

# SHARP PROGRAMMING MANUAL

CODE : 00ZXEA212VPME



## ELECTRONIC CASH REGISTER

### MODEL **XE-A212**

(For "V" version)

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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.

# 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 STORED PROGRAMS

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)
Programming report 2	2 → (TL)
Auto key programming report	1 → (TL)
Printer density programming report	3 → (TL)
Department programming report	4 → (TL)
PLU programming report	Start PLU code → (⊗) → End PLU code → (PLU/SUB)

Note: To stop reading programming report, turn the mode switch to the MGR position.

### ■ SAMPLE PRINTOUTS

#### 1. Programming report 1

*PGM*	Mode	
F01 (→)	006	Function no.& its text
	-2.00	Function parametrs (B-D)
F02 %	000	Discount amt. w/sign
L 15.00%	-10.25%	Function parametrs (B-D)
F03 DIFFER		Percent rate with sign
F04 TAX1 ST		Percent limit
F05 TAX2 ST		
F06 TAX3 ST		
F07 TAX4 ST		
F08 VAT 1		
F09 VAT 2		
F10 VAT 3		
F11 VAT 4		
F12 NET1		
F13 NET2		
F14 REFUND		
F15 s		
F16 s MODE		
F17 MGR s		
F18 SBTL s		
F19 BILL CNT		
F20 NO SALE		
F21 ***PBAL		
F22 ***NBAL		
F23 GUEST		
F24 ORDER TL		
F25 PAID TL		
F26 AVE.		
F27 O-P		
F28 ***RA	9	Entry digit limit
F29 ***PO	9	
F30 CASH	008	Function parameters (A-C)
F31 CHECK1	018	
F32 CHECK2	008	
F33 CARD1	008	
F34 CREDIT2	008	
F35 EXCH1	102	
US \$	0.939938	Foreign currency symbol/Rate
F36 EXCH2		

F74	COPY	
F75	BILL	
F76	EJ	
F77	EJ END	
	SHARP	Logo Message
	PRESENTS THE	
	XE-A212	
	SHARP	
	IS	
	THE BEST	
#5	00000100	Function selection for miscellaneous keys (A-H)
#6	11000111	Print format (A-H)
#7	00000000	Receipt print format(A-H)
#8	0010	EURO system settings (A-D)
#10	0060	Power save mode(A-D)
#11	3	Logo message print format
#12	01	Automatic EURO modification operation settings (AB)
#13	01/07/2005	Date setting for EURO modification operation
#14	10:00	Date setting for EURO modification operation
#15	00000000	Time setting for EURO modification operation
#30	000001	PLU level shift and GLU function parameters
#31	0	
#32	06	
#33	002 013	*Job code #30 to #35 are fixed settings, for which you cannot change the settings.
#35	007	
T1	-----	
T2	4.0000%	Tax rate
	0.12	Min. taxable amount
T3	-----	
T4	-----	
C#01	DAVID	Clerk code/name
C#02	CLERK 02	
C#19	CLERK 19	
C#20	CLERK 20	

## 2 Programming report 2

<b>*PGM*</b>		
#61	00100112	Job code
#62	01000000	
#63	01000001	A to H from the left
#64	00000000	* Job code #65, 70, 71, 72, 76, 77 and 95 are fixed settings, for which you cannot change the settings.
#65	00000000	
#66	10011100	
#67	00000010	
#68	00100002	
#69	00101000	
#70	00000000	
#71		
GT2	*0000000000.00	
#72		
GT3	*0000000000.00	
#76	Z1 0000	
#77	Z2 0000	
#85	*	
#86	20	Training clerk specification
#87	**TRAINING**	Training mode text
#88	0	Language selection
#90	0	EJ memory type
#95	50	

## 3 Printer density programming report

<b>*PGM*</b>		
#50	50	Entered value Printer density
10	: 0123456789AB	Printing density example
20	: 0123456789AB	
30	: 0123456789AB	
40	: 0123456789AB	
50	: 0123456789AB	
60	: 0123456789AB	
70	: 0123456789AB	
80	: 0123456789AB	
90	: 0123456789AB	

