

SHARP PROGRAMMING MANUAL

CODE: 00ZERA310APME



ER-A310



ER-A330

ELECTRONIC CASH REGISTER

ER-A310 MODEL ER-A330

(For "A" version)

SRV KEY : LKGIM7113RCZZ

PRINTER : CR-510 (ER-A310)

UCR-812A (ER-A330)

CONTENTS

CHAPTER 1. SERVICE (SRV) MODE	1
CHAPTER 2. PROGRAM (PGM) MODE	9
CHAPTER 3. OP X/Z, X1/Z1, X2/Z2 MODE	27

CHAPTER 1. SERVICE (SRV) MODE

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

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) Turn off the AC switch.
- 2) Set the mode switch to (SRV') position.
- 3) Turn on the AC switch.
- 4) Turn to (SRV) position from (SRV') position.

• Method 2

- 1) Set the mode switch to PGM2 position.
- 2) Turn off the AC switch.
- 3) While holding down JOURNAL FEED key and RECEIPT FEED key, turn on the AC switch.

2. Master reset (All memory clear)

There are two possible methods to perform a master reset. 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 (with SRV key)

- 1) Unplug 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.

Procedure-2 (without SRV key)

- 1) Turn the mode switch to the (REG) position.
- 2) Ensure the batteries are not installed in the battery compartment and insert the plug into the outlet.
- 3) The right most decimal point will blink for a few seconds.
- 4) The register will sound three beeps.
- 5) The register will display " L 000."

3. Reading of the SRV mode program

List of program report

JOB#	REPORT NAME
900	SRV mode program full item report (Not included the keyboard layout)
950	Keyboard layout report

[JOB# 900]

All parameters contained for the SRV mode as listed

Key operation

- SRV mode

900 → [@/FOR] → [CA/AT]

- PGM mode

9900 → [@/FOR] → [CA/AT]

① ER-A310

YOUR RECEIPT Thank you Call again		STAMP	
07-24-96		Date	
901 0002	902 0000	Programming contents (JOB#/Data)	
903 0000	904 0000		
905 0105	906 0200		
907 0010	908 0700		
909 2000	910 0000		
911 0000	912 0040		
913 0104	914 1003		
915 0000	916 0000		
917 0000	918 2000		
919 0000			
0000Z	1		Z1 Counter
0000Z	2		Z2 Counter
GT *00000	1		GT 1
000000*00			
GT *00000	2	GT 2	
000000*00			
GT -00000	3	GT 3	
000000*00			
GT *00000 TR		Training GT	
000000*00			
222-0006		Machine No.- Consecutive No.	
2-00P		Time	

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STAMP

07-24-96

Date

901 0002

Programming contents
(JOB#/Data)

902 0000

903 0007

904 0000

905 0105

906 0200

907 0010

908 0700

909 2000

910 0100

911 0000

912 0040

913 0104

914 1003

915 0000

916 0000

917 0000

918 2000

919 0000

Z1 0000

Z1 Counter

Z2 0000

Z2 Counter

GT

1 GT 1

*000000

00000.00

GT

2 GT 2

*000000

00000.00

GT

3 GT 3

-000000

00000.00

GT

@ Training GT

*000000

00000.00

111-0006

Machine No.- Consecutive No.

* 2-00

Time

[JOB# 950]

Keyboard layout programming report

Key operation

• SRV mode

950 → @/FOR → CA/AT

• PGM mode

9950 → @/FOR → CA/AT

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01 17

Key code / Key position code

02 18

03 22

04 26

05 19

06 23

07 27

08 20

09 24

10 28

11 21

12 25

13 12

14 11

15 65

16 63

17 ..

Key is not stored.

18 60

19 44

20 ..

21 ..

22 ..

23 ..

24 ..

25 07

26 03

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THANK YOU

07-24-96

01 17

02 18

03 22

04 26

05 19

06 23

07 27

08 20

09 24

10 28

11 21

12 25

13 12

14 11

15 65

16 63

17 ..

18 60

19 44

20 ..

21 ..

22 ..

23 ..

24 62

25 07

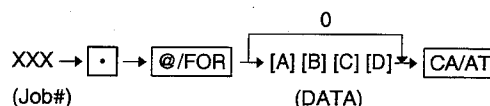
26 07

Key code / Key position code

Key is not stored.

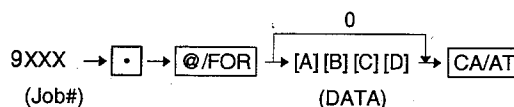
4. Service mode programming

The following are the key operation required for programming.
(In SRV mode)



(In PGM mode)

* JOB#901-A must be set to "0."



Details of [A][B][C][D] will be discussed at each item description.
★ mark is MRS setting.

[JOB #901]:MRS=0002

#901-A: 1. SRV programming in PGM mode

1. SRV programming in PGM mode	901-A
Enable	0
Disable	4

★

#901-B: 1. Tax system

1. Tax system	901-B
Auto tax 1-4 & manual tax	0
CANADIAN TAX	6
CANADIAN TAX (Type II)	7

★

#901-C: 1. Rounding system

1. Rounding system	901-C
Normal	0
SINGAPORE	8

★

#901-D: 1. "00" key or "000" key selection
2. TAB setting

1. "00" key or "000" key selection	2. TAB setting	901-D
"00" key	0	0
	0.0	1
	0.00	2
	0.000	3
"000"	0	4
	0.0	5
	0.00	6
	0.000	7

★

[JOB#902] NOT USED MRS=0000

[JOB#903] ER-A310: NOT USED: MRS=0000
ER-A330: MRS=0007

#903-A, B, C: Not used (Fixed at "000")

#903-D: 1. Food stamp tendering less than 1 dollar
 2. Type of food stamp

1. Food stamp tendering less than 1 dollar	2. Type of food stamp	903-D
Disable	No food stamp	0
	Tax not payable in food stamps	1
	Tax payable in food stamps	2
	Food stamp forgiveness	3
Enable	No food stamp	4
	Tax not payable in food stamps	5
	Tax payable in food stamps	6
	Food stamp forgiveness	7

[JOB#904] MRS=0000

#904-A: 1. Printing of date

1. Printing of date	904-A
Yes	0
No	4

#904-B: 1. Printing of consecutive No.

1. Printing of consecutive No.	904-C
Yes	0
No	4

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

[JOB#905] MRS=0105

#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. Nex 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	2. 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)	Tax 3 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=0200

#906-A: 1. Not used (Fixed at "0")

#906-B: 1. Hash department setting

1. Hash department setting	906-B
Disable	0
Enable	2

#906-C: 1. Split pricing counting

1. Split pricing counting	906-C
Quantity	0
Package	4

#906-D: 1. Fractional quantity

1. Fractional quantity	906-D
No	0
Yes (3 digit decimal place)	1

[JOB#907] MRS=0010

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

#907-C: 1. Minus Dept./PLU

1. Minus Dept./PLU	907-C
Disable	0
Enable	1

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

[JOB#908] MRS=0700

#908-A: GT print on Z report

GT1 (NET)	GT2 (+)	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

GT1 (NET)	GT2 (+)	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
2. Resetting of consecutive number in Z1 resetting

1. Add void-mode transaction to hourly total report	2. Resetting of consecutive No.in Z1 resetting	908-C
No	No	0
	Yes	1
Yes	No	4
	Yes	5

#908-D: 1. Z1 resetting, resets GT Enable/Disable

1. GT resetting at Z1	908-D
Disable	0
Enable	1

[JOB#909] MRS=2000#909-A: 1. Printing of training GT on the X report
2. Printing of training GT on the Z report

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

#909-B: 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] ER-A310: NOT USED: MRS=0000**ER-A330: MRS=0100** *CASH NOT FULLY DISABLE CASHIER- USE*

