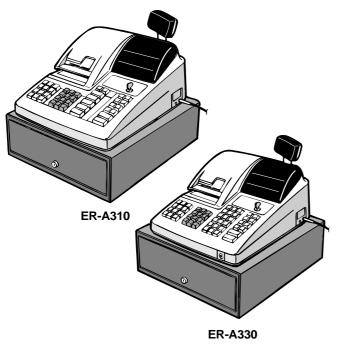
SHARP PROGRAMMING MANUAL



CODE: 00ZERA310VPME

ELECTRONIC CASH REGISTER

ER-A310 MODEL ER-A330

(For "V" version) SRV KEY : LKGIM7113RCZZ PRINTER : CR-510 (ER-A310) UCR-812A (ER-A330)

CONTENTS

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

SHARP CORPORATION

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 lockup 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.
- 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 " [0.00 ."

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]

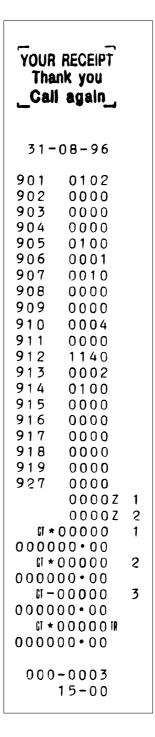
All parameters contained for the SRV mode as listed Key operation

```
    SRV mode
```

 $900 \rightarrow \boxed{} \rightarrow \boxed{} TL/NS$

PGM mode

9900→ 🛞 → TL/NS



YOUR RECEIP THANK YOU	
30-08-96	
9010102902000090300009040000905010090600019070010908000090900009100001911000091211409130002914010091500009160000917000091800009190000210000210000	1
*0000000 000000000	
ផ ★000000 00000.00 ព	2
มั 000000- 00•000000 ม	9 @
*000000 000000	~
000-0003 15-00	

[JOB# 950]

Keyboard layout programming report Key operation

SRV mode

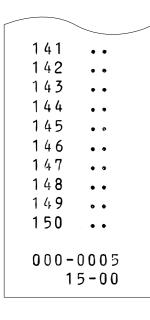


PGM mode

 $9950 \rightarrow \fbox{} \rightarrow \fbox{} TL/NS$

YOUR RECEIPT Thank you _Call again_	103 41 104 42 105 43 106 •• 107 ••
31-08-96	108 •• 109 ••
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	110 • 111 • 112 • 113 • 114 • 115 • 116 • 117 • 118 • 120 • 121 • 122 • 123 • 124 • 125 • 126 • 127 • 128 • 130 •
23 05 24 01	000-0005 15-01
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	

		_
YOUR RECEIPT	41 ••	
	42 ••	
THANK YOU	43 10	
	44 06	
	45 ••	
30-08-96	46 5 0	
	47 68	
01 17	101 33	
02 18	102 34	
03 22	103 35	
04 26	104 36	
05 19	105 37	
06 23	106 3 9	
07 27	107 4 0	
08 20	108 41	
09 24	109 42	
10 28	1 10 43	
11 21	111 45	
1 2 25	112 46	
13 12	113 47	
14 11	114 48	
15 64	115 49	
16 63	116 ••	
17 ••	117 ••	
18 38	118 ••	
19 44	119 •• 120 ••	
20 02	121 ••	
21 03	122 ••	
22 09	123 ••	
23 05 24 01	124 ••	
25 ••	125 ••	
26 07	126 ••	
27 ••	127	
28 61	128 ••	
29 62	129	
30 ••	130 ••	
31 ••	131 ••	
32 ••	132 ••	
33 59	133 ••	
34 65	134 ••	
35 ••	135 ••	
36 ••	136 ••	
37 60	137 ••	
38 66	138 ••	
39 67	139 •• 140 ••	
40 ••	140 ••	



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. \bigstar mark is MRS setting.

[JOB #901]:MRS=0102

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

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

#901-B: Tax system

1. TAX system	901-B	
Auto TAX 1~4	0	
Auto VAT 1~4	1	*
Manual VAT 1~4	2]
Manual VAT 1	3	
Manual TAX 1~4	4	
Swiss TAX	5	

#901-C: 1. Rounding system

		-
1. Rounding system	901-C	
Normal	0	*
SWEDEN	1	
DENMARK	4	

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

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

[JOB#902] ER-A310: NOT USED MRS=0000 ER-A330: MRS=0000

#902-A: 1. PLU quantity in ER-A330 for overlapped cashier detailed receipt printing.

1. PLU quantity	902-A	
750	0	*
650	1	

To use the overlapped cashier function, the PLU number must be set to 650.