## 4 Department programming report

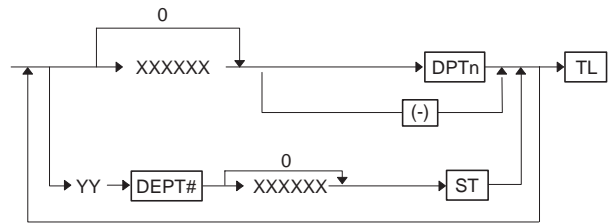
<b>*PGM*</b>				
Dept. code	D01	T1	083	Dept. function
Dept. text	FRUIT		10.00	Dept. unit price w/sign
	D02	T1	183	
	DEPT. 02		-13.10	Minus department
	D03	T1	083	
	DEPT. 03		1.50	Tax status
	D49	T1	081	
	DEPT. 49		0.00	
	D50	T1	081	
	DEPT. 50		0.00	

## 5 PLU programming report

<b>*PGM*</b>			
	0001-0015	Range	
PLU code	P0001 (03)	0	Mode parameter
PLU text	MELON	1.25	Unit price
	P0002 (01)	1	
	PLU. 0002	2.15	
	P0003 (32)	1	
	PLU. 0003	-0.15	Associated dept. code
	PLU. 0014	1.00	
	P0015 (01)	1	
	PLU. 0015	1.50	

## 2. USER PROGRAMMING

### 1) PRICE PROGRAMMING FOR DEPT.& (-) KEYS



YY: Department Code (01-50)

XXXXXX: Unit price (Max. 6 digits)

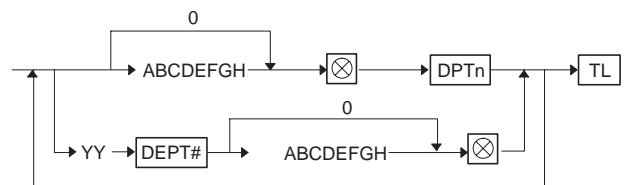
If a price is set for a department which amount entry type is "INHIBIT" or "OPEN", its amount entry type is set as below automatically.

"PRESET" ← "INHIBIT"

"OPEN & PRESET" ← "OPEN"

MRS = 0

### 2) DEPT FUNCTION PROGRAMMING



YY: Department code (01-50)

A: Taxable 4	A
No	0
Yes	1

B: Taxable 3	B
No	0
Yes	1

C: Taxable 2	C
No	0
Yes	1

D: Taxable 1	D
No	0
Yes	1

E: REGISTRATION TYPE	E
NORMAL	0
SICS	1

F: SIGN	F
+	0
-	1

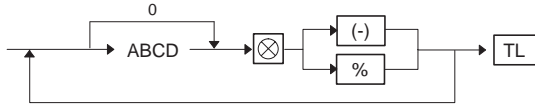
G: LIMITATION DIGITS = 0 to 8

0 : OPEN PRICE REGISTRATION INHIBIT.

H:	AMOUNT ENTRY TYPE	H
	Inhibited	0
	Open only	1
	Preset only	2
	Open & Preset	3

MRS = 00010081  
(TAXABLE 1, NORMAL, SIGN (+) HALO = 8, OPEN)

### 3) (-) & % KEY FUNCTION PROGRAMMING



A:	SIGN	A
	+	0
	-	1

B:	ENTRY FOR ITEM	B
	ENABLE	0
	DISABLE	1

C:	ENTRY FOR SBTL	C
	ENABLE	0
	DISABLE	1

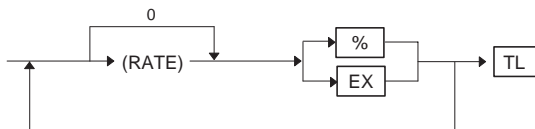
D: LIMITATION DIGITS (for (-) key) = 0 to 8

0 : OPEN PRICE REGISTRATION INHIBIT (for (-) KEY)

0 : FIXED for [%]

MRS = 1008 (SIGN (-), ITEM&SBTL, HALO=8)

### 4) RATE PROGRAMMING FOR % AND EXCHANGE KEY



(RATE): XXX.XX: Rate for % (0.00-100.00)

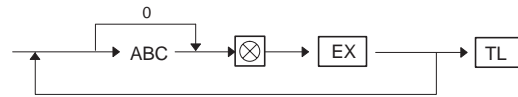
XXX.XXXXXX: Rate for EXCHANGE (0.000000-999.999999)

The DECIMAL POINT must be entered for setting the decimal digits.

