the training GT on a transaction report therefore there are no reports available for training entries.

(1) Training mode activation (PGM2 mode)

Procedure

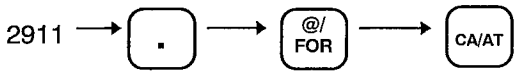


Print

```
#2910 * P G M 2 *
TRAINING ..... START
```

(2) Training mode cancellation (PGM2 mode)

Procedure



Print

```
#2911 * P G M 2 *
TRAINING ........ END
```

(3) Training mode operations

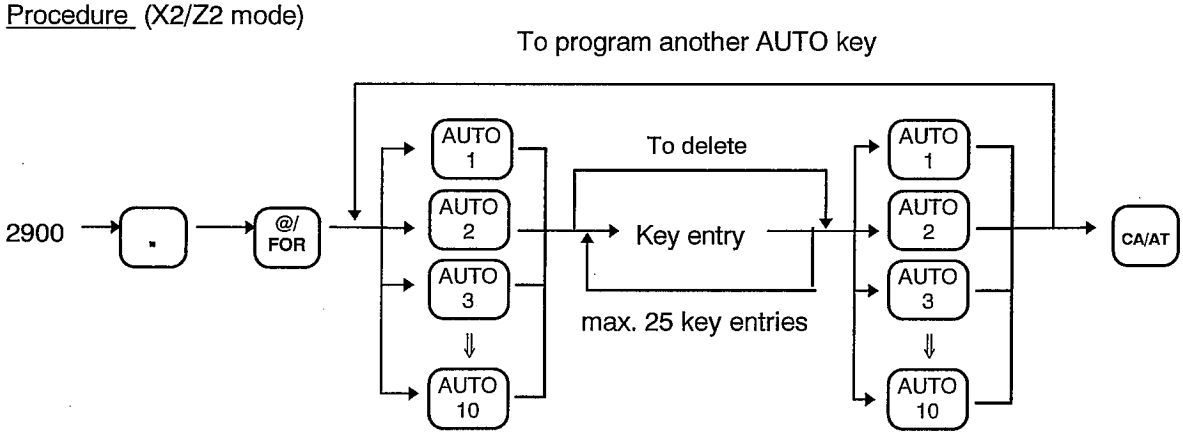
- Practice entries are allowed only when the mode switch is in the REG position.
- Training entries are identified from other entries by the printing of " *TRAINING* " on the receipt and journal.
- Training entries do not affect any totalizers or counters except the training GT.
- The consecutive number is increased by one each time a receipt is produced.
- " TR " shows in the right side of the display.

22. Setting the AUTO key (X2/Z2 mode)

- Automatic sequencing key -

Frequently performed transaction and operations can be made simpler by programming the sequence in an auto key. Once programmed, the operation or transaction is memorized by the Auto key and can be performed by depressing the corresponding auto key.
Note: This programming must be done in the X2/Z2 mode.

Procedure (X2/Z2 mode)



23. Stock Control for PLUs and UPCs

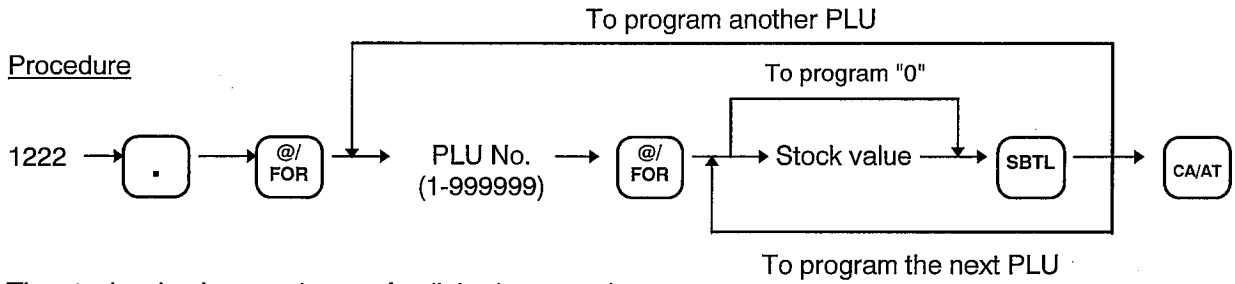
The purpose of this function is to calculate the stock of each item and issue reports for purchase analysis, inventory taking, prevention of insufficient quantities in stock, etc... Each PLU and UPC is provided with a counter for stock control. The counter is incremented by the entry of incoming product and decremented by the sale of that item during normal sales transactions.

The ER-A570/A610 also has minimum stock values for each PLU and UPC. The report provides a listing of those items which have reached a critically low stock status.

The stock quantity can be programmed by the following three methods:
1. Overwrite - Entering a new stock quantity or updating the current stock quantity.
2. Add - Incrementing the current stock quantity (receiving).
3. Subtract - Decrementing the current stock quantity (wasting).

PLU stock control

1. Entering PLU stock quantities - Overwrite (PGM1 or PGM2 mode)



The stock value is a maximum of 7 digits (9999.999).

Example: Programming a stock quantity of 100 for PLU 1 and 20.25 for PLU 2.

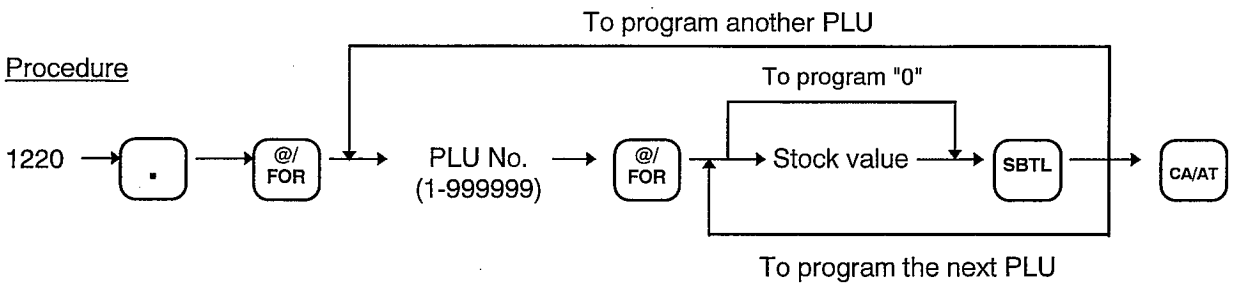
Key operation

1222 • @/FOR
1 @/FOR 100000 SBTL
20250 SBTL
CA/AT

Print

```
#1222 * P G M 2 *

P 000001          0.000
                  0.000
                S 100.000
P 000002          0.000
                  0.000
                S  20.250
```

2. Incrementing PLU current stock quantity - Add (PGM 1 or PGM2 mode)



The stock value is a maximum of 7 digits (9999.999).

Example: Adding a stock quantity of 25 to PLU 1 and 15 to PLU 2

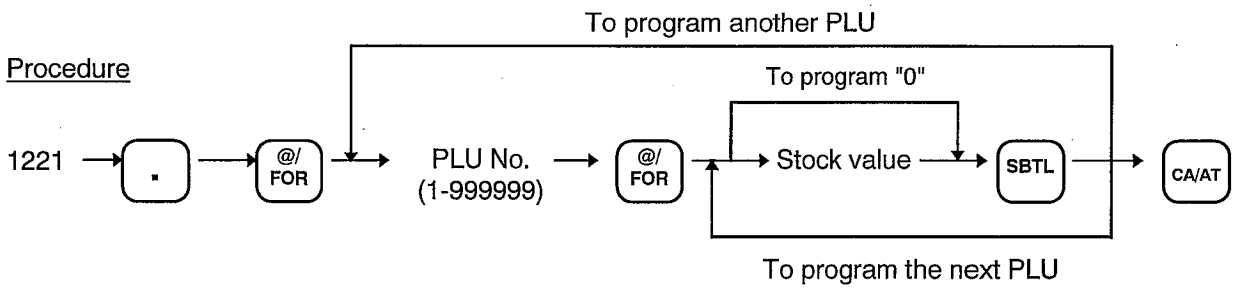
Key operation

1220 [•] [@/FOR]
1 [@/FOR] 25000 [SBTL]
15000 [SBTL]
[CA/AT]

Print

```
#1220 * P G M 2 *

P 000001       100.000
                25.000
             S  125.000
P 000002        20.250
                15.000
             S   35.250
```

3. Decrementing PLU current stock quantity - Subtract (PGM 1 or PGM 2 mode)



The stock value is a maximum of 7 digits (9999.999).

Example: Subtracting a stock quantity of 15 from PLU 1 and 5 from PLU 2

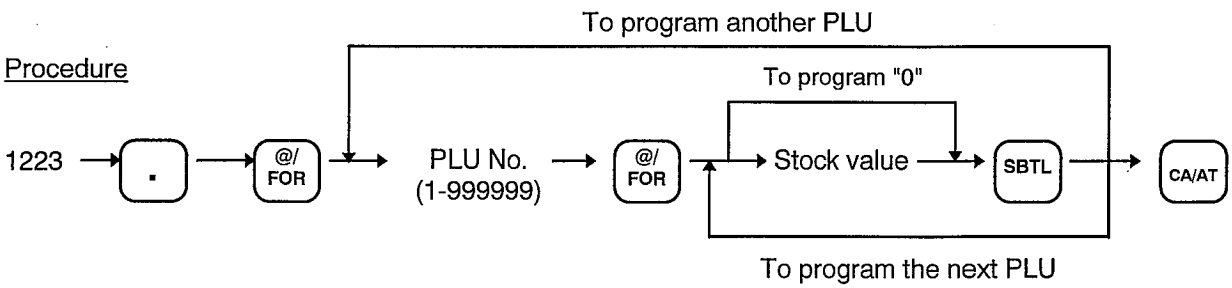
Key operation

1221 [•] [@/FOR]
1 [@/FOR] 15000 [SBTL]
5000 [SBTL]
[CA/AT]

Print

```
#1221 * P G M 2 *

P 000001       125.000
               -15.000
             S  110.000
P 000002        35.250
                -5.000
             S   30.250
```

4. Entering a PLU minimum stock value (PGM 1 or PGM 2 mode)



The stock value is a maximum of 7 digits (9999.999).

Example: Programming a minimum stock quantity of 25 for PLU 1 and 10 for PLU 2

Key operation

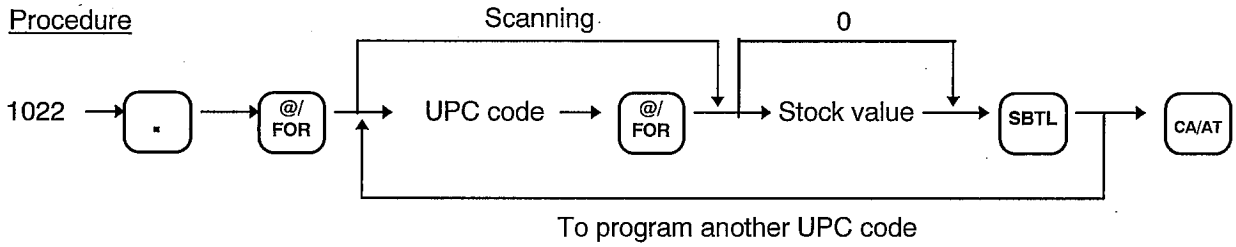
1223 [•] [@/FOR]
1 [@/FOR] 25000 [SBTL]
10000 [SBTL]
[CA/AT]

Print

```
#1223 * P G M 2 *

P 000001( 0 2 )    /00
 T1                1.25
MILK
G00 00 00
00000000002 KP0000  64
            S  110.000
            M   25.000
P 000002( 0 1 )    /00
 T2                1.05
SODA
G00 00 00
00000000000 KP0000  00
            S   30.250
            M   10.000
```

UPC stock control

1. Entering UPC stock quantities - Overwrite (PGM 1 or PGM 2 mode)



The stock value is a maximum of 7 digits (9999.999).

Example: Programming UPC code 123456 for stock quantity of 100.

