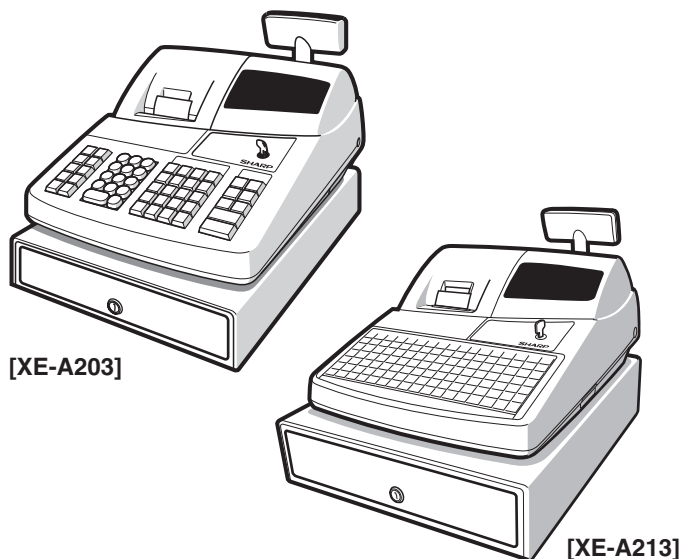


# SHARP PROGRAMMING MANUAL

CODE : 00ZXEA203VPME



LEAD-FREE SOLDER MODEL

## ELECTRONIC CASH REGISTER

# XE-A203 MODEL XE-A213

(For "V" version)

### CONTENTS

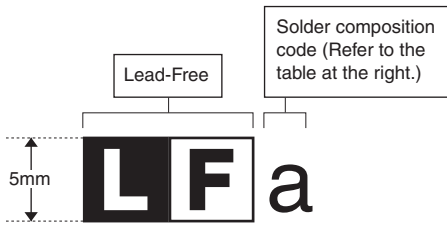
CHAPTER 1. MASTER RESET AND PROGRAM RESET . . . . .	1 - 1
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Parts marked with "△" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

## ■ LEAD-FREE SOLDER

The PWB's of this model employs lead-free solder. The "LF" marks indicated on the PWB's and the Service Manual mean "Lead-Free" solder. The alphabet following the LF mark shows the kind of lead-free solder.

### Example:



<Solder composition code of lead-free solder>

Solder composition	Solder composition code
Sn-Ag-Cu	a
Sn-Ag-Bi Sn-Ag-Bi-Cu	b
Sn-Zn-Bi	z
Sn-In-Ag-Bi	i
Sn-Cu-Ni	n
Sn-Ag-Sb	s
Bi-Sn-Ag-P Bi-Sn-Ag	p

### (1) NOTE FOR THE USE OF LEAD-FREE SOLDER THREAD

When repairing a lead-free solder PWB, use lead-free solder thread. Never use conventional lead solder thread, which may cause a breakdown or an accident.

Since the melting point of lead-free solder thread is about 40°C higher than that of conventional lead solder thread, the use of the exclusive-use soldering iron is recommendable.

### (2) NOTE FOR SOLDERING WORK

Since the melting point of lead-free solder is about 220°C, which is about 40°C higher than that of conventional lead solder, and its soldering capacity is inferior to conventional one, it is apt to keep the soldering iron in contact with the PWB for longer time. This may cause land separation or may exceed the heat-resistive temperature of components. Use enough care to separate the soldering iron from the PWB when completion of soldering is confirmed.

Since lead-free solder includes a greater quantity of tin, the iron tip may corrode easily. Turn ON/OFF the soldering iron power frequently.

If different-kind solder remains on the soldering iron tip, it is melted together with lead-free solder. To avoid this, clean the soldering iron tip after completion of soldering work.

If the soldering iron tip is discolored black during soldering work, clean and file the tip with steel wool or a fine filer.

# CHAPTER 1. MASTER RESET AND PROGRAM RESET

## 1. MASTER RESETTING

Master resetting clears the entire memory and resumes initial values.

Master resetting can be accomplished by using the following procedure:

Procedure :

- 1) Unplug the AC cord from the wall outlet, or set the mode switch to OFF position.
- 2) Let the ECR be without the memory backup battery.
- 3) Wait over 1 minute for discharging.
- 4) Set the mode switch to any position except OFF.
- 5) Plug in the AC cord to the wall outlet, or turn the mode switch from OFF position to another position.
- 6) Insert batteries before carrying out operation after master resetting.

The master reset can also be accomplished in the following case.

In case power failure occurs when the machine has no battery attached to it, the master reset operation is automatically performed after the power has been restored.

(This is because if power failure occurs with no battery attached to the machine, all the memories are lost and the machine does not work properly after power recovery; this requires the master reset operation.)

## 2. PROGRAM RESETTING (INITIALIZATION)

This resetting resumes the initial program without clearing memory.

This resetting can be operated at below sequence in PGM mode.

Procedure:

- 1) Unplug the AC cord from the wall outlet.
- 2) Wait over 1 minute for discharging.
- 3) Set the mode switch to the PGM position.
- 4) While holding down the FEED key, plug in the AC cord to the wall outlet.

Note: In case power failure occurs when the machine has no battery attached to it, the master reset operation is automatically performed after the power has been restored.

# CHAPTER 2. PROGRAM MODE

## 1. READING STOROGRAMS

The machine allows you to read every program stored in the PGM mode.

### ■ Key sequence for reading stored program

Report name	Key sequence
Programming report 1	(TL/NS)
Programming report 2	2 → (TL/NS)
[AUTO] key programming report	1 → (TL/NS)
Printer density programming report	3 → (TL/NS)
Department programming report	4 → (TL/NS)
PLU programming report (*1)	Start PLU code → (⊗) → End PLU code → (PLU/SUB)

(\*1) : 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.

### ■ SAMPLE PRINTOUTS

#### 1. Programming report 1 (For example XE-A213V)

HEADER	
05/02/2006 123456#123456	DATE/MACHINE NO./CC-NO.
12:34PM 01 M.KLERK	TIME/CLERK NO./CLERK NAME
<b>*PGM*</b>	MODE TITLE
<b>F01 (-) xxxxxx 007</b>	FUNCTION NO./TEXT/PROGRAM (*1)
-1000.00	AMOUNT WITH SIGN
<b>F02 % xxxxxxxxxx 000</b>	FUNCTION NO./TEXT /PROGRAM (*1)
L100.00%	HALO WITHOUT SIGN/RATE WITH SIGN
<b>F04 DIFFERxxxxxx</b>	FUNCTION NO. /TEXT
<b>F05 TAX1 STxxxxx</b>	FUNCTION NO. /TEXT
:	
:	
:	
<b>F31 ***RAxxxxxxx 9</b>	FUNCTION NO. /TEXT/HALO
<b>F32 ***POxxxxxxx 9</b>	FUNCTION NO. /TEXT/HALO
<b>F33 CASH xxxx 008</b>	FUNCTION NO. /TEXT/PROGRAM (*2)
<b>F34 CHECK1xxxxxx 008</b>	FUNCTION NO. /TEXT/PROGRAM (*2)
<b>F35 CHECK2xxxxxx 008</b>	FUNCTION NO. /TEXT/PROGRAM (*2)
<b>F36 CREDIT1xxxxx 008</b>	FUNCTION NO. /TEXT/PROGRAM (*3)
<b>F37 CREDIT2xxxxx 008</b>	FUNCTION NO. /TEXT/PROGRAM (*3)
<b>F38 EXCH1xxxxxxx 002</b>	FUNCTION NO. /TEXT/PROGRAM (*3)
ABCD 999.999999	CURRENCY SYMBOL/RATE
<b>F39 EXCH2xxxxxxx</b>	FUNCTION NO. /TEXT
<b>F40 EX1 CHKxxxxx</b>	FUNCTION NO. /TEXT
:	
:	

The printing of "reserved" is skipppd.

<b>F78 BILL</b>	FUNCTION NO. /TEXT
<b>F79 EJ</b>	FUNCTION NO. /TEXT
<b>F80 EJ END</b>	FUNCTION NO. /TEXT
<b>SHARP</b>	LOGO TEXT
<b>PRESENTS THE</b>	LOGO TEXT
<b>BEST ECR</b>	LOGO TEXT
<b>SHARP</b>	LOGO TEXT
<b>IS</b>	LOGO TEXT
<b>THE BEST</b>	LOGO TEXT
#5 <b>00000000</b>	(JOB#5) FUNCTION SELECT
#6 <b>00000000</b>	(JOB#6) PRINT FUNCTION
#7 <b>00000000</b>	(JOB#7) RECEIPT PRINT FORMAT
#8 <b>0000</b>	(JOB#8) EURO FUNCTIONS
#10 <b>00000</b>	(JOB#10) POWER SAVING PROGRAMMING
#11 <b>0</b>	(JOB#11) LOGO FORMAT
#12 <b>00</b>	(JOB#12) EURO PROGRAMMING
#13 <b>00/00/0000</b>	(JOB#13) EURO CHANGING DATE (Printed by Date format)
#14 <b>00:00</b>	(JOB#14) EURO CHANGING HOUR
#15 <b>00000000</b>	(JOB#15) FUNCTION SELECT2
#35 <b>0007</b>	(JOB#35) USB Timeout time
<b>T1 10.0000%</b>	TAX1 RATE
<b>TAX1 STxxxxx 123.45</b>	TEXT/ LOWER TAX LIMI
<b>T2 4.0000%</b>	TAX2 RATE
<b>TAX2 STxxxxx 0.10</b>	TEXT/ LOWER TAX LIMIT
<b>T3 -5.0000%</b>	TAX3 RATE
<b>TAX3 STxxxxx 0.20</b>	TEXT/ LOWER TAX LIMIT
<b>T4 -----</b>	TAX4 ("-----":INHIBIT)
<b>C #01 M.KLERK</b>	Clerk No./Clerk name
<b>C #02 CLERK02xxxxx</b>	Clerk No./Clerk name
:	
<b>C #25 CLERK25xxxxx</b>	Clerk No./Clerk name

VARIOUS PROGRAM  
Refer to the programming section about the data of each JOB.

(\*1) : (-) /% PROGRAM

A:	ENTRY FOR ITEM	A
	ENABLE	0
	DISABLE	1
B:	ENTRY FOR SBTL	B
	ENABLE	0
	DISABLE	1

C: LIMITATION DIGITS (for (-) key)  
(0 FIXED for [%n]) = 0 to 7

(\*2) : MEDIA PROGRAM

A:	Footer print on Receipt	A
	No	0
	Yes	1
B:	Entry of amount tenderd	B
	noncompulsory (Cash, check)/inhibit (Credit)	0
	compulsory	1

C: LIMITATION DIGITS (for (-) key)  
LIMITATION DIGITS (0=INHIBIT) = 0 to 8

(\*3) : EXCH PROGRAM

A:	OPEN RATE ENTRY	A
	ENABLE	0
	DISABLE	1
B:	PRESET RATE ENTRY	B
	ENABLE	0
	DISABLE	1
C:	TAB	C
	0	0
	0.0	1
	0.00	2
	0.000	3

2. Programmed data2 report

HEADER	
05/02/2006 123456#123456	DATE/MACHINE NO./CC-NO.
12:34PM 01 M.KLERK	TIME/CLERK NO/CLERK NAME
<b>*PGM*</b>	MODE TITLE
#61 00000000	(JOB#61) OTHERS1
#62 00000000	(JOB#62) OTHERS2
#63 00000000	(JOB#63) OTHERS3
#64 00000000	(JOB#64) OTHERS4
#65 00000000	(JOB#65) OTHERS5
#66 00000000	(JOB#66) OTHERS6
#67 00000000	(JOB#67) OTHERS7
#68 00000000	(JOB#68) OTHERS8
#69 00000000	(JOB#69) OTHERS9
#70 00000000	(JOB#70) OTHERS10
#71	
GT2 \$0000000000.00	GT2
#72	
GT3 \$0000000000.00	GT3
#76 Z1 0000	GENERAL Z1 RESET COUNTER
#77 Z2 0000	GENERAL Z2 RESET COUNTER
#85 *	DOMESTIC CURRENCY SYMBOL
#86 00	TRAINING CLERK
#87 **TRAINING**	TRAINING MODE TEXT
#88 0	LANGUAGE MODE
#90 0	(For the fixed messages) EJ/PLU MEMORY TYPE (0: TYPE, 1: TYPE2)

OTHERS PROGRAM  
Refer to the programming section about the data of each JOB.

