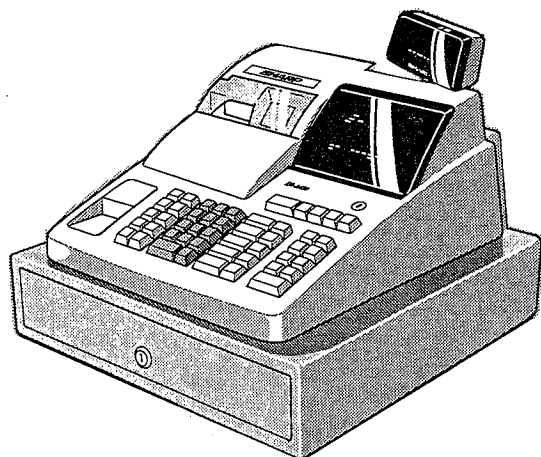


# SHARP PROGRAMMING MANUAL

CODE: 00ZERA430APME

TIME Programming: 2611 . @ time, CASH  
 DATE " " 2600 . @ date, CASH



## ELECTRONIC CASH REGISTER

### MODEL ER-A430

(For "A" version)

SRV KEY : LKGIM7113RCZZ

PRINTER : DP-630-T

#### CONTENTS

CHAPTER 1. SERVICE (SRV) MODE .....	1
CHAPTER 2. PROGRAM (PGM2/PGM1) MODE .....	8
CHAPTER 3. OP X/Z, X1/Z1, X2/Z2 MODE .....	19

# CHAPTER 1. SERVICE (SRV) MODE

The SRV key is used for operating in the SRV mode.

## [JOB# 900]

All parameters contained for the SRV mode as listed

Key operation.

900 → [ @/FOR ] → [ CA/AT ]

## 1. SRV. reset (Program Loop Reset)

Used to return the machine back to its operational state after a lock-up has occurred.

### Procedure

- Method 1
  - 1) Un plug the AC cord from the wall outlet.
  - 2) Set the mode switch to (SRV) position.
  - 3) Plug in the AC cord to the wall outlet.
  - 4) Turn to (SRV) position from (SRV) position.
- Method 2
  - 1) Set the mode switch to PGM2 position.
  - 2) Unplug the AC power cord.
  - 3) While holding down JOURNAL FEED key and RECEIPT FEED key, plug in the AC cord.

Note: When disassembling and reassembling always power up using method 1 only. Method 2 will not reset the CKDCIII.

Note: SRV programming job#926-B must be set to "4" to allow PGM program loop reset.

## 2. Master reset (All memory clear)

Used to clear all memory contents and return machine back to its initial settings. return keyboard back to default. for default keyboard layout.

### Procedure

- 1) Un plug the AC cord from the wall outlet.
- 2) Set the MODE switch to the (SRV) position.
- 3) Plug in the AC cord to the wall outlet.
- 4) While holding down JOURNAL FEED key, turn to (SRV) position from (SRV) position.

## 3. Reading of the SRV mode program

### List of program reports

JOB#	Report name
900	SRV-mode program full item report (not incl. keyboard layout)
950	Keyboard layout report

07/31/92 12:34PM  
123456#0123

DATE (MM/DD/YY)/TIME  
MACHINE NO./CC-NO.

#900

JOB CODE

901# 0002  
902# 0000  
903# 4000  
904# 0000  
905# 0000  
906# 0020  
907# 0010  
908# 0000  
909# 0000  
910# 2000  
911# 0000  
912# 0040  
913# 0004  
914# 0100  
915# 0000  
916# 0000  
917# 0000  
918# 2000  
919# 0000  
920# 0000  
921# 0000  
922# 0000  
923# 0000  
924# 0000  
925# 0000  
926# 0000  
927# 0000  
928# 0000  
929# 0000  
930# Z1 0000  
933# Z1 0000  
934# Z1 0000  
935# Z1 0000  
937# Z2 0000  
942#

CONTENTS OF THE SRV-MODE  
PROGRAMMING  
The contents of the programming  
are printed only on the journal  
individual formats shown at left.  
(No header is printed.)

GT2 \$00000000000.00  
943#  
GT3 -00000000000.00  
975# 0000

GENERAL Z1 RESET COUNTER  
HOURLY Z1 RESET COUNTER  
PLU Z1 RESET COUNTER  
CASHIER Z1 RESET COUNTER  
GENERAL Z2 RESET COUNTER

GT2

GT3

TEXT SIZE/MAX. NUMBER OF DEPT.

**[JOB# 950]**

The Key layout report is printed in SRV mode

Key operation

950 → [ @/FOR ] → [ CA/AT ]

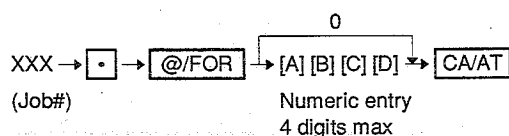
07/31/92 12:34PM  
123456#0123DATE (MM/DD/YY)/TIME  
MACHINE NO./CC-NO.

#950

JOB CODE

001 0 KEY 013  
002 1 KEY 009  
003 2 KEY 014  
:  
:KEY NO./KEY LABEL  
/LOCATION NO.**4. Service mode programming**

The following are the key operation required for programming.

Details of [A][B][C][D] will be discussed at each item description.  
★ mark is MRS setting.**[JOB #901]:MRS=0002**

#901-A: 1. Paper near end sensor

1. Paper near end sensor	901-A
No	0
Yes	1

★

Note: Need to install paper near end sensor

#901-B: 1. TAX system

1. TAX system	901-B
Auto tax 1-4 & manual tax	0
CANADIAN TAX	6

★

#901-C: 1. Rounding system

1. Rounding system	901-C
Normal	0
SINGAPORE	8

★

#901-D: 1. TAB setting

1. TAB setting	901-D
0.0	1
0.00	2
0.000	3

★

**[JOB#902] MRS=0000**

#902-A: 1. Choice of RS-232 option

2. RS-232	902-A
No	0
Yes	2

★

#902-B, C, D: Not used (Fixed at "000")

**[JOB#903] MRS=4000**

#903-A: 1. SIO loader dumper baud rate

1. Baud rate (bps)	903-A
300	0
1200	1
2400	2
4800	3
9600	4

★

#903-B, C: Not used (Fixed at "00")

#903-D: 1. Type of food stamp

1. Type of food stamp	903-D
No food stamp	0
Tax not payable in food stamps	1
Tax payable in food stamps	2
Food stamp forgiveness	3

★

**[JOB#904] NOT USED: MRS=0000****[JOB#905] MRS=0000**#905-A: 1. Taxable 4 subtotal print on X/Z report.  
2. Gross Tax 4 and refund Tax 4 total print on X/Z report.  
3. Net Tax 4 total print on X/Z report.

1. Taxable 4 SBTTL	2. Gross Tax 4 and refund Tax 4	3. Net Tax 4	905-A
Print	Print	Print	0
		Skip	1
	Skip	Print	2
		Skip	3
Skip	Print	Print	4
		Skip	5
	Skip	Print	6
		Skip	7

★

#905-B: 1. Tax printing when taxable subtotal is zero.  
2. Tax printing when GST is VAT.  
3. Tax printing when tax is zero.