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

[JOB#903] NOT USED: MRS=0000

[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=0100

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

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

1. Taxable subtotal is zero	2. Tax is zero	905-B	
Skip	Print	0	
Зкір	Skip	1	*
Print	Print	4	
FIIII	Skip	5	

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

[JOB#906] MRS=0001

#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. In case of all cashier CCD and individual cashier CCD, X1 report before CCD entry

2. Minus department and PLU

1. In case of all cashier CCD and individual cashier CCD, X1 report before CCD entry	2. Minus department and PLU	907-C	
Disable	Disable	0	
Disable	Enable	1	*
Enable	Disable	4	
LIIADIC	Enable	5	

#907-D: 1. CCD compulsory

1. CCD compulsory	907-D	
Non compulsory	0	*
For individual cashier	1	
For all cashier	2	

[JOB#908] MRS=0000

#908-A: GT print on Z report

				-
GT1 (NET)	GT2 (+)	GT3 (–)	908-A	
	Print	Print	0	*
Print	1 mit	Skip	1	
	Skip	Print	2	
	Бкір	Skip	3	
	Print	Print	4	
Skip	FIIII	Skip	5	
•	Print	6		
	Skip	Skip	7	

#908-B: GT print on X report

GT1 (NET)	GT2 (+)	GT3 (–)	908-B
	Skip	Skip	0
Skip	Скр	Print	1
entp	Print	Skip	2
	Print	Print	3
	Skip	Skip	4
Print	Зкір	Print	5
	Drint	Skip	6
	Print	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	
Νο	No	0	*
INO	Yes	1	
Yes	No	4	
Tes	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=0000

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

	5 I		_
1. Printing of training GT on the X report	 Printing of training GT on the Z report 	909-A	
Skip	Print	0	*
Экір	Skip	1	
Print	Print	2	
1 1110	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
 - 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	*
Print	Skip	2	
Skip	Print	4	
Зкір	Skip	6	

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

[JOB#910] ER-A310: MRS=0004 ER-A330: MRS=0001

#910-A: 1. Overlapped cashier receipt format 2. Overlapped cashier function

1. Overlapped cashier receipt format	2. Overlapped cashier function	910-A	
Total receipt	No	0	*
Total Tecelpt	Yes	1	
Detail receipt	No	2	
Detail Teceipt	Yes	3	

#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: Not used (Fixed at "0")
- #910-D: 1. Cashier system

1 Cashian avatan	040 D	
1. Cashier system	910-D	
1 hole key	1	★ (ER-A330)
Cashier code entry key	4	★ (ER-A310)

[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=1140

#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 = 0002

#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 [ST]

Escape the compulsion of VP

NOTE: Must turn to MGR mode and depress

• • , PRINT keys to escape validation

1. ST Print	3. Escape the compulsion of VP/SLIP	913-B	
No	Disable	0	*
NO	Enable	1	
Yes	Disable	4	
163	Enable	5	

#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	1
	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	
	All lock error	Enable	0	
Non-compulsory	All lock entor	Disable	1	
non comparery	Miss operation	Enable	2	*
	(One shot error)	Disable	3	
	All lock error	Enable	4	
Compulsory	All lock entit	Disable	5	
	Miss operation	Enable	6	
	(One shot error)	Disable	7	

[JOB#914] MRS = 0100

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

#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	1
Disable	2	

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

Non-add code entry Disable/Enable

1. CHECK CASHING	2. Non-add code entry	914-D
Disable	Enable	0
Disable	Disable	1
Enable	Enable	2
LIIdDIE	Disable	3

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

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

1. Negative merchan- dise subtotal	2. Subtotal entry compulsory before tendering	3 .Subtotal entry before direct non-tendering finalization	916-C	
	Non-compulsory	Non-compulsory	0	+
Allow		Compulsory	1	
		Non-compulsory	2	
	Compusory	Compulsory	3	
Disallow Non-compulsory Compulsory	Non-compulsory	4		
	Non-compuisory	Compulsory	5	
	Compulson	Non-compulsory	6	
	Compuisory	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
1. Print coupon PLU's on general report	2. Print net sales SBTL (NET1) on general report	3. Print CHK CHANGE on general report	916-D	
	Print	Print	0	*
Print	FIIII	Skip	1	
	Skip	Print	2	
	Скр	Skip	3	
	Print	Print	4	
Skip	1 min	Skip	5	
Chip	Skip	Print	6	
	Скр	Skip	7	

[JOB#917] NOT USED MRS = 0000

[JOB#918] MRS = 0000

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

 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	1
Not	0	*
Omit digits lower than TAB position	1	