3. [AUTO] key reading

HEADER	
05/02/2006 123456#123456	DATE/MACHINE NO./CC-NO.
12:34PM 01 M.KLERK	TIME/CLERK NO/CLERK NAME
<b>#01</b>	KEY TEXT
	1
	0
	0
	0
	TL
-----	DELETE (NO KEY)

4. Printer density report

HEADER	
05/02/2006 123456#123456	DATE/MACHINE NO./CC-NO.
12:34PM 01 M.KLERK	TIME/CLERK NO/CLERK NAME
<b>*PGM*</b>	MODE TITLE
#50	50 Thermal printer density Printing Sample (Light&Shade value between 10 to 90.)
10 :	0123456789AB
20 :	0123456789AB
30 :	0123456789AB
40 :	0123456789AB
50 :	0123456789AB
60 :	0123456789AB
70 :	0123456789AB
80 :	0123456789AB
90 :	0123456789AB

5. DEPT data report

HEADER	
05/02/2006 123456#123456	DATE/MACHINE NO./CC-NO.
12:34PM 01 M.KLERK	TIME/CLERK NO/CLERK NAME
<b>*PGM*</b>	MODE TITLE
D01 T1234 073	DEPT CODE /TAXABLE / PROGRAM (*1)
DPT.01xxxxxx -1234.56	TEXT /PRICE WITH SIGN
D02 T1234 073	
DPT.02 -1234.56	
:	
:	
D99 T1234 071	(MAX department is decided by PGM selection.)
DPT.99 0.00	

(\*1) DEPT PROGRAM : ABC

A:	REGISTRATION TYPE	A
	NORMAL	0
	SICS	1
B:	LIMITATION DIGITS = 0 to 7	
C:	AMOUNT ENTRY TYPE	C
	Inhibited	0
	Open	1
	Preset	2
	Open and Preset	3

6. PLU data report

HEADER	
05/02/2006 123456#123456	DATE/MACHINE NO./CC-NO.
12:34PM 01 M.KLERK	TIME/CLERK NO/CLERK NAME
<b>*PGM*</b>	MODE TITLE
	0001-1200
P0001 (O1)	1
PLU0001xxxxx -1234.56	START CODE/END CODE (RANGE DATA)
:	PLU CODE/ Associated DEPT code/Type (*1)
:	TEXT /PRICE WITH SIGN
:	NOTE) The deleted PLU is not printed.
P001	-----
	When PLU is deleted at the programming JOB.

(\*1) PROGRAM : Y

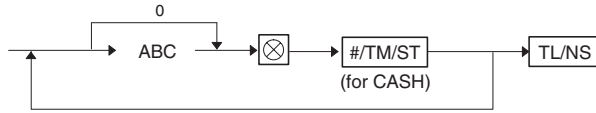
Y:	PROGRAM	Y
	SUBDEPT	0
	PLU	1

## 2. USER PROGRAMMING

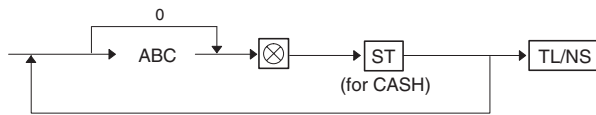
### 1) PROGRAMMING FOR MEDIA KEYS

(#/TM/ST) (XE-A203V) or [ST] (XE-A213V) key is used for programming of CASH.)

XE-A203V:



XE-A213V:



A:	Footer print on Receipt	A	★
	No	0	
	Yes	1	
B:	Entry of amount tenderd	B	★
	Non-compulsory	0	
	Compulsory	1	

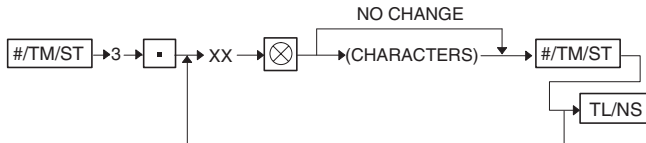
C: LIMITATION DIGITS (0 = INHIBIT)

= 0 to 8

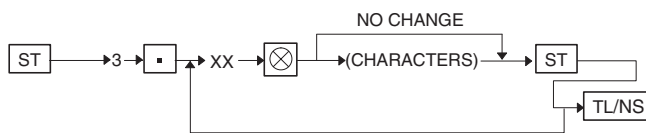
MRS = 008

### 2) PROGRAMMING OF FUNCTION TEXT

XE-A203V:



XE-A213V:



XX: FUNCTION CODE

(CHARACTERS): CHARACTER (Max. 12 Characters)

Characters can be entered by using the character layout on keyboard or using numeric keys on keyboard.

THE KEY ENTRY SEQUENCE FOR ENTERING ONE CHARACTER BY NUMERIC KEYS IS AS FOLLOWS:

YYY → [00] KEY

YYY: CHARACTER CODE (3 DIGITS)

(or [000] KEY ACCORDING TO PGM PRESET)

MRS = Refer to the following table

### ■ FUNCTION LIST (only for A213V)

F-NO.	FUNCTION	DEFAULT TEXT 123456789012
1	(-)	<b>(-)</b>
2	%1	<b>%1</b>
3	Reserved	
4	DIFFER	DIFFER
5	TAXABLE1 ST	TAX1 ST
6	TAXABLE2 ST	TAX2 ST
7	TAXABLE3 ST	TAX3 ST
8	TAXABLE4 ST	TAX4 ST
9	VAT/TAX 1	VAT 1
10	VAT/TAX 2	VAT 2
11	VAT/TAX 3	VAT 3
12	VAT/TAX 4	VAT 4
13	NET1	<b>NET1</b>
14	VAT SHIFT	VAT SFT
15	VAT/TAX DELETE	TAX DELE
16	NET2	<b>NET2</b>
17	REFUND	REFUND
18	VOID	∞
19	VOID MODE	∞ MODE
20	MANAGER VOID	MGR ∞
21	SBTL VOID	SBTL ∞
22	BILL COUNTER	BILL CNT
23	NO SALE	NO SALE
24	PBAL	***PBAL
25	NBAL	***NBAL
26	CUSTOMER (TRANS.COUNT)	GUEST
27	ORDER TOTAL	ORDER TL
28	PAID TOTAL	PAID TL
29	AVERAGE	AVE.
30	ORDER TL ? PAID TL	<b>O - P</b>
31	RA	***RA
32	PO	***PO
33	CASH	<b>CASH</b>
34	CHECK1	CHECK1
35	CHECK2	CHECK2
36	CREDIT1	CREDIT1
37	CREDIT2	CREDIT2
38	EXCHANGE (PRESET RATE)	EXCH1
39	EXCHANGE (OPEN RATE)	EXCH2
40	EXCHANGE1 CHECK	EX1 CHK
41	EXCHANGE1 CREDIT TOTAL	EX1 CR
42	CASH IN DRAWER	****CID
43	CASH/CHECK IN DRAWER	CA/CH ID
44	CHECK CHANGE	CHK/CG
45	DOMESTIC CURRENCY1	DOM. CUR1
46	DOMESTIC CURRENCY2	DOM. CUR2
47	DOMESTIC CURRENCY FOR EX1 CHECK	DOM. CUR1
48	DOMESTIC CURRENCY FOR EX1 CREDIT	DOM. CUR1
49	CHECK IN DRAWER	*CH ID
50	(+) DEPT TOTAL	*DEPT TL
51	(-) DEPT TOTAL	DEPT(-)
52	NET 1 (TAXABLE1 -VAT1)	NET 1

F-NO.	FUNCTION	DEFAULT TEXT 123456789012
53	NET 2 (TAXABLE2 -VAT2)	NET 2
54	NET 3 (TAXABLE3 -VAT3)	NET 3
55	NET 4 (TAXABLE4 -VAT4)	NET 4
56	SUBTOTAL	SUBTOTAL
57	MDS SBTL	MDSE ST
58	TOTAL	***TOTAL
59	CHANGE	CHANGE
60	ITEMS	ITEMS
61	DUE (on DISPLAY)	DUE
62	EXCHANGE1 CHANGE (on DISPLAY)	EX1 CHG
63	AMOUNT (for AMOUNT ENTRY DISPLAY)	AMOUNT
64	TOTAL TAX (on Report)	TTL TAX
65	OLD BALANCE	OLD BAL.
66	NEW BALANCE	BALANCE
67	NET WITHOUT TAX (on Report)	<b>NET</b>
68	DEPT. REPO. TITLE	<b>DEPT</b>
69	PLU REPO. TITLE	<b>PLU</b>
70	TRANS. REPO. TITLE	<b>TRANS.</b>
71	CLERK REPO. TITLE	<b>CLERK</b>
72	HOURLY REPO. TITLE	<b>HOURLY</b>
73	GLU REPO. TITLE	<b>GLU</b>
74	GLU CODE TEXT	GLU#
75	BALANCE REPO. TITLE	BALANCE
76	NON ADD CODE TEXT (8chara)	#
77	COPY RECEIPT TITLE	<b>COPY</b>
78	G.C. RCPT TITLE	<b>BILL</b>
79	EJ REPORT TITLE	<b>EJ</b>
80	EJ REPORT END TITLE	<b>EJ END</b>

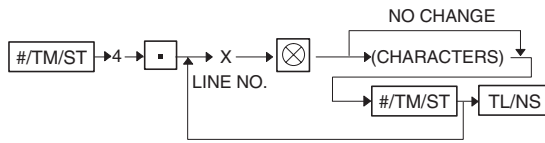
■ **FUNCTION LIST (only for A203V)**

F-NO.	FUNCTION	DEFAULT TEXT 123456789012
1	(-)	<b>(-)</b>
2	%1	<b>%1</b>
3	%2	<b>%2</b>
4	DIFFER	DIFFER
5	TAXABLE1 ST	TAX1 ST
6	TAXABLE2 ST	TAX2 ST
7	TAXABLE3 ST	TAX3 ST
8	TAXABLE4 ST	TAX4 ST
9	VAT/TAX 1	VAT 1
10	VAT/TAX 2	VAT 2
11	VAT/TAX 3	VAT 3
12	VAT/TAX 4	VAT 4
13	NET1	<b>NET1</b>
14	Reserved	
15	Reserved	
16	NET2	<b>NET2</b>
17	REFUND	REFUND
18	VOID	∞
19	VOID MODE	∞ MODE
20	MANAGER VOID	MGR ∞
21	SBTL VOID	SBTL ∞
22	BILL COUNTER	BILL CNT
23	NO SALE	NO SALE
24	Reserved	