1. Taxable subtotal is zero	2. GST is VAT	3. Tax is zero	905-B
Skip	Print	Print	0
		Skip	1
	Skip	Print	2
		Skip	3
Print	Print	Print	4
		Skip	5
	Skip	Print	6
		Skip	7

★

#905-C: 1. GST EXPT print on X/Z report

1. GST EXPT	905-C
Print	0
Skip	4

★

## #905-D: 1. TAX METHOD

	Tax4 method(GST)	Tax3 method		Tax2, 1 method (PST)	905-D
		GST	PST		
Type ①	VAT	VAT		Tax on Tax	0
Type ②				Tax on Base	1
Type ③	VAT			Tax on Tax	2
Type ④				Tax on Base	3
Type ⑤	Add on Tax			Tax on Tax	4
Type ⑥				Tax on Base	5
Type ⑦	Add on Tax	VAT		Tax on Tax	6
Type ⑧				Tax on Base	7
Type ⑨	Add on Tax	Add on Tax		Tax on Tax	8
Type ⑩				Tax on Base	9

★

## [JOB#906] MRS=0020

## #906-A: 1. Print dept and PLU number on receipt

1. Print dept and PLU number	906-A
No	0
Yes	4

★

#906-B: 1. Bottle return function  
2. Hash departments

1. Bottle return	2. Hash departments	906-B
No	Disable	0
	Enable	2
Yes	Disable	4
	Enable	6

★

#906-C: 1. Split pricing counting  
2. Multiplication entry

1. Split pricing counting	2. Multiplication entry	906-C
Quantity	Multiplication	0
	Split pricing & Multiplication	2
Package	Multiplication	4
	Split pricing & Multiplication	6

★

## #906-D: Not used (Fixed at "0")

## [JOB#907] NOT USED: MRS=0010

## #907-A, B: Not used (Fixed at "00")

## #907-C: 1. Minus sign setting for DEPT./PLU

1. Minus sign setting for DEPT./PLU	907-C
Disable	0
Enable	1

★

## #907-D: Not used (Fixed at "0")

## [JOB#908] MRS=0000

## #908-A: GT print on Z report

1. GT1 (NET)	2. GT2 (+)	3. GT3 (-)	908-A
Print	Print	Print	0
		Skip	1
	Skip	Print	2
		Skip	3
Skip	Print	Print	4
		Skip	5
	Skip	Print	6
		Skip	7

★

## #908-B: GT print on X report

1. GT1 (NET)	2. GT2 (+)	3. GT3 (-)	908-B
Skip	Skip	Skip	0
		Print	1
	Print	Skip	2
		Print	3
Print	Skip	Skip	4
		Print	5
	Print	Skip	6
		Print	7

★

## #908-C: 1. Add void-mode transaction data to hourly total report

1. Add void-mode transaction data to hourly total report	908-C
No	0
Yes	4

★

#908-D: 1. Printing X/Z report Journal only/Receipt & Journal (Except the individual cashier report)  
2. Z1 resetting, resets GT Enable/Disable

1. Printing X/Z report	2. GT resetting at Z1	908-D
Receipt & Journal	Disable	0
	Enable	1
Journal	Disable	4
	Enable	5

★

## [JOB#909] MRS=0000

#909-A: 1. Printing of training GT on X report  
2. Printing of training GT on Z report

1. Printing of training GT on X report	2. Printing of training GT on Z report	909-A
Skip	Print	0
	Skip	1
Print	Print	2
	Skip	3

★

## #909-B: 1. Not used (Fixed at "0")

#909-C: 1. Printing of data in void-mode totalizer and manager void totalizer on Z2 report  
2. Printing of data in void-mode totalizer and manager void totalizer on Z1 report

1. Void-mode totalizer on Z2 printing	2. Void-mode totalizer on Z1 printing	909-C
Print	Print	0
	Skip	2
Skip	Print	4
	Skip	6

★

## #909-D: Not used (Fixed at "0")

## [JOB#910] MRS=2000

## #910-A: 1. Include/Exclude tax in cashier sales total

1. Cashier total	910-A
Tax excluded	0
Tax included	2

★

## #910-B,C,D: Not used (Fixed at "000")

**[JOB#911] MRS=0000**

#911-A: 1. Fraction treatment

1. Fraction treatment	911-A
Round off	0
Round up	1
Round down	2

★

#911-B,C,D: Not used (Fixed at "000")

**[JOB#912] MRS=0040**

#912-A: 1. Date print format

Date format	912-A
Month/Day/Year	0
Day/Month/Year	1
Year/Month/Day	2

★

#912-B: 1. Time system

1. Time system	912-B
12H	0
24H	1

★

#912-C: 1. After transaction receipt format  
2. Copy receipt  
3. Footer print control

1. After transaction receipt	2. Copy receipt	3. Footer print control	912-C
Total only	No	All receipt	0
		On selected function keys at the time of finalization	1
	Yes	All receipt	2
		On selected function keys at the time of finalization	3
Detail	No	All receipt	4
		On selected function keys at the time of finalization	5
	Yes	All receipt	6
		On selected function keys at the time of finalization	7

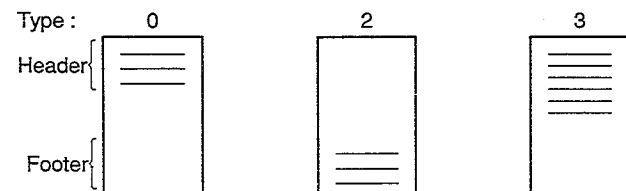
★

#912-D: 1. Logo message control

1. Logo message control	912-D
3-line header	0
3-line footer	2
6-line header	3

★

(Logo message format)

**[JOB#913] MRS = 0004**

#913-A: 1. Validation print format on Receipt/Journal  
2. Content of TOTAL VP amount

VP=Validation print

1. VP format	2. VP amount	913-A
Date & amount	Total amount	0
	Tendered amount	1
Machine# & amount	Total amount	2
	Tendered amount	3

★

#913-B: 1. Printing of [SBTL]  
2. Escape the compulsion of VP

NOTE: Must turn to MGR mode and depress  
[•], [PRINT] keys to escape validation

1. SBTL Print	3. Escape the compulsion of VP	913-B
No	Disable	0
	Enable	1
Yes	Disable	4
	Enable	5

★

#913-C: 1. Buzzer off 2 sec after lock error.  
2. Buffered keyboard

1. Error beep	2. Buffered keyboard	913-C
2-second off	Yes	0
	No	1
Constant	Yes	2
	No	3

★

#913-D: 1. Drawer closing operation compulsory  
2. Error mode  
3. Key catch sound

1. Drawer closed compulsory	2. Error mode	3. Key catch sound	913-D
Non-compulsory	All lock error	Enable	0
		Disable	1
	Lock and one shot	Enable	2
		Disable	3
Compulsory	All lock error	Enable	4
		Disable	5
	Lock and one shot	Enable	6
		Disable	7

★

**[JOB#914] MRS = 0100**

#914-A: 1. Receipt issuing at no-sale  
2. [NS] key separation from [CA/AT] key for no sale function  
3. Tax delete operation

1. Receipt issuing at no-sale	2. [NS] key separation	3. Tax delete	914-A
Enable	Yes	Inhibit	0
		Enable	1
	No	Inhibit	2
		Enable	3
Disable	Yes	Inhibit	4
		Enable	5
	No	Inhibit	6
		Enable	7

★

#914-B: 1. No-sale after NON ADD code entry

1. No-sale after # entry	914-B
Disable	0
Enable	1

★

#914-C 1. Void mode

1. Void mode	914-C
Enable	0
Disable	2

★

#914-D: 1. Manual tax Disable/Enable  
2. CHECK CASHING Enable/Disable

1. Manual tax	2. CHECK CASHING	914-D
Enable	Disable	0
	Enable	2
Disable	Disable	4
	Enable	6

★

[JOB#915] MRS = 0000

#915-A: 1. Amount symbol

1. Amount symbol	915-A
" \$ "	0
" * "	1
" "	2

★

#915-B: Not used (Fixed at "0")

#915-C: 1. ST%, ST(-) as many times needed/operation only once

1. ST%, ST (-) operation	915-C
Unlimited	0
Once only	2

★

#915-D: Not used (Fixed at "0")

[JOB#916] MRS = 0000

#916-A: 1. Print format when text and amount overlaps in REG mode

1. Print format	916-A
Truncate text	0
2 line print	1

★

#916-B: 1. Finalization by charge when ST ≤ 0  
2. Food stamp subtotal entry before food stamp tender

1. Finalization by charge when ST ≤ 0	1. Food stamp subtotal entry before food stamp tender	916-B
RF type of sale only	Non-compulsory	0
	Compulsory	1
Always	Non-compulsory	4
	Compulsory	5

★

#916-C:

1. Negative merchandise subtotal
2. Subtotal entry compulsory before tendering
3. Subtotal entry before direct non-tendering finalization

1. Negative merchandise subtotal	2. Subtotal entry	3. Subtotal entry before direct non-tendering finalization	916-C
Allow	Noncompulsory	Non-compulsory	0
		Compulsory	1
Disallow	Compulsory	Non-compulsory	2
		Compulsory	3
	Non-compulsory	Non-compulsory	4
		Compulsory	5
Compulsory	Non-compulsory	Non-compulsory	6
		Compulsory	7

★

#916-D: 1. Negative PLU printing on X/Z report  
2. Net sales subtotal (NET1) printing on X/Z report  
3. CHECK change total printing on X/Z report

1. Print negative PLU on general report	2. Print net sales SBT (NET1) on general report	3. Print CHK CHANGE on general report	916-D
Print	Print	Print	0
		Skip	1
Skip	Skip	Print	2
		Skip	3
	Print	Print	4
		Skip	5
	Skip	Print	6
		Skip	7

★

[JOB#917] MRS = 0000

#917-A: 1. Taxable 1 subtotal on X/Z report  
2. Gross Tax 1 and refund Tax 1 total on X/Z report  
3. Net Tax 1 total on X/Z report

Taxable 1 subtotal on X/Z report	Gross Tax1 and refund Tax1 total on X/Z report	Net Tax1 total on X/Z report	917-A
Print	Print	Print	0
		Skip	1
Skip	Skip	Print	2
		Skip	3
	Print	Print	4
		Skip	5
	Skip	Print	6
		Skip	7

★

- #917-B: 1. Taxable 2 subtotal on X/Z report: Print or Skip  
 2. Gross Tax 2 and refund Tax 2 total on X/Z report: Print or Skip  
 3. Net Tax 2 total on X/Z report: Print or Skip

Taxable 2 subtotal on X/Z report	Gross Tax2 and refund Tax2 total on X/Z report	Net Tax2 total on X/Z report	917-B
Print	Print	Print	0
		Skip	1
	Skip	Print	2
		Skip	3
Skip	Print	Print	4
		Skip	5
	Skip	Print	6
		Skip	7

- #917-C: 1. Taxable 3 subtotal on X/Z report  
 2. Gross Tax 3 and refund Tax 3 total on X/Z report  
 3. Net Tax 3 total on X/Z report

Taxable 3 subtotal on X/Z report	Gross Tax3 and refund Tax3 total on X/Z report	Net Tax3 total on X/Z report	917-C
Print	Print	Print	0
		Skip	1
	Skip	Print	2
		Skip	3
Skip	Print	Print	4
		Skip	5
	Skip	Print	6
		Skip	7

- #917-D: 1. Total Tax amount on X/Z report  
 2. Gross manual Tax and refund manual Tax on X/Z  
 3. Net manual Tax total on X/Z report

Total Tax Amount	Gross manual Tax and Refund manual Tax on X/Z report	Net manual Tax total on X/Z report	917-D
Print	Print	Print	0
		Skip	1
	Skip	Print	2
		Skip	3
Skip	Print	Print	4
		Skip	5
	Skip	Print	6
		Skip	7

[JOB#918] MRS = 2000

- #918-A: 1. Direct non-tendering finalization after previous tender entry

1. Direct non-tendering finalization after previous tender entry	917-D
Disable	0
Enable	2

#918-B, C, D: Not used (Fixed at "000")

[JOB#919] MRS = 0000

919-A, B: Not used (Fixing at "00")

- 919-C: 1. Choice of amount print or skip print when PLU unit price is 0

1. Amount print	919-C
Skip	0
Print	1

- 919-D: 1. Conversion SBTB printing

1. Conversion SBTB print	919-D
Yes	0
No	4

[JOB#920] NOT USED : MRS = 0000

[JOB#921] NOT USED : MRS = 0000

[JOB#922] NOT USED : MRS = 0000

[JOB#923] NOT USED : MRS = 0000

[JOB#924] NOT USED : MRS = 0000

[JOB#925] NOT USED : MRS = 0000

[JOB#926] MRS = 0000

#926-A: Not used (Fixed at "0")

- #926-B: 1. Program reset at PGM 2 mode

1. Program reset at PGM2 mode	926-B
Disable	0
Enable	4

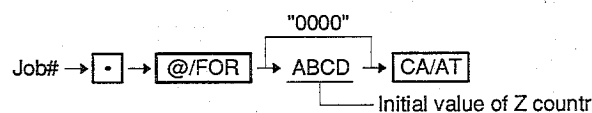
#926-C, D: Not used (Fixed at "00")

[JOB#927] NOT USED: MRS = 0000

[JOB#928] NOT USED: MRS = 0000

[JOB#929] NOT USED: MRS = 0000

[JOB#930, 933~935, 937] MRS = 0000

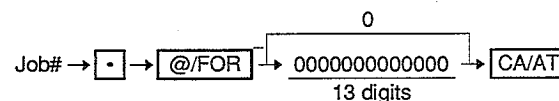


#### RESET REPORT COUNTER

JOB #	Function
930	Z1 report counter (General report)
933	Hourly Z1 report counter
934	PLU Z1 report counter
935	Cashier Z1 report counter
937	Z2 general report counter

[JOB#942, 943] MRS = 00000000000000

#### GT COUNTER PRESETTING



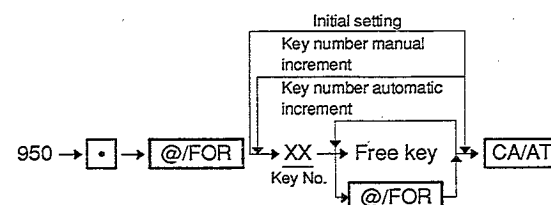
JOB #	Function
942	GT2 (Positive GT)
943	GT3 (Negative GT)

Note: GT1 is obtained by calculation

$$\text{Equation: GT1} = \text{GT2} - \text{GT3}$$

[JOB#950] MRS = STANDARD KEY LAYOUT

Free key layout



## FUNCTION KEY LIST

Key No.	Function	Func. Key
12	000 KEY	000 KEY
18	MDSE SBT	MDS ST
19	TRAY SBT	TRY ST
20	#	#
21	NO SALE	NS
22	PLU/SUB	PLU/SUB
23	REFUND SALE	RF SAL
24	TAX1 SHIFT	TAX1 SF
25	TAX2 SHIFT	TAX2 SF
26	TAX3 SHIFT	TAX3 SF
27	TAX4 SHIFT	TAX4 SF
28	FS SHIFT	FS SHT
29	PRINT	PRINT
30	RCPT	RCPT
31	VOID	VOID
32	REFUND	RFND
33	%1	%1
34	%2	%2
35	%3	%3
36	%4	%4
37	(-)-1	(-)-1
38	(-)-2	(-)-2
39	TAX	TAX
40	AUTO	AUTO
41	AUTO2	AUTO2
42	AUTO3	AUTO3
43	AUTO4	AUTO4
44	AUTO5	AUTO5
45	CASH2	CA2
46	CHECK	CHK
47	CH1	CH1
48	CH2	CH2
49	CH3	CH3
50	CH4	CH4
51	CH5	CH5
51	CONV1	CONV1
53	CONV2	CONV2
54	CONV3	CONV3
55	CONV4	CONV4
56	FS TEND	FSTEND
57	RA	RA
58	PO	PO
59	DEPT01	DEPT01
60	DEPT02	DEPT02
↓		
98	DEPT40	DEPT40

## ER-A430 KEY POSITION

029	036	043	050	057	064
028	035	042	049	056	063
027	034	041	048	055	062
026	033	040	047	054	061
025	032	039	046	053	060
024	031	038	045	052	059
023	030	037	044	051	058

key position is not free.

These keys are assigned fixed key.

## [JOB#975] MRS = 0000

DEPT./PLU TEXT SIZE PROGRAMMING.

Key operation

975 → [ ] → [ @/FOR ] → ABCD → [ @/FOR ]  
File group No.