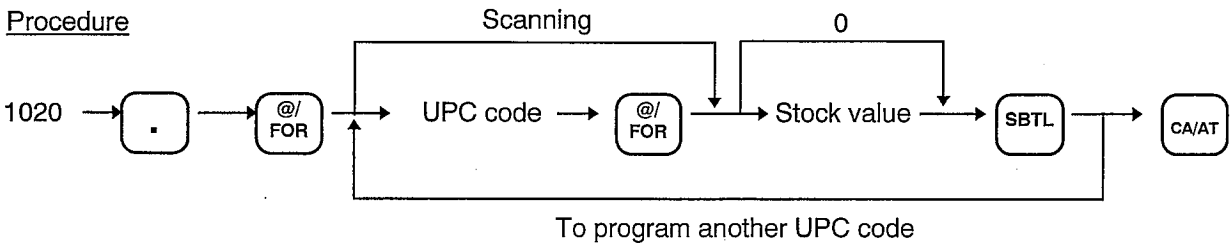
Key operation

1022 [•] [@/FOR]
123456 [@/FOR]
100000 [SBTL]
[CA/AT]

Print

```
#1022 * P G M 2 *

        123456#  0.000
                 100.000
              S  100.000
```

2. Incrementing UPC current stock quantities - Add (PGM 1 or PGM 2 mode)

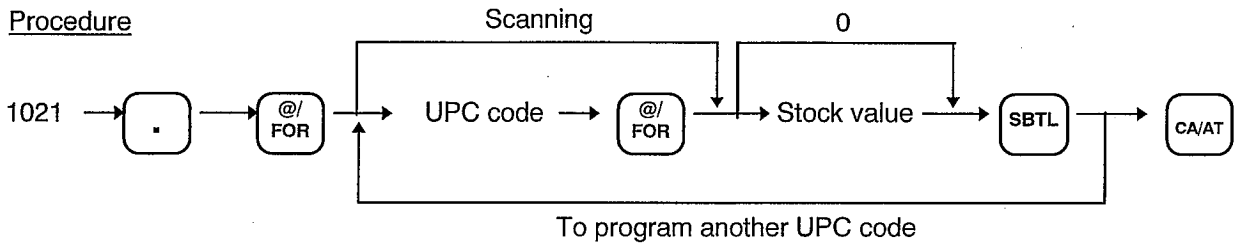


The stock value is a maximum of 7 digits (9999.999).

Example: Adding a stock quantity of 75 to UPC code 123456.

Key operation	Print
1020 [•] [@/FOR]	#1020 * P G M 2 *
123456 [@/FOR]	123456#
75000 [SBTL]	100.000
[CA/AT]	75.000
	S 175.000

3. Decrementing current UPC stock quantities - Subtract (PGM 1 or PGM 2 mode)

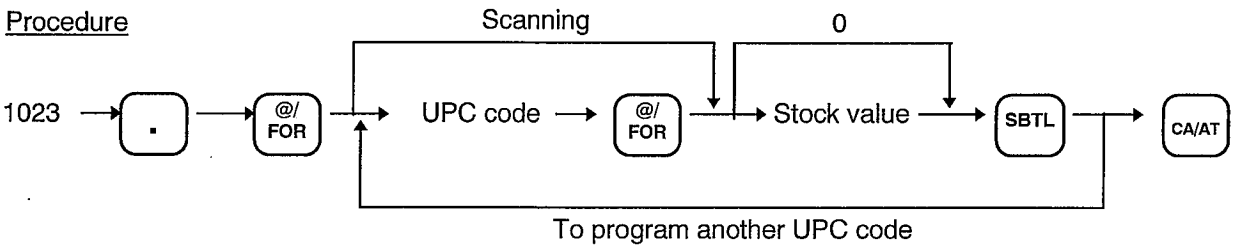


The stock value is a maximum of 7 digits (9999.999).

Example: Subtracting a stock quantity of 10 from UPC code 123456.

Key operation	Print
1021 [•] [@/FOR]	#1021 * P G M 2 *
123456 [@/FOR]	123456#
10000 [SBTL]	175.000
[CA/AT]	-10.000
	S 165.000

4. Entering a UPC minimum stock value (PGM 1 or PGM 2 mode)



The stock value is a maximum of 7 digits (9999.999).

MID-RANGE SYSTEM SOLUTION

Example: Programming a minimum stock quantity of 20 for UPC code 123456.

Key operation

1023 [•] [@/FOR]
123456 [@/FOR]
20000 [SBTL]
[CA/AT]

Print

```
#1023 * P G M 2 *

         123456#(01)/00
  FT1                1.25
JUICE
00000000     KP0100   64
             S  165.000
             M   20.000
```

24. Reading stored programs

Your terminal allows you to read every program stored in the PGM1 and PGM2 modes.

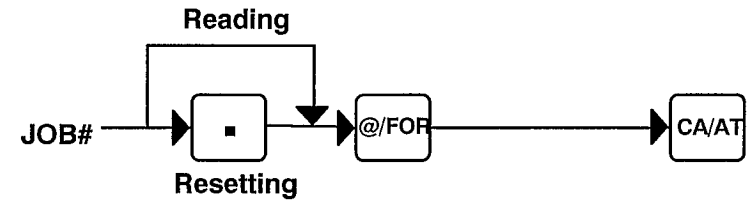
Description	Mode switch position	Job code no.	Procedure	Related job code nos.
Departments	PGM2 or PGM1	1100	1100 → @/FOR → Start Dept. no. For individual reading @/FOR → End Dept. no. → CA/AT	1110, 2110, 2111, 2112, 2114, 2116, 2118, 2158
PLU/Subdepartments	PGM2 or PGM1	1200	1200 → @/FOR → Start PLU no. For individual reading @/FOR → End PLU no. → CA/AT	1200, 1210, 1211, 2210, 2211, 2214, 2216, 2218, 2258, 1023,
PLU stock add	PGM2 or PGM1	1220	1220 → @/FOR → Start PLU no. For individual reading @/FOR → End PLU no. → CA/AT	1020
PLU stock subtract	PGM2 or PGM1	1221	1221 → @/FOR → Start PLU no. For individual reading @/FOR → End PLU no. → CA/AT	1021
PLU stock inventory	PGM2 or PGM1	1222	1222 → @/FOR → Start PLU no. For individual reading @/FOR → End PLU no. → CA/AT	1022
Link PLU	PGM2	2220	2220 → @/FOR → Start PLU no. For individual reading @/FOR → End PLU no. → CA/AT	2220
Set PLU	PGM2	2221	2221 → @/FOR → Start PLU no. For individual reading @/FOR → End PLU no. → CA/AT	2221

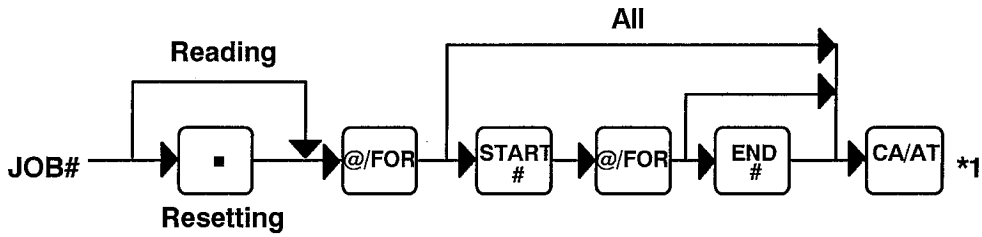
Dept. and PLU direct assignment keys	PGM2	2119	2119 → @/FOR → CA/AT	2119, 2219
UPCs/Dynamic UPCs	PGM2 or PGM1	1000/ 1050	1000/1050 → @/FOR → Start UPC no. → For individual reading → @/FOR → End UPC no. → CA/AT	1000, 1010, 1011, 2010, 2011, 2014, 2018, 2022, 2058
Other UPC programming	PGM2	2025	2025 → @/FOR → CA/AT	2025, 2029
Function preset (1)	PGM2 or PGM1	1300	1300 → @/FOR → CA/AT	1310, 2311, 2312, 2313, 2314, 2315, 2316, 2320, 2321, 2322, 2324, 2328
Function preset (2)	PGM2	2600	2600 → @/FOR → CA/AT	2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2630, 2631, 2632
Tax table or rate	PGM2	2700	2700 → @/FOR → CA/AT	2710, 2711
Servers	PGM2 or PGM1	1400	1400 → @/FOR → CA/AT	1400, 1414, 2410, 2411, 2413
Guest check numbers	PGM2	2800	2800 → @/FOR → CA/AT	2810
Text	PGM2	2640	2640 → @/FOR → CA/AT	2641, 2642, 2643, 2644
AUTO keys	PGM2	2900	2900 → @/FOR → CA/AT	2900
Customer file	PGM2	2850	2850 → @/FOR → CA/AT	2850, 2851
Customer file controls	PGM2	2860	2860 → @/FOR → CA/AT	2869

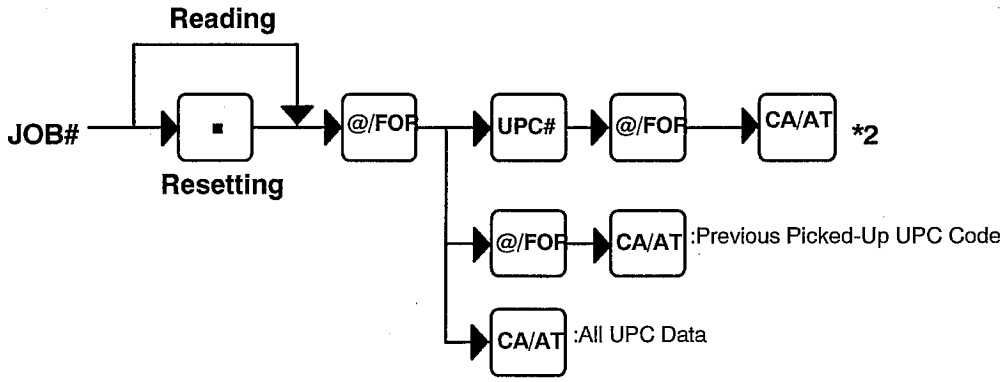
25. Reading (X) and Resetting (Z) of Sales Totals

-Use the reading function (X) when you need to take a reading of sales information entered after the last resetting. You can take this reading any number of times. It does not affect the register's memory.
-Use the resetting function (Z) when you need to clear the register's memory. Resetting prints all sales information and clears the entire memory except for the GT1 thru GT3, reset count, and consecutive number.

Summary of Reading (X) and Resetting (Z) Reports and the Key Operations to obtain the Reports



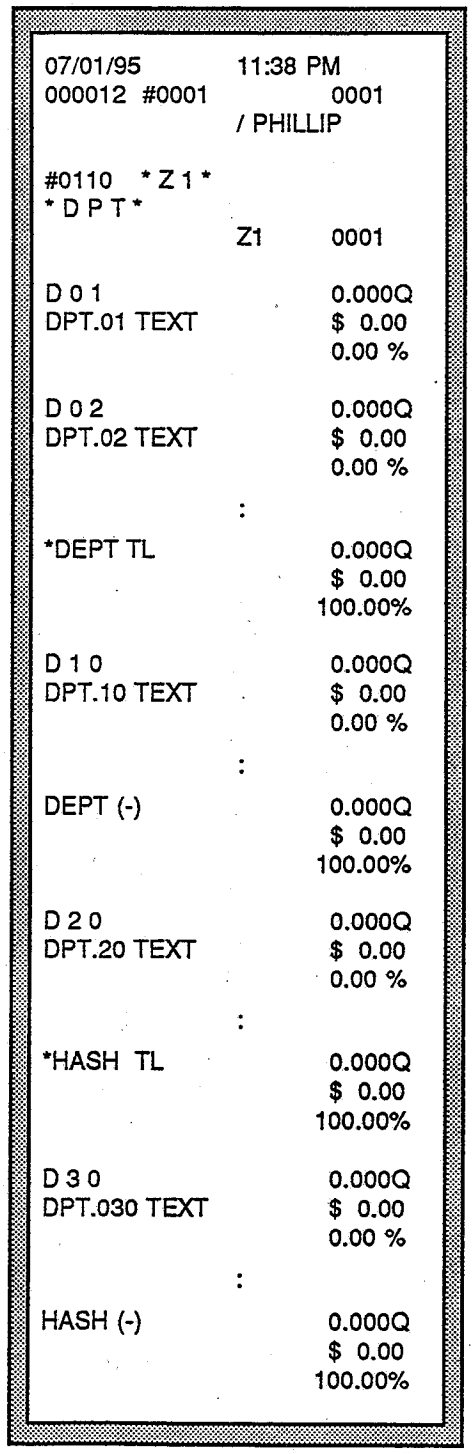




*When entering the JOB#, it must be preceeded by a 1 (Daily) or a 2 (Periodic)