[JOB#927] MRS = 0000

#927-A: 1. Rounding up of the units digit of amount

#927-B: 1. Rounding down of the units digit of amount

1. Rounding the units digit of amount	927-AB	
Common destination	00	*
Netherland/Switzerland	82	
Norway	54	

#927-C: 1. Difference memory (Difference between before-rounding and after-rounding) 2. Limit on the least sighificant digit in entering the amount on item

1. Difference memory	2. Limit on the least sighificant digit in entering the amount on item	927-C	
	Arbitary	0	*
No	0 only	1	
	0 and 5 only	2	
	Arbitary	4	
Yes	0 only	5	
	0 and 5 only	6	

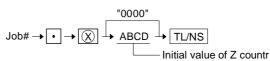
#927-D: 1. Application of rounding

Limit on the least significant digit in entering the amount of payment

1. Application of rounding	2. Limit on the least significant digit in entering the amount of payment	927-D	
Item & Payment	Arbitary	0	*
item & Fayment	0 only 0 and 5 only	2	
	Arbitary	4	
Payment	0 only	5	
	0 and 5 only	6	

[JOB#930~931] MRS = 0000

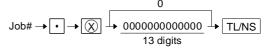
RESET REPORT COUNTER



JOB #	Function
930	Z1 report counter
931	Z2 report counter

[JOB#942, 943, 969] MRS = 000000000000

GT COUNTER PRESETTING

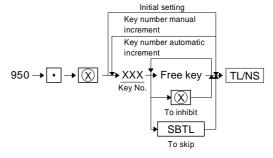


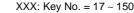
JOB #	Function
942	GT2 (Positive GT)
943	GT3 (Negative GT)
969	TRAINING GT

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.)





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)
10	00 key (Fixed key)
12	Decimal point (Fixed key)
12	CL (Fixed key)
13	
	⊗ (Fixed key)
15	#/TM/ST (Fixed key)
16	TL/NS (Fixed key)
17	CASH2
18	PLU/SUB
19	AMT
20	VP
21	RCPT
22	VOID
23	REFUND
24	%1
25	%2
26	(–)1
27	(–)2
28	VAT
29	AUTO
30	AUTO2
31	AUTO3
32	AUTO4
33	CHECK1
34	CHECK2
35	CHECK3
36	CHECK4
37	CHARGE1
38	CHARGE2
39	EX1
40	EX2
41	EX3
42	EX4
42	RA
43	PO
44	CASHIER NO. (ER-A310 only)
46	DEPT#
101	DEPT.1
102	DEPT.2
103	DEPT.3
104	DEPT.4
105	DEPT.5
106	DEPT.6
107	DEPT.7
108	DEPT.8
109	DEPT.9

Key No.		Key name
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

Fi	xed ł	Kev						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

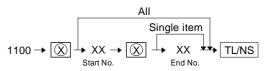
Direct key entry

JOB#	REPORT NAME
TL/NS	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



Than	RECEIPT k you again
31 - 0	8-96
01	0003 0000 1X 18
12 02	1# ?3•45 0003 0000 1X 18
-67 03	10# 8•90 0001 0000 1X 18
04	1 # 0 • 0 0 0 0 0 1 0 0 0 0 1X
10	1 # 0 • 00 0 0 0 1 0 0 0 1 1 8 1 #
	0 • 00 0009 5-04

YOUR RECEIPT Thank you
30-08-96
01 0003 00001X 18
1# 123.45 02 0003 00001X 18
10# -67.89 03 0001 00001% 18
1 # 0 • 00 0 4 0 0 0 1 0 0 0 0 1X
1 # 0.00 10 0001 0000 1X 18 1 # 0.00
000-0016 15 - 07

[JOB#1200]: PLU program report

Key operation



YOUR RECEIPT Thank you Call again	•
31-08-96	
NOO1 01 00000 2	TX
2 123•45 PL002 01 00000	TX
2 -67•89 PLOO3 01 00000	TX
2 0•00 PL004 01	10
00000	TX
0 • 00 PL 0 1 0 0 1 0 0 0 0 0 0 2	XI
0•00 000-0013 15-06	

YOUR RECEIPT

THANK YOU

30-08-96

PLOO1 01

1234.56 PL002 01

00000IX 2

00001X

11 0 0 0 0 U 2

0.00

0000 IX

XI 0 0 0 0 0 2 0.00

 \sim 0.00 PL010 01

000-0014 15-06

PLOO4 01

-78.90 PL003 01

2

[JOB#1300]: Other program report

Key operation

$$1300 \rightarrow (X) \rightarrow TL/NS$$

1300→ [()	x) → [1
-----------	---------

1300→ 🛞 →

1300-	(\mathbf{X})	→	T

ر ا	1	Th	a	nl	<	y	01	- P1 J n_			
	3	1	-	0	8	-	9	6			
				-	0	٠	-	-		⊜1	
			0	•	0 0	•	0 0	0 8		% 1 EX 1 ◀	
	0	0	0	0	0	0	0			► CA CH 1	
	0	0	0	0	0	0	0			CR 1	
9	9	9	0 9 9	9	9	•	0 9	0 9		ch Ch Ch →	
9 9 1	9	9	9	9				9 6	Ħ		
	0	0	0	0	0	0	0	0			
2 3	0	0	0	0	0	0	0	0			
ر 4	0	0	0	0	0	0	0	0			
4	0	0	0	0				0 7 0	#		
		1 2 3 4		1 1 1 1		0 0 0 0	0	U			
	0	0	0	-	0 5	0	1 0	5 7			