#975-A, B: 1. Text size of DEPT./PLU

1. Text size of DEPT./PLU	975-A, B
8 character	00
12 character	11

★

#975-C, D: Max. number of DEPT. = 01~40

[JOB#996, 998] SIO data send/receive (ECR↔ECR,  
ECR↔ER-02FD)

## [JOB#996] SIO data send

996 → [ ] → [ @/FOR ] → [ CA/AT ]

## [JOB#998] SIO data receive

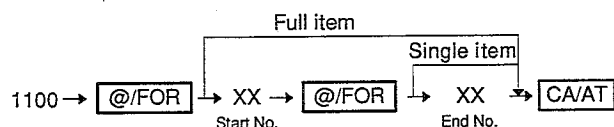
998 → [ ] → [ @/FOR ] → [ CA/AT ]

## CHAPTER 2. PROGRAM (PGM2/PGM1) MODE

### 1. Reading of the PGM mode program

#### [JOB#1100]: DEPT reading

Key operation



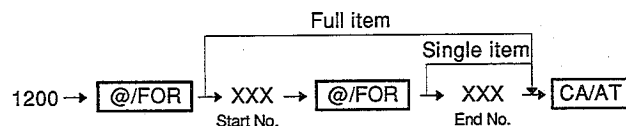
01/02/91 10:30AM 123456#0123	DATE/TIME MACHINE NO./CC-NO.
#1100 *PGM1 *	JOB CODE/MODE TITLE
D01 -1000.00 DPT. 01 G01 0003 FT1234 L18	DPT CODE/SIGN. PRICE TEXT/GROUP No. (*1) PROGRAM/FS TAXABLE/HALO

(\*1) PROGRAM : ABCDEFG

A: Item vp compulsory/noncompulsory	1/0
B: SIF/SICS/Normal	2/1/0
C: Bottle return/HASH/Normal	2/1/0
D: Amount entry type	3/2/1/0
Open and preset/preset/open/inhibited	

#### [JOB#1200]: PLU reading

Key operation



01/02/91 10:30AM 123456#0123	DATE/TIME MACHINE NO./CC-NO.
#1200 *PGM1 *	JOB CODE/MODE TITLE
P001 (01) /00 FT1234 -1000.00 PLU.001 3	Associated PLU CODE/DEPT code/BASE Q'TY FS. TAXABLE/SIGN. PRICE TEXT/(*1)PROGRAM
P001 ---	WHEN DELETE PLU

(\*1) PROGRAM : ABC

A: Amount entry type  
Open and preset/preset/open /inhibited = 3/2/1/0  
(PLU) (SUB-dept)

#### [JOB#1300]

FUNCTION PRESET READING REP.

Key operation

1300 → @/FOR → CA/AT

01/02/91 10:30AM 123456#0123	DATE/TIME MACHINE NO./CC-NO.
#1300 *PGM1 *	JOB CODE/MODE TITLE
F001 ( - ) 1 1 1 FT1234 L17 F002 ( - ) 2 0 0 FT1234 L17 F003 % 1 1 -10.00% FT1234 L 20.00% F004 % 2 0 -20.00% FT1234 L 30.00%	FUNCTION NO. / TEXT / PROGRAM 1: ITEM SIGN (1 = (-), 0 = (+)) / FS. TAX / HALO 0: SBT  RATE FS. TAX / HALO
F030 M-TAX L18	MANUAL TAX
F052 CASH L18 0000000000	(*1) PGM
F057 CA/CHK 999999.99	HALO
F058 CHK/CG 999999.99	HALO
F060 CONV.1 9999.9999	RATE
F077 ****CID 9999999.99	SENTINEL
F078 GROUP1	
F079 GROUP2	

(\*1) PGM : ABCDEFGHIJ

A: Footer print	Yes/No.	1/0
B: Non-add code entry	compulsory/noncompulsory	1/0
C: Change due	Disable/Enable	1/0
D: VP	compulsory/noncompulsory	1/0
E: Taxable 4 delete	Yes/No.	1/0
F: Taxable 3 delete	Yes/No.	1/0
G: Taxable 2 delete	Yes/No.	1/0
H: Taxable 1 delete	Yes/No.	1/0
I: Drawer opening	No./Yes	1/0
J: Entry of amount tendered		
compulsory/noncompulsory (Cash/check)		1/0
compulsory/inhibit (CH1 to 8)		1/0

**[JOB#2600]**

READING OF OTHER

Key operation

2600 → **@/FOR** → **CA/AT**01/02/91 10:30AM  
123456#0123DATE/TIME  
MACHINE NO./CC-NO.

#2600 \*PGM2\*

JOB CODE/MODE TITLE

#2614

LOGO MESSAGE

YOUR  
RECEIPT  
THANK YOU  
SHARP  
IS  
THE BEST

#2615 1

(\*1) VP

#2616

(\*2) OPTIONAL FEATURE

1 00000000

2 00000000

3 00000000

#2617 000

TILL TIMER

#2620

STACK REPORT

20

001-100

50

(\*1) VP : a

a: NO. OF TIMES OF VALIDATION PRINTING = 0 to 9

(\*2) Optional feature : ABCDEFGH

x : 1

A: OP X/Z report Disable/Enable 1/0

B: PO operation in REG mode Disable/Enable 1/0

C: Refund type of sale function  
in REG mode Disable/Enable 1/0D: "REFND" key entry  
in REG mode Disable/Enable 1/0

E: Direct void function in REG Disable/Enable 1/0

F: Indirect void in REG mode Disable/Enable 1/0

G: Subtotal void in REG  
mode Disable/Enable 1/0

H: Refund VP Compulsory/Noncompulsory 1/0

x : 2

A: The first item direct void Disable/Enable 1/0

B: 0 fixed 0

C: 0 fixed 0

D: Printing of the number Yes/No. 1/0  
of purchases

E: Time print No/Yes 1/0

F: Journal select/Full print Disable/Enable 1/0

G: Item VP Disable/Enabl 1/0

H: Coupon VP Compulsory/Noncompulsory 1/0

x : 3

A: 0 fixed 0

B: 0 fixed 0

C: 0 fixed 0

D: Zero skip in cashier report No/Yes 1/0

E: Zero skip in transaction report No/Yes 1/0

F: Zero skip in DEPT. report No/Yes 1/0

G: Zero skip in PLU report No/Yes 1/0

H: Zero skip in hourly report No/Yes 1/0

**[JOB#2900]**

Auto key reading (PGM2 mode position)

Key operation

2900 → **@/FOR** → **CA/AT**01/02/91 10:30AM  
123456#0123DATE/TIME  
MACHINE NO./CC-NO.

#2900 \*PGM2\*

JOB CODE/MODE TITLE

#01

1 key

0 key

0 key

CA/AT

#02

DEPT01

DEPT02

(DEPT01)

**[JOB#1500]**

CASHIER READING REP.

Key operation

1500 → **@/FOR** → **CA/AT**01/02/91 10:30AM  
123456#0123DATE/TIME  
MACHINE NO./CC-NO.

#1500 \*PGM1\*

JOB CODE/MODE TITLE

01CSR# 01

CASHIER CODE

CASHIER-A D1

NAME/DRAWER NO.