REPORT NAME	OP X/Z		X1/Z1		X2/Z2			
	X	Z	X1	Z1	X2	Z2	JOB#	
DEPARTMENT			0	0	0	0	10	
INDIVIDUAL GROUP			0		0		12	
GROUP TOTAL			0		0		13	
MARKDOWN FOR DEPARTMENT			0		0		19	
PLU BY RANGE			0	0	0	0	20	*1
PLU BY DEPARTMENT			0	0	0	0	21	
PLU INDIVIDUAL GROUP			0		0		22	
PLU GROUP TOTAL			0		0		23	
PLU STOCK			0				24	*1
PLU ZERO SALES			0		0		27	
PLU ZERO SALES BY DEPT			0		0		27	
PLU MINIMUM STOCK			0				28	*1
UPC			0	0	0	0	09	*2
UPC BY DEPARTMENT			0	0	0	0	01	
UPC STOCK			0				04	*2
UPC ZERO SALES			0		0		07	
UPC ZERO SALES BY DEPT			0		0		07	
UPC MINIMUM STOCK			0				08	
DYNAMIC UPC			0	0	0	0	69	
DYNAMIC UPC CLEAR REPORT				0			68	
DYNAMIC UPC CLEAR BY DEPT				0			67	
TRANSACTION			0	0	0	0	30	
CID			0				31	
TAX			0		0		33	
ALL SERVERS/CLERKS			0	0	0	0	40	
INDIVIDUAL SERVERS/CLERKS	0	0	0	0	0	0	41	
HOURLY			0	0			60	
HOURLY RANGE			0				60	*1
DAILY NET					0	0	70	
CUSTOMER SALES					0	0	85 89	*1
CUSTOMER BY SALES RANGE					0		86	*1
CUSTOMER NON-ACCESS					0		87	
CUSTOMER NO PAYMENT					0		88	
GLU			0	0			80	*1
GLU BY SERVER			0	0			81	
CLOSED GLU			0	0			82	*1
CLOSED GLU BY SERVER			0	0			83	
STACKED REPORT			0	0	0	0	90-91	

< Department Report >



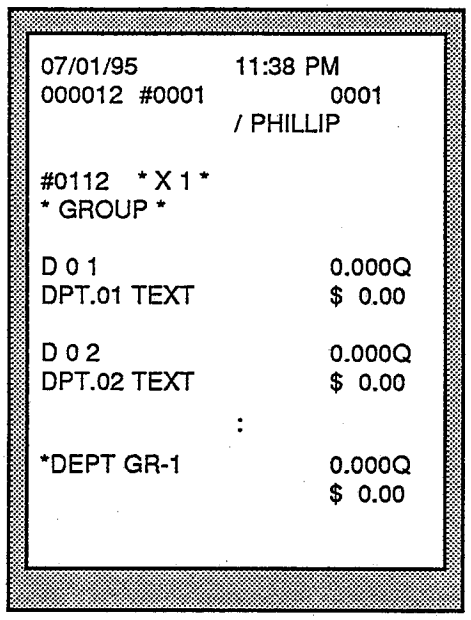
07/01/95	11:38 PM	date / time
000012 #0001	0001	machine no. / consecutive no.
	/ PHILLIP	server name
#0110 * Z 1 *		report no. / type report
* D P T *		report title
	Z1 0001	reset counter
D 0 1	0.000Q	dept. code / quantity amount
DPT.01 TEXT	$ 0.00	dept. text / sales amount
	0.00 %	percent of department sales
D 0 2	0.000Q	
DPT.02 TEXT	$ 0.00	
	0.00 %	
:		
*DEPT TL	0.000Q	(+) department total
	$ 0.00	
	100.00%	
D 1 0	0.000Q	minus department
DPT.10 TEXT	$ 0.00	
	0.00 %	
:		
DEPT (-)	0.000Q	(-) department total
	$ 0.00	
	100.00%	
D 2 0	0.000Q	plus hash department
DPT.20 TEXT	$ 0.00	
	0.00 %	
:		
*HASH TL	0.000Q	(+) hash total
	$ 0.00	
	100.00%	
D 3 0	0.000Q	minus hash department
DPT.030 TEXT	$ 0.00	
	0.00 %	
:		
HASH (-)	0.000Q	(-) hash total
	$ 0.00	
	100.00%	

Sample Reports

Description for use:

The Department report is used to summarize the PLU sales into specific categories so that the percentage of overall sales business can be determined.

< Department Group Reports >



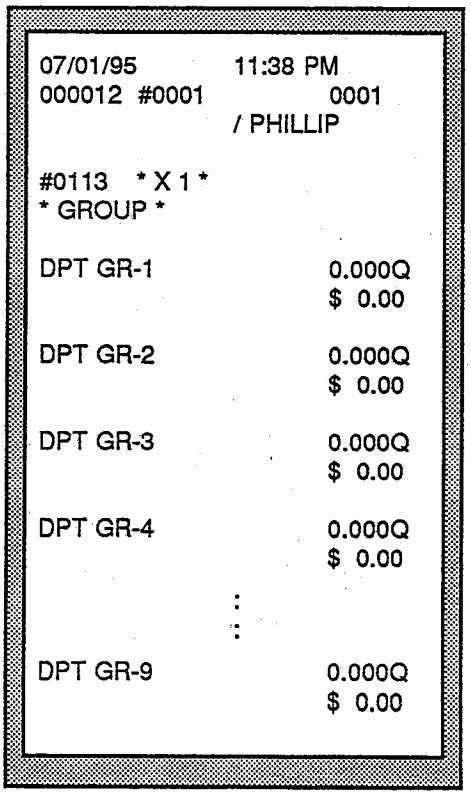
```
07/01/95          11:38 PM
000012  #0001            0001
                / PHILLIP

#0112   * X 1 *
* GROUP *

D 0 1                0.000Q
DPT.01 TEXT          $ 0.00

D 0 2                0.000Q
DPT.02 TEXT          $ 0.00

                :

*DEPT GR-1           0.000Q
                     $ 0.00
```

date / time
machine no. / consecutive no.
server name

report no. / type report
report title

dept. code / quantity amount
dept. text / sales amount

group 1 total



```
07/01/95          11:38 PM
000012  #0001            0001
                / PHILLIP

#0113   * X 1 *
* GROUP *

DPT GR-1             0.000Q
                     $ 0.00

DPT GR-2             0.000Q
                     $ 0.00

DPT GR-3             0.000Q
                     $ 0.00

DPT GR-4             0.000Q
                     $ 0.00

                :
                :

DPT GR-9             0.000Q
                     $ 0.00
```

date / time
machine no. / consecutive no.
server name

report no. / type report
report title

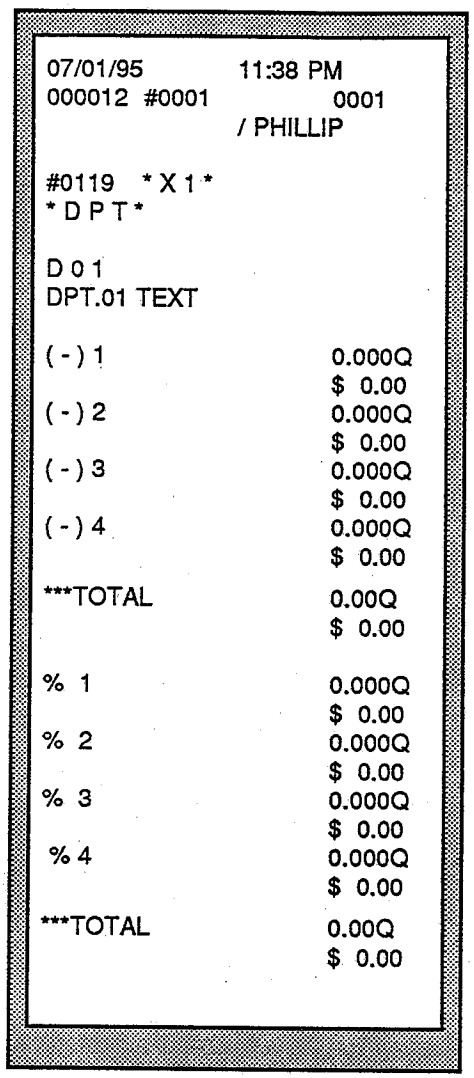
dept. group no. / quantity amount
sales amount

Sample Reports

Description for use:

The Department Group report is used to summarize more than one department for the sake of evaluating sales from "like" categories.

< Mark Down Report by Department >



07/01/95	11:38 PM	date / time
000012 #0001	0001	machine no. / consecutive no.
	/ PHILLIP	server name
#0119 * X 1 *		report no. / type report
* D P T *		report title
D 0 1		dept. code
DPT.01 TEXT		dept. text
(-) 1	0.000Q	individual coupon totals
	$ 0.00	
(-) 2	0.000Q	
	$ 0.00	
(-) 3	0.000Q	
	$ 0.00	
(-) 4	0.000Q	
	$ 0.00	
***TOTAL	0.00Q	coupon total
	$ 0.00	
% 1	0.000Q	individual % discount totals
	$ 0.00	
% 2	0.000Q	
	$ 0.00	
% 3	0.000Q	
	$ 0.00	
% 4	0.000Q	
	$ 0.00	
***TOTAL	0.00Q	% discount total
	$ 0.00	

Sample Reports

Description for use:

The Mark Down report is used to determine coupon and discount activities by menu item categories. This is extremely useful for monitoring marketing efforts.

< PLU Range Report >

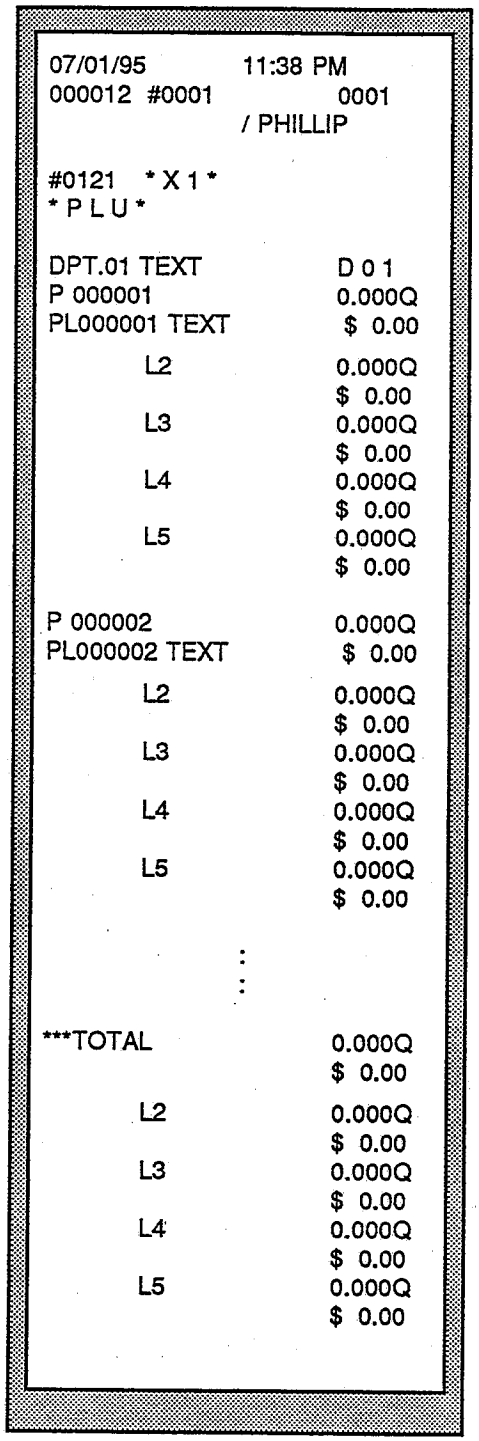
07/01/95	11:38 PM	date / time
000012 #0001	0001	machine no. / consecutive no.
	/ PHILLIP	server name
#0120 * Z 1 *		report no. / type report
* P L U *		report title
	Z1 0001	reset counter
P 000001	0.000Q	PLU code / 1st price quantity
PL000001 TEXT	$ 0.00	PLU text / 1st price sales total
L2	0.000Q	2nd price text / 2nd price quantity
	$ 0.00	2nd price sales total
L3	0.000Q	3rd price text / 3rd price quantity
	$ 0.00	3rd price sales total
L4	0.000Q	4th price text / 4th price quantity
	$ 0.00	4th price sales total
L5	0.000Q	5th price text / 5th price quantity
	$ 0.00	5th price sales total
P 000002	0.000Q	
PL000002 TEXT	$ 0.00	
L2	0.000Q	
	$ 0.00	
L3	0.000Q	
	$ 0.00	
L4	0.000Q	
	$ 0.00	
L5	0.000Q	
	$ 0.00	
:		
:		
***TOTAL	0.000Q	quantity total of all 1st price sales
	$ 0.00	sales total for all 1st price sales
L2	0.000Q	quantity total for all 2nd price sales
	$ 0.00	sales total for all 2nd price sales
L3	0.000Q	quantity total for all 3rd price sales
	$ 0.00	sales total for all 3rd price sales
L4	0.000Q	quantity total for all 4th price sales
	$ 0.00	sales total for all 4th price sales
L5	0.000Q	quantity total for all 5th price sales
	$ 0.00	sales total for all 5th price sales

Sample Reports

Description for use:

The PLU report is used to report the details of every menu item as it is rung up. Once the daily totals are reset, the same information is accumulated into "Term" totalizers where a consolidation of weekly/monthly, etc. item tracking may be analyzed.