MRS = 0.00 (%)

0.000000 (EXCHANGE)

### 5) PROGRAMMING FOR EXCHANGE



A:	OPEN RATE ENTRY	A
	ENABLE	0
	DISABLE	1

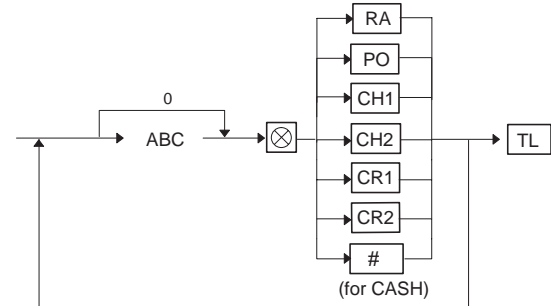
B:	PRESET RATE ENTRY	B
	ENABLE	0
	DISABLE	1

C:	TAB	C
	0	0
	0.0	1
	0.00	2
	0.000	3

MRS = 002

### 6) PROGRAMMING FOR MEDIA KEYS & FUNCTION KEYS

([#] key is used for programming of CASH.)



A:	Footer print on Receipt	A
	No	0
	Yes	1

(0 FIXED for RA/PO)

B:	Entry of amount tenderd	B
	Non-compulsory (Cash, Check) / Inhibit (Credit)	0
	Compulsory	1

(0 FIXED for RA/PO)

C: LIMITATION DIGITS (0 = INHIBIT)

= 0 to 8 (for CA,CH,CR)

= 0 to 9 (for RA,PO)

MRS = 008 (CA,CH1, CH2, CR1,CR2)

= 009 (RA,PO)

## 7) DATA PROGRAMMING FOR PLU

There are programmed by below key sequence.

The PLU code is increment automatically when one programming data of a PLU is set.

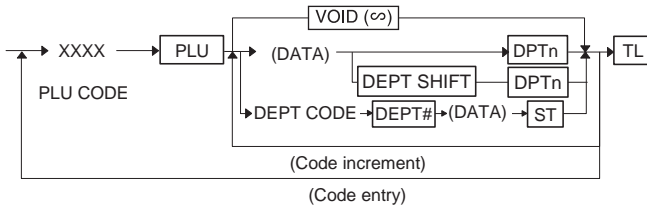
And it is operated continuously until depressing the [TL] key.

The JOB is automatically finalized when a maximum PLU code is programmed.

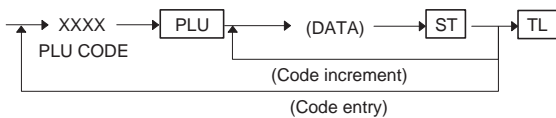
### (Basic programming sequence)

Basic operation consists of below 2 kinds.

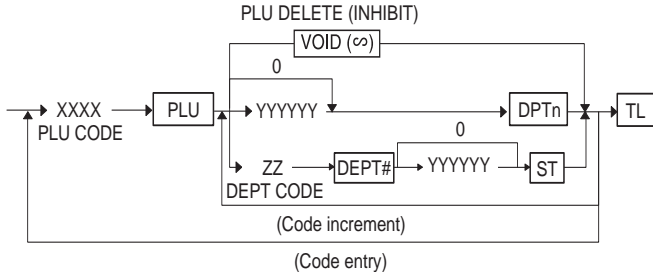
<Associate Dept & Price Entry>



<Parameter data Entry>



## 8) PROGRAMMING OF DEPARTMENTS TO BE ASSOCIATED WITH PRICE PRESET



XXXX: PLU CODE (1~1200)

ZZ: DEPT CODE (1~50)

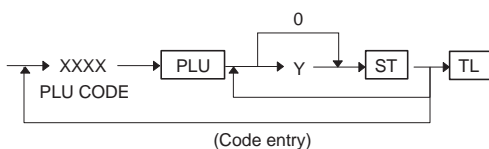
YYYYYY: UNIT PRICE (6 degits)

DELETE means to be set as a inhibited PLU in memory.

When it is assigned some DEPT for the inhibited (deleted) PLU, the PLU is set the MRS value except its price.