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

#910-B: 1. Auto cashier sign off at the end of each transaction

1. Auto cashier sign off at the end of each transaction	910-B
No (After cashier Z1 only)	0
Yes (Everytime)	1

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

[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

1. After transaction receipt	912-C
Total only	0
Detail	4

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

[JOB#913] MRS = 0104#913-A: 1. VP format on Receipt/Journal
2. Content of TOTAL VP amount

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. Printing of MDSE SBTL upon key depression
3. Escape the compulsion of VP

NOTE: Must turn to MGR mode and depress

• ☐ → **PRINT** keys to escape validation

1. SBTL Print	2. MDSE SBTL print	3. Escape the compulsory of VP	913-B
No	No	Disable	0
		Enable	1
	Yes	Disable	2
		Enable	3
Yes	No	Disable	4
		Enable	5
	Yes	Disable	6
		Enable	7

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

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

- #913-D: 1. Drawer closing operation
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	
	Miss operation (One shot error)	Enable	2	
		Disable	3	
Compulsory	All lock error	Enable	4	★
		Disable	5	
	Miss operation (One shot error)	Enable	6	
		Disable	7	

[JOB#914] MRS = 1003

- #914-A: 1. Tax delete operation

1. Tax delete	914-A	
Inhibit	0	
Enable	1	★

- #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
3. Non-add code entry Disable/Enable

1. Manual tax	2. CHECK CASHING	3. Non-add code entry	914-D	
Enable	Disable	Enable	0	
		Disable	1	
	Enable	Enable	2	
		Disable	3	★
Disable	Disable	Enable	4	
		Disable	5	
	Enable	Enable	6	
		Disable	7	

[JOB#915] MRS = 0000

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

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

1. ST%, ST(-) as many times needed/operation only once	915-C	
Unlimited	0	★
Once only	2	

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

[JOB#916] MRS = 0000

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

- #916-B: 1. Food stamp subtotal entry before food stamp tender

1. Food stamp subtotal entry before food stamp tender	916-B	
Non-compulsory	0	★
Compulsory	1	

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

- #916-D: 1. Coupon 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 coupon PLU's 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	Print	2	
		Skip	3	
Skip	Print	Print	4	
		Skip	5	
	Skip	Print	6	
		Skip	7	

[JOB#917] MRS = 0000

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

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	917-A	
Print	Print	Print	0	★
		Skip	1	
	Skip	Print	2	
		Skip	3	
Skip	Print	Print	4	
		Skip	5	
	Skip	Print	6	
		Skip	7	

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

1. Taxable 2 subtotal on X/Z report	2. Gross Tax 2 and refund Tax 2 total on X/Z report	3. Net Tax 2 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. Printing of Taxable 3 subtotal on X/Z report
2. Printing of Gross Tax 3 and refund Tax 3 total on X/Z report
3. Printing of Net Tax 3 total on X/Z report

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	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. Printing of Total Tax amount on X/Z report
2. Printing of Gross manual Tax and refund manual Tax on X/Z
3. Printing of Net manual Tax total on X/Z report

1. Total Tax Amount	2. Gross manual Tax and Refund manual Tax on X/Z report	3. 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. Dirrect non-tendering finalization after previous tender entry

1. Dirrect non-tendering finalization after previous tender entry	918-A
Disable	0
Enable	2

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

[JOB#919] MRS = 0000

#919-A, B, C: Not used (Fixed at "000")

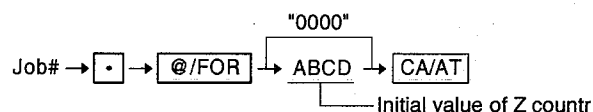
- 919-D: 1. Foreign currency format

1. Foreign currency	919-D
Not	0
Omit digits lower than TAB position	1

[JOB#930~931] MRS = 0000

RESET REPORT COUNTER

IF NO SVC KEY, USE
XTRA 9 FRONT OF
TO ZERO JOB CODE

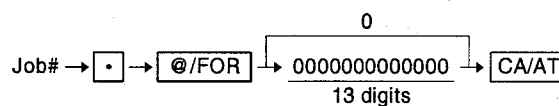


JOB #	Function
930	Z1 report counter
931	Z2 report counter

[JOB#942, 943, 969] MRS = 00000000000000

GT COUNTER PRESETTING

730 93

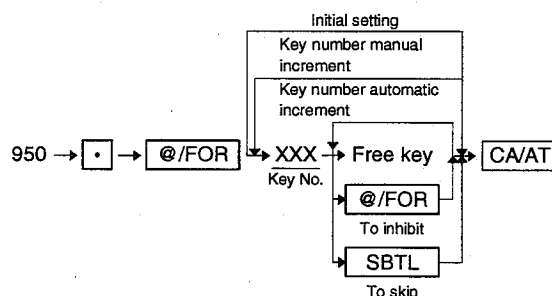


JOB #	Function
942	GT2 (Positive GT)
943	GT3 (Negative GT)
969	TRAINING GT

Note: GT1 is obtained by the following calculation.
Equation: $GT1 = GT2 - GT3$

[JOB#950] MRS = STANDARD KEY LAYOUT

Free key layout (Except for department keys and direct PLU keys.)



XXX: Key No. = 17 ~ 150

FUNCTION KEY LIST

Key No.	Key name
1	0 key (Fixed key)
2	1 key (Fixed key)
3	2 key (Fixed key)
4	3 key (Fixed key)
5	4 key (Fixed key)
6	5 key (Fixed key)
7	6 key (Fixed key)
8	7 key (Fixed key)
9	8 key (Fixed key)
10	9 key (Fixed key)
11	00 key (Fixed key)
12	Decimal point (Fixed key)
13	CL (Fixed key)
14	@/FOR (Fixed key)
15	SBTL (Fixed key)
16	CA/VAT (Fixed key)
17	CASH2
18	MDSE SBTL
19	PLU/SUB
20	TAX1 SHIFT
21	TAX2 SHIFT
22	TAX3 SHIFT
23	TAX4 SHIFT
24	FS SHIFT (ER-A330 only)
25	PRINT
26	RCPT
27	VOID
28	REFUND
29	%1
30	%2
31	(-)1
32	(-)2
33	TAX
34	AUTO
35	AUTO2
36	AUTO3
37	AUTO4
38	CHECK
39	CHARGE1
40	CHARGE2 ✕
41	CONV1
42	CONV2
43	CONV3
44	CONV4
45	FS TEND (ER-A330 only)
46	RA
47	PO
48	CASHIER NO. (ER-A330 only)
49	DEPT#
50	NS
51	ESCP
101	DEPT.1
102	DEPT.2
103	DEPT.3
104	DEPT.4

Key No.	Key name
105	DEPT.5
106	DEPT.6
107	DEPT.7
108	DEPT.8
109	DEPT.9
110	DEPT.10
111	DEPT.11
112	DEPT.12
113	DEPT.13
114	DEPT.14
115	DEPT.15
116	DEPT.16
117	DEPT.17
118	DEPT.18
119	DEPT.19
120	DEPT.20
121	DEPT.21
122	DEPT.22
123	DEPT.23
124	DEPT.24
125	DEPT.25
126	DEPT.26
127	DEPT.27
128	DEPT.28
129	DEPT.29
130	DEPT.30
131	DEPT.31 (ER-A330 only)
132	DEPT.32 (ER-A330 only)
133	DEPT.33 (ER-A330 only)
134	DEPT.34 (ER-A330 only)
135	DEPT.35 (ER-A330 only)
136	DEPT.36 (ER-A330 only)
137	DEPT.37 (ER-A330 only)
138	DEPT.38 (ER-A330 only)
139	DEPT.39 (ER-A330 only)
140	DEPT.40 (ER-A330 only)
141	DEPT.41 (ER-A330 only)
142	DEPT.42 (ER-A330 only)
143	DEPT.43 (ER-A330 only)
144	DEPT.44 (ER-A330 only)
145	DEPT.45 (ER-A330 only)
146	DEPT.46 (ER-A330 only)
147	DEPT.47 (ER-A330 only)
148	DEPT.48 (ER-A330 only)
149	DEPT.49 (ER-A330 only)
150	DEPT.50 (ER-A330 only)