< PLU by Department Report >



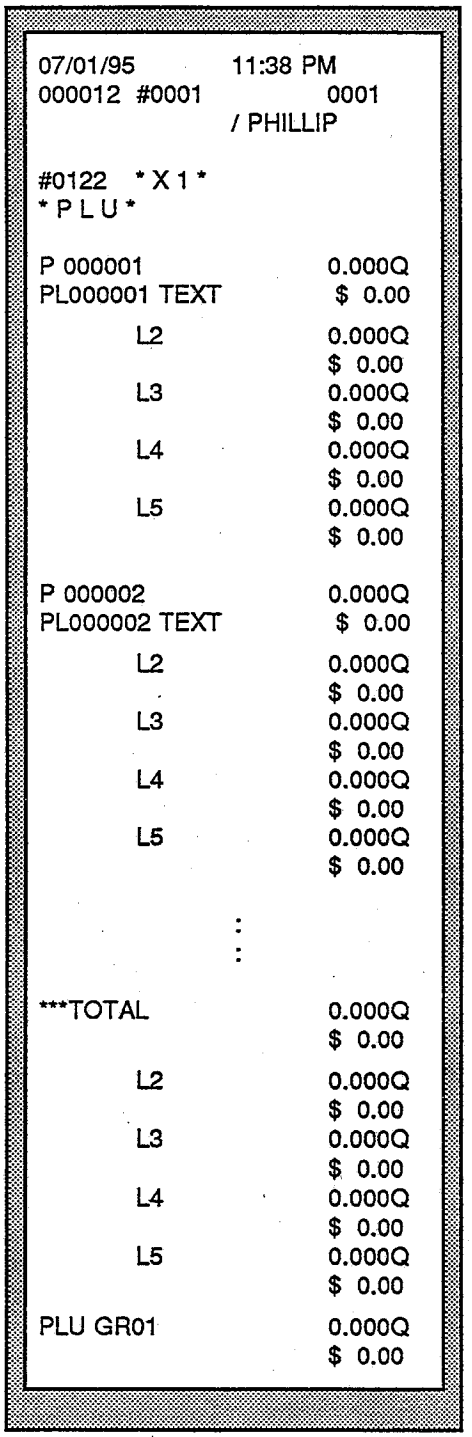
07/01/95	11:38 PM	date / time
000012 #0001	0001	machine no. / consecutive no.
	/ PHILLIP	server name
#0121 * X 1 *		report no. / type report
* P L U *		report title
DPT.01 TEXT	D 0 1	department text / department code
P 000001	0.000Q	PLU code / 1st price quantity
PL000001 TEXT	$ 0.00	PLU text / 1st price sales total
L2	0.000Q	2nd price text / 2nd price quantity
	$ 0.00	2nd price sales total
L3	0.000Q	3rd price text / 3rd price quantity
	$ 0.00	3rd price sales total
L4	0.000Q	4th price text / 4th price quantity
	$ 0.00	4th price sales total
L5	0.000Q	5th price text / 5th price quantity
	$ 0.00	5th price sales total
P 000002	0.000Q	
PL000002 TEXT	$ 0.00	
L2	0.000Q	
	$ 0.00	
L3	0.000Q	
	$ 0.00	
L4	0.000Q	
	$ 0.00	
L5	0.000Q	
	$ 0.00	
***TOTAL	0.000Q	quantity total of all 1st price sales
	$ 0.00	sales total for all 1st price sales
L2	0.000Q	quantity total for all 2nd price sales
	$ 0.00	sales total for all 2nd price sales
L3	0.000Q	quantity total for all 3rd price sales
	$ 0.00	sales total for all 3rd price sales
L4	0.000Q	quantity total for all 4th price sales
	$ 0.00	sales total for all 4th price sales
L5	0.000Q	quantity total for all 5th price sales
	$ 0.00	sales total for all 5th price sales

Sample Reports

Description for use:

The PLU by Department report allows you to report menu items by their assigned categories.

< Individual PLU Group Report >



07/01/95 11:38 PM	date / time
000012 #0001 0001	machine no. / consecutive no.
/ PHILLIP	server name
#0122 * X 1 *	report no. / type report
* P L U *	report title
P 000001 0.000Q	PLU code / 1st price quantity
PL000001 TEXT $ 0.00	PLU text / 1st price sales total
L2 0.000Q	2nd price text / 2nd price quantity
$ 0.00	2nd price sales total
L3 0.000Q	3rd price text / 3rd price quantity
$ 0.00	3rd price sales total
L4 0.000Q	4th price text / 4th price quantity
$ 0.00	4th price sales total
L5 0.000Q	5th price text / 5th price quantity
$ 0.00	5th price sales total
P 000002 0.000Q	
PL000002 TEXT $ 0.00	
L2 0.000Q	
$ 0.00	
L3 0.000Q	
$ 0.00	
L4 0.000Q	
$ 0.00	
L5 0.000Q	
$ 0.00	
:	
:	
***TOTAL 0.000Q	quantity total of all 1st price sales
$ 0.00	sales total for all 1st price sales
L2 0.000Q	quantity total for all 2nd price sales
$ 0.00	sales total for all 2nd price sales
L3 0.000Q	quantity total for all 3rd price sales
$ 0.00	sales total for all 3rd price sales
L4 0.000Q	quantity total for all 4th price sales
$ 0.00	sales total for all 4th price sales
L5 0.000Q	quantity total for all 5th price sales
$ 0.00	sales total for all 5th price sales
PLU GR01 0.000Q	group no. and quantity total
$ 0.00	total group sales total

Sample Reports

Description for use:

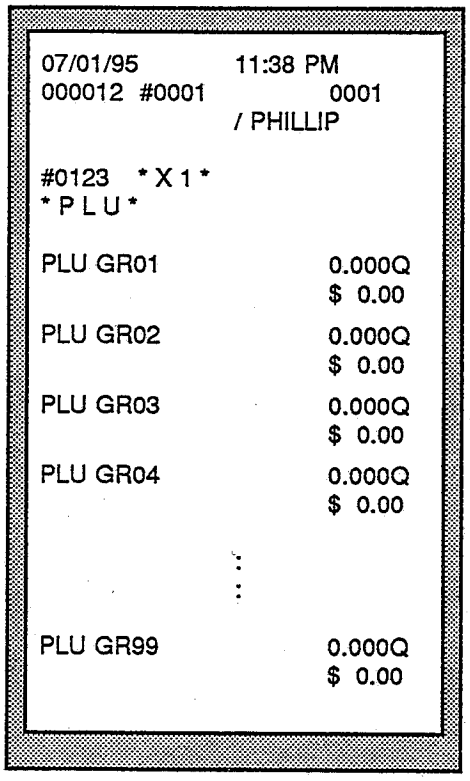
The PLU Group report offers 99 total groups for PLUs that are considered to be "like" items. Additionally, any single PLU may report to 3 maximum groups at any one time.

Sample Reports

Description for use:

The PLU Group Total report compliments the Individual PLU Group (report #122) report by providing just the total quantity and sales amount for each (up to 99) PLU group.

< PLU Group Total Report >



```
07/01/95          11:38 PM
000012  #0001           0001
                / PHILLIP

#0123   * X 1 *
* P L U *

PLU GR01                0.000Q
                        $ 0.00
PLU GR02                0.000Q
                        $ 0.00
PLU GR03                0.000Q
                        $ 0.00
PLU GR04                0.000Q
                        $ 0.00
                  .
                  .
                  .
PLU GR99                0.000Q
                        $ 0.00
```

date / time
machine no. / consecutive no.
server name

report no. / type report
report title

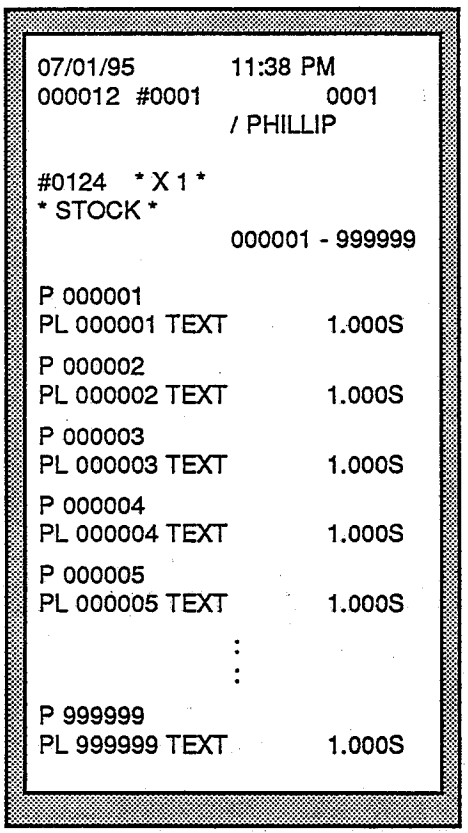
group no. and quantity total
total group sales total

Sample Reports

Description for use:

Each PLU is provided with a counter for stock control. The data in the counter is increment by the entry of incoming product and decrement by the sale of that item during normal sales transactions.

< PLU by Stock Report >



```
07/01/95          11:38 PM
000012  #0001             0001
                  / PHILLIP

#0124   * X 1 *
* STOCK *
                  000001 - 999999

P 000001
PL 000001 TEXT          1.000S
P 000002
PL 000002 TEXT          1.000S
P 000003
PL 000003 TEXT          1.000S
P 000004
PL 000004 TEXT          1.000S
P 000005
PL 000005 TEXT          1.000S
                  :
                  :
P 999999
PL 999999 TEXT          1.000S
```

date / time
machine no. / consecutive no.
server name

report no. / type report
report title
range (start code / end code)

PLU code
PLU text / stock quantity

Sample Reports

Description for use:

The PLU Zero Sales report is intended to provide the restaurant owner/retailer with a listing of those items in which there are no sales activity has been recorded. This is especially important when trying to determine which items should be eliminated from inventory or the menu.

< PLU Zero Sales Report >

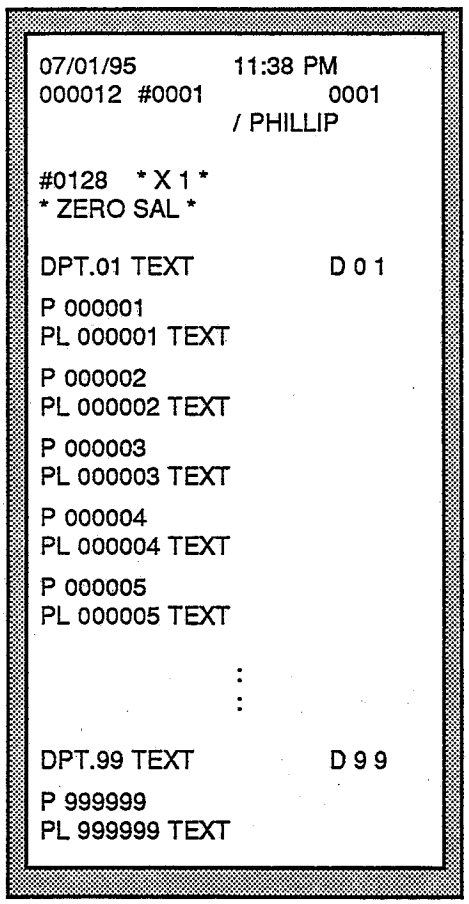
```
07/01/95          11:38 PM
000012  #0001            0001
                / PHILLIP

#0127   * X 1 *
* ZERO SAL *

P 000001
PL 000001 TEXT
P 000002
PL 000002 TEXT
P 000003
PL 000003 TEXT
P 000004
PL 000004 TEXT
P 000005
PL 000005 TEXT
                  :
                  :

P 999999
PL 999999 TEXT
```

date / time
machine no. / consecutive no.
server name

report no. / type report
report title

PLU code
PLU text

< PLU Zero Sales by Department Report >



```
07/01/95          11:38 PM
000012  #0001            0001
                / PHILLIP

#0128    * X 1 *
* ZERO SAL *

DPT.01 TEXT              D 0 1
P 000001
PL 000001 TEXT
P 000002
PL 000002 TEXT
P 000003
PL 000003 TEXT
P 000004
PL 000004 TEXT
P 000005
PL 000005 TEXT
                :
                :
DPT.99 TEXT              D 9 9
P 999999
PL 999999 TEXT
```

date / time
machine no. / consecutive no.
server name

report no. / type report
report title

department text / department code

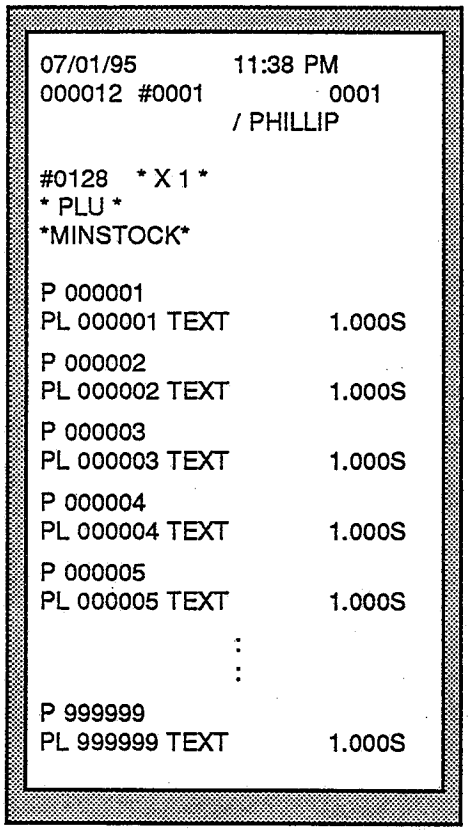
PLU code
PLU text

Sample Reports

Description for use:

The PLU Zero Sales by Department report compliments the individual PLU zero sales report and provides a quick reference of the same information sorted by their associated department.