YOUR RECEIPT THANK YOU
30 - 08-96
-0.0001 18
-0.00% 1 0.0000001 18- 18-
8► 000000000 18011
00000000
18H2 00000000 18M1
18081 00000000 10000
1802 00000000 9
9 99999.990 9
, 99999.990 → 99
99999.99 2616# 1
00000000 2
2 00000000 3
00000000 4
4 00000000 2617# 0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$
000-0019 15-10

[JOB#2700]: Tax program report

Key operation

YOUR RECEIPT Thank you Call again	
31 - 08-96	
7 . 0 0 0 0	IX 1
3•0000 0•10	
4•0000	IX 2
0•12	TV 7
4•0000	113
0•15	1X 4
2•0000 0•11	
000-0022 15-11	

YOUR RECEIPT THANK YOU 30-08-96 1X **1** 3.0000 0.10 11/2 4.0000 0.12 IX 3 4.0000 0.15 11 4 2.0000 0.11 000-0027 15-16

[JOB#2900]: Auto key program report

Key operation

$2900 \rightarrow \bigcirc \rightarrow$	TL/NS
ER-A310	

T	IR RECEIPT nank you all again_
31	-08-96
01 02 03 05 07 09 10 12 13 15 17 18 20	1 # 02 18 02 11 102
0 0	0-0025 1 15-14

	R RECEIPT ank you
30-0) 8 - 9 6
01 023 0567 09 1123 4567 89 1123 4567 189 20	1 # 02 1 8 02 1 1 1 02 •• •• •• •• •• •• •• •• •• •• •• •• ••
	-0030 1 15-27

[CA/AT]: PGM mode program report

Key operation

→ TL/NS

Tha	RECEIPT nk you again_
31-	08-96
01	0003 0000 IX 18 1#
1 02	23•45 0003 0000 1X 18
-6 03	10# 78•90 0001 0000 1X 18 1#
04	0•00 0001

30 0001 0000 IX 18	
1 # 0 • 0 0	
-0•00 ⊜ 18	1
-0•00 % 0•0000 EX 18 ◀	
18 ► 00000000 M	4
18 (H 00000000 18 (R	
18 CR 00000000 999999•99 CH 999999•99 CH	•
9 999999•99 2616# 1	
00000000 2	
00000000 3	
00000000 4	
00000000 2617# 0	
1 1 00 2 1 00 3 1 00 4 1 00	
X, OOOO	1
3•0000 0•10	r
۲۸: 4 • 0000 0 • 1 2	2
۲X : 4 • 0000	3
0•15 1X4	4
2•0000 0•11	
000-0027 15-15	1

YOUR RECEIPT	50 0001
	XI 0 0 0 0 X
THANK YOU	18
	1#
	0.00
50-08-96	
	- 0 • 0 0 · 0
1 0003	18
	-0.00%
	0 • 0 0 0 EX
1 #	18-
123.45	18•
02 0003	000000
0000 1X	1804
18	00000000
10#	1 8 CH
-67.89	0000000
3 0001	1 8 CR
0 0 0 0 TX	00000000
18	1803
1#	00000000
0.00	9
L 0001	99999•990
	9
	9 9 9 9 9 • 9 9 🕪
	99
	99999.93
	2616#
	1
	000000002
	0000000

50 0001 00001 18 1#
0.00
-0.0091 18
-0.00% 1 0.0000000 X 1 184
18► 0000000000 1801
00000000 18₩2
00000000 1801
00000000 1802
00000000 9
99999.990M 9
99999•99∭→ 99
99999.99 2616#
1 00000000 2
2 00000000 3
00000000 4
00000000 2617# 0
U 1 1 00 2 1 00 3 1 00 4 1 00 5 1 00 6 1 00