ER-A310/A330 KEY POSITION

Fixed Key								38	44	50	56	62	68
								37	43	49	55	61	67
04	08	12	16	20	24	28	32	36	42	48	54	60	66
03	07	11	15	19	23	27	31	35	41	47	53	59	65
02	06	10	14	18	22	26	30	34	40	46	52	58	64
01	05	09	13	17	21	25	29	33	39	45	51	57	63
Fixed Key								Fixed Key					

CHAPTER 2. PROGRAM (PGM) MODE

1. Reading of the PGM mode program

List of program report

JOB# entry

JOB#	REPORT NAME
1100	Department program report
1200	PLU program report
1300	Other program report
2700	Tax program report
2900	Auto key program report

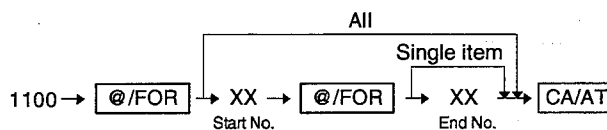
Direct key entry

JOB#	REPORT NAME
CA/AT	PGM mode program report (Not included the PLU program report and Auto key program report)
PLU	PLU program report

Note: Shouldn't program readouts be after the program steps.

[JOB#1100]: Department program report

Key operation



① ER-A310

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Thank you
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07-24-96

01 0003

 00001 TX

 17

 1#

 123.45

02 1003

 00010 TX

 17

 1#

 -23.45

03 0103

 00100 TX

 17

 2#

 34.56

 0012

09 0001

 00000 TX

 17

 0#

 0.00

10 0001

 00000 TX

 17

 0#

 0.00

111-0040

1-19P

Dept. code / Programming (JOB#2110)

FS status and Tax status (JOB#2111-B,C,D,E,F)

Programming(JOB#2112)

Group No.(JOB#2116)

Unit price(JOB#1110)

Sign (JOB#2111-A) / Unit price (JOB#1110)

② ER-A330

YOUR RECEIPT**THANK YOU**

07-24-96

Dept. code / Programming
(JOB#2110)01 0003
00000 TXFS status and Tax status
(JOB#2111-B,C,D,E,F)

17

Programming(JOB#2112)

1 #

Group No.(JOB#2116)

10.00

Unit price(JOB#1110)

02 1003
00001 TX

17

2 #

20.00

03 0103
00010 TX

17

3 #

-30.00

Sign (JOB#2111-A) / Unit price
(JOB#1110)04 0013
00000 TX09 0001
00000 TX

17

0 #

0.00

10 0001
00000 TX

17

0 #

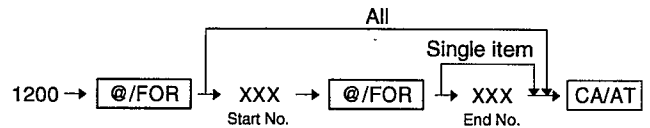
0.00

222-0025

11-54

[JOB#1200]: PLU program report

Key operation



① ER-A310

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Thank you
Call again

07-24-96

PLU code / Dept. code
(JOB#1200)R001 01
00001 TXFS status and Tax status
(JOB#2210-B,C,D,E,F)

2

Amount entry type(JOB#2210-G)

10.00

Unit price(JOB#1210)

R002 02
00010 TX

2

-20.00

Sign(JOB#2210-A) / Unit price
(JOB#1210)R003 03
00100 TX

2

30.00

R004 04
01000 TX

2

R009 09
00000 TX

2

90.00

R010 10
00000 TX

2

100.00

111-0042

1-20P

② ER-A330

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THANK YOU

07-24-96

PLU code / Dept. code
(JOB#1200)

PL001 01

FS status and Tax status
(JOB#2210-B,C,D,E,F)

00000 TX

2

Amount entry type(JOB#2210-G)

100.00

Unit price(JOB#1210)

PL002 02

00001 TX

2

-200.00

Sign(JOB#2210-A) / Unit price
(JOB#1210)

PL003 03

00010 TX

2

300.00

PL004 04

00100 TX

2

PL009 09

00000 TX

2

900.00

PL010 10

00000 TX

2

1000.00

222-0027

11-56

[JOB#1300]: Other program report

Key operation

1300 → @/FOR → CA/AT

① ER-A310

YOUR RECEIPT

Thank you

Call again

07-24-96

-10.00 e1

Sign(JOB#2311-A) / Unit price for (⊖1)
(JOB#1310)

00000

Tax status for(⊖1)(JOB#2311-B,C,D,E,F)

17

Limitation of entry digit for (-) (JOB#2312)

-0.50 %1

Sign(JOB#2311-A) / Unit rate for (%1)
(JOB#1310)

00000

Tax status for(%1) (JOB#2311-B,C,D,E,F)

0.0000 x1

Conversion rate(JOB#1310)

18

Limitation of entry digit for RA (JOB#2312)

18

Limitation of entry digit for PO (JOB#2312)

00000000 CA

Programming for CA (JOB#2320)

18

Programming for CK (JOB#2322)

00000000

Limitation of entry digit for CK (JOB#2320)

18

Programming for CH (JOB#2322)

00000000

Limitation of entry digit for CH (JOB#2320)

999999.99

Limitation of entry digit for

999999.99

CHECK CASHING (JOB#2321)

9

Limitation of entry digit for

999999.99

CHECK CHANGE (JOB#2321)

2616#

Limitation of entry digit for CID (Sentinel)
(JOB#2321)

JOB#

1

00000000

Programming No.

2

00000000

Programming item (A,B,C,D,E,F,G,H)

3

00000000

4

00000000

2617#

JOB#

0

Till timer

111-0044

1-21P

② ER-A330

YOUR RECEIPT

THANK YOU

07-24-95

-100.00 @ 1

00000

17

-500.00 @ 2

00000

17

-100.00 % 1

00000

-0.00 % 2

00000

0.00000 EX 1

18 RA

18 PO

00000000 CA

18 CK

00000000

18 CH 1

00000000

18 CH 2

00000000

9

99999.99 CK

9

99999.99 CK CG

99

99999.99

2616 #

1

00000000

2

00000000

3

00000000

4

00000000

2617 #

0

1 1 00

2 1 00

3 1 00

4 1 00

5 1 00

6 1 00

222-0029

11-57

Sign(JOB#2311-A) / Unit price for (-)
(JOB#1310)

Tax status (-) (JOB#2311-B,C,D,E,F)

Limitation of entry digit for (-) (JOB#2312)

Sign(JOB#2311-A) / Rate for (%)
(JOB#1310)

Tax status for (%) (JOB#2311-B,C,D,E,F)

Conversion rate(JOB#1310)

Limitation of entry digit for RA (JOB#2312)

Limitation of entry digit for PO (JOB#2312)

Programming for CA (JOB#2320)

Limitation of entry digit for CK (JOB#2322)

Programming for CK (JOB#2320)

Limitation of entry digit for CH (JOB#2322)

Programming for CH (JOB#2320)

Limitation of entry digit for CH (JOB#2322)

Programming for CH (JOB#2320)

Limitation of entry digit for
CHECK CASHING (JOB#2321)Limitation of entry digit for
CHECK CHANGE (JOB#2321)Limitation of entry digit for CID (Sentinel)
(JOB#2321)

JOB#

Programming No.