< PLU Minimum Stock Report >



date / time
machine no. / consecutive no.
server name

report no. / type report
report title

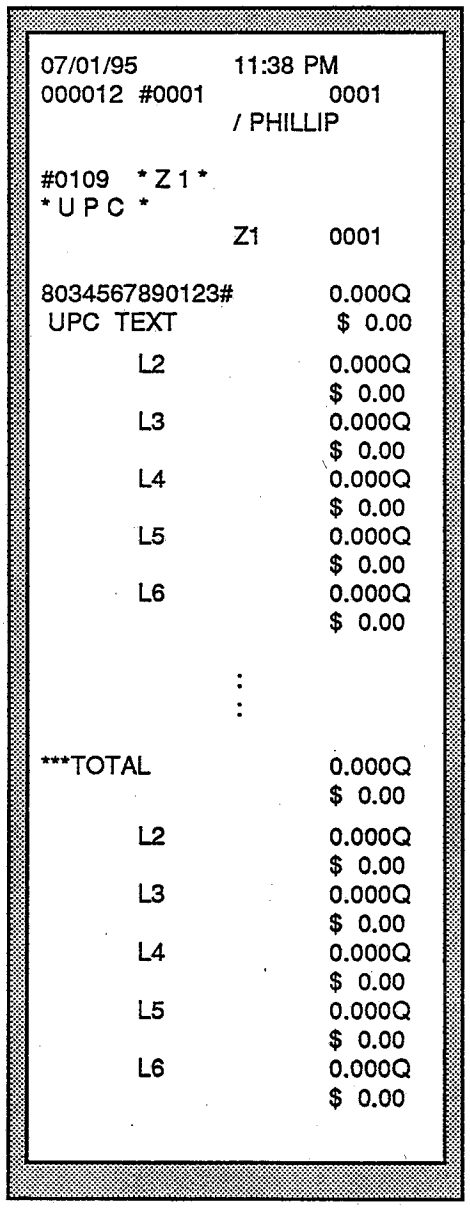
PLU code
PLU text / stock quantity

Sample Reports

Description for use:

For those critical menu items that you can't afford to run out of, the PLU Minimum Stock report provides the restaurant owner/manager with a listing of those items that have reached a critically low amount.

< UPC Report >



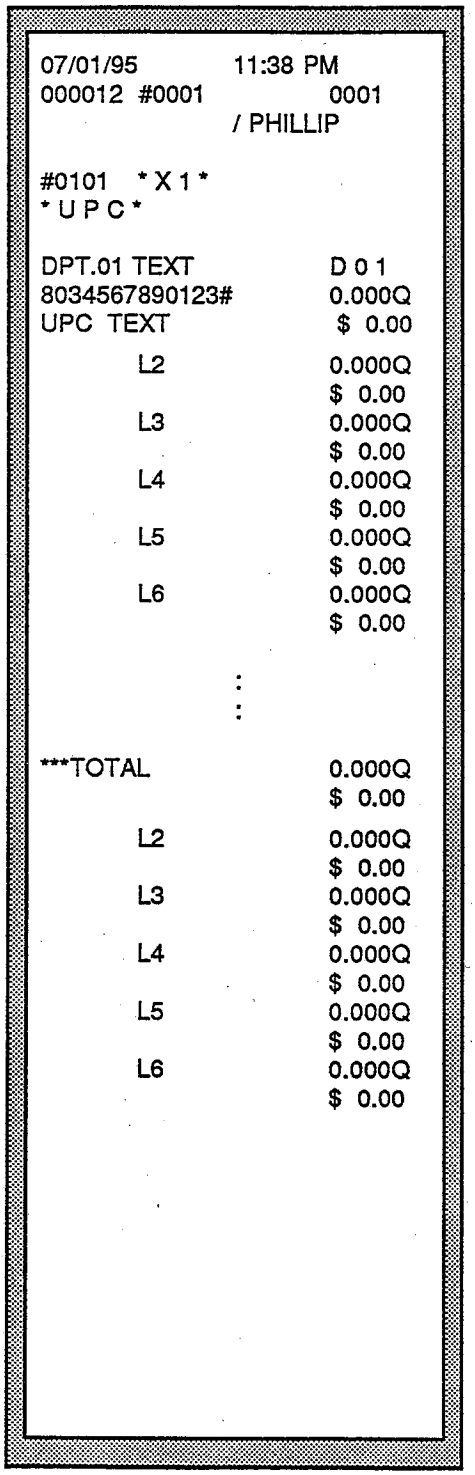
07/01/95	11:38 PM	date / time
000012 #0001	0001	machine no. / consecutive no.
	/ PHILLIP	server name
#0109 * Z 1 *		report no. / type report
* U P C *		report title
	Z1 0001	reset counter
8034567890123#	0.000Q	UPC code / 1st price quantity
UPC TEXT	$ 0.00	UPC text / 1st price sales total
L2	0.000Q	2nd price text / 2nd price quantity
	$ 0.00	2nd price sales total
L3	0.000Q	3rd price text / 3rd price quantity
	$ 0.00	3rd price sales total
L4	0.000Q	4th price text / 4th price quantity
	$ 0.00	4th price sales total
L5	0.000Q	5th price text / 5th price quantity
	$ 0.00	5th price sales total
L6	0.000Q	6th price text / 5th price quantity
	$ 0.00	6th price sales total
:		
:		
***TOTAL	0.000Q	quantity amount of all 1st price levels
	$ 0.00	sales total for all 1st price levels
L2	0.000Q	quantity amount for all 2nd price levels
	$ 0.00	sales total for all 2nd price levels
L3	0.000Q	quantity amount for all 3rd price levels
	$ 0.00	sales total for all 3rd price levels
L4	0.000Q	quantity amount of all 4th price levels
	$ 0.00	sales total for all 4th price levels
L5	0.000Q	quantity amount for all 5th price levels
	$ 0.00	sales total for all 5th price levels
L6	0.000Q	quantity amount for all 6th price levels
	$ 0.00	sales total for all 6th price levels

Sample Reports

Description for use:

The UPC report is used to report the details of every retail item as it is scanned up.

< UPC by Department Report >



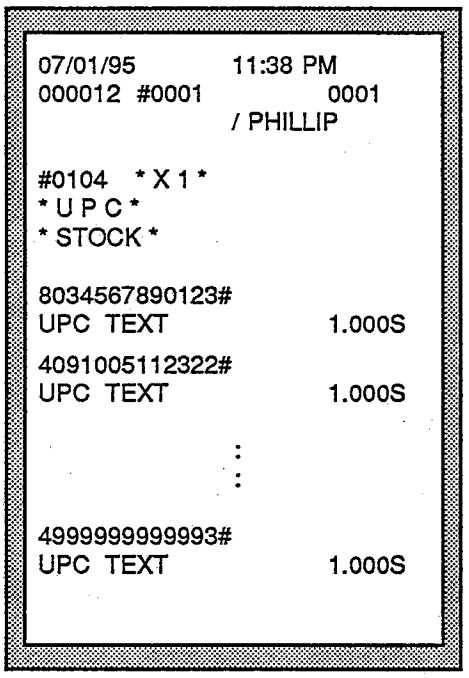
07/01/95	11:38 PM	date / time
000012 #0001	0001	machine no. / consecutive no.
	/ PHILLIP	server name
#0101 * X 1 *		report no. / type report
* U P C *		report title
DPT.01 TEXT	D 0 1	department text / department code
8034567890123#	0.000Q	UPC code / 1st price quantity
UPC TEXT	$ 0.00	UPC text / 1st price sales total
L2	0.000Q	2nd price text / 2nd price quantity
	$ 0.00	2nd price sales total
L3	0.000Q	3rd price text / 3rd price quantity
	$ 0.00	3rd price sales total
L4	0.000Q	4th price text / 4th price quantity
	$ 0.00	4th price sales total
L5	0.000Q	5th price text / 5th price quantity
	$ 0.00	5th price sales total
L6	0.000Q	
	$ 0.00	
⋮		
***TOTAL	0.000Q	quantity total of all 1st price sales
	$ 0.00	sales total for all 1st price sales
L2	0.000Q	quantity total for all 2nd price sales
	$ 0.00	sales total for all 2nd price sales
L3	0.000Q	quantity total for all 3rd price sales
	$ 0.00	sales total for all 3rd price sales
L4	0.000Q	quantity total for all 4th price sales
	$ 0.00	sales total for all 4th price sales
L5	0.000Q	quantity total for all 5th price sales
	$ 0.00	sales total for all 5th price sales
L6	0.000Q	quantity total for all 6th price sales
	$ 0.00	sales total for all 6th price sales

Sample Reports

Description for use:

The UPC by Department report allows you to report retail items by their associated categories.

< UPC by Stock Report >



date / time
machine no. / consecutive no.
server name

report no. / type report
report title

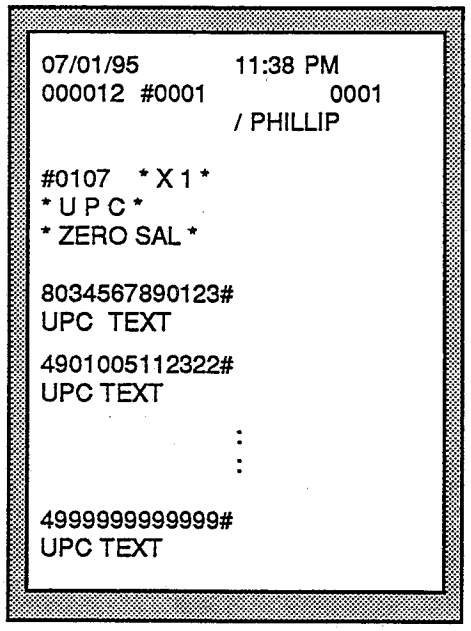
UPC code
UPC text / stock quantity

Sample Reports

Description for use:

Each UPC is provided with a counter for stock control. The data in the counter is increments by the entry of incoming product and decrements by the sale of that item during normal sales transactions.

< UPC Zero Sales Report >



date / time
machine no. / consecutive no.
server name

report no. / type report
report title

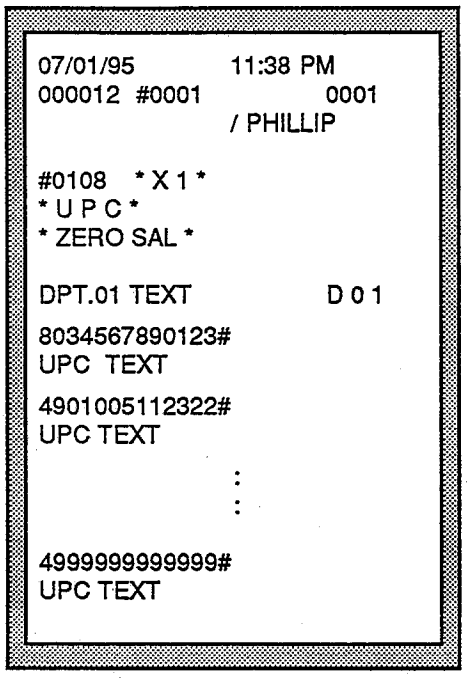
UPC code
UPC text

Sample Reports

Description for use:

The UPC Zero Sales report is intended to provide the retailer with a listing of those items in which there are no sales activity has been recorded. This is especially important when trying to determine which items should be eliminated from inventory or the menu.

< UPC Zero Sales by Department Report >



date / time
machine no. / consecutive no.
server name

report no. / type report
report title

department text / department code

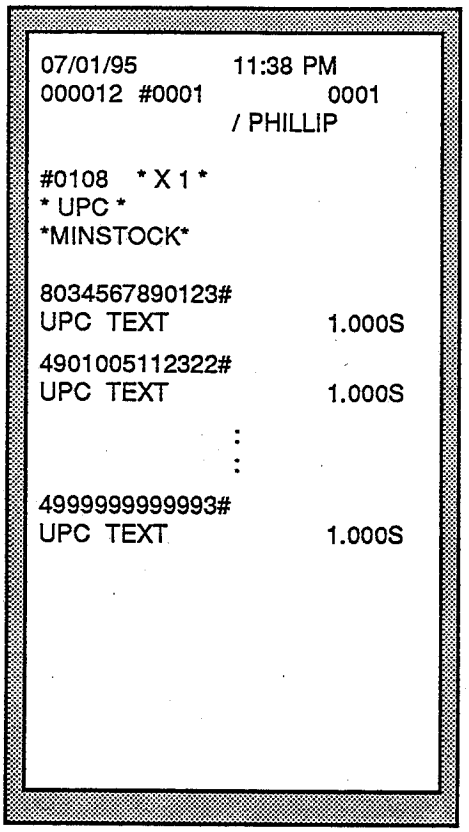
UPC code
UPC text

Sample Reports

Description for use:

The UPC Zero Sales by Department report compliments the individual UPC zero sales report and provides a quick reference of the same information sorted by their associated department.