02CSR# 02

CASHIER-B D1

03CSR# 03

CASHIER-D D1

04CSR# 04

CASHIER-E D1

**[JOB#2700]**

## TAX TABLE READING REP.

Key operation

2700 → **@/FOR** → **CA/AT**

01/02/91 10:30AM	DATE/TIME
123456#0123	MACHINE NO./CC-NO.
#2700 *PGM2*	JOB CODE/MODE TITLE
TAX1 10.0000%	CYCLE
/ 1.00	TAX./BREAK POINT AMOUNT
1 0.11	
2 0.23	
3 0.57	
4 0.78	
5 1.11	
TAX2 4.0000%	KIND OF VAT/TAX/ RATE
0.10	LOWER TAX LIMIT
TAX3 5.0000%	
0.20	
TAX4 6.0000%	
0.30	

B: SICS Function	2110-B
Normal	0
Single item cash sale	1
Single item finalize	2

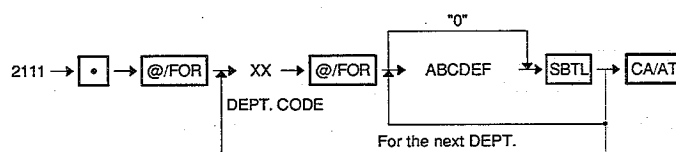
C: Selection of the group	2110-C
Normal	0
Hash	1
Bottle return	2

D: Amount entry type	2110-D
Inhibited	0
Open	1
Preset	2
Open and preset	3

MRS = 0001

**[JOB#2111]**

DEPT. TAX STATUS AND SIGN PROGRAMMING



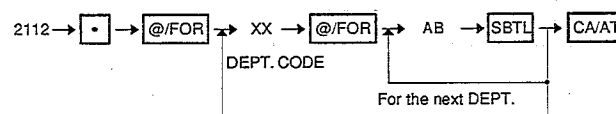
XX: DEPT. CODE = 01 ~ 40

A: SIGN-	= 1
SIGN+	= 0
B: Food stampable	= 1
Non-food stampable	= 0
C: Taxable 4	= 1
Non-taxable 4	= 0
D: Taxable 3	= 1
Non-taxable 3	= 0
E: Taxable 2	= 1
Non-taxable 2	= 0
F: Taxable 1	= 1
Non-taxable 1	= 0

MRS = 000000

**[JOB#2112]**

DEPT. HALO (limit) preset



XX: DEPT. CODE = 01 ~ 40

A: Mantissa = 1 ~ 9

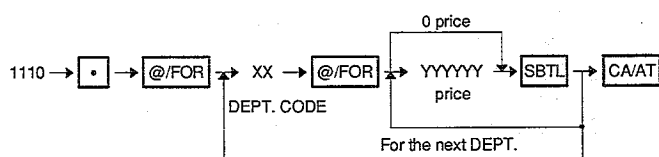
B: Exponent = 0 ~ 7

\* Items A and B indicate  $A \times 10^B$ . Any amount below that value is enable within 9999999.

MRS = 17

**2. Programming****[JOB#1110]**

PROGRAMMING OF DEPT. PRICE



XX: DEPT-CODE = 01 ~ 40

YYYYYY: PRICE = 0 ~ 999999

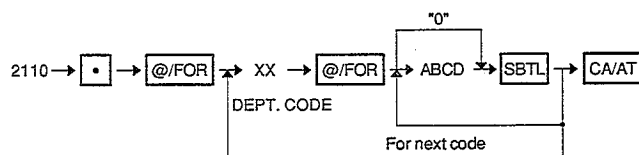
Preset price is max. 6 digits.

Price can be programmed for each dept. If this programming is performed, the ECR is automatically programmed to allow preset price entry even when it has been programmed not to allow preset price entry in dept. function programming (JOB#2110).

MRS = 000000

**[JOB#2110]**

PROGRAMMING OF DEPT. FUNCTION

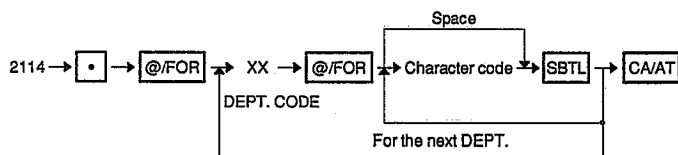


XX: DEPT. code = 01 ~ 40

A: Item validation printing	2110-B
Non compulsory	0
Compulsory	1

**[JOB#2114]**

## DEPT. TEXT PROGRAMMING

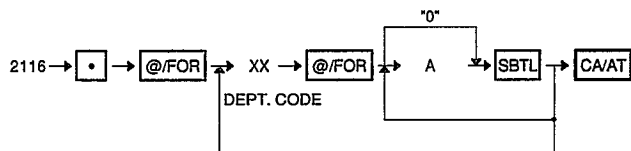


Characters can be entered by using numeric keys.  
Please refer to section 3.

MRS = DPT. XX

**[JOB#2116]**

## PROGRAMMING OF DEPT. GROUP



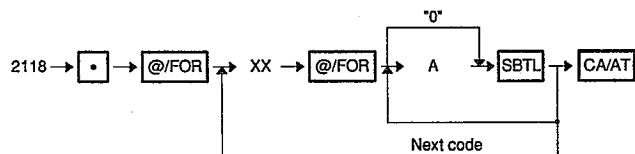
XX: DEPT. code = 01 ~ 40

A: Group number = 0 ~ 9

MRS = 0

**[JOB#1200]**

Creating/Assigning PLUs and the associated departments.



XXX: PLU CODE = 001 ~ 999

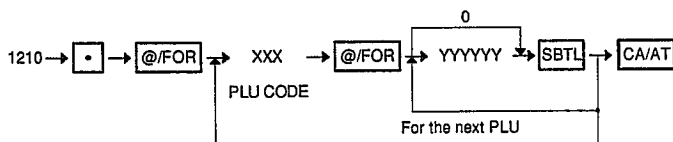
AB: DEPT. code = 0 ~ 40 (0 can be entered only when C = 4.)

C: Amount entry type	C
Inhibited	0
Open	1
Preset	2
Open and preset	3
Delete	4

MRS = 012

**[JOB#1210]**

## PRICE PROGRAMMING FOR PLUS



XXX: PLU CODE = 001 ~ 999

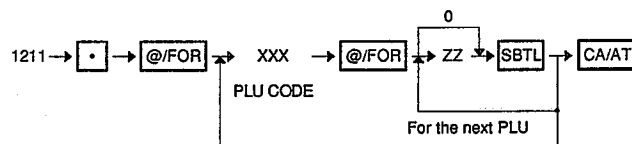
YYYYYY: Amount = 0 ~ 999999

Any PLU code should already be defined (JOB#1200) when, its unit price is programmed.

MRS = 000000

**[JOB#1211]**

## PLU base Q'TY PROGRAMMING



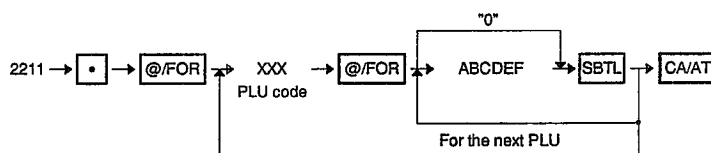
XXX: PLU code = 001 ~ 999

ZZ: Base quantity = 00 ~ 99

Any PLU code should already be defined (JOB#1200) when its base quantity is programmed.

**[JOB#2211]**

## PLU TAX STATUS PROGRAMMING



XXX: PLU code = 001 ~ 999

A: Sign- = 1

Sign+ = 0

B: Food stampable = 1

Non-food stampable = 0

C: Taxable 4 = 1

Non-taxable 4 = 0

D: Taxable 3 = 1

Non-taxable 3 = 0

E: Taxable 2 = 1

Non-taxable 2 = 0

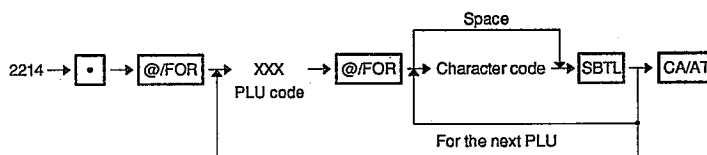
F: Taxable 1 = 1

Non-taxable = 0

MRS = 000000

**[JOB#2214]**

## PLU TEXT PROGRAMMING



Characters can be entered by using or numeric keys.

Please refer to section 3.