Programming item (A,B,C,D,E,F,G,H)

JOB#

Till timer

Cashier code / Drawer No.(JOB#2510) /
Password (JOB#2519)

[JOB#2700]: Tax program report

Key operation

2700 → @/FOR → CA/AT

① ER-A310

YOUR RECEIPT
Thank you
Call again

07-24-96

TX 1

6.0000

1.00

001 0.11

002 0.23

003 0.39

004 0.57

005 0.73

006 0.89

007 1.11

TX 2

4.0000

0.12

TX 3

- - -

TX 4

- - -

111-0046

1-22P

Tax table

Tax rate

Lower taxable amount

② ER-A330

[JOB#2900]: Tax program report

Key operation

2900 → @/FOR → CA/AT

① ER-A310

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THANK YOU

07-24-96

Π 1

6.0000
1.00
001 0.11
002 0.23
003 0.39
004 0.57
005 0.73
006 0.89
007 1.11

Tax table

Π 2

4.0000 — Tax rate
0.12 — Lower taxable amount

Π 3

Π 4

222-0031
11-58

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Thank you
Call again

07-24-96

1 # — Auto key No. (JOB#2900)

No./ Stored key position code

01	02
02	11
03	101
04	03
05	11
06	102
07	15
08	16
09	..
10	..
11	..
12	..
13	..
14	..
15	..
16	..
17	..
18	..
19	..
20	..

2 #

01 ..

18
19 ..
20 ..

111-0048
1-23P

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07-24-96

	1 #	Auto key No. (JOB#2900)
01	02	No./ Stored key position code
02	11	
03	101	
04	03	
05	11	
06	102	
07	15	
08	16	
09	..	Marks the end of the key sequence
10	..	
11	..	
12	..	
13	..	
14	..	
15	..	
16	..	
17	..	
18	..	
19	..	
20	..	

2 #
01 ..

18 ..
19 ..
20 ..

222-0034
* 12-00

[CA/AT]: PGM mode program report

Key operation

→ CA/AT

① ER-A310

YOUR RECEIPT
Thank you
Call again

07-24-96

01	0003	Dept. code / Programming(JOB#2110)
	00001 TX	Tax status
	17	(JOB#2111-B,C,D,E,F)
	1 #	Programming(JOB#2112)
	123.45	Group No.(JOB#2116)
	1003	Unit price(JOB#1110)
02	00010 TX	
	17	
	1 #	
	-23.45	Sign (JOB#2111-A) / Unit price(JOB#1110)
03	0103	
	00100 TX	
	17	
	2 #	
	34.56	
04	0012	
	01000 TX	
	17	
	0 #	
	45.67	
05	0001	
	10000 TX	
	17	

30	0001	
	00000 TX	
	17	
	0 #	
	0.00	
	-10.00	01
	00000	
	17	
	-0.50	21
	00000	
	0.0000	EX 1
	18	RA
	18	PO
	00000000	CA
	18	CK
	00000000	
	18	CH 1
	00000000	
	999999.99	CK
	999999.99	CK CC
	9	
	999999.99	
	2616 #	
	1	
	00000000	
	2	
	00000000	
	3	
	00000000	
	4	
	00000000	
	2617 #	
	0	
	6.0000	TX 1
	1.00	
001	0.11	
002	0.23	
003	0.39	
004	0.57	
005	0.73	
006	0.89	
007	1.11	
		TX 2
	4.0000	
	0.12	
		TX 3
	- - -	
	- - -	TX 4
	111-0036	
	1-15P	

Sign(JOB#2311-A) / Unit price for (-)
(JOB#1310)

Tax status (-) (JOB#2311-B,C,D,E,F)

Limitation of entry digit for (-) (JOB#2312)

Sign(JOB#2311-A) /Rate for (%)
(JOB#1310)

Tax status for (-) (JOB#2311-B,C,D,E,F)

Conversion rate(JOB#1310)

Limitation of entry digit for RA (JOB#2312)

Limitation of entry digit for PO (JOB#2312)

Programming for CA (JOB#2320)

Limitation of entry digit for CK (JOB#2322)

Programming for CK (JOB#2320)

Limitation of entry digit for CH (JOB#2322)

Programming for CH (JOB#2320)

Limitation of entry digit for

CHECK CASHING (JOB#2321)

Limitation of entry digit for

CHECK CHANGE (JOB#2321)

Limitation of entry digit for CID (Sentinel)
(JOB#2321)

JOB#

Programming No.

Programming item (A,B,C,D,E,F,G,H)

JOB#

Till timer

Tax table

Tax rate

Lower taxable amount

YOUR RECEIPT

THANK YOU

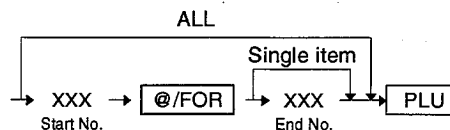
07-24-96

01	0003	Dept. code / Programming(JOB#2110)
	00000 TX	FS status and Tax status (JOB#2111-B,C,D,E,F)
	17	Programming(JOB#2112)
	1 #	Group No.(JOB#2116)
	10.00	Unit price(JOB#1110)
02	1003	
	00001 TX	
	17	
	2 #	
	20.00	Sign (JOB#2111-A) / Unit price(JOB#1110)
03	0103	
	00010 TX	
	17	
	3 #	
	-30.00	
04	0013	
	00100 TX	
	17	
	4 #	
	40.00	
05	0003	
	01000 TX	
	17	

0 #	
0.00	
50 0001	
00000 TX	
17	
0 #	
0.00	
-100.00 @ 1	Sign(JOB#2311-A) / Unit price for (-) (JOB#2310)
00000	Tax status (-) (JOB#2311-B,C,D,E,F)
17	Limitation of entry digit for (-) (JOB#2312)
-500.00 @ 2	Sign(JOB#2311-A) / Unit price for (-) (JOB#1310)
00000	Tax status for (-) (JOB#2311-B,C,D,E,F)
17	
-100.00 % 1	
00000	
-0.00 % 2	
00000	
0.00000 EX 1	Conversion rate(JOB#1310)
18 RA	Limitation of entry digit for RA (JOB#2312)
18 PO	Limitation of entry digit for PO (JOB#2312)
00000000 CA	Programming for CA (JOB#2320)
18 CK	Limitation of entry digit for CK (JOB#2322)
00000000	Programming for CK (JOB#2320)
18 CH 1	Limitation of entry digit for CH1 (JOB#2322)
00000000	Programming for CH (JOB#2320)
18 CH 2	Limitation of entry digit for CH2 (JOB#2322)
00000000	Programming for CH2 (JOB#2320)
9	
99999.99 CK	Limitation of entry digit for CHECK CASHING (JOB#2321)
9	
99999.99 CK CG	Limitation of entry digit for CHECK CHANGE (JOB#2321)
99	
99999.99	Limitation of entry digit for CID (Sentinel) (JOB#2321)
2616 #	JOB#
1	Programming No.
00000000	Programming item (A,B,C,D,E,F,G,H)
2	

[PLU]: PGM mode program report

Key operation



① ER-A310

6.0000	TX 1
1.00	
001 0.11	
002 0.23	
003 0.39	
004 0.57	
005 0.73	
006 0.89	
007 1.11	
Tax table	
4.0000	TX 2
0.12	
	Tax rate
	Lower taxable amount
---	TX 3
---	TX 4
222-0039	
* 12-02	

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Thank you
Call again

07-24-96

R001	01	PLU code / Dept. code(JOB#1200)
	00001	TX Tax status
	2	(JOB#2210-B,C,D,E,F)
	10.00	Amount entry type(JOB#2210-G)
R002	02	Unit price(JOB#1210)
	00010	TX
	2	
	-20.00	Sign(JOB#2210-A) / Unit price(JOB#1210)
R003	03	
	00100	TX
	2	
	30.00	
R004	04	
	01000	TX
	2	
	40.00	
R005	05	
	10000	TX
	2	
	-	
	90.00	
R010	10	
	00000	TX
	2	
	100.00	
	111-0038	
	1-18P	

YOUR RECEIPT

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07-24-96

PL001 01 ——— PLU code / Dept. code(JOB#1200)

00000 TX ——— FS status and Tax status
(JOB#2210-B,C,D,E,F)

2 ——— Amount entry type(JOB#2210-G)

100.00 ——— Unit price(JOB#1210)

PL002 02

00001 TX

2

-200.00 ——— Sign(JOB#2210-A) / Unit price(JOB#1210)

PL003 03

00010 TX

2

300.00

PL004 04

00100 TX

2

400.00

PL005 05

01000 TX

2

900.00

PL010 10

00000 TX

2

1000.00

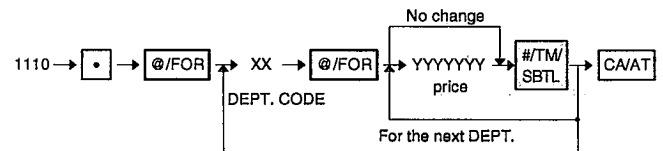
222-0037

* 12-01

2. Programming by JOB# entry

[JOB#1110]

PROGRAMMING OF DEPT. PRICE



XX: DEPT-CODE = 01 ~ 30/50 max.