MRS = DEPT1, Price: 0 (Create: PLU001 to PLU1200)

## 9) PROGRAMMING OF PLU/SUBDEPT

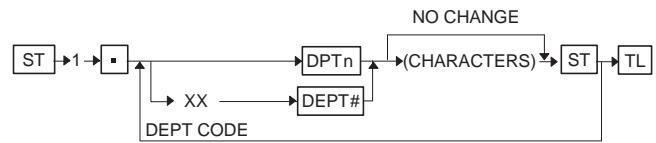


XXXX: PLU CODE (1~1200)

Y: 0 = SUBDEPT, 1 = PLU

MRS = 1 (PLU type)

## 10) PROGRAMMING OF DEPARTMENT TEXT



XX: Department Code (01-50)

(CHATACTERS): CHARACTER (Max. 16 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:

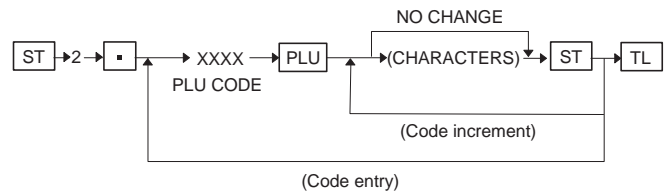
YYY → [00] KEY

YYY: CHARACTER CODE (3 DIGITS)

( or [000] KEY ACCORDING TO PGM PRESET)

MRS = DEPT.xx (xx:DEPT Code)

## 11) PROGRAMMING OF PLU TEXT



XXXX: PLU CODE (1-1200)

(CHARACTERS): CHARACTER (Max. 16 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:

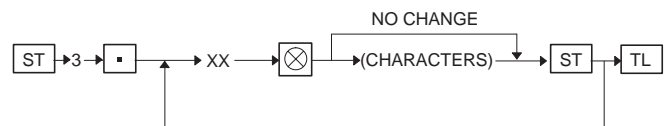
YYY → [00] KEY

YYY: CHARACTER CODE (3 DIGITS)

( or [000] KEY ACCORDING TO PGM PRESET)

MRS = PLU.xxxx (xxxx: PLU code)

## 12) PROGRAMMING OF FUNCTION TEXT



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

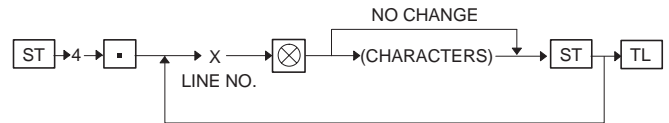
## ■ FUNCTION LIST

F-NO.	FUNCTION	DEFAULT TEXT
1	(-)	(-)
2	%	%
3	DIFFER	DIFFER
4	TAXABLE1 ST	TAX1 ST
5	TAXABLE2 ST	TAX2 ST
6	TAXABLE3 ST	TAX3 ST
7	TAXABLE4 ST	TAX4 ST
8	VAT/TAX 1	VAT 1
9	VAT/TAX 2	VAT 2
10	VAT/TAX 3	VAT 3
11	VAT/TAX 4	VAT 4
12	NET1	<b>NET1</b>
13	NET2	<b>NET2</b>
14	REFUND	REFUND
15	VOID	∞
16	VOID MODE	∞ MODE
17	MANAGER VOID	MGR ∞
18	SBTL VOID	SBTL ∞
19	BILL COUNTER	BILL CNT
20	NO SALE	NO SALE
21	PBAL	***PBAL
22	NBAL	***NBAL
23	CUSTOMER (TRANS.COUNT)	GUEST
24	ORDER TOTAL	ORDER TL
25	PAID TOTAL	PAID TL
26	AVERAGE	AVE.
27	ORDER TL - PAID TL	<b>O-P</b>
28	RA	***RA
29	PO	***PO
30	CASH	<b>CASH</b>
31	CHECK	CHECK1
32	CHECK2	CHECK2
33	CREDIT1	CREDIT1
34	CREDIT2	CREDIT2
35	EXCHANGE (PRESET RATE)	EXCH1
36	EXCHANGE (OPEN RATE)	EXCH2
37	EXCHANGE1 CHECK	EX1 CHK
38	EXCHANGE1 CREDIT TOTAL	EX1 CR
39	CASH IN DRAWER	****CID
40	CASH/CHECK IN DRAWER	CA/CH ID
41	CHECK CHANGE	CHK/CG
42	DOMESTIC CURRENCY1	DOM.CUR1
43	DOMESTIC CURRENCY2	DOM.CUR2
44	DOMESTIC CURRENCY FOR EX1 CHECK	DOM.CUR1
45	DOMESTIC CURRENCY FOR EX1 CREDIT	DOM.CUR1
46	CHECK IN DRAWER	*CH ID
47	(+) DEPT TOTAL	*DEPT TL
48	(-) DEPT TOTAL	DEPT(-)
49	NET 1 (TAXABLE1-VAT1)	NET 1
50	NET 2 (TAXABLE2-VAT2)	NET 2
51	NET 3 (TAXABLE3-VAT3)	NET 3