1 X 1
3.00 00
0.10
TX 2
4.0000
0.12
IX 3
4.0000
0.15
TX 4
2.0000
0.11
000-0032 1
15-28

[PLU]: PGM mode program report

Key operation



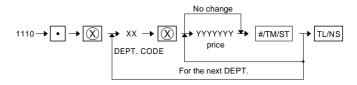
YOUR RECEIPT Thank you Call again	
31-08-96	
PLOO1 01 00000 2	TX
2 123•45 PLOO2 01 00000	TX
2 -67•89 NOO3 01 00000	TX
2 0•00 PL004 01	
0.00 NO10 01 00000 2	IX
0•00 000-0029 15-17	1

YOUR RECEIPT THANK YOU				
30 - 08-96				
PLOO1 01 000001X				
2 1234.56 1002 01 0000011				
2 -78.90 PL003 01 000001X 2				
0.00 PLOO4 01 000001X				
U.UU N.010 01 000001X 2				
0.00 000-0034 1 15-32				

2. Programming by JOB# entry

[JOB#1110]

PROGRAMMING OF DEPT. PRICE



XX: DEPT-CODE = 01 ~ 30/50 max. YYYYYYY: PRICE = 0 ~ 9999999

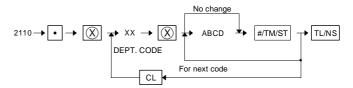
Preset price is max. 7 digits.

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	А
	Non compulsory	0
	Compulsory	1

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

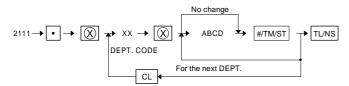
C: Not used (Fixed at "0")

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

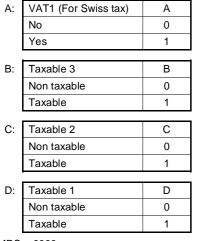
MRS = 0001

[JOB#2111]

DEPT. TAX STATUS AND SIGN PROGRAMMING



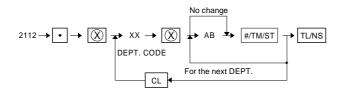
XX: DEPT. CODE = 01 ~ 30/50 max.



MRS = 0000

[JOB#2112]

DEPT. HALO (limit) preset



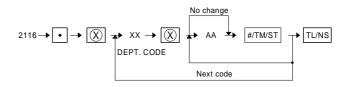
- XX: DEPT. CODE = 01 ~ 30/50 max.
- A: Mantissa (HALO) = 1 ~ 9
- B: Exponent (HALO) = $0 \sim 8$

Items A and B indicate $A \times 10^{B}.$ Any amount below that value is enable within 99999999.

MRS = 18

[JOB#2116]

PROGRAMMING OF DEPT. GROUP



XX: DEPT. code = $01 \sim 30/50$ max.

AA: Group No. = 1 ~ 12

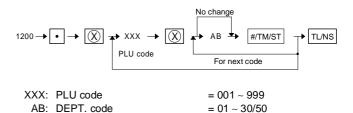
One in No	0
Group No.	Group name
1~9	Plus department
10	Minus department
11	Plus HASH department
12	Minus HASH department

MRS = 01

A selection of the group "Minus" and "Hash" are inhibited when the hash function is programmed as disabled in SRV mode.

[JOB#1200]

Creating/assigning PLUs and the associated departments.

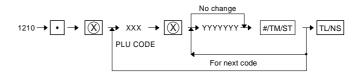


If the record of entered PLU code is not in PLU file at this programming, it will be created in PLU file.

MRS = 01

[JOB#1210]

PRICE PROGRAMMING FOR PLUs



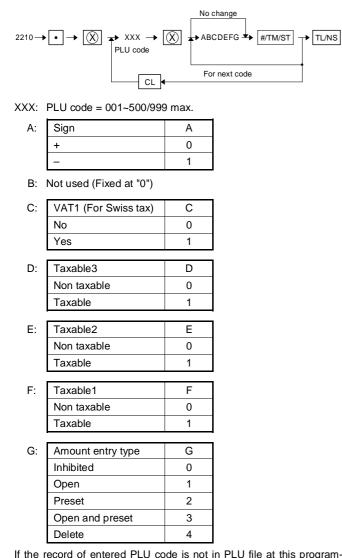
XXX: PLU CODE = 001 ~ 999 YYYYYY: Amount = 0 ~ 9999999

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

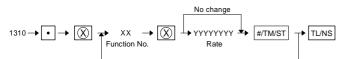


If the record of entered PLU code is not in PLU file at this programming, it will be created in PLU file.

MRS = 0000002

[JOB#1310]

RATE PROGRAMMING



XX: Fanction No. YYYYYYY: Rate

Function No.	Function	Entry range	Remarks	
1	(–)1	0 to 99999.99	(–) unit price	
2	(–)2	0 10 00000.00	() unit price	
3	%1	0 to 100.00	% rate	
4	%2	0.0100.00	70 Tate	
5	Exchange 1			
6	Exchange 2	0 to 9999.9999	Rate	
7	Exchange 3			

MRS = 0

[JOB#2311]

MISC KEY PROGRAMMING 1



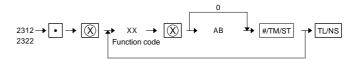
XX: Function No.