F-NO.	FUNCTION	DEFAULT TEXT 123456789012
25	Reserved	
26	CUSTOMER (TRANS. COUNT)	GUEST
27	Reserved	
28	PAID TOTAL	PAID TL
29	AVERAGE	AVE.
30	Reserved	
31	RA	***RA
32	PO	***PO
33	CASH	<b>CASH</b>
34	CHECK1	CHECK1
35	CHECK2	CHECK2
36	CREDIT1	CREDIT1
37	CREDIT2	CREDIT2
38	EXCHANGE (PRESET RATE)	EXCH1
39	EXCHANGE (OPEN RATE)	EXCH2
40	EXCHANGE1 CHECK	EX1 CHK
41	EXCHANGE1 CREDIT TOTAL	EX1 CR
42	CASH IN DRAWER	****CID
43	CASH/CHECK IN DRAWER	CA/CH ID
44	CHECK CHANGE	CHK/CG
45	DOMESTIC CURRENCY1	DOM. CUR1
46	DOMESTIC CURRENCY2	DOM. CUR2
47	DOMESTIC CURRENCY FOR EX1 CHECK	DOM. CUR1
48	DOMESTIC CURRENCY FOR EX1 CREDIT	DOM. CUR1
49	CHECK IN DRAWER	*CH ID
50	(+) DEPT TOTAL	*DEPT TL
51	(-) DEPT TOTAL	DEPT (-)
52	NET 1 (TAXABLE1-VAT1)	NET 1
53	NET 2 (TAXABLE2-VAT2)	NET 2
54	NET 3 (TAXABLE3-VAT3)	NET 3
55	NET 4 (TAXABLE4-VAT4)	NET 4
56	SUBTOTAL	SUBTOTAL
57	MDS SBTL	MDSE ST
58	TOTAL	***TOTAL
59	CHANGE	CHANGE
60	ITEMS	ITEMS
61	DUE (on DISPLAY)	DUE
62	EXCHANGE1 CHANGE (on DISPLAY)	EX1 CHG
63	AMOUNT (for AMOUNT ENTRY DISPLAY)	AMOUNT
64	TOTAL TAX (on Report)	TTL TAX
65	Reserved	
66	Reserved	
67	NET WITHOUT TAX (on Report)	<b>NET</b>
68	DEPT. REPO. TITLE	<b>DEPT</b>
69	PLU REPO. TITLE	<b>PLU</b>
70	TRANS. REPO. TITLE	<b>TRANS.</b>
71	CLERK REPO. TITLE	<b>CLERK</b>
72	HOURLY REPO. TITLE	<b>HOURLY</b>
73	Reserved	
74	Reserved	
75	Reserved	
76	NON ADD CODE TEXT (8chara)	#
77	COPY RECEIPT TITLE	<b>COPY</b>
78	Reserved	
79	EJ REPORT TITLE	<b>EJ</b>
80	EJ REPORT END TITLE	<b>EJ END</b>

### 3) PROGRAMMING OF LOGO TEXT

XE-A203V:



XE-A213V:



X: LINE NO. (1-6)

(CHARACTERS): CHARACTER (Max. 24 Characters)

Characters can be entered by using the character layout on keyboard or using numeric keys on keyboard.  
THE KEY ENTRY SEQUENCE FOR ENTERING ONE CHARACTER BY NUMERIC KEYS IS AS FOLLOWS:

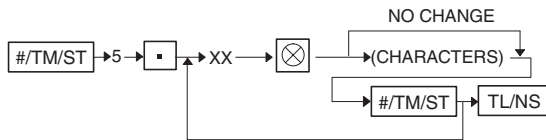
YYY → [00] KEY  
 YYY : CHARACTER CODE (3 DIGITS)  
 ( or [000] KEY ACCORDING TO PGM PRESET)

(Sample)

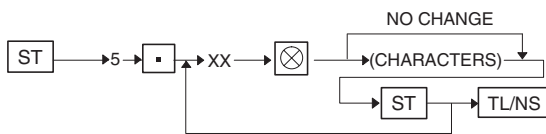
123456789012345678901234  
 MRS = **SHARP**  
 PRESENTS THE  
**BEST ECR**  
**SHARP**  
 IS  
**THE BEST**

### 4) PROGRAMMING OF CLERK NAME

XE-A203V:



XE-A213V:



XX: CLERK NO. (1-25)

(CHARACTERS): CHARACTER (Max. 12 Characters)

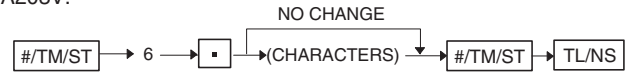
Characters can be entered by using the character layout on keyboard or using numeric keys on keyboard.  
THE KEY ENTRY SEQUENCE FOR ENTERING ONE CHARACTER BY NUMERIC KEYS IS AS FOLLOWS:.

YYY → [00] KEY  
 YYY : CHARACTER CODE (3 DIGITS)  
 ( or [000] KEY ACCORDING TO PGM PRESET)

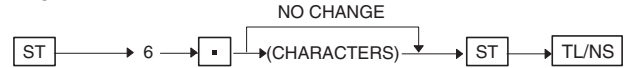
MRS = CLERKxx (xx:clerk no.)

### 5) FOREIGN CURRENCY SYMBOL PROGRAMMING

XE-A203V:



XE-A213V:



(CHARACTERS): CHARACTER (Max. 4 Characters)

Characters can be entered by using the character layout on keyboard or using numeric keys on keyboard.  
THE KEY ENTRY SEQUENCE FOR ENTERING ONE CHARACTER BY NUMERIC KEYS IS AS FOLLOWS:

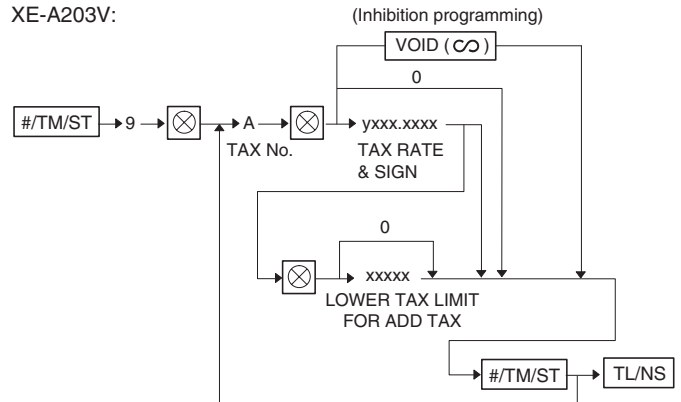
YYY → [00] KEY  
 YYY : CHARACTER CODE (3 DIGITS)  
 ( or [000] KEY ACCORDING TO PGM PRESET)

MRS = \_\_\_\_ (.: space code)

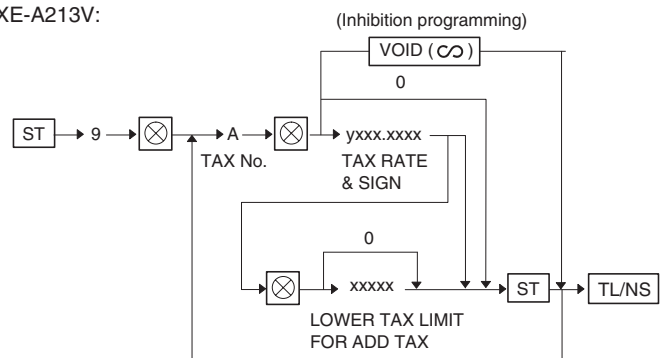
Note: This symbol is printed as the amount of EXCHANGE for PRESET RATE only.  
 The amount symbol of EXCHANGE for OPEN RATE is not printed.

### 6) TAX RATE PROGRAMMING

XE-A203V:



XE-A213V:



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

Y: SIGN	Y
+	0
-	1

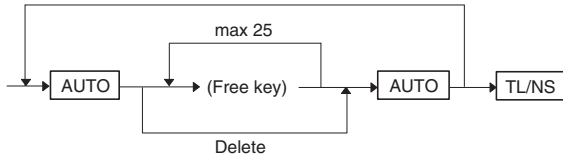
XXX.XXX: RATE = 0.0000 to 100.0000 %

LOWER TAX LIMITATION 0.00 to 999.99  
 (This is invalid in VAT system.)

MRS = DELETE



## 7) [AUTO] KEY PROGRAMMING



It must be pushed same [AUTO] key as the programming [AUTO] key at the end of any key entry.

Note: [ESC] key cannot be set at [AUTO] key programming.  
It acts as a key of ERROR ESCAPE function in this programming.

### < [AUTO] key function >

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

Executing mode : REG, MGR, OPXZ, X1/Z1, X2/Z2

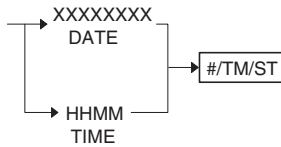
Setting mode : PGM

## 8) EURO STATUS FUNCTION

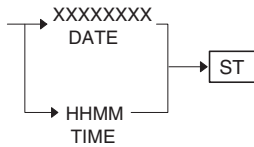
The ECR has a EURO STATUS in the preset memory.  
It is changed by EURO CHANGING JOB and confirmed by EURO STATUS READING JOB at Z2 mode. Refer XZ report section.

## 9) DATE/TIME PROGRAMMING

XE-A203V:



XE-A213V:



DATE) XXXXXXXX: YYYYMMDD or DDMMYYYY or MMDDYYYY  
(YYYY: 2000-2099)  
(MM: 01-12)  
(DD: 01-31)

The date entry format complies with PGM-mode.

TIME) HH: Hour (00 to 23)  
MM: Minute (00 to 59)

MRS = DATE: 01012000 (DD/MM/YYYY)  
TIME: 0000

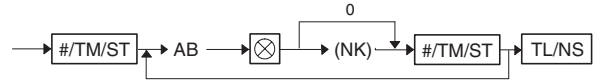
## 10) VARIOUS PROGRAMMING

There are programmed by depressing [# / TM / ST] (XE-A203V) or [# / ST] (XE-A213V) key after a data that want to set.

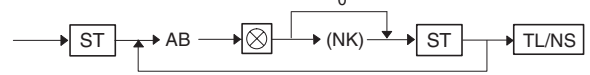
And it is operated continuously until depressing the [TL/NS] key.

(Programming Sequence)

XE-A203V:



XE-A213V:



AB : JOB No.  
NK : PROGRAMMING DATA. (Numeric Keys)

### [JOB#1] MACHINE No. (6digits) -- XXXXXX --

MRS = 000000

### [JOB#2] CONSECUTIVE No. (6digits) -- XXXXXX --

MRS = 0000

### [JOB#5] FUNCTION SELECT -- ABCDEFGH --

MRS = 00000001

A: PO in REG mode	A	
ENABLE	0	★
DISABLE	1	
B: RA in REG mode	B	
ENABLE	0	★
DISABLE	1	
C: SUBTOTAL VOID in REG mode	C	
ENABLE	0	★
DISABLE	1	
D: INDIRECT VOID in REG mode	D	
ENABLE	0	★
DISABLE	1	
E: DIRECT VOID in REG mode	E	
ENABLE	0	★
DISABLE	1	
F: REFUND in REG mode	F	
ENABLE	0	★
DISABLE	1	
G: NO SALE in REG mode	G	
ENABLE	0	★
DISABLE	1	
H: FRACTIONAL QUANTITY	H	
YES (3digits decimal place)	0	★
NO	1	

**[JOB#6] PRINT FORMAT -- ABCDEFGH --**

MRS = 11000111

A:	PRINTER FORMAT	A	
	JOURNAL	0	
	RECEIPT	1	★

Note: Case of RECEIPT, ECR is controled the Journal Rewind Motor as below.

REG/MGR/VOID mode : Journal Rewind Motor is not driven.  
 PGM/OPXZ/XZ mode : Journal Rewind Motor is driven for rewinding reports anytime.