< UPC Minimum Stock Report >



date / time
machine no. / consecutive no.
server name

report no. / type report
report title

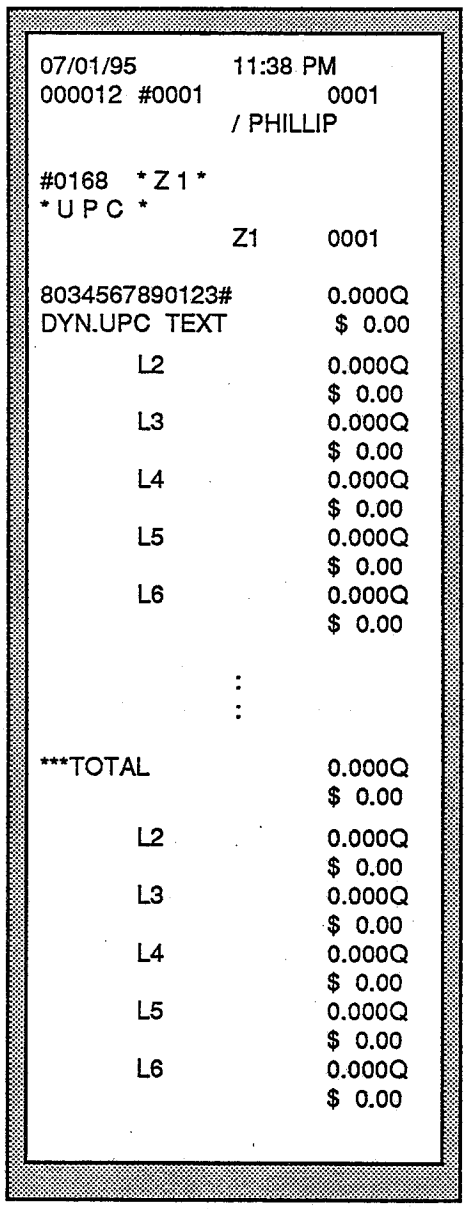
UPC code
UPC text / stock quantity

Sample Reports

Description for use:

For those critical retail items that you can't afford to run out of, the UPC Minimum Stock report provides the restaurant owner/manager with a listing of those items that have reached a critically low amount.

< Dynamic UPC Clear Report >



07/01/95	11:38 PM	date / time
000012 #0001	0001	machine no. / consecutive no.
	/ PHILLIP	server name
#0168 * Z 1 *		report no. / type report
* U P C *		report title
	Z1 0001	reset counter
8034567890123#	0.000Q	Dynamic UPC code / 1st price quantity
DYN.UPC TEXT	$ 0.00	Dynamic UPC text / 1st price sales total
L2	0.000Q	2nd price text / 2nd price quantity
	$ 0.00	2nd price sales total
L3	0.000Q	3rd price text / 3rd price quantity
	$ 0.00	3rd price sales total
L4	0.000Q	4th price text / 4th price quantity
	$ 0.00	4th price sales total
L5	0.000Q	5th price text / 5th price quantity
	$ 0.00	5th price sales total
L6	0.000Q	6th price text / 5th price quantity
	$ 0.00	6th price sales total
***TOTAL	0.000Q	quantity amount of all 1st price levels
	$ 0.00	sales total for all 1st price levels
L2	0.000Q	quantity amount for all 2nd price levels
	$ 0.00	sales total for all 2nd price levels
L3	0.000Q	quantity amount for all 3rd price levels
	$ 0.00	sales total for all 3rd price levels
L4	0.000Q	quantity amount of all 4th price levels
	$ 0.00	sales total for all 4th price levels
L5	0.000Q	quantity amount for all 5th price levels
	$ 0.00	sales total for all 5th price levels
L6	0.000Q	quantity amount for all 6th price levels
	$ 0.00	sales total for all 6th price levels

Note:

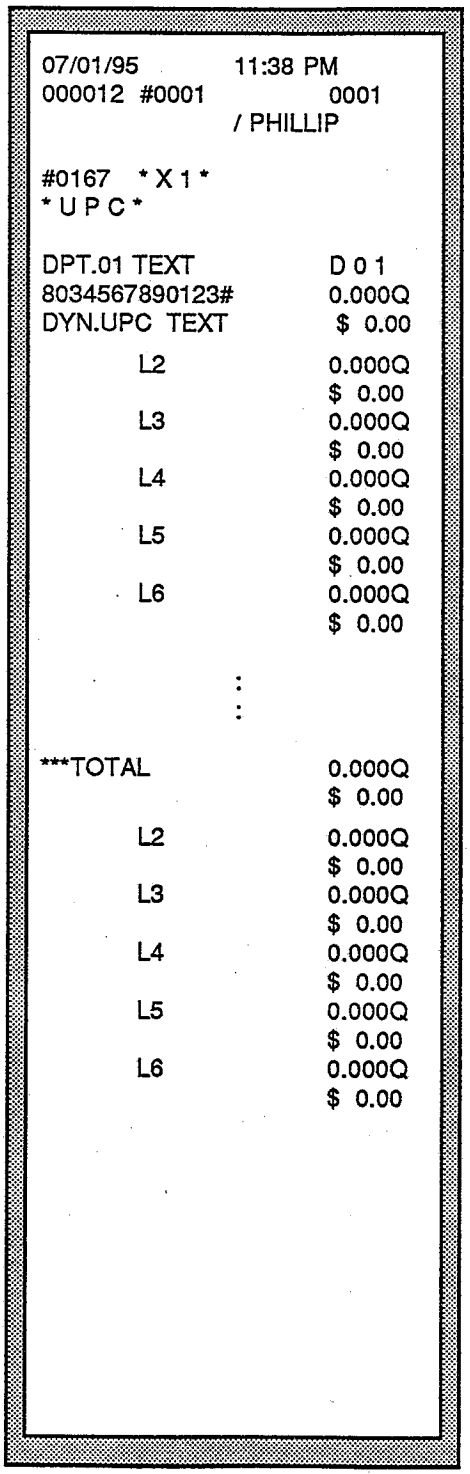
The Report #169 is the reading (X) report for the Dynamic UPC file.

Sample Reports

Description for use:

The Dynamic UPC Clear report is used to report the details and to clear the data of every retail item rung up that was not previously maintained in the UPC file.

< Dynamic UPC by Department Report >



07/01/95	11:38 PM	date / time
000012 #0001	0001	machine no. / consecutive no.
	/ PHILLIP	server name
#0167 * X 1 *		report no. / type report
* U P C *		report title
DPT.01 TEXT	D 0 1	department text / department code
8034567890123#	0.000Q	Dynamic UPC code / 1st price quantity
DYN.UPC TEXT	$ 0.00	Dynamic UPC text / 1st price sales total
L2	0.000Q	2nd price text / 2nd price quantity
	$ 0.00	2nd price sales total
L3	0.000Q	3rd price text / 3rd price quantity
	$ 0.00	3rd price sales total
L4	0.000Q	4th price text / 4th price quantity
	$ 0.00	4th price sales total
L5	0.000Q	5th price text / 5th price quantity
	$ 0.00	5th price sales total
L6	0.000Q	
	$ 0.00	
:		
:		
***TOTAL	0.000Q	quantity total of all 1st price sales
	$ 0.00	sales total for all 1st price sales
L2	0.000Q	quantity total for all 2nd price sales
	$ 0.00	sales total for all 2nd price sales
L3	0.000Q	quantity total for all 3rd price sales
	$ 0.00	sales total for all 3rd price sales
L4	0.000Q	quantity total for all 4th price sales
	$ 0.00	sales total for all 4th price sales
L5	0.000Q	quantity total for all 5th price sales
	$ 0.00	sales total for all 5th price sales
L6	0.000Q	quantity total for all 6th price sales
	$ 0.00	sales total for all 6th price sales

Sample Reports

Description for use:

The Dynamic UPC by Department report allows you to report retail items by their associated categories.

Sample Reports

Description for use:

The Transaction report is the terminal media justification used to determine and report those totalizers related to media and valuable tax related information.

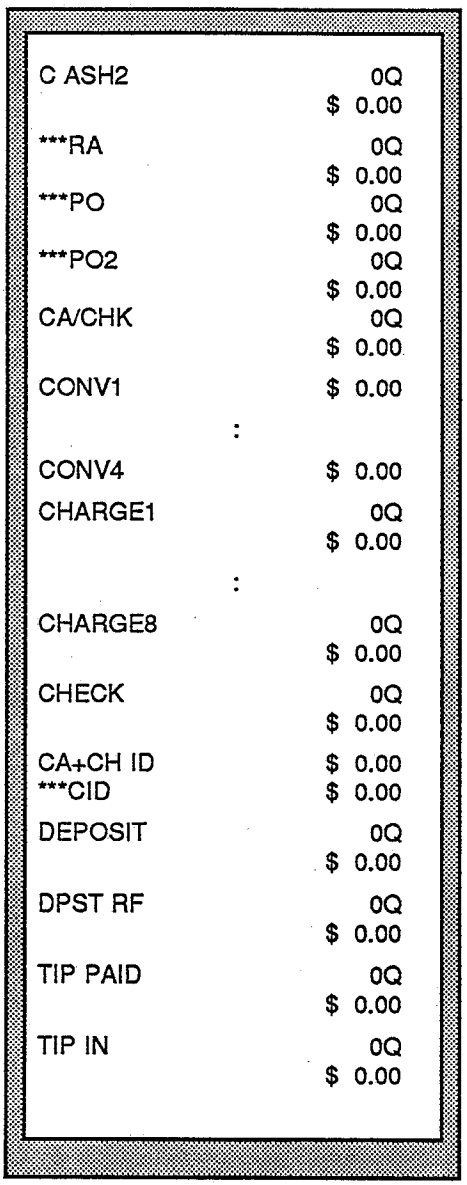
< Transaction Report >

07/01/95 11:38 PM		date / time
000012 #0001	0001	machine no. / consecutive no.
/ PHILLIP		server name
#0130 * Z 1 *		report no. / type report
* TRANS. *		report title
	Z1 0001	reset counter
G T 1	$ 00000000000.00	net grand total dept. code / quantity
G T 2	$ 00000000000.00	positive grand total
G T 3	$ 00000000000.00	negative grand total percent of
T R	$ 00000000000.00	training mode grand total
(-) 1	0Q	sale type coupon total
	$ 0.00	
(-) 2	0Q	
	$ 0.00	
% 1	0Q	sale type % discount total
	$ 0.00	
% 2	0Q	
	$ 0.00	
NET	$ 0.00	net sales total
TAX1 ST	$ 0.00	taxable 1 subtotal
GRS TAX1	$ 0.00	real taxable 1 subtotal
RFD TAX1	$ 0.00	refunded taxable 1 subtotal
TAX1	$ 0.00	net tax 1
TAX1 EXPT	$ 0.00	exempt tax 1
:		
TAX4 ST	$ 0.00	taxable 4 subtotal
GRS TAX4	$ 0.00	real taxable 4 subtotal
RFD TAX4	$ 0.00	refunded taxable 4 subtotal
TAX4	$ 0.00	net tax 4
TAX4 EXPT	$ 0.00	exempt tax 4
GRS MTAX	$ 0.00	gross manual tax
RF MTAX	$ 0.00	refund manual tax
M-TAX	$ 0.00	manual tax total
TTL TAX	$ 0.00	total tax amount

(continued)

N E T	$ 0.00	sales total without tax
N E T 2	$ 0.00	sales total w/ tax
(-) 3	0Q	sale type coupon total
	$ 0.00	(not deducted from net total)
(-) 4	0Q	
	$ 0.00	
% 3	0Q	sale type % discount total
	$ 0.00	(not deducted from net total)
% 4	0Q	
	$ 0.00	
CP PLU	0Q	coupon like PLU sales total
	$ 0.00	
EAT IN1	0Q	eat in - 1 total
	$ 0.00	
:		
EAT IN3	0Q	eat in - 3 total
	$ 0.00	
DIR VD	0Q	last item void totalizer
	$ 0.00	
PAST VD	0Q	past item void totalizer
	$ 0.00	
SBTL VD	0Q	subtotal void totalizer
	$ 0.00	
MGR VD	0Q	void mode item totalizer
	$ 0.00	
V O I D	0Q	void mode transaction totalizer
	$ 0.00	
REFUND	0Q	refund totalizer
	$ 0.00	
HASH VD	0Q	hash last item
	$ 0.00	
HA P.VD	0Q	hash past item
	$ 0.00	
HASH RF	0Q	hash refund
	$ 0.00	
NO SALE	0Q	no sale counter
VPCNT	0Q	validation counter
BILL CNT	0Q	slip (bill) print counter
DRW CNT	0Q	drawer open counter
TRAY CNT	0Q	tray subtotal counter
GRATUITY	$ 0.00	gratuity totalizer
N E T 3	$ 0.00	sales total
C ASH	0Q	cash text / counter
	$ 0.00	sales total