MRS = PLU-XXX



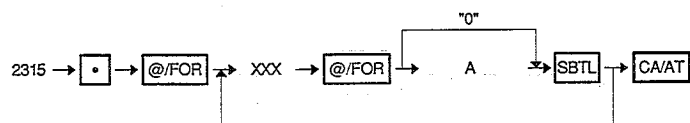
FUNCTION LIST

F-No.	FUNCTION	DEFAULT TEXT
1	(-) 1	(-) 1
2	(-) 2	(-) 2
3	%1	%1
4	%2	%2
5	%3	%3
6	%4	%4
7	NET1	NET1
8	TAXABLE 1 ST	TAX1 ST
9	GROSS TAX1	GRS TAX1
10	REFUND TAX1	RFD TAX1
11	NET TAX1	TAX1
12	EXEMPT TAX1	TX1 EXPT
13	TAXABLE2 ST	TAX2 ST
14	GROSS TAX2	GRS TAX2
15	REFUND TAX2	RFD TAX2
16	NET TAX2	TAX2
17	EXEMPT TAX2	TX2 EXPT
18	TAXABLE3 ST	TAX3 ST
19	GROSS TAX3	GRS TAX3
20	REFUND TAX3	RFD TAX3
21	NET TAX3	TAX3
22	EXEMPT TAX3	TX3 EXPT
23	TAXABLE4 ST	TAX4 ST
24	GROSS TAX4	GRS TAX4
25	REFUND TAX4	RFD TAX4
26	NET TAX4	TAX4
27	EXEMPT TAX4	TX4 EXPT
28	GROSS M-TAX	GRS MTAX
29	REFUND M-TAX	RFD MTAX
30	NET M-TAX	M-TAX
31	NON GST TOTAL	GST EXPT
32	PST TOTAL	PST TTL
33	GST TOTAL	GST TTL
34	FS1 FORGIVE	FS TX1
35	FS2 FORGIVE	FS TX2
36	FS3 FORGIVE	FS TX3
37	TOTAL TAX	TTL TAX
38	NET2	NET2
39	COUPON PLU	CP PLU
40	VOID	VOID
41	SBTL VOID	SBTL VOID
42	MANAGER VOID	MGR VD
43	VOID MODE	VOID
44	REFUND	REFUND
45	HASH VOID	HASH VD
46	HASH REFUND	HASH RF
46	NO SALE	NO SALE
48	VP COUNTER	VP CNT
49	DRAWER COUNTER	DRW CNT
50	TRANSACTION COUNTER	TRANS CT

F-No.	FUNCTION	DEFAULT TEXT
51	NET3 (SALES)	NET3
52	CASH1	CASH
53	CASH2	CASH2
54	FS SALE	FSSALE
55	RA	***RA
55	PO	***PO
57	CHECK CASHING	CA/CHK
58	CHECK CHANGE	CHK/CG
59	FS CHANGE	FS/CG
60	CONVERSION 1	CONV 1
61	CONVERSION 2	CONV 2
62	CONVERSION 3	CONV 3
63	CONVERSION 4	CONV 4
64	FS IN DRAWER	FS/ID
65	GROSS CHARGE 1	CHARGE1
66	REFUND CHARGE 1	CHARGE1—
67	GROSS CHARGE 2	CHARGE2
68	REFUND CHARGE 2	CHARGE2—
69	GROSS CHARGE 3	CHARGE3
70	REFUND CHARGE 3	CHARGE3—
71	GROSS CHARGE 4	CHARGE4
72	REFUND CHARGE 4	CHARGE4—
73	GROSS CHARGE 5	CHARGE5
74	REFUND CHARGE 5	CHARGE5—
75	CHECK	CHECK
76	CASH + CHECK IN DRAWER	CA + CK ID
77	CASH IN DRAWER	***CID
78	GROUP1	GROUP01
79	GROUP2	GROUP02
80	GROUP3	GROUP03
81	GROUP4	GROUP04
82	GROUP5	GROUP05
83	GROUP6	GROUP06
84	GROUP7	GROUP07
85	GROUP8	GROUP08
86	GROUP9	GROUP09
87	(+) DEPT TOTAL	*DEPT TL
88	(-) DPT TOTAL	DEPT (-)
89	BR (+) DPT TOTAL	*BTTL TL
90	BR (-) DPT TOTAL	BTTL (-)
91	HASH (+) DPT TOTAL	*HASH TL
92	HASH (-) DPT TOTAL	HASH (-)
93	SUBTOTAL	SUBTOTAL
94	MDS SBTL	MDSE ST
95	TOTAL	***TOTAL
96	CHANGE	CHANGE
97	FS SBTL	FS ST
98	FS TEND	FS TEND
99	FS CHANGE	FS CG
100	ITEMS	ITEMS
101	COPY	COPY

**[JOB#2315]**

MISC KEY PROGRAMMING (item %/subtotal %)



XXX: Function No.

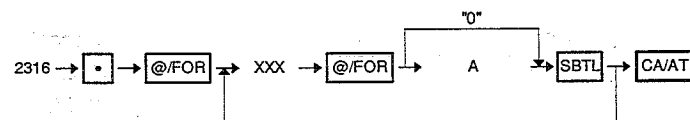
A: Item %/Subtotal % = 1/0

MRS. 0

Function No.	Function	Remarks
3	%1	
4	%2	
5	%3	
6	%4	

**[JOB#2316]**

MISC KEY PROGRAMMING (item ⊖/SBTL ⊖)



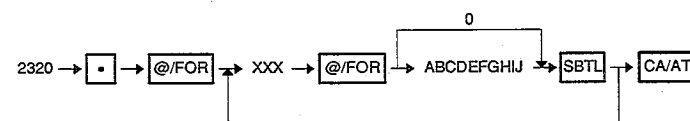
XXX: Function No.

A: Item (store coupon) ⊖/SBTL (Vender coupon) ⊖ = 1/0

Function No.	Function	Remarks
1	(→) 1	
2	(→) 2	

**[JOB#2320]**

MEDIA KEY PROGRAMMING



XXX: Function No.

Function No.	Function	A	B	C	D	E	F	G	H	I	J
52	CA1	○	○	×	○	○	○	○	○	○	○
53	CA2	○	○	×	○	○	○	○	○	○	○
65	CH1	○	○	○	○	○	○	○	○	○	○
67	CH2	○	○	○	○	○	○	○	○	○	○
69	CH3	○	○	○	○	○	○	○	○	○	○
71	CH4	○	○	○	○	○	○	○	○	○	○
73	CH5	○	○	○	○	○	○	○	○	○	○
75	CHK	○	○	○	○	○	○	○	○	○	○

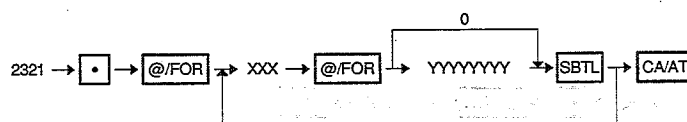
\* Items marked with on (○) are programmable.

A: Footer print	Yes/No.	1/0
B: Non-add code entry	compulsory/non-compulsory	1/0
C: Change due	Disable/Enable	1/0
D: VP	compulsory/non-compulsory	1/0
E: Taxable 4 delete	Yes/No.	1/0
F: Taxable 3 delete	Yes/No.	1/0
G: Taxable 2 delete	Yes/No.	1/0
H: Taxable 1 delete	Yes/No.	1/0
I: Drawer opening	No./Yes	1/0
J: Entry of amount tendered	compulsory/noncompulsory (Cash, Check)	1/0
	compulsory/inhibit (CH1 to 5)	1/0

MRS = 0

**[JOB#2321]**

MEDIA KEY FUNCTION PROGRAM (AMOUNT HALO)



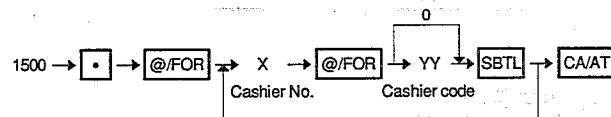
XXX: Function No.

Func. No.	Function	Entry range	Remarks
77	CID (Sentinel)	0 to 9999999.99	
58	CHK CHANGE	0 to 9999999.99	
57	CA/CHK		

YYYYYYY: Limitation amount

**[JOB#1500]**

CASHIER CODE PROGRAMMING



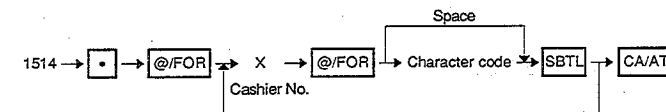
X: Cashier number = 1 ~ 4

YY: Cashier code = 00 ~ 99 (00 cashier is prohibited.)