	Function No.	Fun	ction	
	3	%1		
	4	%2		
A:	Sign		А	
	+ 0		0	
	- 1		1	

MRS = 100000

[JOB#2312, 2322]

HALO PROGRAMMING



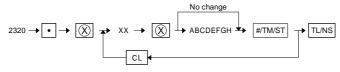
- XX: Function No.
- A: Mantissa (0 to 9)
- B: Exponent (0 to 8)

			·
JOB#	Function No.	Function	Remarks
2312	1	(–)1	
	2	(–)2	
	9	RA	
	10	PO	Item B is specificable within
2322	12	CASH2	the range from 0 to 8.
	13	CH1	
	14	CH2	
	15	CH3	
	16	CH4	
	17	CR1	
	18	CR2	

Entry range, system: $A \times 10^B$ MRS = 18

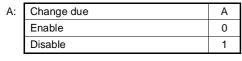
[JOB#2320]

MEDIA KEY PROGRAMMING



XX: Function No.

Function No.	Function
11	CA1
12	CA2
13	CH1
14	CH2
15	CH3
16	CH4
17	CR1
18	CR2



B:	VP	В
	Non compulsory	0
	Compulsory	1

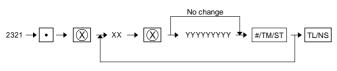
C, D, E, F, G: Not used (Fixed at "00000")

H:	Entry of amount tended	Н
	Non compulsory (Cash, Check) Inhibit (CR)	0
	Compulsory	1

MRS=0000000

[JOB#2321]

MEDIA KEY FUNCTION PROGRAM (AMOUNT HALO)



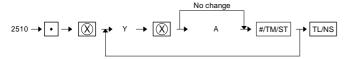
XX: Function No.

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]

CASHIER PROGRAMMING

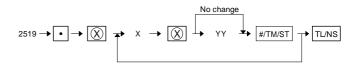


Y: Cashier code = $1 \sim 6$

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

[JOB#2519]

CASHIER PASSWORD DEFINITION



X: Cashier No. = 1~6

YY: Cashier Password = 00~99

MRS = 00 (No password)

[JOB#2610]

DATE SETTING

 $2610 \rightarrow \bullet \rightarrow \fbox{X} \rightarrow XXYYZZ \rightarrow \fbox{TL/NS}$

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]

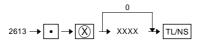
MACHINE NUMBER SETTING



XXX: Machine number (000 ~ 999) MRS = 000

[JOB#2613]

CONSECUTIVE NUMBER SETTING



XXXX: Consecutive number (0000 ~ 9999) MRS = 0000

[JOB#2616]

OPTIONAL FEATURE

2616 –	$\bullet \bullet \bullet \bigotimes \bullet X \to \bigotimes \bullet ABCDEFC$		₩ST → TL/NS
X: 1		MRS = 0	000000
A:	OP X/Z report	А	
	Enable	0	
	Disable	1	
В, С	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	I	
F:	In direct void in REG mode	F	
	Enable	0	
	Disable	1	
G:	Subtotal void in REG mode	G	
0.	Enable	0	
	Disable	1	
H:	Not used (Fixed at "0")		
X: 2		MRS = 0	000000
A:	The first last item void	А	1
	Enable	0	
	Disable	1	
В,	C: Not used (Fixed at "00")		_
D:	Printing of the number of purchases	D	1
	No	0	
	Yes	1	
E:	Time print	E	1
	Yes	0	-
	No	1	
F:	Printing of journal	F	1
г.	Full print	0	-
	Journal select	1	-
	H: Not used (Fixed at "00")	I	1
	 Not used (Fixed at 00) 		000000
X: 3		MRS = 0	
A:	Flash report in OP X/Z mode	A	-
	Yes	0	-
	No	1	J
B:	Not used (Fixed at "00")		

C:	Zero skip in Cashier report	С
	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	Н
	Yes	0
	No	1

X: 4 NOT USED

MRS = 00000000

1

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

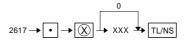
C:	Vat/Tax amount printing on R/J	С
	Yes	0
	No	1
D:	Taxable amount printing on R/J	D
	Yes	0
	No	1
E:	Net amount printing on R/J	E
	Yes	0

F, G, H: Not used (Fixed at "000")

[JOB#2617]

No

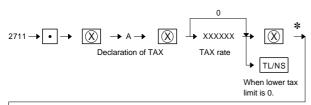
PROGRAMMING OF THE TIME INTERVAL FOR THE TILL TIMER



XXX: 0 ~ 255 sec MRS = 000

[JOB#2711]

TAX RATE PROGRAMMING



0

⊥ xxxxx ★ TL/NS

Lower tax limit for add tax.