DEFAULT TEXT

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

### 13) PROGRAMMING OF LOGO TEXT



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)

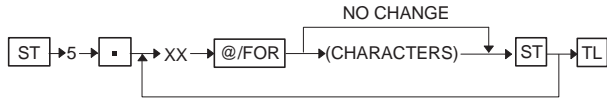
(Sample)

123456789012345678901234

MRS =

**SHARP**  
PRESENTS THE  
**XE-A212**  
**SHARP**  
**IS**  
**THE BEST**

### 14) PROGRAMMING OF CLERK NAME



XX: CLERK NO. (1-20)

(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:.

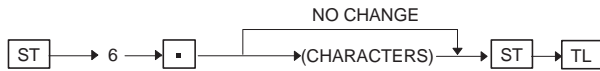
YYY → [00] KEY

YYY : CHARACTER CODE (3 DIGITS)

( or [000] KEY ACCORDING TO PGM PRESET)

MRS = CLERKxx (xx:clerk no.)

### 15) FOREIGN CURRENCY SYMBOL PROGRAMMING



(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)

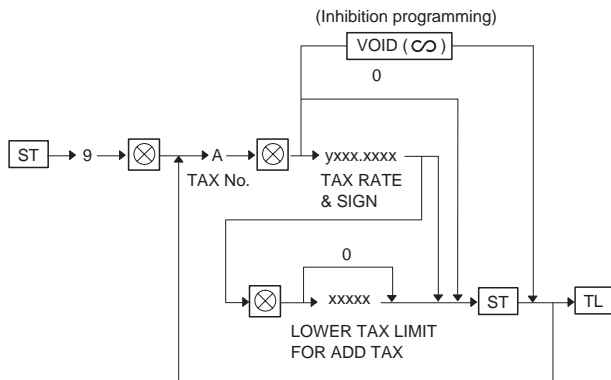
( or [000] KEY ACCORDING TO PGM PRESET)

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.

### 16) TAX RATE PROGRAMMING



A: TAX 1 PROGRAMMING = 1

TAX 2 PROGRAMMING = 2

TAX 3 PROGRAMMING = 3

TAX 4 PROGRAMMING = 4

Y: SIGN	Y
+	0
-	1

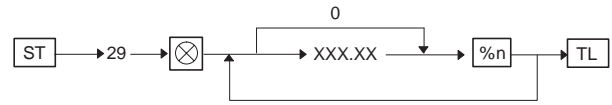
XXX.XXX: RATE = 0.0000 to 100.0000 %

LOWER TAX LIMITATION 0.00 to 999.99

(This is invalid in VAT system.)

MRS = DELETE

### 17) RATE HALO PROGRAMMING FOR % KEY

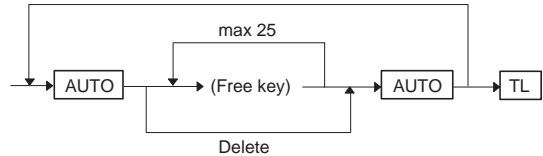


XXX.XX: % HALO (0.00 -- 100.00)

The DECIMAL POINT must be entered for setting the decimal digits.

MRS = 100.00 (%)

### 18) 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

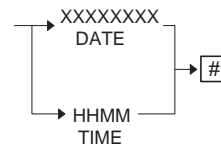
Setting mode : PGM

### 19)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.

### 20) DATE/TIME PROGRAMMING



DATE) XXXXXXXX: YYYYMMDD or DDMMYYYY or MMDDYYYY

(YYYY: 2000-2099)

(MM: 01-12)

(DD: 01-31)

The date entry format complies with PGM-mode.