B:	CONTENTS OF RECEIPT	B	
	TOTAL	0	
	DETAIL	1	★

C:	TIME PRINTING (for all receipt)	C	
	PRINT	0	★
	NOT PRINT	1	

D:	DATE PRINTING (for all receipt)	D	
	PRINT	0	★
	NOT PRINT	1	

E:	CONSECUTIVE NO. PRINTING	E	
	PRINT	0	★
	NOT PRINT	1	

F:	SEPARATER LINE IN XZ REPORT	F	
	1 LINE FEED	0	
	SEPARATOR LINE	1	★

G:	ZERO SKIP IN PLU REPORT	G	
	NOT SKIP	0	
	SKIP	1	★

H:	ZERO SKIP IN GENERAL,CLERK,HOURLY	H	
	NOT SKIP	0	
	SKIP	1	★

**[JOB#7] RECEIPT PRINT FORMAT -- ABCDEFGH --**

MRS = 00000000

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

C:	SUBTOTAL PRINT AT [ST] - KEY	C	
	NOT PRINT	0	★
	PRINT	1	

D: Not used (Fixed at "0")

E:	VAT/TAX AMOUNT PRINTING	E	
	PRINT	0	★
	NOT PRINT	1	

F:	TAXABLE AMOUNT PRINTING	F	
	PRINT	0	★
	NOT PRINT	1	

G:	NET AMOUNT PRINTING	G	
	PRINT	0	★
	NOT PRINT	1	

H:	PURCHASE NO. PRINTING	H	
	PRINT	0	★
	NOT PRINT	1	

**[JOB#8] EURO FUNCTIONS -- ABCD --**

MRS = 0000

A:	Printing of EX amount for Total and Change	A	
	No	0	★
	Yes	1	

B: Not used (Fixed at "0")

C:	CHECK,CREDIT operation for EX1	C	
	No	0	★
	Yes	1	

D:	EXCHANGE Calculation method	D	
	Multiplication	0	★
	Division	1	

**[JOB#10] POWER SAVING -- YXXX --**

MRS = 0030

Y:	POWER SAVING function when a time is displayed	Y	
	Yes (Enable)	0	★
	No (Disable)	1	

XXX: POWER SAVING TIME to POWER OFF  
 = 001--254 (minutes)  
 or 999 (Inhibit)

**[JOB#11] LOGO PRINTING -- A --**

MRS = 5

A:	LOGO MESSAGE CONTROL	A	
	3-LINE HEADER INSTEAD OF GRAPHIC LOGO	0	
	GRAPHIC LOGO ONLY	1	
	GRAPHIC LOGO AND 3-LINE FOOTER	2	
	6-LINE HEADER	3	
	GRAPHIC LOGO AND 3-LINE HEADER	4	
	3-LINE HEADER AND 3-LINE FOOTER	5	★

**[JOB#12] EURO Programming -- AB --**

MRS = 00

A:	Automatic converting the unit price at EURO	A	
	YES	0	★
	NO	1	

B:	The EURO CHANGING JOB at the date of exchanging the currency between LOCAL and EURO.	B	
	Compulsory	0	★
	Non-compulsory	1	

**[JOB#13] THE DATE OF EXCHANGING THE CURRENCY BETWEEN LOCAL AND EURO -- XXXXXXXX --**

MRS = 00000000 (DD/MM/YYYY)

DATE) XXXXXXXX :YYYYMMDD or DDMMYYYY or MMDDYYYY  
 [YYYY:2000-2099]  
 [MM:01-12]  
 [DD:01-31]  
 00000000 = Function Inhibit.

The date entry format complies with the applicable PGM-mode programming.  
 In case of date setting is 0, EURO date function is not work.

**[JOB#14] THE TIME (HOUR ONLY) OF EXCHANGING THE CURRENCY BETWEEN LOCAL AND EURO -- XX --**

MRS = 00  
 XX : Hour (00-23)

**[JOB#15] (Only for A213V)**

FUNCTION SELECT2 -- ABCDEFGH --

MRS = 00011010

A:

PLU SHIFT LEVEL reset	A	
AUTO	0	★
MANUAL	1	

B:

PLU LEVEL SHIFT	B	
REG & MGR	0	★
MGR only	1	

C:

PLU SHIFT LEVEL AUTO reset timing	C	
1 item	0	★
1 receipt	1	

(This setting is available in case "PLU SHIFT LEVEL reset = AUTO")

D:

Checking of CLERK# on guest check when a reorder is made	D	
Yes	0	
No	1	★

E:

Printing of PB/NBAL on G.C.RCPT	E	
Yes	0	
No	1	★

F:

Clear details in GLU buffer at NBAL	F	
No	0	★
Yes	1	

G:

Clear details in GLU buffer at BILL (G.C.RCPT) print	G	
No	0	
Yes	1	★

H: Not used (Fixed at "0")

**[JOB#35] USB Communication TIME OUT -- XXX --**

MRS = 007  
 XXX: Time out time (1 - 255 sec)

**[JOB#50] THERMAL PRINTER DENSITY CONTROL -- XX --**

MRS = 50  
 XX: density (00-99)  
 00 : 70 % for standard  
 50 : 100 % (Standard density)  
 99 : 130 % for standard

**[JOB#61] OTHERS1 PROGRAMMING -- ABCDEFGH --**

MRS = 00100112

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

C:

Programming of MINUS dept/PLU	C	
Disable	0	
Enable	1	★

D:

Fractional treatment	D	
Round off (4-DOWN, 5-UP)	0	★
Raising to unit	1	
Disregarding	2	

E:

00 key or 000 key selection for 00 key position	E	
00 key	0	★
000 key	1	

F:

Time format	F	
12hour	0	
24hour	1	★

G:

Date format	G	
M-D-Y	0	
D-M-Y	1	★
Y-M-D	2	

H:

TAB	H	
0	0	
1	1	
2	2	★
3	3	

**[JOB#62] OTHERS2 PROGRAMMING -- ABCDEFGH --**

MRS = 01000000

A: Not used (Fixed at "0")

B:

ERROR BEEP for missoperation	B	
LOCK ERROR	0	
MISSOPERATION	1	★

C:

Key catch sound	C	
Yes	0	★
No	1	

D:

Buffered Keyboard	D	
Yes	0	★
No	1	

E:

VOID mode	E	
Enable	0	★
Disable	1	

F:

Printing of VOID MODE in X2/Z2 report	F	
Yes	0	★
No	1	

G:

Printing of VOID MODE in X1/Z1 report	G	
Yes	0	★
No	1	

H:

Addition to the hourly total in VOID MODE	H	
No	0	★
Yes	1	

**[JOB#63] OTHERS3 PROGRAMMING -- ABCDEFGH --**

MRS = 01000001

A: Receiving at the time of NO SALE	A	
Yes	0	★
No	1	

B: NO SALE after non-add code entry	B	
Disable	0	
Enable	1	★

C: NON-ADD code entry	C	
Enable	0	★
Disable	1	

D: Copy Receipt	D	
No	0	★
Yes	1	

E: Entry that causes the merchandise SUBTOTAL to be smaller than zero.	E	
Enable	0	★
Disable	1	

F: Subtotal entry before tendering	F	
Noncompulsory	0	★
Compulsory	1	

G: Subtotal entry before direct non-tender finalization	G	
Noncompulsory	0	★
Compulsory	1	

H: Direct non-tender finalization after tendering	H	
Disable	0	
Enable	1	★

**[JOB#64] OTHERS4 PROGRAMMING -- ABCDEFGH --**

MRS = 00000000

A: Printing of GT1 on Z report	A	
Yes	0	★
No	1	

B: Printing of GT2 on Z report	B	
Yes	0	★
No	1	

C: Printing of GT3 on Z report	C	
Yes	0	★
No	1	

D: Printing of Training GT on Z report	D	
Yes	0	★
No	1	

E: Printing of Z counter on Z report	E	
Yes	0	★
No	1	

F: Printing of DATA on PLU resetting report	F	
Yes	0	★
No	1	

G: Reset GT1,2,3 at the general Z1 report	G	
No	0	★
Yes	1	

H: OP X/Z report	H	
Enable	0	★
Disable	1	

**[JOB#65] OTHERS5 PROGRAMMING -- ABCDEFGH --**

MRS = 10000000

A: Printing of balance GT on Z report	A	
Yes	0	
No	1	★

B: Balance GT Resetting at the general Z1 report	B	
No	0	★
Yes	1	

C, D, E, F, G, H: Not used (Fixed at "000000")

**[JOB#66] OTHERS6 PROGRAMMING -- ABCDEFGH --**

MRS = 10011100

A: AFTER-TRANSACTION RECEIPT	A	
TOTAL ONLY	0	
DETAILS	1	★

B: AMOUNT PRINTING WHEN PLU UNIT PRICE IS 0	B	
No	0	★
Yes	1	

C: CONVERSION SBTL PRINTING OF NATIVE SBTL	C	
Yes	0	★
No	1	

D: VAT/TAX-assignment print	D	
PRINT	0	
NOT	1	★

E: Compression print on journal at PGM/XZ mode	E	
No (Normal size)	0	
Yes (Small size)	1	★

F: Compression print on journal at REG/MGR/VOID mode	F	
No (Normal size)	0	
Yes (Small size)	1	★

Note: This selection is valid only when "PRINTING FORMAT" is set as "JOURNAL".  
This selection is not valid for the printing data of EJ report. It is provided another selection job for EJ.

G: Logo Text Print on Journal	G	
No	0	★
Yes	1	

H: FOOTER PRINT CONTROL	H	
ALL RECEIPTS	0	★
ON SELECTED FUNCTION KEY AT THE TIME OF FINALIZATION	1	

**[JOB#67] OTHERS7 PROGRAMMING -- ABCDEFGH --**

MRS = 00000000

MRS = 11821012 (for SCA)

A:	Printing of rounding amount (for SCA)	A
	No	0
	Yes	1

B:	TOTAL AMOUNT ROUNDING when a transaction is finalized directly by CHECK or CREDIT key (for SCA) (This selection is not effective at Manual TAX system)	B
	YES (Rounding)	0
	NO (Not rounding)	1

C: ROUNDING UP OF THE UNIT DIGIT OF AMOUNT = 0 to 9

D: ROUNDING DOWN OF THE UNIT DIGIT OF AMOUNT = 0 to 9

Example) CD= 00: COMMON DESTINATION  
82: SWITZERLAND  
54: NORWAY

Item C and D must be handled as a pair. Its action is as follow.

Case of C=0 :

Unit Digit of Amount < or = Value of (D) → Rounding Down  
Value of (D) < or = Unit Digit of Amount → Rounding to 5

Other cases :

Unit Digit of Amount < or = Value of (D) → Rounding Down  
Value of (D) < Unit Digit of Amount < Value of (C) → Rounding to 5  
Value of (C) < or = Unit Digit of Amount → Rounding Up

E:	APPLICATION OF ROUNDING	E
	ITEM & PAYMENT	0
	PAYMENT	1

F:	LIMIT ON THE LEAST SIGNIFICANT DIGIT IN ENTERING THE AMOUNT OF ITEM	F
	ARBITARY	0
	0 ONLY	1
	0 AND 5 ONLY	2

G:	DIFFERENCE MEMORY (DIFFERENCE BETWEEN BEFORE-ROUNDING AND AFTER-ROUNDING)	G
	No	0
	Yes	1

H:	LIMIT ON THE LEAST SIGNIFICANT DIGIT IN ENTERING THE AMOUNT OF PAYMENT	H
	ARBITARY	0
	0 ONLY	1
	0 AND 5 ONLY	2

**[JOB#68] OTHERS8 PROGRAMMING -- ABCDEFGH --**

MRS = 00100011

A: Not used (Fixed at "0")

(Only for XE-A213V)

B:	Guest check No.	B
	Auto generation	0 ★
	Manual	1

C:	Temporary journal printing function of transaction	C
	Disable	0
	Enable	1 ★

Note: It is a function to print one transaction data which is not finalized (during a transaction) when a transaction is operated at "RECEIPT OFF".

It is available only at "RECEIPT PRINTER TYPE".