A:

DEPRESSION OF THE ST KEY AT FOLLOWING POINTS PER-FORM A TAX TABLE DELETE OPERATION.

Tax programming	Α
Tax1	1
Tax2	2
Tax3	3
Tax4 (For Swiss tax)	4

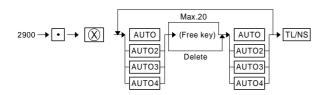
xxxxx: Rate = 0.0000~99.9999% LOWER TAX LIMITATION max. 999.99 (This is invalid in VAT system.)

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 programed.

<Example>

Mode switch: (X2/Z2)

$$2900 \rightarrow \bullet \rightarrow \fbox{AUTO} \rightarrow 1 \rightarrow \texttt{PLU} \rightarrow 100 \rightarrow \texttt{DEPT2} \rightarrow \texttt{AUTO} \rightarrow \texttt{TL}$$

Mode switch: (REG)

Key entry	R/J		Dis	play	Co	mment
AUTO	PLO O	11		1	same as	1 entry
		★ 1.1 0	001	1.1 0	same as	PLU entry
	02	★ 1.0 0		1	same as	1 entry
				1 0	same as	0 entry
				100	same as	0 entry
			0 2	1.0 0	same as	DEPT2 entry

Mode switch: (X2/Z2)

Mode switch: (REG)

Key entry	R/J			Display	Cor	nment	
DEPT1	01	★1.00		0 1	1.00		
AUTO2					1	same as	1 entry
		★1.00	TL		10	same as	0 entry
		★1.000	A		100	same as	0 entry
		★ 1.0 0	CG	С	0.0 0	same as	TL entry

3. Programming by direct key entry

1) PRICE PROGRAMMING for DEPT.



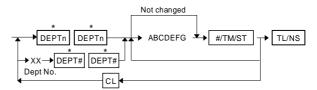
XXXXXXX: UNIT PRICE (Max. 7 digits)

MRS = 0

Note: Current price is displayed.

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

2) FUNCTION PROGRAMMING for DEPT.



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

	_	-
A:	Taxable4 (For Swiss tax)	А
	Non taxable	0
	Taxable	1
B:	Taxable3	В
	Non taxable	0
	Taxable	1
C:	Taxable2	С
	Non taxable	0
	Taxable	1
D:	Taxable1	D
	Non taxable	0
	Taxable	1
E:	SICS Function	Е
	Normal	0
	Single item cash sale	1
F٠	Limitation (Mantissa) – 1~9	

- F: Limitation (Mantissa) = 1~9
- G: Limitation (Exponebt) = 0~8

Note: Current setting is displayed.

MRS = NORMAL, 18 HALO

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



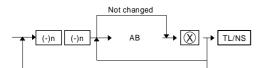
XXXXXXX: UNIT PRICE (Max. 7 digits)

MRS = 0

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

Note: Current price is displayed.

4) FUNCTION PROGRAMMING for (-) KEYS.



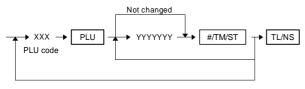
A: Limitation (Mantissa) = 1~9

B: Limitation (Exponebt) = 0~7

MRS = NORMAL, 18 HALO

Note: Current setting is displayed.

5) PLU PRESET PRICE SETTING



XXX: PLU CODE (001 to 999) YYYYYYY: UNIT PRICE (7 digits)

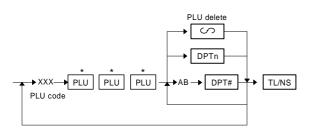
If the record of entered PLU code is not in PLU file at this programming, it will be created in PLU file.

MRS = 0

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

Note: Current price is displayed.

6) PLU ASSOCIATION TO DEPARTMENTS

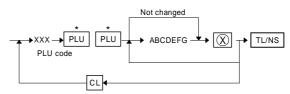


- * When starting setting, press [PLU] key three times. When continuing the same setting, press it once.
- XXX: PLU CODE (001 to 999)
- AB: Dept. code = 1 to 30/50

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	А
	+	0
	-	1

B: Not used (Fixed at "0")

C:	Taxable4 (For Swiss tax)	С
	Non taxable	0
	Taxable	1
D:	Taxable3	D
	Non taxable	0
	Taxable	1
		1
E:	Taxable2	E
	Non taxable	0
	Taxable	1
	-	-
F:	Taxable1	F
	Non taxable	0
	Taxable	1
_		1
G:	Amount entry type	G
	Inhibited	0
	Open	1
	Preset	2
	Open and preset	3
	Delete	4
tho	record of entered PLL code	a is not in

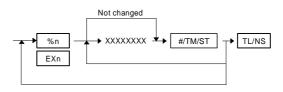
If the record of entered PLU code is not in PLU file at this programming, it will be created in PLU file.