YYYYYYY: PRICE = 0 ~ 9999999

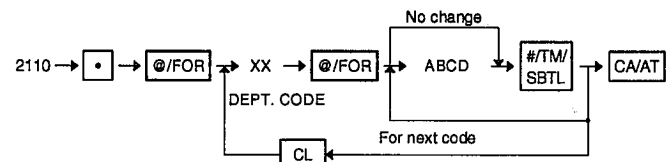
Preset price is max. 7 digits.

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 = 0000000

[JOB#2110]

PROGRAMMING OF DEPT. FUNCTION



XX: DEPT. code = 01 ~ 30/50 max.

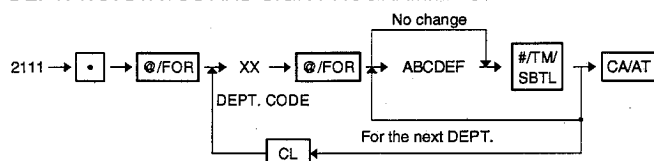
A:	Item validation printing	A
	Non compulsory	0
	Compulsory	1

B:	SICS Function	B
	Normal	0
	Single item cash sale	1

C:	Dept. type	C
	Normal	0
	HASH	1

D:	Amount entry type	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 ~ 30/50 max.

A:

Sign	A
+	0
-	1

B: • ER-A310: Not used (Fixed at "0")

• ER-A330

Food stamp	B
Non-food stampable	0
Food stampable	1

C:

Taxable 4	C
Non taxable	0
Taxable	1

D:

Taxable 3	D
Non taxable	0
Taxable	1

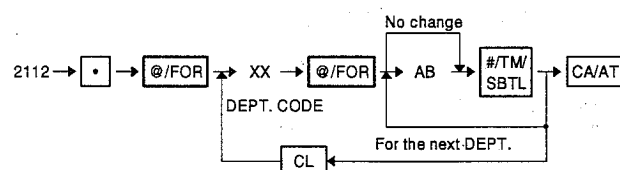
E:

Taxable 2	E
Non taxable	0
Taxable	1

F:

Taxable 1	F
Non taxable	0
Taxable	1

MRS = 000000

[JOB#2112]**DEPT. HALO (limit) preset**

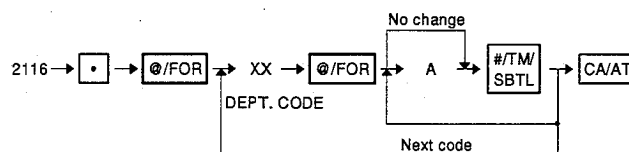
XX: DEPT. CODE = 01 ~ 30/50 max.

A: Mantissa (HALO) = 1 ~ 9

B: Exponent (HALO) = 0 ~ 7

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

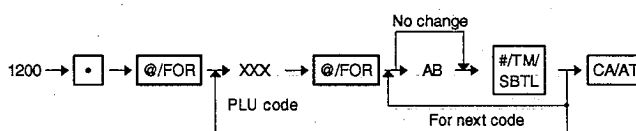
MRS = 17

[JOB#2116]**PROGRAMMING OF DEPT. GROUP**

XX: DEPT. code = 01 ~ 30/50 max.

AA: Group No. = 0 ~ 9

MRS = 0

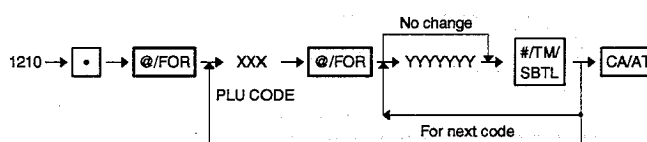
[JOB#1200]**Creating/assigning PLUs and the associated departments.**

XXX: PLU code = 001 ~ 999

AB: DEPT. code = 01 ~ 30/50

If the record of entered PLU code is not in PLU file at this programming, it will be created in PLU file.

MRS = 01

[JOB#1210]**PRICE PROGRAMMING FOR PLUs**

XXX: PLU CODE = 001 ~ 999

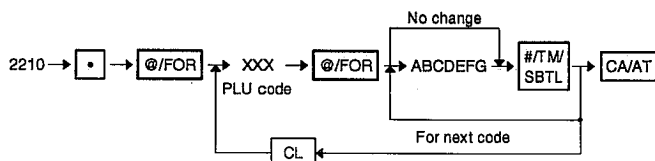
YYYYYYY: Amount = 0 ~ 9999999

If the record of entered PLU code is not in PLU file at this programming, it will be created in PLU file.

MRS = 0000000

[JOB#2210]

PLU function programming



XXX: PLU code = 001~500/999 max.

A:

Sign	A
+	0
-	1

- B:
- ER-A310: Not used (Fixed at "0")
 - ER-A330

Food stamp	B
Non-food stampable	0
Food stampable	1

C:

Taxable4	C
Non taxable	0
Taxable	1

D:

Taxable3	D
Non taxable	0
Taxable	1

E:

Taxable2	E
Non taxable	0
Taxable	1

F:

Taxable1	F
Non taxable	0
Taxable	1

G:

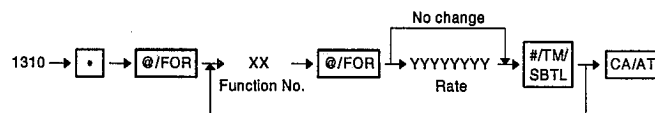
Amount entry type	G
Inhibited	0
Open	1
Preset	2
Open and preset	3
Delete	4

If the record of entered PLU code is not in PLU file at this programming, it will be created in PLU file.

MRS = 0000002

[JOB#1310]

RATE PROGRAMMING



XX: Function No.

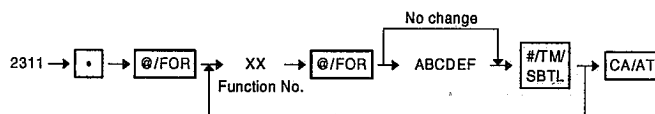
YYYYYYY: Rate

Function No.	Function	Entry range	Remarks
1	(-)1	0 to 99999.99	(-) unit price
2	(-)2		
3	%1	0 to 100.00	% rate
4	%2		
5	Conversion 1	0 to 9999.9999	Rate
6	Conversion 2		
7	Conversion 3		

MRS = 0

[JOB#2311]

MISC KEY PROGRAMMING 1



XX: Function No.

Function No.	Function
1	(-)1
2	(-)2
3	%1
4	%2

A:

Sign	A
+	0
-	1

* Not available for (-)1 and (-)2

- B:
- ER-A310: Not used (Fixed at "0")
 - ER-A330

Food stamp	B
Non food stampable	0
Food stampable	1

C:

Taxable 4	C
Non taxable	0
Taxable	1

D:

Taxable 3	D
Non taxable	0
Taxable	1

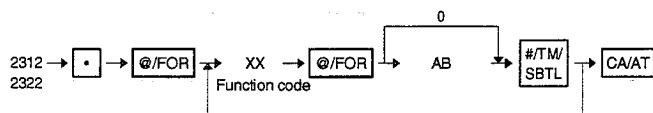
E:

Taxable 2	E
Non taxable	0
Taxable	1

F:

Taxable 1	F
Non taxable	0
Taxable	1

MRS = 100000

[JOB#2312, 2322]**HALO PROGRAMMING**

XX: Function No.