MRS = 01;A, 02;B, 03;D, 04;E

**[JOB#1514]**

CASHIER NAME PROGRAMMING



X: Cashier No. = 1 ~ 4

Characters can be entered by using numeric keys. The key entry sequence for entering one character by numeric keys is as follows:

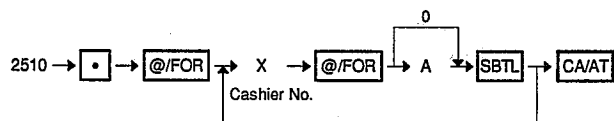
XXX → 00 KEY      XXX: Character code (3 digits)

Please refer to section 3.

Max. 8 characters

Mrs = Space

**[JOB#2510]**  
CASHIER DRAWER ASSIGNMENT



X: Cashier No. = 1 ~ 4  
A: Drawer No. = 1 ~ 2  
No drawer = 0

MRS = 1

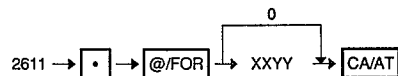
**[JOB#2610]**  
DATE SETTING



XXYYZZ: Date (Year-Month-Day/Day-Month-Year/Month-Day-Year)  
\* The date entry format complies with the applicable SRV-mode programming.

MRS = 010100

**[JOB#2611]**  
TIME SETTING



XX: Hour (00 ~ 23)  
YY: Minute (00 ~ 59)

MRS = 0

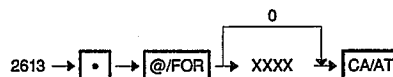
**[JOB#2612]**  
MACHINE NUMBER SETTING



XXXXXXX: Machine number (0 ~ 999999)

MRS = 0

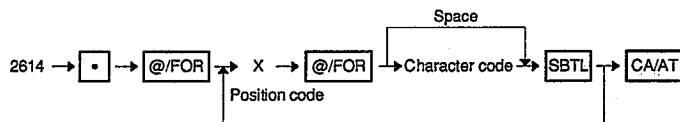
**[JOB#2613]**  
CONSECUTIVE NUMBER SETTING



XXXX: Consecutive number (0000 ~ 9999)

MRS = 0000

**[JOB#2614]**  
LOGO TEXT PROGRAMMING



X: 1 ~ 6	1	(18 char.)
	2	(18 char.)
	3	(18 char.)
	4	(18 char.)
	5	(18 char.)
	6	(18 char.)

Character can be entered by using character keys or numeric keys.  
The key entry sequence for entering one character by numeric keys is as follows:

XXX → 00 Key      XXX: Character code (3 digits)

Please refer to section 2.

MRS =

YOUR
RECEIPT
THANK YOU
SHARP
IS
THE BEST

Note: This programming is related to JOB#912D programming. Only when "6-line header" is selected by JOB#912D programming, all 6 lines are programmable.  
When "3-line header" is selected, upper 3 lines (1st-3rd line) are programmable.  
When "3-line footer" is selected, lower 3 lines (4th-6th line) are programmable.

**[JOB#2615]**  
PROGRAMMING OF NO. OF TIMES OF VALIDATION PRINTING.



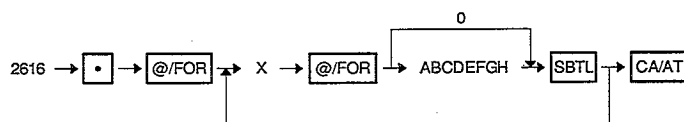
A: No. of times of validation printing

= 0 ~ 9

MRS = 1

**[JOB#2616]**

## OPTIONAL FEATURE



X : 1 MRS = 00000000

A: OP X/Z report	Disable/Enable	1/0
B: PO operation in REG mode	Disable/Enable	1/0
C: Refund type of sale function in REG mode	Disable/Enable	1/0
D: "RFND" key entry on REG mode	Disable/Enable	1/0
E: Direct void function in REG mode	Disable/Enable	1/0
F: Indirect void in REG mode	Disable/Enable	1/0
G: Subtotal void in REG mode	Disable/Enable	1/0
H: Refund VP	Compulsory/Noncompulsory	1/0

X : 2 MRS = 00000000

A: The first item direct void	Disable/Enable	1/0
B: Not used		0
C: Not used		0
D: Printing of the number of purchases	Yes/No.	1/0
E: Time print	No./Yes	1/0
F: Journal select/Full print		1/0
G: Item VP	Disable/Enable	1/0
H: Coupon VP	Compulsory/noncompulsory	1/0

X : 3 MRS = 00000000

A: Not used		0
B: Not used		0
C: Not used		0
D: Zero skip in cashier report	No/Yes	1/0
E: Zero skip in transaction report	No/Yes	1/0
F: Zero skip in DEPT. report	No/Yes	1/0
G: Zero skip in PLU report	No/Yes	1/0
H: Zero skip in hourly report	No/Yes	1/0

**[JOB#2617]**

## PROGRAMMING OF THE TIME INTERVAL FOR THE TILL TIMER

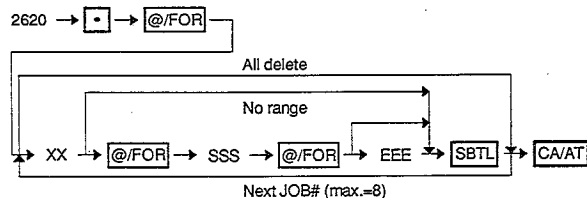


XXX: 0 ~ 255 sec

MRS = 000

**[JOB#2620]**

## STACK REPORT



XX: JOB#  
 SSS: Start code  
 EEE: End code

JOB#	Report name	Type
00	General	RANGE
10	DEPT./group	
13	DEPT. All group	
20	PLU	
30	Transaction	
31	CID	
50	All cashier	
60	Hourly	

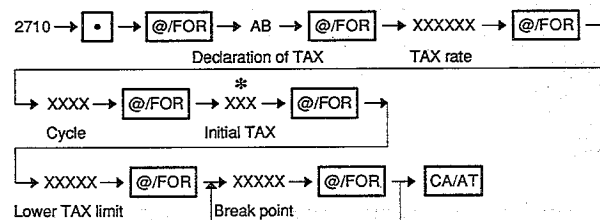
[\*\*]

Max 13 steps are programmable. "1 step" means the memory size used for one no-range type JOB#.

The range type JOB# means "6 steps".

**[JOB#2710]**

## TAX TABLE PROGRAMMING



UPTO 72 BREAKPOINTS CAN BE PROGRAMMED FOR A TAX-TABLE. (Case of interval between break point is 1 dollar or more, 36 breakpoints is programmed for each table.)

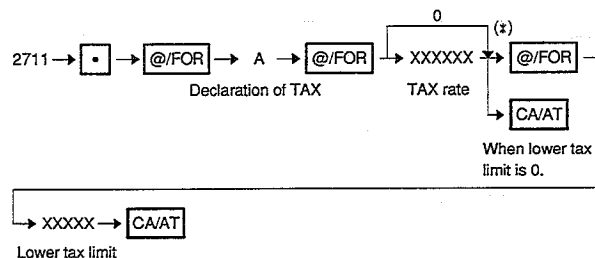
\* DEPRESSION OF THE SBTU KEY AT THE FOLLOWING POINTS MEANS A TAX TABLE DELETE OPERATION.

- A: INTERVAL BETWEEN BREAKPOINTS IS = 1  
 1 DOLLAR OR MORE  
 INTERVAL BETWEEN BREAKPOINTS IS = 0  
 BELOW 1 DOLLAR
- B: TABLE 1 PROGRAMMING = 1  
 TABLE 2 PROGRAMMING = 2  
 TABLE 3 PROGRAMMING = 3  
 TABLE 4 PROGRAMMING = 4

MRS = NO TAX

**[JOB#2711]**

## TAX TABLE PROGRAMMING



\* DEPRESSION OF THE SBTU KEY AT FOLLOWING POINTS MEANS A TAX TABLE DELETE OPERATION.