D:	EJ print and clear at general Z1 report	D
	No	0 ★
	Yes	1

E:	PGM mode programming operation records in EJ	E
	DETAIL	0 ★
	Header information only	1

Note: It is not effected for PGM reading and XZ reports.

PGM reading and XZ reports are always treatment as "HEADRER ONLY".

F:	REG/MRG/VOID operation records in EJ	F
	DETAIL	0 ★
	TOTAL	1

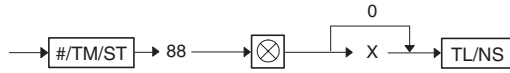
G:	Compression print for EJ report	G
	No (Normal size)	0
	Yes (Small size)	1 ★

H:	Action when EJ file is full	H
	Continue (no warning)	0
	Warning (near full warning)	1 ★
	Lock (with near full warning)	2

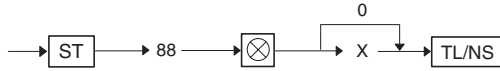


### 13) TEXT CHANGING (TO DEFAULT TEXT)

XE-A203V:



XE-A213V:



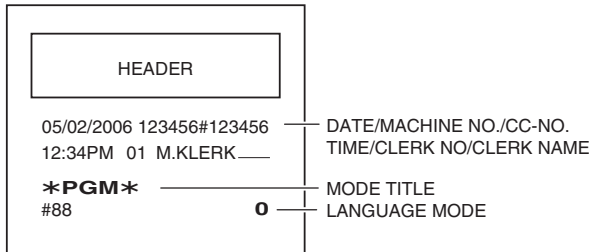
- X: 0 = English text  
 1 = German text  
 2 = French text  
 3 = Spanish text

MRS = 0

When this job is executed, below texts are set as default data.

- (a) Function text  
 (b) Each message text (LOGO, etc..)  
 (c) Clerk name

#### (Sample)



### 15) CHANGING MEMORY TYPE (EJ RECORD AND PLU RECORD)

XE-A203V:



XE-A213V:



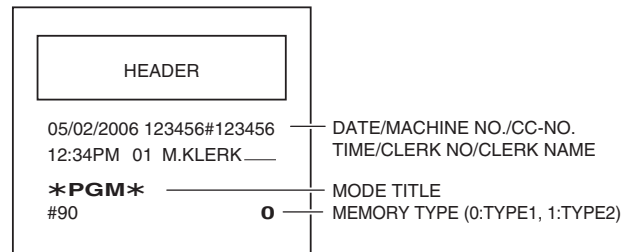
X : 0 = TYPE1 (EJ:8000 records and PLU 1200 records)

1 = TYPE2 (EJ:9000 records and PLU 210 records)

MRS = 1

When this job is executed, EJ records are deleted and PLU records are set the default data after deleted all records even if same memory type is entered.

#### (Sample)



### 14) RESETING OF ALL COUNTER & TOTALIZER

XE-A203V:

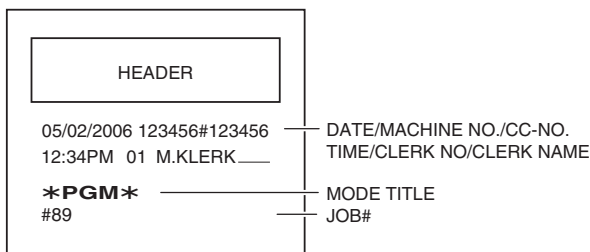


XE-A213V:



All counter, totalizer, all GTs, and all Z counter are reset.

#### (Sample)



## 4. CHARACTER ASSIGNMENT METHOD

### ■ THE METHOD OF CHARACTER ENTRY AT TEXT PROGRAMMING

The character can be entered by using character key or character code.

When the character can be entered in the text programming, the key layout is changed from "Function and DEPT key layout" to "CHARACTER KEY LAYOUT".

In "CHARACTER KEY LAYOUT", any key except the Numeric keys and [CL], [SBTL], [TL] are assigned either the character or the control key for character entry.

Any character can be entered by following method.

#### By character key:

— [SHIFT] — (CHARACTER KEY) — : Characters on Character key layout.  
 — [NUMBER] — (NUMERIC KEY) — : Numeric character ("0", "1", . . . , "9")

#### By Numeric key (Character Code) :

— xxx — [00] —  
 xxx : Character Code

#### (The list of Control Key)

Key	Action
SHIFT	Entry to shift the following character key. (ex. [SHIFT] → [A] : Enter the character "a".)
NUMBER	Entry the following numeric key as the number character. (ex. [NUMBER] → [1] : Enter the character "1".)
(DC)	Double size character: Change the following character to the double size character.
BS	Back Space : Delete the last character.

The status of [SHIFT], [NUMBER] and [DC] are keeping until pushing same control key in each text entry. (STAY DOWN type)

And the corresponding indication is lighted up on the display while their status is "on".

#### (Example)

[SHIFT] → [A] [B] [C] → [SHIFT] → [A] [B] [C] : Text "abcABC".  
 [NUMBER] → [1] [2] [3] → [NUMBER] → [1] [2] [3] : Text "123" and numeric number 123.  
 [DC] → [A] [B] [C] → [DC] → [A] [B] [C] : Text "**ABC**ABC".



**<Character Code Table for text programming> Printer**

CODE	CHARACTER
001	á
002	â
003	ê
004	î
005	ì
006	í
007	ô
008	ó
009	û
010	ú
011	œ
012	Û
013	Ú
014	ó
015	ó
016	Λ
017	◆
018	Γ
019	..
020	&!
021	∇
022	θ
023	≡
024	€
025	≤
026	∞
027	f
028	Ú
029	Ú
030	Ó
031	Ó
032	(Space)
033	!
034	"
035	#
036	\$
037	%
038	&
039	'
040	(
041	)
042	*
043	+
044	,
045	-
046	.
047	/
048	0

CODE	CHARACTER
049	1
050	2
051	3
052	4
053	5
054	6
055	7
056	8
057	9
058	:
059	;
060	<
061	=
062	>
063	?
064	@
065	A
066	B
067	C
068	D
069	E
070	F
071	G
072	H
073	I
074	J
075	K
076	L
077	M
078	N
079	O
080	P
081	Q
082	R
083	S
084	T
085	U
086	V
087	W
088	X
089	Y
090	Z
091	Ä
092	Ö
093	Ü
094	^
095	-
096	`
097	a

CODE	CHARACTER
098	b
099	c
100	d
101	e
102	f
103	g
104	h
105	i
106	j
107	k
108	l
109	m
110	n
111	o
112	p
113	q
114	r
115	s
116	t
117	u
118	v
119	w
120	x
121	y
122	z
123	{
124	
125	}
126	β
127	ç
128	!!
129	₁
130	₂
131	₃
132	₄
133	½
134	F <sub>T</sub>
135	←
136	→
137	∞
138	∞
139	▶
140	◀
141	F
142	T
143	↓
144	ç
145	°
146	ı

CODE	CHARACTER
147	ù
148	à
149	Æ
150	∅
151	Å
152	□
153	é
154	è
155	Pt
156	i
157	Ñ
158	Õ
159	£
160	¥
161	◦
162	Γ
163	J
164	,
165	.
166	T <sub>1</sub>
167	T <sub>2</sub>
168	T <sub>3</sub>
169	T <sub>4</sub>
170	1 <sub>2</sub>
171	1 <sub>3</sub>
172	1 <sub>4</sub>
173	2 <sub>3</sub>
174	2 <sub>4</sub>
175	3 <sub>4</sub>
176	⊘
177	Á
178	í
179	
180	Ā
181	ā
182	Ē
183	ē
184	Ī
185	ī
186	Ū
187	ū
188	Ŋ
189	ŋ
190	Č
191	š
192	ç
193	İ
194	Ğ
195	Ş

CODE	CHARACTER
196	Ç
197	ğ
198	Қ
199	қ
200	Ł
201	ł
202	Ž
203	Đ
204	đ
205	Ć
206	ć
207	€
208	P
209	`
210	ě
211	š
212	č
213	ž
214	ý
215	ú
216	ň
217	ˇ
218	˘
219	ř
220	
221	
222	
223	
224	*
225	\$
226	∅
227	^
228	↑
229	]
230	[
231	¨
232	ä
233	ö
234	ü
235	æ
236	ã
237	É
238	ñ
253	(DC)

Note: The character of this table is for reference. Please see actual print out.

(DC): Double Code

: ECR Control Character (Not used for text)

**<Character Code Table for text programming> Display**

CODE	CHARACTER
001	á
002	â
003	ê
004	î
005	ì
006	(Space)
007	ô
008	ó
009	û
010	ú
011	(Space)
012	Û
013	ú
014	ó
015	ó
016	∧
017	◆
018	Γ
019	(Space)
020	&!
021	∇
022	∅
023	≡
024	€
025	≤
026	∞
027	f
028	Ú
029	Ú
030	Ö
031	Ó
032	(Space)
033	!
034	"
035	#
036	\$
037	%
038	&
039	'
040	(
041	)
042	*
043	+
044	,
045	-
046	.
047	/
048	0

CODE	CHARACTER
049	1
050	2
051	3
052	4
053	5
054	6
055	7
056	8
057	9
058	:
059	;
060	<
061	=
062	>
063	?
064	@
065	A
066	B
067	C
068	D
069	E
070	F
071	G
072	H
073	I
074	J
075	K
076	L
077	M
078	N
079	O
080	P
081	Q
082	R
083	S
084	T
085	U
086	V
087	W
088	X
089	Y
090	Z
091	Ä
092	Ö
093	Ü
094	^
095	_
096	`
097	a

CODE	CHARACTER
098	b
099	c
100	d
101	e
102	f
103	g
104	h
105	i
106	j
107	k
108	l
109	m
110	n
111	o
112	p
113	q
114	r
115	s
116	t
117	u
118	v
119	w
120	x
121	y
122	z
123	{
124	
125	}
126	β
127	¢
128	!
129	₁
130	₂
131	₃
132	₄
133	(Space)
134	(Space)
135	←
136	→
137	(Space)
138	(Space)
139	▶
140	◀
141	F
142	T
143	(Space)
144	ç
145	°
146	ı

CODE	CHARACTER
147	ü
148	à
149	Æ
150	∅
151	Å
152	□
153	é
154	è
155	Pt
156	i
157	Ñ
158	Õ
159	(Space)
160	¥
161	.
162	[
163	]
164	,
165	(Space)
166	(Space)
167	(Space)
168	(Space)
169	(Space)
170	(Space)
171	(Space)
172	(Space)
173	(Space)
174	(Space)
175	(Space)
176	(Space)
177	Á
178	(Space)
179	(Space)
180	(Space)
181	(Space)
182	(Space)
183	(Space)
184	(Space)
185	(Space)
186	(Space)
187	(Space)
188	(Space)
189	(Space)
190	Č
191	Š
192	ç
193	İ
194	(Space)
195	Ş

CODE	CHARACTER
196	(Space)
197	(Space)
198	(Space)
199	(Space)
200	(Space)
201	(Space)
202	Ž
203	(Space)
204	(Space)
205	(Space)
206	ć
207	€
208	P
209	(Space)
210	ě
211	š
212	č
213	ž
214	ý
215	ù
216	ň
217	˘
218	(Space)
219	ř
220	(Space)
221	(Space)
222	(Space)
223	(Space)
224	*
225	(Space)
226	∅
227	^
228	(Space)
229	]
230	[
231	(Space)
232	ä
233	ö
234	ü
235	æ
236	â
237	É
238	ñ
253	(DC)

Note: The character of this table is for reference. Please see actual print out.

(DC): Double Code

☐ : ECR Control Character (Not used for text)

## 5. EASY PROGRAMMING

Easy programming roughly consists of the following two types of programming.

1. Direct key or code entry type.
2. Guidance message type on usual programming.

Reports that show the contents of individual programming can be printed.