A: Mantissa (0 to 9)

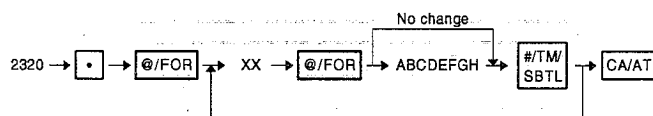
B: Exponent (0 to 8)

JOB#	Function No.	Function	Remarks
2312	1	(-)1	Item B is specifiable within the range from 0 to 7.
	2	(-)2	
	9	TAX	
	10	RA	Item B is specifiable within the range from 0 to 8.
	11	PO	
2322	13	CA2	Item B is specifiable within the range from 0 to 8.
	14	CK	
	15	CH1	
	16	CH2	

Entry range, system: $A \times 10^B$

MRS = 17 ((-)1, (-)2, TAX)

18 (RA, PO, CA2, CK, CH1, CH2)

[JOB#2320]**MEDIA KEY PROGRAMMING**

XX: Function No.

Function No.	Function	A	B	C	D	E	F	G	H
12	CA 1	○	○	○	○	○	○	○	○
13	CA 2	○	○	○	○	○	○	○	○
14	CHK	○	○	○	○	○	○	○	○
15	CH 1	○	○	○	○	○	○	○	○
16	CH 2	○	○	○	○	○	○	○	○

* Items marked with on (○) are programmable.

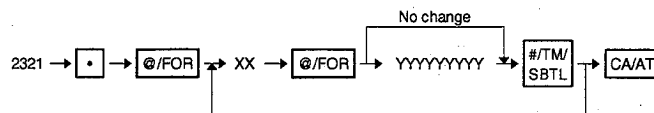
A:	Change due	A
	Enable	0
	Disable	1

B:	VP	B
	Non compulsory	0
	Compulsory	1

C, D, E, F, G: Not used (Fixed at "00000")

H:	Entry of amount tended	H
	Non compulsory (Cash, Check)	0
	Inhibit (CH1 to CH8)	1
	Compulsory	1

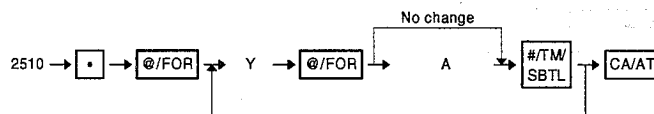
MRS=00000000

[JOB#2321]**MEDIA KEY FUNCTION PROGRAM (AMOUNT HALO)**

XX: Function No.

YYYYYYYY: Limitation amount

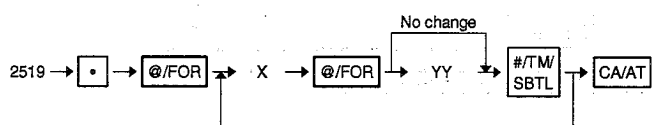
Func. No.	Function	Entry range	MRS
19	CID (Sentinel)	0 to 999999999	999999999
18	Check CHANGE	0 to 99999999	99999999
17	Check Cashing	0 to 99999999	99999999

[JOB#2510] (ER-A330 only)**CASHIER PROGRAMMING**

Y: Cashier code = 1~6

A:	Drawer No.	A
	Not open	0
	Drawer No.1	1
	Drawer No.2	2

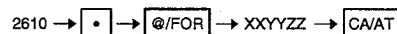
MRS = 1

[JOB#2519] (ER-A330 only)**CASHIER PASSWORD DEFINITION**

X: Cashier No. = 1~6

YY: Cashier Password = 00~99

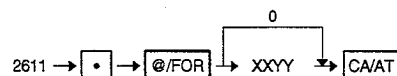
MRS = 00 (No password)

[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

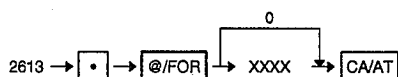


XXX: Machine number (000 ~ 999)

MRS = 000

[JOB#2613]

CONSECUTIVE NUMBER SETTING

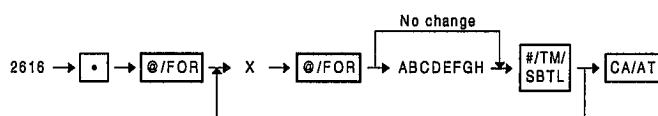


XXXX: Consecutive number (0000 ~ 9999)

MRS = 0000

[JOB#2616]

OPTIONAL FEATURE



X: 1 MRS = 00000000

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

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

D:	"RFND" key entry in REG mode	D
	Enable	0
	Disable	1

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

F:	In direct void in REG mode	F
	Enable	0
	Disable	1

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

H: Not used (Fixed at "0")

X: 2 MRS = 00000000

A, B, C: Not used (Fixed at "000")

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

E:	Time print	E
	Yes	0
	No	1

F:	Printing of journal	F
	Full print	0
	Journal select	1

G, H: Not used (Fixed at "00")

X: 3 MRS = 00000000

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

C: • ER-A310: Not used (Fixed at "0")

• ER-A330

	Zero skip in Cashier report	C
	Yes	0
	No	1

D:	Zero skip in Transaction report	D
	Yes	0
	No	1

E:	Zero skip in Dept. report	E
	Yes	0
	No	1

F:	Zero skip in PLU report	F
	Yes	0
	No	1

G:	Zero skip in Hourly report	G
	Yes	0
	No	1

H:	Zero skip in Daily net report	H
	Yes	0
	No	1

X: 4 NOT USED

MRS = 00000000

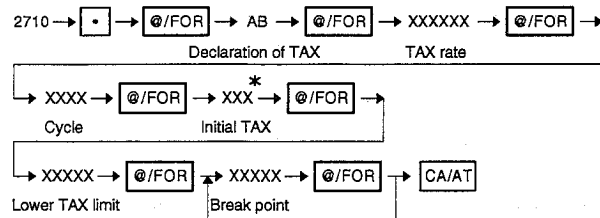
[JOB#2617]

PROGRAMMING OF THE TIME INTERVAL FOR THE TILL TIMER



XXX: 0 ~ 255 sec

MRS = 000

[Job# 2710]**TAX TABLE PROGRAMMING**

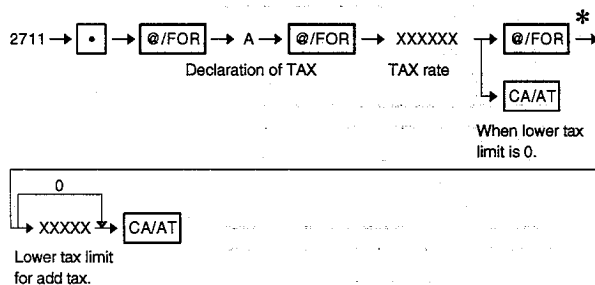
72 BREAKPOINTS CAN BE PROGRAMMED FOR EACH TAX-TABLE.

(Case of interval between break point is 1 dollar or more and less than 100 dollar, 36 breakpoints is programmed for each table.)

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

- A: INTERVAL BETWEEN BREAKPOINTS IS = 1
 1 DOLLAR OR MORE AND LESS THAN 100 DOLLAR
 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 RATE PROGRAMMING**

DEPRESSION OF THE ST KEY AT FOLLOWING POINTS PERFORM A TAX TABLE DELETE OPERATION.