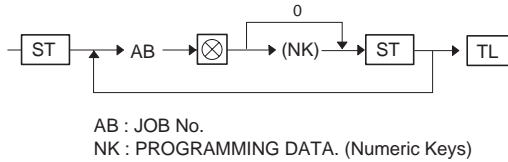
TIME) HH: Hour (00 to 23)

MM: Minute (00 to 59)

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

TIME: 0000

**21) VARIOUS PROGRAMMING  
(Programming Sequence)**



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

MRS = 000000

**[JOB#2] CONSECUTIVE No. (4digits) -- XXXX --**

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 Moter is not driven.

PGM/OPXZ/XZ mode : Journal Rewind Moter 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 = 3

A:	LOGO MESSAGE CONTROL	A
	3-LINE HEADER INSTEAD OF GRAPHIC LOGO	0
	6-LINE HEADER	3
	3-LINE HEADER AND 3-LINE FOOTER	5

1, 2 and 4 setting is not used.

**[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]**

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#30] RS-232C TERMINAL No. -- XXXXXX --**

MRS = 000001

XXXXXX : Terminal number

**[JOB#31] RS-232C TRANSMISSION -- A --**

MRS = 0

A: Transmission line form	A
Full duplex system	0
Half duplex system	1

**[JOB#32] RS-232C FUNCTION SELECTING -- AB --**

MRS = 06

A: Not used (Fixed at "0")

B: RS-232C Baud rate	B
2400bps	3
4800bps	4
9600bps	5
19200bps	6

Data value "2/1/0" is reserved.

Note: The value of baud rate is used at Online communication  
It is not used at Data back up function.

**[JOB#33] RS-232C PROGRAMMING -- XXXYYY --**

MRS = 002013

XXX: Start code (000-127)

YYY: End code (000-127)

**[JOB#35] RS-232C 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: Receipting 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 = 00000000

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

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

Other cases :

Unit Digit of Amount < or = Value of (D) → Rownding Down  
 Value of (D) < Unit Digit of Amount < Value of (C) → Rownding to 5  
 Value of (C) < or = Unit Digit of Amount → Rownding 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
	ARBITRARY	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
	ARBITRARY	0
	0 ONLY	1
	0 AND 5 ONLY	2

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

MRS = 00100011

A: Not used (Fixed at "0")

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 "HEADER 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

**[JOB#69] OTHERS9 PROGRAMMING -- ABCDEFGH --**

MRS = 00101000

A:	GC receipt (bill) print on journal	C
	No	0
	Yes	1

B: Not used (Fixed at "0")

C:	ECR data copy BAUD RATE (BPS)	C
	9600	0
	19200	1

D:	Rounding of foreign currency for Exchange	D
	Raising to unit	0
	Round off (4-DOWN,5-UP)	1

E:	TAX SYSTEM	E
	AUTO TAX1-4	0
	AUTO VAT1-4	1
	MANUAL VAT1-4	2
	MANUAL VAT1	3
	MANUAL TAX1-4	4
	AUTO VAT1 & AUTO TAX 2-4	5

F:	TAX PRINTING WHEN TAXABLE SUBTOTAL IS ZERO	F
	No	0
	Yes	1

G:	TAX PRINTING WHEN TAX IS ZERO	G
	Yes	0
	No	1

H:	ROUNDING SYSTEM	H
	NORMAL	0
	SWEDEN	1
	DENMARK	2

**[JOB#70] OTHERS10 PROGRAMMING -- ABCDEFGH --**

MRS = 00000000

A,B,C,D,E,F,G,H: Not used (Fixed at "00000000")

**[JOB#71] GT2 PROGRAMMING -- XXXXXXXXXXXXXX --**

MRS = 00000000000000

XXXXXXXXXXXXXXXX : GT (13digits)

**[JOB#72] GT3 PROGRAMMING --- XXXXXXXXXXXXXX --**

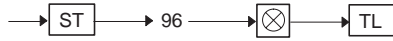
MRS = 00000000000000

XXXXXXXXXXXXXXXX : GT (13digits)