(continued)



C ASH2	0Q	cash2 text / counter
	$ 0.00	sales totalizer
***RA	0Q	received on account totalizer
	$ 0.00	
***PO	0Q	paid out totalizer
	$ 0.00	
***PO2	0Q	paid out-2 totalizer
	$ 0.00	
CA/CHK	0Q	cashed check totalizer
	$ 0.00	
CONV1	$ 0.00	conversion-1 totalizer
:		
CONV4	$ 0.00	conversion-4 totalizer
CHARGE1	0Q	
	$ 0.00	charge1 totalizer
:		
CHARGE8	0Q	charge8 totalizer
	$ 0.00	
CHECK	0Q	check text / counter
	$ 0.00	sales totalizer
CA+CH ID	$ 0.00	cashed check in drawer
***CID	$ 0.00	cash in drawer
DEPOSIT	0Q	guest check deposit totalizer
	$ 0.00	
DPST RF	0Q	deposit refund totalizer
	$ 0.00	
TIP PAID	0Q	tip paid amount
	$ 0.00	(deducts from cash in drawer)
TIP IN	0Q	tip in amount
	$ 0.00	(should equal the tip paid amount)

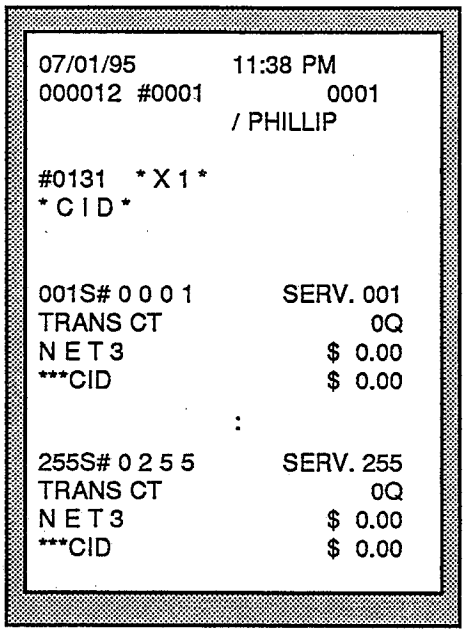
Sample Reports

Sample Reports

Description for use:

The server CID report is a quick way for the restaurant manager/owner to determine individual sales (individual / terminal) in a "flash".

< Cash in Drawer Report >



```
07/01/95          11:38 PM
000012  #0001            0001
                  / PHILLIP

#0131   * X 1 *
* C I D *


001S# 0 0 0 1        SERV. 001
TRANS CT                    0Q
N E T 3                $ 0.00
***CID                 $ 0.00
                  :
255S# 0 2 5 5        SERV. 255
TRANS CT                    0Q
N E T 3                $ 0.00
***CID                 $ 0.00
```

date / time
machine no. / consecutive no.
server name

report no. / type report
report title

server no. / code / name
transaction counter
sales total
cash in drawer totalizer

< Tax Report >

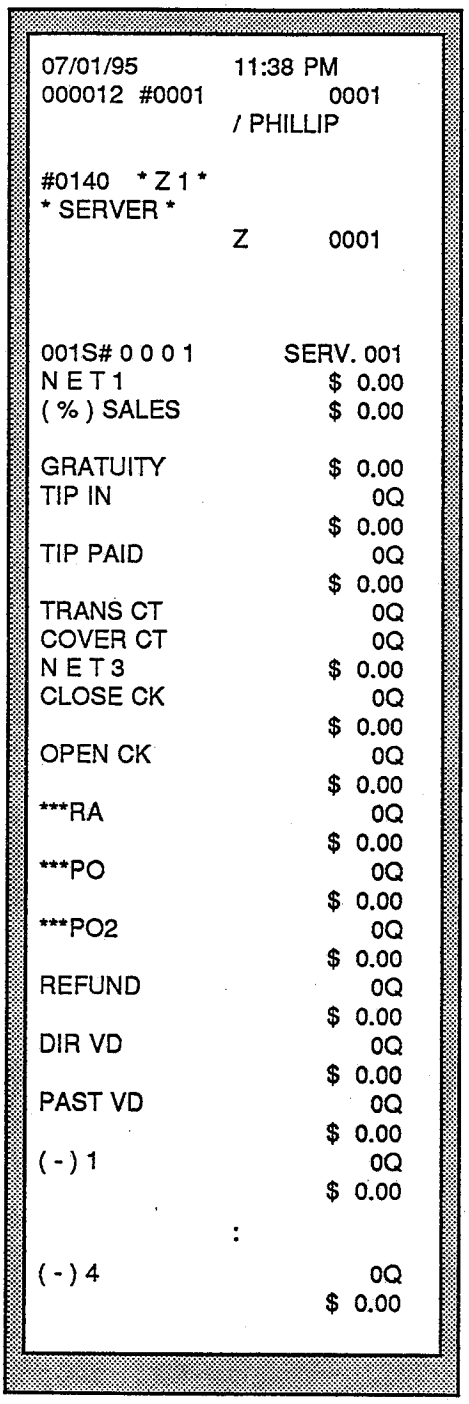
07/01/95	11:38 PM	date / time
000012 #0001	0001	machine no. / consecutive no.
	/ PHILLIP	server name
#0133 * X 1 *		report no. / type report
* TAX *		report title
TAX1 ST	$ 0.00	taxable 1 subtotal
GRS TAX1	$ 0.00	real taxable 1 subtotal
RFD TAX1	$ 0.00	refunded taxable 1 subtotal
TAX1	$ 0.00	net tax 1
TAX1 EXPT	$ 0.00	exempt tax 1
:		
TAX4 ST	$ 0.00	taxable 4 subtotal
GRS TAX4	$ 0.00	real taxable 4 subtotal
RFD TAX4	$ 0.00	refunded taxable 4 subtotal
TAX4	$ 0.00	net tax 4
TAX4 EXPT	$ 0.00	exempt tax 4
GRS MTAX	$ 0.00	gross manual tax
RF MTAX	$ 0.00	refund manual tax
M-TAX	$ 0.00	manual tax total
TTL TAX	$ 0.00	total tax amount

Sample Reports

Description for use:

The Tax report provides management a concise listing of just the tax information. This report is great for separating food vs. liquor sales when food items are linked to tax-1 and liquor items are linked to tax-2.

< Server Report >



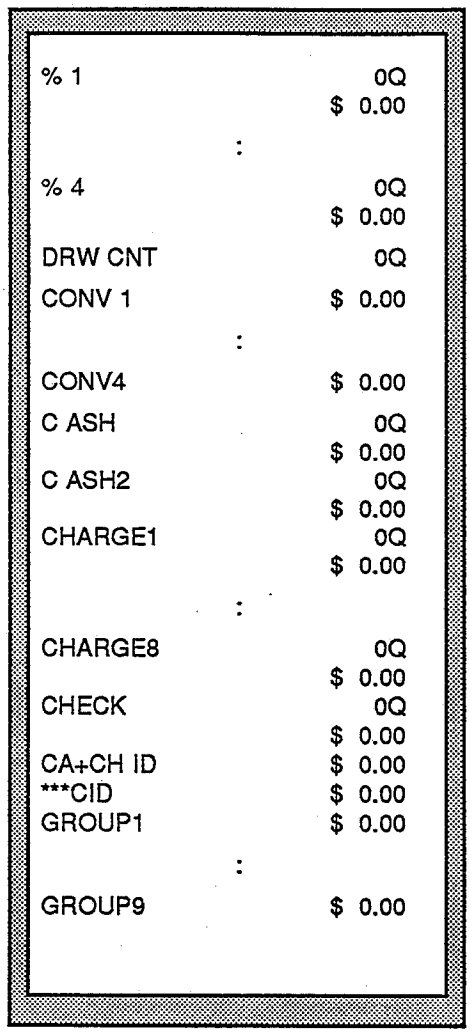
07/01/95	11:38 PM	date / time
000012 #0001	0001	machine no. / consecutive no.
	/ PHILLIP	server name
#0140 * Z 1 *		report no. / type report
* SERVER *		report title
	Z 0001	reset counter
001S# 0 0 0 1	SERV. 001	server no. / code / name
N E T 1	$ 0.00	net sales total
(%) SALES	$ 0.00	percent of net sales
GRATUITY	$ 0.00	gratuity totalizer
TIP IN	0Q	tip in
	$ 0.00	
TIP PAID	0Q	tip paid
	$ 0.00	
TRANS CT	0Q	transaction counter
COVER CT	0Q	cover counter
N E T 3	$ 0.00	sales total
CLOSE CK	0Q	closed check totalizer
	$ 0.00	
OPEN CK	0Q	open check totalizer
	$ 0.00	
***RA	0Q	received on account
	$ 0.00	
***PO	0Q	paid out totalizer
	$ 0.00	
***PO2	0Q	paid out-2 totalizer
	$ 0.00	
REFUND	0Q	refund
	$ 0.00	
DIR VD	0Q	direct void
	$ 0.00	
PAST VD	0Q	past item void
	$ 0.00	
(-) 1	0Q	coupon - 1 totalizer
	$ 0.00	
:		
(-) 4	0Q	coupon - 4 totalizer
	$ 0.00	

(continued)

Sample Reports

Description for use:

The Server report offers new features such as the (%) of sales totalizer and up to (9) server group totals offer the restaurant owner/managers a useful tool for their in-house incentive contests.



% 1	0Q	discount-1 totalizer
	$ 0.00	
:		
% 4	0Q	discount-4 totalizer
	$ 0.00	
DRW CNT	0Q	drawer open counter
CONV 1	$ 0.00	conversion-1 totalizer
:		
CONV4	$ 0.00	conversion-4 totalizer
C ASH	0Q	cash text / counter
	$ 0.00	sales total
C ASH2	0Q	cash2 text / counter
	$ 0.00	sales total
CHARGE1	0Q	charge1 text / counter
	$ 0.00	sales total
:		
CHARGE8	0Q	charge8 text / counter
	$ 0.00	sales total
CHECK	0Q	check text / counter
	$ 0.00	sales total
CA+CH ID	$ 0.00	cashed check in drawer
***CID	$ 0.00	cash in drawer
GROUP1	$ 0.00	server group-1 totalizer
:		
GROUP9	$ 0.00	server group-9 totalizer

Sample Reports

< Hourly Report >

```
07/01/95          11:38 PM
000012 #0001            0001
                  / PHILLIP

#0160   * Z 1 *
* HOURLY *
                  Z1      0001


        5:00AM              0Q
COVER CT                    0Q
                        $ 0.00
AVE.                    $ 0.00
        5:15AM              0Q
COVER CT                    0Q
                        $ 0.00
AVE.                    $ 0.00
        5:30AM              0Q
COVER CT                    0Q
                        $ 0.00
AVE.                    $ 0.00
        5:45AM              0Q
COVER CT                    0Q
                        $ 0.00
AVE.                    $ 0.00
        6:00AM              0Q
COVER CT                    0Q
                        $ 0.00
AVE.                    $ 0.00
SUBTOTAL                $ 0.00
COVER CT                    0Q
                :
        4:00AM              0Q
COVER CT                    0Q
                        $ 0.00
AVE.                    $ 0.00
                :
        4:15AM              0Q
COVER CT                    0Q
                        $ 0.00
AVE.                    $ 0.00
```

date / time
machine no. / consecutive no.
server name

report no. / type report
report title
reset counter

time / transaction count
cover count
sales total
sales average

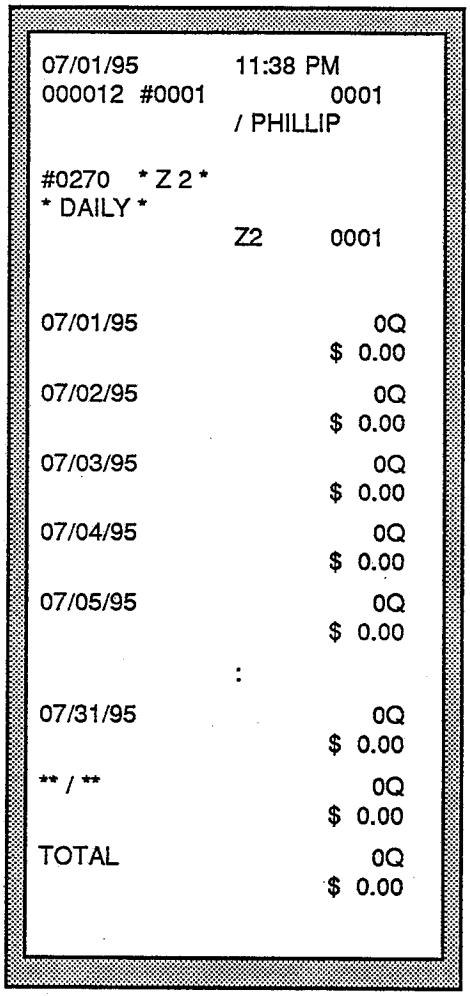
sales subtotal for that hour
cover count by that hour

Sample Reports

Description for use:

The Hourly report has been enhanced to provide 15 min. totals for the full 24-hour period. This report is also available in the 30 min. format.