A:

Tax programming	A
Tax1	1
Tax2	2
Tax3	3
Tax4	4

xxxxxx: Rate = 0.0000-99.9999%

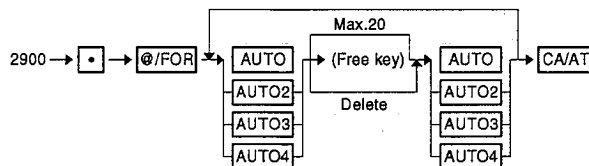
LOWER TAX LIMITATION max. 999.99

(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: (X2/Z2)

2900 -> [] -> [] -> [] -> 1 -> [PLU] -> 100 -> [DEPT2] -> [AUTO] -> [TL]

Mode switch: (REG)

Key entry	R/J	Display	Comment
[AUTO]	PL0 0 1 1	1	same as [1] entry
	★1.1 0	0 0 1 1.1 0	same as [PLU] entry
	0 2 ★1.0 0	1	same as [1] entry
		1 0	same as [0] entry
		1 0 0	same as [0] entry
		0 2 1.0 0	same as [DEPT2] entry

Mode switch: (X2/Z2)

2900 -> [] -> [] -> [] -> 100 -> [TL] -> [AUTO2] -> [TL]

Mode switch: (REG)

Key entry	R/J	Display	Comment
[DEPT1]	0 1 ★1.0 0	0 1 1.0 0	
[AUTO2]		1	same as [1] entry
	★1.0 0 TL	1 0	same as [0] entry
	★1.0 0 CA	1 0 0	same as [0] entry
	★1.0 0 CG	C 0.0 0	same as [TL] entry

[JOB#2910, 2911]

Training mode start (#2910), End (#2911)

2910/2911 -> [] -> [] -> [] -> [CA/AT]

<Training mode>

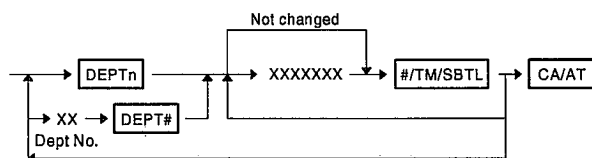
All operation is same as REG-mode operation.

In the training mode, the consecutive number is printed as same number in receipt/journal printer.

In the training mode, the consecutive number is counted up.

3. Programming by direct key entry

1) PRICE PROGRAMMING for DEPT.



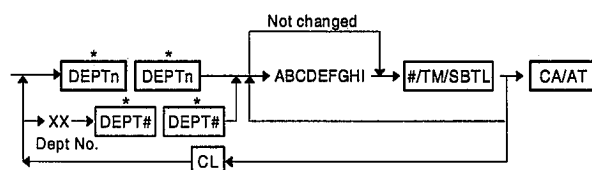
XXXXXXX: UNIT PRICE (Max. 7 digits)

MRS = 0

Note: Current price is displayed.

* If [DEPT#] or [DEPTn] (same as displayed department number) is depressed, programming mode is changed from "PRICE PROGRAMMING" to "FUNCTION PROGRAMMING" (from "FUNCTION PROGRAMMING" to "PRICE PROGRAMMING").

2) FUNCTION PROGRAMMING for DEPT.



* When starting setting, press [DEPTn] or [DEPT#] key twice. When continuing the same setting, press it once.

A:

Sign	A
+	0
-	1

B: • ER-A310: Not used (Fixed at "0")

• ER-A330

Food stamp	B
Non-food stampable	0
Food stampable	1

C:

Taxable4	C
Non taxable	0
Taxable	1

D:

Taxable3	D
Non taxable	0
Taxable	1

E:

Taxable2	E
Non taxable	0
Taxable	1

F:

Taxable1	F
Non taxable	0
Taxable	1

G:

SICS Function	G
Normal	0
Single item cash sale	1

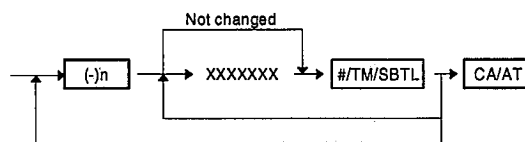
H: Limitation (Mantissa) = 0~9

I: Limitation (Exponent) = 0~7

MRS = NORMAL, 17 HALO

Note: Current setting is displayed.

3) PRICE & MODIFY PROGRAMMING for (-) KEYS.



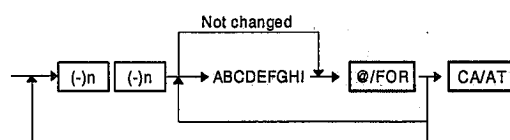
XXXXXXX: UNIT PRICE (Max. 7 digits)

MRS = 0

* If the same [(-)n] key is depressed, programming mode is changed from "PRICE PROGRAMMING" to "FUNCTION PROGRAMMING" (from "FUNCTION PROGRAMMING" to "PRICE PROGRAMMING").

Note: Current price is displayed.

4) FUNCTION PROGRAMMING for (-) KEYS.



A: Not used (Fixed at "0")

B: • ER-A310: Not used (Fixed at "0")

• ER-A330

Food stamp	B
Non-food stampable	0
Food stampable	1

C:

Taxable4	C
Non taxable	0
Taxable	1

D:

Taxable3	D
Non taxable	0
Taxable	1

E:

Taxable2	E
Non taxable	0
Taxable	1

F:

Taxable1	F
Non taxable	0
Taxable	1

G:

SICS Function	G
Normal	0
Single item cash sale	1

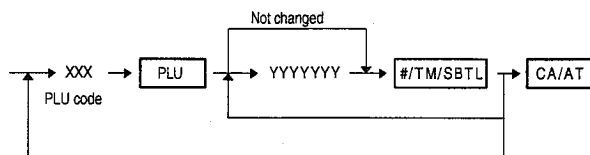
H: Limitation (Mantissa) = 0~9

I: Limitation (Exponent) = 0~7

MRS = NORMAL, 17 HALO

Note: Current setting is displayed.

5) PLU PRESET PRICE SETTING



XXX: PLU CODE (001 to 999)

YYYYYYY: UNIT PRICE (7 digits)

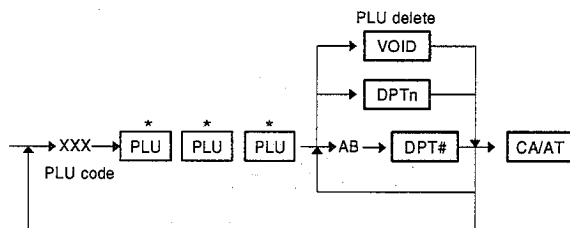
If the record of entered PLU code is not in PLU file at this programming, it will be created in PLU file.

MRS = 0

* If the same [PLU] key is depressed, programming mode is changed from "PRICE PROGRAMMING" to "ATTRIBUTE PROGRAMMING" and changed to "PLU ASSOCIATION PROGRAMMING" by depressing the [PLU] key again.

Note: Current price is displayed.

6) PLU ASSOCIATION TO DEPARTMENTS



* When starting setting, press [PLU] key three times. When continuing the same setting, press it once.

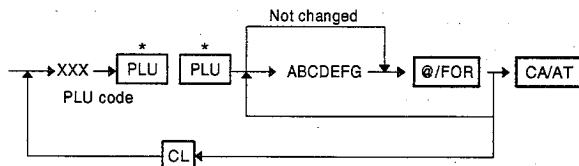
XXX: PLU CODE (001 to 999)

AB: Dept. code = 1 to 30/50

If the record of entered PLU code is not in PLU file at this programming, it will be created in PLU file.

MRS = 01

7) PROGRAMMING OF PLU/SUBDEPT



* When starting setting, press [PLU] key twice. When continuing the same setting, press it once.

XXX: PLU CODE (001 to 999)

A:	Sign	A
	+	0
	-	1

- B:
- ER-A310: Not used (Fixed at "0")
 - ER-A330

	Food stamp	B
	Non-food stampable	0
	Food stampable	1

C:	Taxable4	C
	Non taxable	0
	Taxable	1

D:	Taxable3	D
	Non taxable	0
	Taxable	1

E:	Taxable2	E
	Non taxable	0
	Taxable	1

F:	Taxable1	F
	Non taxable	0
	Taxable	1

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

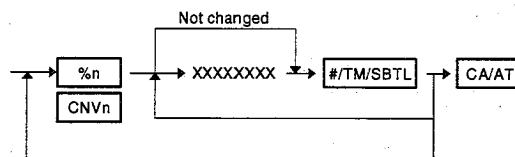
If the record of entered PLU code is not in PLU file at this programming, it will be created in PLU file.