### [PURPOSE]

It aims to be able to program easily by using the guidance messages by the easy programming.

### [OPERATION]

Perform the programming to enter the parameter according to the guidance message.

The guidance message is displayed on the LCD-display every time.

It shows the information related the entry data at each step.

Each programming data and the text data is entered by using a keyboard.

It is used some key as special key to enter each data at the Easy Programming operation.

There are follows.

	KEY	CONTENTS OF USE
a	Numerical key (0, 1 to 9)	Used for numerical number entry.
b	Double-zero key ([00])	Used for parameter entry and character code entry.
c	Clear key ([CL])	Used for cancel entry.
d	Point key ([.])	Used for decimal point entry and right moving entry (as right cursor key).
e	Multiplication key([X])	Used for left moving entry (As left cursor key).
f	Subtotal key ([ST])	Used for data decision entry.
g	Finalization key ([TL])	Used for programming termination entry.

## 1. DIRECT KEY OR CODE ENTRY TYPE

### <PROGRAMMING METHOD>

At PGM mode, it becomes set up mode, as it pushes a key of a direct key or code entry that it wants to set up.

**For example:**

Push DEPT1 key, if you want to set up DEPT1 items.

Push %1 key, if you want to set up %1 item.

After that, every time it pushes [# / TM / ST](XE-A203V) or [ST](XE-A213V) key, a set up item changes with price, text, programming ...

To change a programming content, it changes it using a numeric key.

As additional way, [00] key can be used as an incremter while an indicator lights on.

i.e. By pushing [00] key for a digit of parameters, a figure changes 0 → 1 → 2 ...

The data is changed by pushing [# / TM / ST](XE-A203V) or [ST](XE-A213V) key, and the display shows a content of the next item.

After that, the operator program the next set up item.

If a set up ends, it pushes [TL / NS] key.

It shows the list of programmable data by this method ("Direct key entry type") on the next page.

It shows every set up item and example of display to the following.

### <KEY SEQUENCE>

#### <DEPT>

Function	key	Step	Programmable data	Entry type	Default (MRS)
DEPT	[DEPTn] or DEPT code + [DEPT#]	1	Text	(CHARACTER)	DEPT.xx
		2	Price	(NUMERIC)	0
		3	Entry type	(TOGGLE)	OPEN
		4	Selection of TAX1	(TOGGLE)	(*1)
		5	Selection of TAX2	(TOGGLE)	(*1)
		6	Selection of TAX3	(TOGGLE)	(*1)
		7	Selection of TAX4	(TOGGLE)	(*1)
		8	Registration type	(TOGGLE)	NORMAL
		9	Sign	(TOGGLE)	(*1)
		10	Limitation digits	(NUMERIC)	8

(\*1) DEPT01 - 10 : VAT 1 / (+) Sign

DEPT11 - 20 : VAT 2 / (+) Sign

DEPT21 : VAT 1 / (-) Sign

DEPT22 - 99 : VAT 1 / (+) Sign

#### <PLU>

Function	key	Step	Programmable data	Entry type	Default (MRS)
PLU	PLUn or PLU code + [PLU/SUB]	1	Text	(CHARACTER)	PLU.xxxx
		2	Price	(NUMERIC)	0
		3	Dept code	(NUMERIC)	01
		4	Type	(TOGGLE)	PLU

<(-)>

Function	key	Step	Programmable data	Entry type	Default (MRS)
(-)	(-)	1	Text	(CHARACTER)	(*2)
		2	Unit price	(NUMERIC)	0
		3	Sign	(TOGGLE)	(-)
		4	Item	(TOGGLE)	Enable
		5	Subtotal	(TOGGLE)	Enable
		6	Limitation digits	(NUMERIC)	8

(\*2) Please refer function list. (Programming of function text)

<%n>

Function	key	Step	Programmable data	Entry type	Default (MRS)
%n	%n	1	Text	(CHARACTER)	(*2)
		2	Rate	(NUMERIC)	0.00
		3	Sign	(TOGGLE)	(-)
		4	Item	(TOGGLE)	Enable
		5	Subtotal	(TOGGLE)	Enable
		6	% RATE halo	(NUMERIC)	100.00

(\*2) Please refer function list. (Programming of function text)

<EXCHANGE>

Function	key	Step	Programmable data	Entry type	Default (MRS)
EX	EX	1	Text	(CHARACTER)	(*2)
		2	Rate	(NUMERIC)	0.000000
		3	OPEN RATE ENTRY	(TOGGLE)	Enable
		4	PRESET RATE ENTRY	(TOGGLE)	Enable
		5	TAB	(NUMERIC)	2

(\*2) Please refer function list. (Programming of function text)

<RA, PO, CH1, CH2, CR1, CR2>

Function	key	Step	Programmable data	Entry type	Default (MRS)
RA, PO, CH1, CH2, CR1, CR2	RA, PO, CH1, CH2, CR1, CR2	1	Text	(CHARACTER)	(*2)
		2	Footer print on receipt	(TOGGLE)	NO
		3	Entry of amount tendered	(TOGGLE)	(*3)
		4	Limitation digits	(NUMERIC)	(*4)

(\*2) Please refer function list. (Programming of function text)

(\*3) noncompulsory (check), inhibit (Credit)

(\*4) 8 (CH1, CH2, CR1, CR2), 9 (RA, PO)

It shows every set up item and example of display to the following.

<The details of "ENTRY TYPE">

As it pushes ST, a set up item advances the next step.

As it pushes TL, and the set up data writes to the memory, and a set up of the function ends.

Set up as it pushes other DIRECT PLU KEY on the way(exclude text programming),and the set up data writes to the memory, a set up of the next setting starts.

The guidance message is displayed at each programming step.

The following guidance messages are used for easy programming operation.

<Programming for DEPT.>

KEY ENTRY	OPERATER	NOTE
[DPT1]	1234567890123456 DEPT . 01 01	DEPT1 TEXT/DEPT1 CODE
	ENTER [ 00 ] KEY	A text changes to ENTER [00]-KEY.
->[00]	ENTRY TEXT	Message of "ENTER TEXT" is displayed.
	DEPT . 01	Current DEPT1 text is displayed. Then the cursor is blinking. (*)
->066	066	Text code is inputted.
->[00]	BEPT . 01	If [00] key is entered and inputted text is addressed. Then the cursor is blinking.
->EER ( _ is set space)	BEER -	Text
->[ST]	PRICE	Guidance message
->	123	Current setting is displayed.
->200	200	
->[ST]	DEPT ENTRY TYPE	Guidance message
->	OPEN	Current setting is displayed.
->[00]	PRESET	
->[00]	OPEN & PRESET	
->[00]	INHIBITED	
->[00]	OPEN	
->[ST]	SELECT OF TAX1	Guidance message
->	TAX1 YES	Guidance message Current setting is displayed.
-> [00]	TAX1 NO	Guidance message Current setting is displayed.
->[ST]	SELECT OF TAX2	Guidance message
->	TAX2 NO	Guidance message
->[00]	TAX2 YES	Guidance message
->[ST]	SELECT OF TAX3	Guidance message
->	TAX3 NO	Guidance message
->[ST]	SELECT OF TAX4	Guidance message
->	TAX4 NO	Guidance message
->[ST]	REGIST . TYPE	Guidance message
->	NORMAL	Current setting is displayed.
->[00]	SICS	
->[ST]	SIGN	Guidance message
->	( + )	Current setting is displayed.
-> [00]	( - )	
->[ST]	LIMIT DIGITS	Guidance message
->	8	Current setting is displayed.
-> 7	7	Guidance message
->[ST]	DEPT . 02 02	DEPT2 TEXT / DEPT2 CODE
	ENTER [ 00 ] KEY	RETURN TO 1'st STEP
->[TL]	0.00	DEPT1 SET UP TERMINATE

(\*) In case of text setting, you can use [X] or [.] key.

If you push [X] key, the cursor moves to the left. And if you push [.] key, the cursor moves to the right.

**<CANCEL OPERATION>**

KEY ENTRY	OPERATER 1234567890123456	NOTE
[PLU5]	PLU . 0005 0005	PLU1 TEXT / PLU CODE
	ENTER [00]KEY	ENTER [00]-KEY TO CHANGE TEXT
->[00]	ENTER TEXT	Message of "ENTER TEXT" is displayed.
	PLU . 0005	
->COFFEE	COFFEE _	
->[ST]	PRICE	Guidance message
->	100	
->200	200	
->[ST]	ENTER DEPT#	PRICE IS DECIDED
->	01	
->[CL]	01	
->[CL]	0.00	PLU5 SET UP TERMINATE

In this case, price(200) and text (COFFEE) are not written to the preset memory.

**<Programming for PLU.>**

KEY ENTRY	OPERATER 1234567890123456	NOTE
[PLU1]	PLU .0001 0001	PLU1 TEXT / PLU CODE
	ENTER[00]KEY	
->[00]	ENTER TEXT	Message of "ENTER TEXT" is displayed.
	PLU . 0001	Current PLU1 text is displayed. Then the cursor is blinking. (*)
->066	066	Text code is inputted.
->[00]	BLU . 0001	If [00] key is entered and inputted text is addressed. Then the cursor is blinking.
->EER ( is set space)	BEER _	Text
->[ST]	PRICE	Guidance message
->	100	Current setting is displayed.
->200	200	Guidance message
->[ST]	ENTER DEPT#	Guidance message/PLU code
->01	01	Inputted DEPT no. If you want to set PLU delete. Please set 0.
->[ST]	ENTER PLU TYPE	Guidance message
->	PLU	Current setting is displayed.
-> [00]	SUBDEPT	Guidance message
-> [00]	PLU	Guidance message
->[ST]	PLU . 0002 0002	PLU2 TEXT/PLU CODE
	ENTER [00]KEY	RETURN TO 1'st STEP
->[TL]	0.00	PLU1 SET UP TERMINATE

(\*) In case of text setting, you can use [X] or [.] key.  
If you push [X] key, the cursor moves to the left. And if you push [.] key, the cursor moves to the right.