< Daily Net Report >



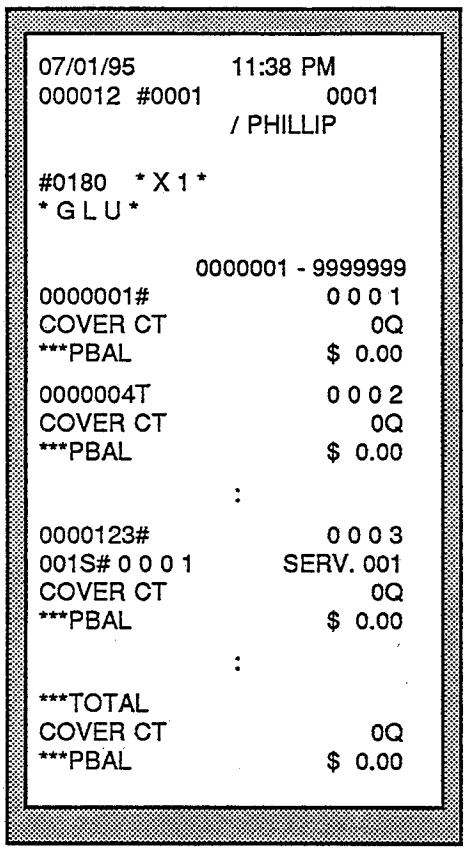
07/01/95	11:38 PM	date / time
000012 #0001	0001	machine no. / consecutive no.
	/ PHILLIP	server name
#0270 * Z 2 *		report no. / type report
* DAILY *		report title
	Z2 0001	reset counter
07/01/95	0Q	date / transaction counter
	$ 0.00	sales total
07/02/95	0Q	
	$ 0.00	
07/03/95	0Q	
	$ 0.00	
07/04/95	0Q	
	$ 0.00	
07/05/95	0Q	
	$ 0.00	
:		
07/31/95	0Q	
	$ 0.00	
** / **	0Q	overflow indicator / transaction counter
	$ 0.00	sales total
TOTAL	0Q	overall counter
	$ 0.00	sales total

Sample Reports

Description for use:

Forget what your net sales total for a year ago today ? The Daily Net report data is useful information for plotting line charts showing monthly sales volume.

< Open GLU Report >



```
07/01/95          11:38 PM
000012  #0001            0001
                 / PHILLIP

#0180    * X 1 *
* G L U *

                0000001 - 9999999
0000001#                  0 0 0 1
COVER CT                      0Q
***PBAL                  $  0.00

0000004T                  0 0 0 2
COVER CT                      0Q
***PBAL                  $  0.00

                  :

0000123#                  0 0 0 3
001S# 0 0 0 1          SERV. 001
COVER CT                      0Q
***PBAL                  $  0.00

                  :

***TOTAL
COVER CT                      0Q
***PBAL                  $  0.00
```

date / time
machine no. / consecutive no.
server name

report no. / type report
report title

range (start / end)
GLU code / server code
cover count
previous balance amount

GLU opened in training mode / server code
cover count
previous balance amount

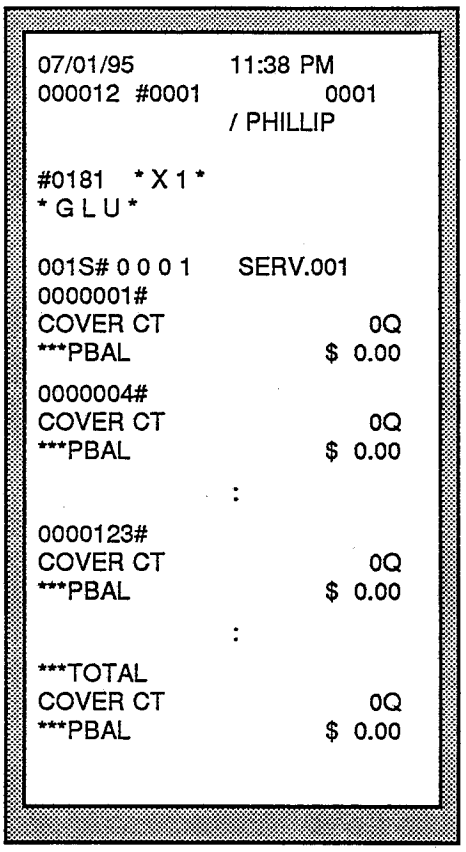
total amount
overall cover count
overall previous balance amount

Sample Reports

Description for use:

Because tax is not updated until the open GLU has been closed out by cash, check, or charge, before resetting your individual terminal or system wide reports, it is always best to take an "X" reading of the open GLU report.

< Open GLU by Server Report >



```
07/01/95          11:38 PM
000012  #0001              0001
                  / PHILLIP

#0181   * X 1 *
* G L U *

001S# 0 0 0 1     SERV.001
0000001#
COVER CT                    0Q
***PBAL                $  0.00
0000004#
COVER CT                    0Q
***PBAL                $  0.00
                :
0000123#
COVER CT                    0Q
***PBAL                $  0.00
                :
***TOTAL
COVER CT                    0Q
***PBAL                $  0.00
```

date / time
machine no. / consecutive no.
server name

report no. / type report
report title

server no. / server name
GLU #
cover count
previous balance amount

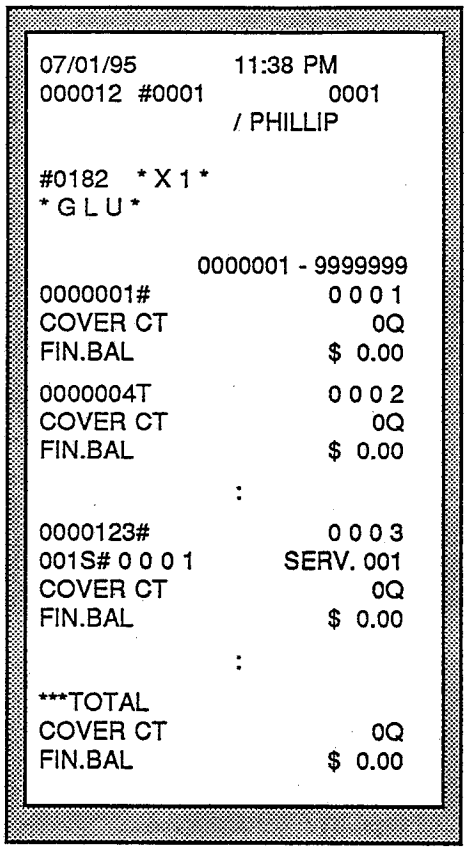
total amount
overall cover count
overall previous balance amount

Sample Reports

Description for use:

To further determine guest check responsibility, the ER-A570/ER-A610 provides the open GLU information by each server responsible for opening that check.

< Closed GLU Report >



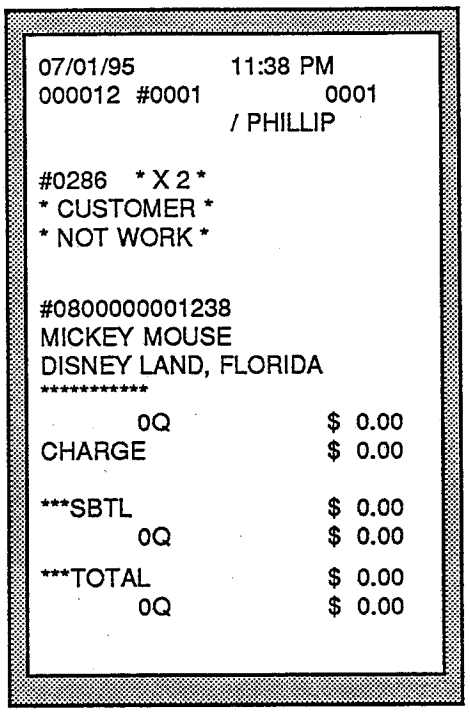
07/01/95 11:38 PM	date / time
000012 #0001 0001	machine no. / consecutive no.
/ PHILLIP	server name
#0182 * X 1 *	report no. / type report
* G L U *	report title
0000001 - 9999999	range (start / end)
0000001# 0 0 0 1	GLU code / server code
COVER CT 0Q	cover count
FIN.BAL $ 0.00	final balance amount
0000004T 0 0 0 2	GLU closed in training mode / server code
COVER CT 0Q	cover count
FIN.BAL $ 0.00	final balance amount
:	
0000123# 0 0 0 3	
001S# 0 0 0 1 SERV. 001	
COVER CT 0Q	
FIN.BAL $ 0.00	
:	
***TOTAL	total amount
COVER CT 0Q	overall cover count
FIN.BAL $ 0.00	overall final balance amount

Sample Reports

Description for use:

When there are concerns about missing checks, and the open GLU report doesn't show any balances, it is convenient for the ER-A570/ER-A610 to report a system wide report that provides summary data for all those checks closed through cash, check, or charge.

< Non-Accessed Customer Sales Report >



```
07/01/95          11:38 PM
000012 #0001            0001
                / PHILLIP

#0286   * X 2 *
* CUSTOMER *
* NOT WORK *

#0800000001238
MICKEY MOUSE
DISNEY LAND, FLORIDA
**********
        0Q              $ 0.00
CHARGE                  $ 0.00

***SBTL                 $ 0.00
        0Q              $ 0.00

***TOTAL                $ 0.00
        0Q              $ 0.00
```

date / time
machine no. / consecutive no.
server name

report no. / type report
report title

sales range
(start code / end code)

customer code / customer data

overall subtotal
quantity / sales total

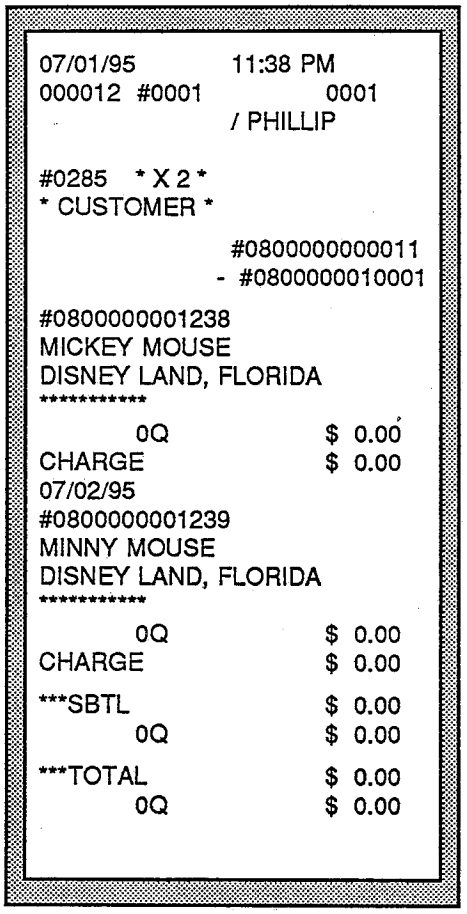
overall total
quantity / sales total

Sample Reports

Description for use:

Know who's charging and who's not with the non-accessed customer sales report.

< Customer Sales Report >



07/01/95 11:38 PM	date / time
000012 #0001 0001	machine no. / consecutive no.
/ PHILLIP	server name
#0285 * X 2 *	report no. / type report
* CUSTOMER *	report title
#0800000000011	customer code range
- #0800000010001	(start code / end code)
#0800000001238	customer code / customer data
MICKEY MOUSE	
DISNEY LAND, FLORIDA	
**********	
0Q $ 0.00	
CHARGE $ 0.00	
07/02/95	
#0800000001239	
MINNY MOUSE	
DISNEY LAND, FLORIDA	
**********	
0Q $ 0.00	
CHARGE $ 0.00	
***SBTL $ 0.00	overall subtotal
0Q $ 0.00	quantity / sales total
***TOTAL $ 0.00	overall total
0Q $ 0.00	quantity / sales total

Job #285 (Z2: reset of detailed data)

Job #289 (Z2: reset of detailed data, total amount, quantity, and charge total)

Sample Reports

Description for use:

For those cafeteria or corporate environments, the new customer sales file will allow monthly billing with the addition of the in-line communications options and host polling software from a P.C.