- A: TAX 1 PROGRAMMING = 1  
 TAX 2 PROGRAMMING = 2  
 TAX 3 PROGRAMMING = 3  
 TAX 4 PROGRAMMING = 4

%TAX RATE 0.0000 to 99.9999 %  
 LOWER TAX LIMITATION max. 999.99  
 (This is invalid in VAT system.)

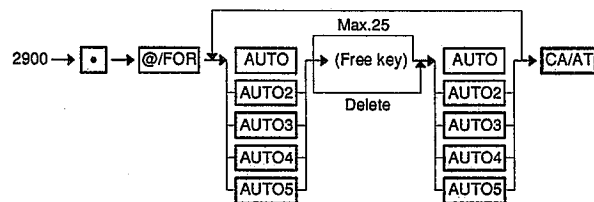
MRS = 0

**[JOB#2900]**

**<CAUTION>**

(This JOB must be performed at X2/Z2 mode position.)

## AUTO KEY SETTING



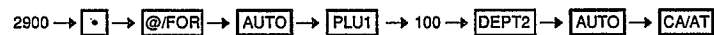
(Auto key function)

- This machine has [AUTO] key which can be programmed by the following key-sequence.
- When [AUTO] key is depressed, the machine works the same as the programmed key-sequence programmed.

<Example>

**Mode switch**

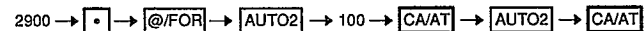
$$\Downarrow$$

$$(X_2/Z_2)$$


(REG)

Key entry	R/J	Display	Comment
<b>AUTO</b>			
	PLU0001 \$1.10	0001 1.10	Same as <b>PLU1</b> entry
		1	Same as 1 entry
		10	Same as 0 entry
		100	Same as 0 entry
	DEPT.02 \$1.00	02 1.00	Same as <b>DEPT2</b> entry

(X2/Z2)

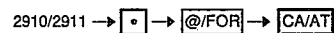


(REG)

Key entry	R/J	Display	Comment
DEPT1	DEPT.01 \$1.00	01 1.00	
AUTO2		1	Same as 1 entry
		10	Same as 0 entry
		100	Same as 0 entry
	TOTAL \$10.00	0.00	Same as CA/AT entry
	\$1.00		
	\$0.00		

**[JOB#2910, 2911]**

TRAINING MODE START (#2910), END (#2911)



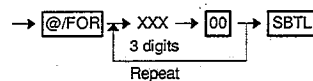
<Training mode>

- All operation is same as REG-mode operation.
- In the training mode, the consecutive number is counted up.

### 3. Character assignment method

~ Using ten key ~

The ER-A430 has two kinds of method at character assignment.  
One is to use ten keys.



Note: **00** key is used to enter each 3 digit alpha code.

CODE TABLE FOR ALPHA DESCRIPTOR PROGRAMMING

CODE	CHARACTER	CODE	CHARACTER	CODE	CHARACTER	CODE	CHARACTER
001	á	052	4	103	g	154	è
002	â	053	5	104	h	155	Pt
003	ê	054	6	105	i	156	í
004	î	055	7	106	j	157	Ñ
005	ì	056	8	107	k	158	ò
006	í	057	9	108	l	159	£
007	ô	058	:	109	m	160	¥
008	ó	059	;	110	n	161	°
009	û	060	<	111	o	162	[
010	ú	061	=	112	p	163	]
011	œ	062	>	113	q	164	`
012	Û	063	?	114	r	165	•
013	ú	064	@	115	s	166	
014	ö	065	A	116	t	167	
015	ó	066	B	117	u	168	
016	^	067	C	118	v	169	
017	ψ	068	D	119	w	170	
018	Γ	069	E	120	x	171	
019	''	070	F	121	y	172	
020	Ω	071	G	122	z	173	
021	Δ	072	H	123	{	174	
022	θ	073	I	124		175	
023	Ξ	074	J	125	}	176	Β
024	π'	075	K	126	β	177	Á
025	Σ	076	L	127	ϕ	178	Í
026	Υ	077	M	128	!!		
027	Φ	078	N	129	1	192	Ç
028	Ü	079	O	130	2	193	ì
029	Ú	080	P	131	3	194	Ġ
030	Ö	081	Q	132	4	195	§
031	Ó	082	R	133	½		
032		083	S	134	Ft	224	*
033	!	084	T	135	←	225	\$
034	"	085	U	136	→	226	ø
035	#	086	V	137	∞	227	^
036	\$	087	W	138	∞	228	↑
037	%	088	X	139	◀	229	]
038	&	089	Y	140	▶	230	[
039	'	090	Z	141	F	231	"
040	(	091	Ä	142	T	232	ä
041	)	092	Ö	143	↓	233	ö
042	×	093	Ü	144	Ç	234	ü
043	+	094	^	145	°	235	æ
044	,	095	—	146	¿	236	à
045	—	096	'	147	Û	237	É
046	.	097	a	148	à	238	ñ
047	/	098	b	149	Æ	239	=
048	0	099	c	150	Ø		
049	1	100	d	151	Å	253	DC
050	2	101	e	152	Q		
051	3	102	f	153	é		

DC: DOUBLE CODE

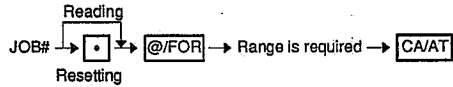
Fig. 7-2

# CHAPTER 3. OP X/Z, X1/Z1,X2/Z2 MODE

The following categories of reports can be printed by the ECR.

- 1) OP X/Z reports (clerk/cashier reports)
- 2) X1/Z1 reports (Daily sales total X and Z reports)
- 3) X2/Z2 reports (Periodic total X and Z reports)

To print reports, use the following key entry sequence



## XZ MODE JOB# LIST

REPORT NAME	MODE *1							*3 JOB#	DATA FOR READING	NOTE
	OP X/Z		X1/Z1		X2/Z2					
GENERAL			○	○	○	○		00	---	
DEPT/GROUP			○		○			10	---	
IND. GROUP			○		○			12	GROUP No	
GROUP TOTAL			○		○			13	---	
PLU BY RANGE			○	○				20	PLU CODE	*2
PLU BY DEPT			○					21	DPT CODE	
TRANSACTION			○		○			30	---	
CID			○		○			31	---	ALL CASHIER
ALL CASHIER			○	○	○	○		50	---	
IND. CASHIER	○	○	○	○	○	○		51	---	CASHIER ENTRY
HOURLY(ALL)			○	○				60		
STACKED REP			○	○	○	○		90		

- \*1 X1: Daily X report      Z1: Daily Z report  
X2: Periodic X report      Z2: Periodic Z report

- \*2 The time interval range, or PLU code range can be specified by entering the start and end numbers according to the following procedure. When specifying a single time interval, PLU code, the start number has only to be entered.

[XXX] → [ @/FOR ] → [XXX]

Start no.                      End no.

- \*3 When 2 is entered in the third digit of a job code, periodic reports are printed.

Example: Daily general report; job code 100  
Periodic general report; job code 200

- An individual report is printed on the receipt and journal when the CA/AT key is pressed.
- Pressing the decimal point key just after the entry of a job code clears the corresponding data in the ECR. (Z report)  
(When printing those reports for which no Z reports can be taken, the decimal point key cannot be pressed after the entry of a job code.)
- When the decimal point key is not pressed after the entry of a job code, the corresponding data is held in the ECR. (X report)



# SHARP

**COPYRIGHT © 1993 BY SHARP CORPORATION**

All rights reserved.

Printed in Japan.

No part of this publication may be reproduced,  
stored in a retrieval system, or transmitted,  
in any form or by any means,  
electronic, mechanical, photocopying, recording, or otherwise,  
without prior written permission of the publisher.

**SHARP CORPORATION**  
Information Systems Group  
Quality & Reliability Control Center  
Yamatokoriyama, Nara 639-11, Japan

1993 March Printed in Japan ©