**PROGRAMMING FOR (-).**

KEY ENTRY	OPERATER 1234567890123456	NOTE
[(-)]	(-) PROGRAMMING	(-) PROGRAMMING
	ENTER [00]KEY	
->[00]	ENTER TEXT	Message of "ENTER TEXT" is displayed.
	⌂(-)	Current (-) text is displayed. Then the cursor is blinking.
->[ST]	ENTER AMOUNT	Message of "ENTER AMOUNT" is displayed.
->	0	
->200	200	
->[ST]	SIGN	Guidance message
->	(-)	
-> [00]	(+)	
->[ST]	ENTRY FOR ITEM	Guidance message
->	ITEM ENABLE	
-> [00]	ITEM DISABLE	
->[ST]	ENTRY FOR SBTL	Guidance message
->	SBTL D I S A B L E	
-> [00]	SBTL E N A B L E	
->[ST]	LIMIT DIGITS	Guidance message
->	8	Current setting is displayed.
-> 8	8	
[ST]	(-) PROGRAMMING	(-) PROGRAMMING
	ENTER [00]KEY	

**PROGRAMMING FOR %.**

KEY ENTRY	OPERATER 1234567890123456	NOTE
[ % ]	% PROGRAMMING	% PROGRAMMING
	ENTER [ 00 ] KEY	
->[00]	ENTER TEXT	Message of "ENTER TEXT" is displayed.
	%	Current % text is displayed. Then the cursor is blinking.
->[ST]	ENTER RATE	Message of "ENTER RATE" is displayed.
->	0.00	
->12.34	12.34	
->[ST]	SIGN	Guidance message
->	(-)	
-> [00]	(+)	
->[ST]	ENTRY FOR ITEM	Guidance message
->	ITEM ENABLE	
-> [00]	ITEM D I S A B L E	
->[ST]	ENTRY FOR SBTL	Guidance message
->	SBTL D I S A B L E	
-> [00]	SBTL E N A B L E	
->[ST]	% HALO PROG	Guidance message
->	100.00	Current setting is displayed.
-> 90.00	90.00	
[ST]	% PROGRAMMING	% PROGRAMMING
	ENTER [ 00 ] KEY	

**PROGRAMMING FOR EXCHANGE.**

KEY ENTRY	OPERATER 1234567890123456	NOTE
[ EX ]	EXCHANGE PROG.	EXCHANGE PROGRAMMING
	ENTRY FOR ITEM	
->[00]	ENTER TEXT	Message of "ENTER TEXT" is displayed.
	EXCH1	Current EXCH1 text is displayed. Then the cursor is blinking.
->[ST]	ENTER EX RATE	Message of "ENTER EX RATE" is displayed.
->	0	
->123.456789	123. 456789	
->[ST]	OPEN RATE ENTRY	Guidance message
->	OPEN ENABLE	
-> [00]	OPEN D I SABLE	
->[ST]	PRESET RATE	Guidance message
->	PRESET ENABLE	
-> [00]	PRESET D I SABLE	
->[ST]	TAB	Guidance message
->	2	
-> 3	3	
->[ST]	EXCHANGE PROG.	Guidance message
->	ENTER [00]KEY	Guidance message

**PROGRAMMING FOR MEDIA KEYS & FUNCTION KEYS.  
([RA], [PO], [CH1], [CH2], [CR1], [CR2])**

KEY ENTRY	OPERATER 1234567890123456	NOTE
[ CH1 ]	CH1 PROGRAMMING	CH1 PROGRAMMING (Each media or function key messages is displayed)
	ENTER [00]KEY	
->[00]	ENTER TEXT	Message of "ENTER TEXT" is displayed.
	CHECK1	Current CH1 text is displayed. Then the cursor is blinking.
->[ST]	FOOTER PRINT	In case of RA/PO setting, this setting is skipped.
->	NO	
->[00]	YES	
->[ST]	AMOUNT TENDERED	In case of RA/PO setting, this setting is skipped.
->	COMPULSORY	
->[00]	NON COMPULSORY	In case of CR1/CR2 setting this message is "inhibit".
->[00]	COMPULSORY	
->[ST]	LIMIT DIGITS	Guidance message
->	8	
->0	0	
->[ST]	CH1 PROGRAMMING	Guidance message
->	ENTER [00]KEY	Guidance message

**2. GUIDANCE MESSAGE TYPE**

**<SAMPLE OPERATION & DISPLAY>**

**PROGRAMMING OF FUNCTION TEXT**

KEY ENTRY	OPERATER 1234567890123456	NOTE
[ST] -> 3	3	Numeric entry.
-> [*]	FUNC. TEXT PROG	FUNCTION TEXT PROGRAMMING TITLE
	ENTER FUNC NO.	Enter function no.
-> 4	4	Numeric entry.
-> [X]	_	Enter next key.
-> DIFFER	D I FFER_	Text entry.
-> [ST]	FUNC. TEXT PROG	FUNCTION TEXT PROGRAMMING TITLE
	ENTER FUNC NO.	Enter function no.
-> [TL]	0.00	

**PROGRAMMING OF LOGO TEXT**

KEY ENTRY	OPERATER 1234567890123456	NOTE
[ST] -> 4	4	Numeric entry.
-> [*]	LOGO TEXT PROG	LOGO TEXT PROGRAMMING TITLE
	ENTER LINE NO.	Enter line no.
-> 1	1	Numeric entry.
-> [X]	_	Enter next key.
-> S_H_A_R_P_	=S=H=A=R=P=_	Text entry.
-> [ST]	LOGO TEXT PROG	LOGO TEXT PROGRAMMING TITLE
	ENTER LINE NO.	Enter line no.
-> [TL]	0.00	

**PROGRAMMING OF CLERK NAME**

KEY ENTRY	OPERATER 1234567890123456	NOTE
[ST] -> 5	5	Numeric entry.
-> [*]	CLERK NAME PROG	CLERK NAME PROGRAMMING TITLE
	ENTER CLERK NO .	Enter clerk no.
-> 1	1	Numeric entry.
-> [X]	_	Enter next key.
-> CLERK01	CLERK01_	Text entry.
-> [ST]	CLERK NAME PROG	CLERK NAME PROGRAMMING TITLE
	ENTER CLERK NO .	Enter clerk no.
-> [TL]	0 .00	

**FOREIGN CURRENCY SYMBOL PROGRAMMING**

KEY ENTRY	OPERATER 1234567890123456	NOTE
[ST] -> 6	6	MODE
-> [*]	FOREIGN CURRENCY	FOREIGN CURRENCY SYMBOL
	-	Enter next key.
-> \	\	Text entry.
-> [ST]	ENTER TL KEY	Enter TL key.
-> [TL]	0.00	

**VAT RATE PROGRAMMING**

KEY ENTRY	OPERATER 1234567890123456	NOTE
[ST] -> 9	9	Numeric entry.
-> [X]	TAX RATE PROG	TAX RATE PROGRAMMING TITLE
	ENTER TAX NO.	Enter tax no.
-> 1	1	Numeric entry.
-> [X]	ENTER TAX RATE	Enter tax rate.
-> 15	15	Text entry.
-> [X]	ENTER LOWER TAX	Enter LOWER TAX LIMIT
-> 10	10	Numeric entry.
-> [ST]	ENTER TAX NO.	Enter next key.
-> [TL]	0.00	

**AUTO KEY PROGRAMMING**

KEY ENTRY	OPERATER 1234567890123456	NOTE
[AUTO]	AUTO KEY PROG	Auto key programming title.
-> [PLU1]	1 01	PLU1 entry
-> [1]	1 02	1 key entry.
-> [0]	1 03	0 key entry.
-> [0]	1 04	0 key entry.
-> [DEPT2]	1 05	DEPT2 entry
-> [AUTO]	ENTER TL KEY	Enter TL key.
-> [TL]	0.00	

**VARIOUS PROGRAMMING**

KEY ENTRY	OPERATER 1234567890123456	NOTE
[ST] -> AB	AB	Numeric entry.
-> [X]	GUIDANCE TEXT	Guidance text. (*)
-> (NK)	NK	Programming data. NK = JOB-NO.
-> [ST]	ENTER TL KEY	Enter TL key.
-> [TL]	0.00	

**(\*) GUIDANCE TEXT**

JOB-NO.	JOB TITLE	GUIDANCE TEXT 1234567890123456
1	MACHINE No.	MACH INE NO.
2	CONSECUTIVE No.	CONSECUT IVE NO.
5	FUNCTION SELECT	FUNCTION SELECT
6	PRINT FORMAT	PR INT FORMAT
7	RECEIPT PRINT FORMAT	RCPT PRT FORMAT
8	EURO FUNCTIONS	EURO FUNCT IONS
10	POWER SAVING	POWER SAV ING
11	LOGO PRINTING	LOGO PR INTING
12	EURO Programming	EURO PROG
13	The date of exchanging the between LOCAL and EURO	EURO EX DATE
14	The Time (hour only) of exchanging the currency between LOCAL and EURO	EURO EX TIME
15	FUNCTION SELECT2	FUNCTION SELECT2
35	USB TIME OUT	USB TIME OUT
50	THERMAL PRINTER DENSITY CONTROL	PRINTER DENSITY
61	OTHERS1 PROGRAMMING	OTHERS1 PROG
62	OTHERS2 PROGRAMMING	OTHERS2 PROG
63	OTHERS3 PROGRAMMING	OTHERS3 PROG
64	OTHERS4 PROGRAMMING	OTHERS4 PROG
65	OTHERS5 PROGRAMMING	OTHERS5 PROG
66	OTHERS6 PROGRAMMING	OTHERS6 PROG
67	OTHERS7 PROGRAMMING	OTHERS7 PROG
68	OTHERS8 PROGRAMMING	OTHERS8 PROG
69	OTHERS9 PROGRAMMING	OTHERS9 PROG
70	OTHERS10 PROGRAMMING	OTHERS10 PROG
71	GT2 PROGRAMMING	GT2 PROG
72	GT3 PROGRAMMING	GT3 PROG
76	GENERAL Z1 RESET REPORT COUNTER	Z1 RESET COUNTER
77	GENERAL Z2 RESET REPORT COUNTER	Z2 RESET COUNTER
86	TRAINING CLERK PROGRAMMING	TRAINING CLERK

**DOMESTIC CURRENCY SYMBOL PROGRAMMING**

KEY ENTRY	OPERATER 1234567890123456	NOTE
[ST] -> 85	85	Numeric entry.
-> [.]	DOM. CURRENCY	DOMESTIC CURRENCY SYMBOL
		PROGRAMMING TITLE
-> 224 -> [00]	*_	Guidance text.
-> [ST]	ENTER TL KEY	Enter TL key.
-> [TL]	0.00	

**TRAINING MODE TEXT PROGRAMMING**

KEY ENTRY	OPERATER 1234567890123456	NOTE
[ST] -> 87	87	MODE
-> [.]	TRAINING TEXT	TRAINING MODE TEXT PROGRAMMING In a moment, display for text programming will change.
-> **TRAINING**	**TRAINING**_	CHARACTER
-> [ST]	ENTER TL KEY	Enter TL key.
-> [TL]	0.00	

**TEXT CHANGING (To Default text)**

KEY ENTRY	OPERATER 1234567890123456	NOTE
[ST] -> 88	88	Numeric entry.
-> [X]	LANGUAGE CHANGE	TEXT CHANGING (To default text)
-> 1	1	Text no.
-> [TL]	THANK YOU	
	0.00	

**Resetting of all counter and totalizer**

KEY ENTRY	OPERATER 1234567890123456	NOTE
[ST] -> 89	89	Numeric entry.
-> [X]	MEMORY RESETT ING	Resetting of all counter and totalizer TITLE
-> [TL]	0.00	

**Changing memory type (EJ record and PLU record)**

KEY ENTRY	OPERATER 1234567890123456	NOTE
[ST] -> 90	90	Numeric entry.
-> [X]	SELECT MEM . TYPE	Resetting of all counter and totalizer TITLE
-> 1	1	TYPE
-> [TL]	TYPE2	TYPE (EJ: 2000 records and PLU 200 records)
	0.00	



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

Roughly speaking, the following sales reports are available:

- 1) OP X/Z reports (individual cashier reports)
- 2) X1/Z1 reports (Daily total X and Z reports)
- 3) X2/Z2 reports (Periodic total X and Z reports)
- 4) Flash-read reports (Display sales amount)

In addition to the above reports that are to be used for program checking are also available.

### [Purpose]

The reports are each used to check sales data. The standard purposes of taking these reports are as follows:

OP X/Z reports: These reports are taken by operators in order to report their own sales data.

X1/Z1 reports: These reports are taken by the supervisor or manager in order to check and report daily sales totals at that point.

X2/Z2 reports: These reports are taken by the owner or manager in order to check and report periodic (weekly or monthly) totals.

Flash-read: These reports are taken by the owner or manager in order to check and display daily sales totals at that point.

### [Operation]

In the table below those reports marked with a circle "○" can be printed.