MRS = 002

* If the same [PLU] key is depressed, programming mode is changed from "PRICE PROGRAMMING" to "ATTRIBUTE PROGRAMMING" and changed to "PLU ASSOCIATION PROGRAMMING" by depressing the [PLU] key again.

Note: Current price is displayed.

8) PROGRAMMING RATE FOR %KEY



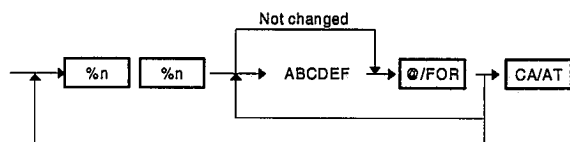
XXXXXXX: 0.01%~100.00% (%n)
0.0001~9999.9999 (CNVn)

MRS = 0.00%

* If the same [%n] key is depressed, programming mode is changed from "RATE PROGRAMMING" to "FUNCTION PROGRAMMING" (from "FUNCTION PROGRAMMING" to "RATE PROGRAMMING").

Note: Current price is displayed.

9) PROGRAMMING FOR %KEY



A:

Sign	A
+	0
-	1

- B:
- ER-A310: Not used (Fixed at "0")
 - ER-A330

Food stamp	B
Non-food stampable	0
Food stampable	1

C:

Taxable4	C
Non taxable	0
Taxable	1

D:

Taxable3	D
Non taxable	0
Taxable	1

E:

Taxable2	E
Non taxable	0
Taxable	1

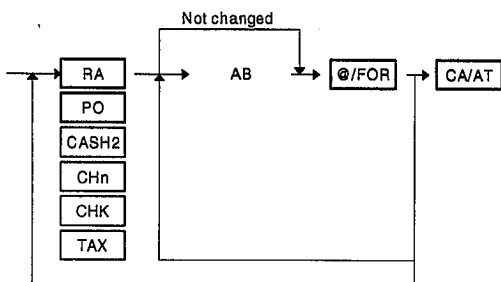
F:

Taxable1	F
Non taxable	0
Taxable	1

MRS = 100000

Note: Current price is displayed.

10) PROGRAMMING FOR MEDIA KEYS & FUNCTION KEYS



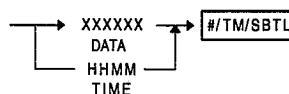
A: Mantissa (0 to 9)

B: Exponent (0 to 8)

MRS = 18 digits (RA, PO)
18 digits (CASH2, CHn, CHK)
17 digits (TAX)

Note: Current price is displayed.

11) DATE, TIME PROGRAMMING



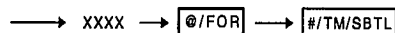
DATE: date entry format follows SRV Programming (6 digits)

TIME: 24 hour system (4 digits)

MRS = DATE: 01-01-00

TIME: 00-00

12) CONSECUTIVE NO. PROGRAMMING

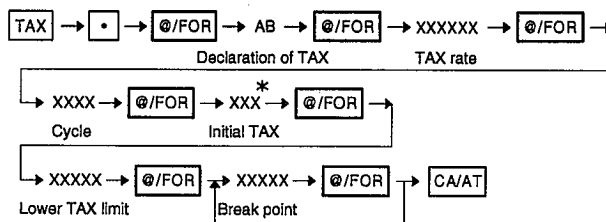


CONSECUTIVE
NO.

CONSECUTIVE NO.: 0000 to 9999 (4 digits)

MRS = 0001

13) TAX TABLE PROGRAMMING



72 BREAKPOINTS CAN BE PROGRAMMED FOR EACH TAX-TABLE.

(Case of interval between break point is 1 dollar or more and less than 100 dollar, 36 breakpoints is programmed for each table.)

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

A: INTERVAL BETWEEN BREAKPOINTS IS 1 DOLLAR OR MORE AND LESS THAN 100 DOLLAR = 1
INTERVAL BETWEEN BREAKPOINTS IS BELOW 1 DOLLAR = 0

B: TABLE 1 PROGRAMMING = 1
TABLE 2 PROGRAMMING = 2
TABLE 3 PROGRAMMING = 3
TABLE 4 PROGRAMMING = 4

MRS = NO TAX

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

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

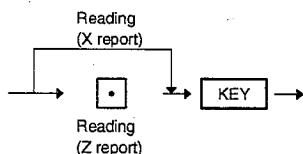
- 1) OP X/Z reports (individual clerk reports)
- 2) X1/Z1 reports (Daily sales total X and Z reports)
- 3) X2/Z2 reports (Periodic total X and Z reports)

1. Print report

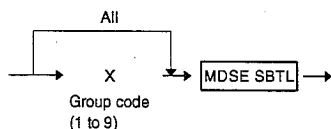
In the table below those reports marked with a circle "O" can be printed by the standard machine and those marked with an asterisk "*" can be printed when the corresponding option is added.

REPORT NAME	KEY ENTRY	MODE						DATA FOR READING	REMARK
		OP X/Z		X1/Z1		X2/Z2			
		X	Z	X1	Z1	X2	Z2		
GENERAL	CA/AT			○	○	○	○		*1
DEPT/GROUP	MDSE SBTL			○		○		GROUP CODE	*1, *2
TRANSACTION	CHK			○		○			*1
HOURLY	#/TM/SBTL			○	○				*1
DAILY NET	#/TM/SBTL					○	○		*1
PLU (RANGE)	PLU			○	○	○	○	PLU CODE	*1, *3
PLU (DEPT)	DPTn DPT#			○		○		DEPT. CODE	*1, *5
CASHIER (IND) (ER-A330 only)	CASH#	○	○	○	○			CASHIER CODE (in X1/Z1)	*1, *4
CASHIER (ALL) (ER-A330 only)	CASH#			○	○				*1

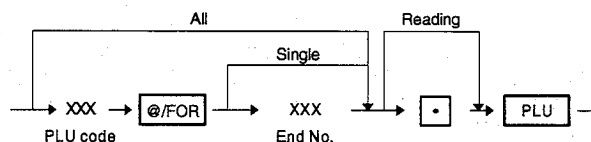
*1 To read respective reports, it is necessary to follow the procedure below.



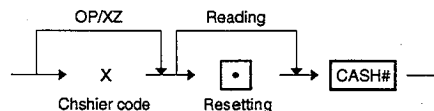
*2



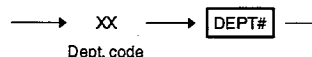
*3 PLU code range can be specified by entering the start and end numbers according to the following procedure.
When specifying a single time interval, PLU code, the start number has only to be entered.



*4 To read respective reports, it is necessary to follow the procedure below.



*5 To read respective reports, it is necessary to follow the procedure below.



2. Flash report

REPORT NAME	KEY ENTRY	MODE						DATA FOR READING	REMARK
		OP X/Z		X1/Z1		X2/Z2			
		X	Z	X1	Z1 *3	X2	Z2 *3		
NET3	CA/AT	○							
DEPT	DPTn	○						DEPT. CODE	*8
	DPT#								
DEPT/GROUP	MDSE SBTL	○						GROUP CODE	*6
HOURLY	#/TM/SBTL	○						TIME	*7
CID	@/FOR	○							

*6 To read respective reports, it is necessary to follow the procedure below.

→ Group No. → MDSE SBTL →

*7 To read respective reports, it is necessary to follow the procedure below.

→ TIME → #/TM/SBTL →

TIME : 24 hour system (2 digits)

*8 To read respective reports, it is necessary to follow the procedure below.

→ XX → DEPT# →
Dept. code

3. Overflow mark

If the amount in any totalizer other than GT to be printed on X or Z reports exceeds a programmed limit, the indication mark (overflow mark) is printed for the totalizer concerned.

The overflow mark may be printed even if a totalizer does not reach the maximum amount. This occurs, for example, when the amount in the totalizer gets smaller than the maximum amount due to the entry of a negative amount after the overflowing of the totalizer. This means that when the totalizer overflows once, the overflow mark (for example, "★★★") is printed.

SHARP

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