MRS = 0000002

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

Note: Current price is displayed.

8) PROGRAMMING RATE FOR %KEY



XXXXXXXX: 0.01%~100.00% (%n) 0.0001~9999.9999 (EXn)

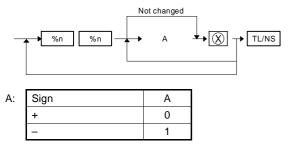
MRS = 0.00%

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

Note: Current price is displayed.

9) PROGRAMMING FOR %KEY

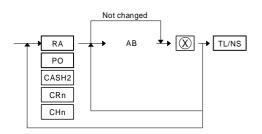
13) TAX RATE PROGRAMMING



MRS = 1

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, CR, CH)

Note: Current price is displayed.

11) DATE, TIME PROGRAMMING



DATE: date entry format follows SRV Programming (6 digits) TIME: 24 hour system (4 digits)

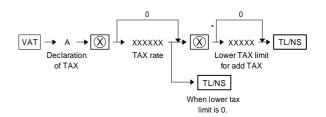
MRS = DATE: 01-01-00 TIME: 00-00

12) CONSECUTIVE NO. PROGRAMMING



CONSECUTIVE NO.

CONSECUTIVE NO .: 0000 to 9999 (4 digits) MRS = 0001



Depression of the [#/TM/ST] key at the following point means a tax delete operation.

A:	TAX 1 PROGRAMMING	= 1
	TAX 2 PROGRAMMING	= 2
	TAX 3 PROGRAMMING	= 3
	TAX 4 (for Swiss Tax)	= 4

% TAX RATE 0.0000 to 99.9999%

LOWER TAX LIMITATION max. 999.99

(This is invalid in VAT system.)

MRS = 0

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)

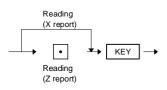
1. Print report

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

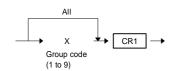
" " can be printed when the corresponding option is added.

REPORT NAME	KEY ENTRY			МС	DDE				
		OP X/Z		X1/Z1		X2/Z2		DATA FOR READING	REMARK
		Х	Z	X1	Z1	X2	Z2		
GENERAL	TL/NS			0	0	0	0		1
DEPT/GROUP	CR1			0		0		GROUP CODE	1, 2
TRANSACTION	CH1			0		0			1
HOURLY	#/TM/ST			0	0				1
DAILY NET	#/TM/ST					0	0		1
PLU (RANGE)	PLU			0	0	0	0	PLU CODE	1, 3
PLU (DEPT)	DPTn			0		0			1, 5
	DPT#			0				DEPT. CODE	
CASHIER (IND)	CSR#	0	0	0	0			(IN CODE ENTRY SYSTEM)	1
CASHIER (IND)	CH2	0	0	0	0			CASHIER CODE (in X1/Z1)	1, 4, 6
CASHIER (ALL)	RA			0	0				1

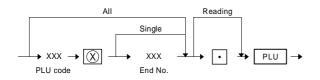
- 1 To read respective reports, it is necessary to follow the procedure below.
- 4 To read respective reports, it is necessary to follow the procedure below.

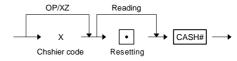


2

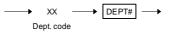


 PLU code range can be specified by entering the start and end numbers according to the following procedure.
 When specifying a single time interval, PLU code, the start number has only to be entered.





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



6 In OP X/Z mode, [CH2] key is available instead of [CSR#] key, in case of

SRV#910: CASHIER SYSTEM = 1 hole key and

SRV#950: [CSR#] key does not exist in the key layout.

2. Flash report

REPORT NAME	KEY ENTRY			MC	DE				
		OP X/Z		X1/Z1		X2/Z2		DATA FOR READING	REMARK
		Х	Z	X1	Z1 3	X2	Z2 3		
					5		5		
NET3	TL/NS	0							
DEPT	DPTn	0							9
	DPT#							DEPT. CODE	
DEPT/GROUP	CR1	0						GROUP CODE	7
HOURLY	#/TM/ST	0						TIME	8
CID	\otimes	0							

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

 \longrightarrow Group No. \rightarrow CR1 \rightarrow

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





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, " $\star \star \star$ ") is printed.

Samples of respective reports are shown on the following pages.