#### PRINTING REPORT

REPORT NAME	KEY ENTRY	MODE						DATA FOR READING	
		OPX/Z		X1/Z1		X2/Z2			
		X	Z	X1	Z1	X2	Z2		
GENERAL	TL/NS			○	○	○	○		*1, *6
PLU BY RANGE	PLU/SUB			○	○			PLU CODE	*1, *2
CLERK (ALL)	CLK#			○	○				*1
CLERK (INDIVIDUAL)	CLK#	○	○						*1, *3
HOURLY (ALL)	#/TM/ST			○	○				*1
GLU	GLU			○	○			(only for A213V)	*1
GLU (CLERK)	CRI			○	○			(only for A213V)	*1
BALANCE	RA			○				(only for A213V)	*1

#### FLASH READING REPORT

REPORT NAME	KEY ENTRY	MODE						DATA FOR READING	
		OPX/Z		X1/Z1		X2/Z2			
		X	Z	X1	Z1	X2	Z2		
DEPARTMENT	[DPTn] or [SHIFT] → [DPTn] or NK → [DEPT#]	○						DEPT CODE	*4
CID	[X]	○							*4
PAID TOTAL	[TL/NS]	○							*4

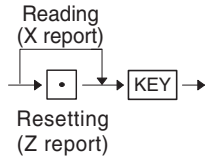
#### OTHERS OPERATION

	JOB#	MODE						DATA FOR READING	
		OPX/Z		X1/Z1		X2/Z2			
		X	Z	X1	Z1	X2	Z2		
EJ report (ALL)	700	○	○	○	○				*5, *6
EJ report (Latest 10 records)	710	○		○					*5, *6
EURO CHARGE	800					○	○		*7

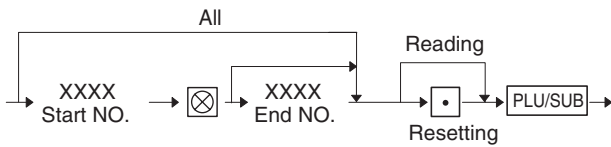
MODE: X : Daily operator X report    Z : Daily operator Z report  
 X1 : Daily X report                    Z1 : Daily Z report  
 X2 : Periodic X report                Z2 : Periodic Z report  
 (X report): The corresponding data is held in the ECR.  
 (Z report): The corresponding data is cleared in the ECR.

- Stop of printing reports (Report cancel function):  
This ECR has the function of report stopping for PLU report and EJ report.
- Printing of GT on X reports:  
This ECR dose not print any GT on X reports.

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



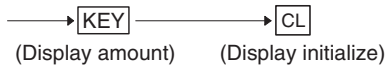
\*2 PLU code range can be specified by entering the start and end numbers according to the following procedure.  
When specifying a single PLU code, the start number has only to be entered.



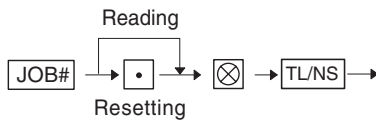
\*3 The clerk code does not need to enter at the OPX/Z mode.  
In OPX/Z mode, it is issued the report of the assigned cashier.

\*4 Reading display only.

The displayed amount can be cleared by [CL] key.



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

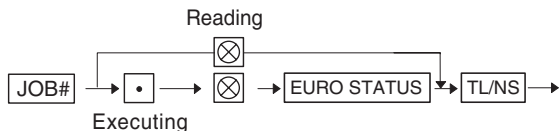


\*6 It is able to print and clear the EJ memory at general Z1 report by PGM mode programming.

In that case, the contents of EJ memory is printed just after issued general Z1 report.

(Issuing general Z1 report → Clear daily DEPT & TRANS memory → Issuing EJ memory → Clear EJ memory)

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



**[Action]**

Individual counters for the following Z reports are incremented when those reports are printed.

- 1) General daily total report (Z1)
- 2) General periodic total report (Z2)

**[Additional function]**

(1) Overflow mark

If the amount or quantity 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 or quantity 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.

(2) MODE TITLE

Each report printed a MODE TITLE at a header of report.

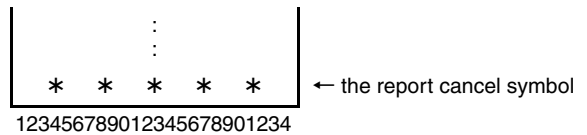
The Report Titles are as follows.

OPX report	*OPX*
OPZ report	*OPZ*
X1 report	*X 1*
Z1 report	*Z 1*
X2 report	*X 2*
Z2 report	*Z 2*

(3) Report cancel function

It can be cancelled by turned the mode switch to MGR position while the data is printed. (In this case, the contents of memory are not cleared.)

<Print sample of Report cancel>



# CHANGING EURO FUNCTION (Z2 MODE JOB)

This job is own to be able to be changed easily from local currency system to EURO currency system in X2/Z2 mode.

## (Reading the current EURO status)



## (Changing EURO Function)



- Y : 1 = EURO STATUS (B)
- 2 = EURO STATUS (C)
- 3 = EURO STATUS (D)

About EURO STATUS are shown the following pages.  
It is executing automatically to change from status (A) to status (B), (C), (D).  
Selectable type is one of below 4 types.  
And the selectable type is decided as below for each status.

CURRENT STATUS ↓	Selectable STATUS			
	(A)	(B)	(C)	(D)
(A)	—	x	x	x
(B)	—	—	x	x
(C)	—	—	—	x
(D)	—	—	—	—

Marked "x" is selectable

## [Action]

It is executed some of below JOBS which is needed for each status.

- 1) Issue General Z1 report.
- 2) Issue General Z2 report.
- 3) Clear GT1/2/3 and Training GT.
- 4) Convert the unit price of DEPT/PLU from LOCAL currency to EURO.  
If new unit price is over the max digits, its price is set as "0.00".
- 5) Convert the HALO amount and HALO digits from LOCAL currency to EURO.  
If new HALO amount is over the max digits, its price is set as "0.00".
- 6) Change PGM function "EX1 AMOUNT PRINTING FOR TOTAL AND CHANGE YES/NO".
- 7) Change PGM function "EX1 CALCULATTION METHOD DIVISION/MULTIPLICATION".
- 8) Set "Domestic currency symbol" as EURO SYMBOL.
- 9) Set "Domestic TAB" as "2".
- 10) Set "EX1 currency symbol" as the suitable data.
- 11) Set "EX1 TAB" as the suitable data.
- 12) Set "Rounding SYSTEM (Denmark/Sweden/Normal)" as "Normal".
- 13) Set "Rounding up/down of the unit digits of AMOUNT" as "No".
- 14) Set "Lowest digit entering limitation of item" as "Arbitrary".
- 15) Set "Lowest digit entering limitation of payment" as "Arbitrary".
- 16) Set "Difference memory" as "No".
- 17) Set "Rounding of foreign currency for EX" as "Round off (4-DOWN, 5-UP)". (EURO Regulation)

Note:

- a) This JOB cannot set below additional EURO function automatically.  
Below items must be set by each PGM JOB after this job.
  - (1) EX1 RATE
  - (2) "CHECK, CREDIT operation for EX1 Yes/No "
- b) When the unit price is converted, the rounding method of EURO currency is fixed as "Round off (4-DOWN, 5-UP)".  
[EURO Regulation]

## [Selecting type and its action]

Current status (A) :

CURRENT STATUS (A)	Selected STATUS		
	(B)	(C)	(D)
1) General Z1 report	ISSUE	ISSUE	ISSUE
2) General Z2 report	ISSUE	ISSUE	ISSUE
3) GT1/2/3	—	CLEAR	CLAER
4) Convert the unit price of DEPT/PLU	—	CONVERTING	CONVERTING
5) Convert the HALO amount and HALO digits	—	CONVERTING	CONVERTING
6) EX1 AMOUNT PRINTING FOR TOTAL AND CHANGE	"YES"	"YES"	"NO"
7) EX1 CALCULATTION METHOD	"DIVISION"	"MULTI."	"MULTI."
8) Domestic currency symbol	—	[EURO]	[EURO]
9) Domestic TAB	—	"2"	"2"
10) EX1 currency symbol	[EURO]	The Current "Domestic currency symbol"	—
11) EX1 TAB	"2"	The Current "Domestic TAB"	—
12) Rounding SYSTEM (Denmark/Sweden/Normal)	—	"Normal"	"Normal"
13) Rounding up/down of the unit digits of AMOUNT	—	"No"	"No"
14) Lowest digit entering limitation of item	—	"Arbitrary"	"Arbitrary"
15) Lowest digit entering limitation of payment	—	"Arbitrary"	"Arbitrary"
16) Difference memory	—	"No"	"No"
17) Rounding of foreign currency for EX	"ROUND OFF (4DOWN-5UP)"	"ROUND OFF (4DOWN-5UP)"	"ROUND OFF (4DOWN-5UP)"

Marked "—" is remaining the current data.

**Current status (B):**

CURRENT STATUS (B)	Selected STATUS	
	(C)	(D)
1) General Z1 report	ISSUE	ISSUE
2) General Z2 report	ISSUE	ISSUE
3) GT1/2/3	CLEAR	CLAER
4) Convert the unit price of DEPT/PLU	CONVERTING	CONVERTING
5) Convert the HALO amount and HALO digits	CONVERTING	CONVERTING
6) EX1 AMOUNT PRINTING FOR TOTAL AND CHANGE	"YES"	"NO"
7) EX1 CALCULATTION METHOD	"MULTI."	"MULTI."
8) Domestic currency symbol	[EURO]	[EURO]
9) Domestic TAB	"2"	"2"
10) EX1 currency symbol	The Current "Domestic currency symbol"	[SPACE]
11) EX1 TAB	The Current "Domestic TAB"	—
12) Rounding SYSTEM (Denmark/Sweden/Normal)	"Normal"	"Normal"
13) Rounding up/down of the unit digits of AMOUNT	"No"	"No"
14) Lowest digit entering limitation of item	"Arbitrary"	"Arbitrary"
15) Lowest digit entering limitation of payment	"Arbitrary"	"Arbitrary"
16) Difference memory	"No"	"No"
17) Rounding of foreign currency for EX	"ROUND OFF (4DOWN-5UP)"	"ROUND OFF (4DOWN-5UP)"

Marked "—" is remaining the current data.

**Current status (C):**

CURRENT STATUS (C)	Selected STATUS	
	(C)	(D)
1) General Z1 report		ISSUE
2) General Z2 report		ISSUE
3) GT1/2/3		—
4) Convert the unit price of DEPT/PLU		—
5) Convert the HALO amount and HALO digits		—
6) EX1 AMOUNT PRINTING FOR TOTAL AND CHANGE		"NO"
7) EX1 CALCULATTION METHOD		"MULTI."
8) Domestic currency symbol		[EURO]
9) Domestic TAB		"2"
10) EX1 currency symbol		[SPACE]
11) EX1 TAB		—
12) Rounding SYSTEM (Denmark/Sweden/Normal)		—
13) Rounding up/down of the unit digits of AMOUNT		—
14) Lowest digit entering limitation of item		—
15) Lowest digit entering limitation of payment		—
16) Difference memory		—
17) Rounding of foreign currency for EX		"ROUND OFF (4DOWN-5UP)"

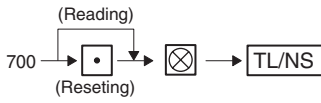
Marked "—" is remaining the current data.

# ELECTRONIC JOURNAL REPORT

This job is own to print and clear EJ memory in X1/Z1 mode and OPXZ mode.

## [Key sequence]

- 1) Reading and resetting of all records :  
[OPXZ, X1/Z1 mode]



- 2) Reading of the latest 10 records :  
[OPXZ, X1/Z1 mode]



## [ACTION]

It prints all or parts of printing data in EJ memory.  
The printing format is same as each operation.

It is able to print and clear the EJ memory at general Z1 report by PGM mode programming.

In that case, the contents of EJ memory is printed just after issued general Z1 report.

(Issuing general Z1 report → Clear daily DEPT & TRANS memory → Issuing EJ memory → Clear EJ memory)

## [Report cancel function]

It can be cancelled by turned the mode switch to MGR position while EJ data is printed. (In this case, the contents of EJ memory are not cleared.)

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