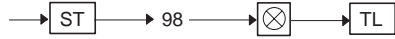


**28) RAM DATA BACKUP FUNCTION (ECR ↔ ECR ; 01FD/02FD PROTOCOL)**

**28-1) Sending ECR RAM data**

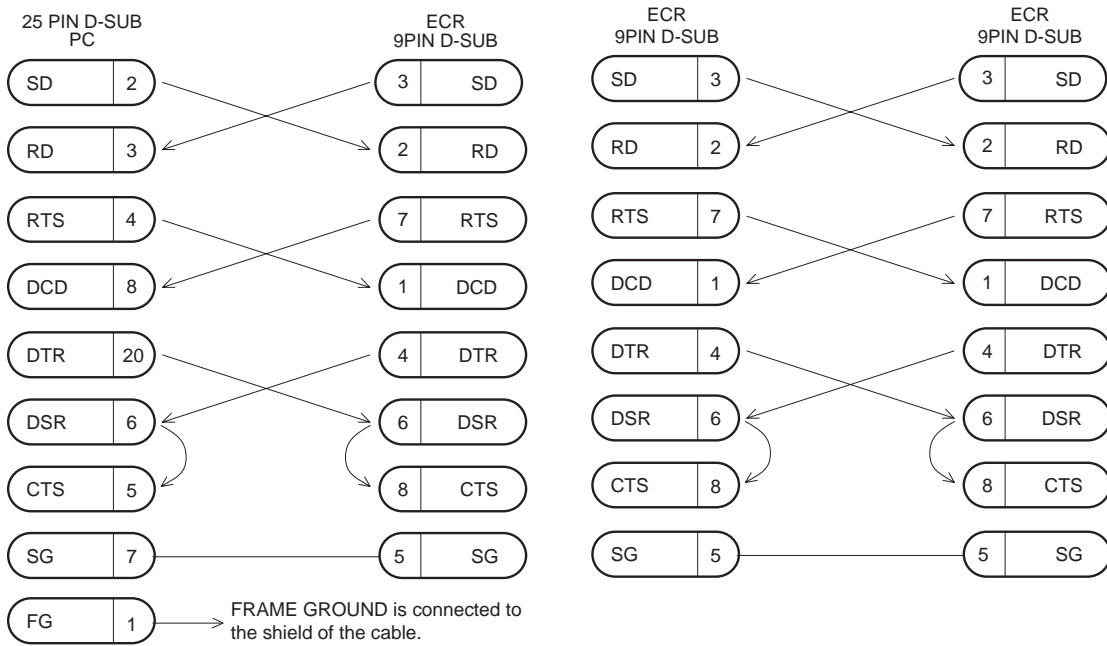


**28-2) Receiving ECR RAM data**



Note: Baud-rate is decided by PGM programming JOB.It is not support auto baud-rate function.

**28-3) [Signal connection chart]**



- SD : TRANSMITTED DATA
- RD : RECEIVED DATA
- DTR: DATA TERMINAL READY
- DSR: DATA SET READY
- RTS: REQUEST TO SEND
- DCD: DATA CARRIER DETECTOR
- CTS: CLEAR TO SEND
- FG : FRAME GROUND

The 9Pin-9Pin cable is supported as the standard cable with ECR.s

# 4. CHARACTER ASSIGNMENT METHOD

## ■ PROGRAMMING KEY LAYOUT

↑	(ESC)	â	à	á	è	è	é	î	ì	í	ô	ò	ó	À	Ñ	(BACK SPACE)
Æ	ø	û	ù	ú	!	?	#	\$	%	&	'	^	©	Ç	α	=
Pt	œ	⊗	•	CL	1	2	3	4	5	6	7	8	9	0	[ { ]	]
§	£	7	8	9	Q	W	E	R	T	Y	U	I	O	P	@	/ -
(	)	4	5	6	A	S	D	F	G	H	J	K	L	ß	; +	: *
“	”	1	2	3	Z	X	C	V	B	N	M	Ä	Ö	Ü	<	>
(SHIFT)	(DC)	0	00		ST	TL	(SPACE)	(SPACE)	(SPACE)	(SPACE)	(SPACE)	(SPACE)	(SPACE)	(SPACE)	(DC)	(SHIFT)

## ■ THE METHOD OF CHARACTER ENTRY AT TEXT PROGRAMMING

Please refer operation manual about detail operations.

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 "ABCABC".

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

CODE	CHARACTER	CODE	CHARACTER	CODE	CHARACTER	CODE	CHARACTER	CODE	CHARACTER
001	á	049	1	098	b	147	ù	196	Ğ
002	â	050	2	099	c	148	à	197	ğ
003	ê	051	3	100	d	149	Æ	198	Ƙ
004	î	052	4	101	e	150	φ	199	ƙ
005	ì	053	5	102	f	151	Å	200	ƀ
006	í	054	6	103	g	152	π	201	ı
007	ô	055	7	104	h	153	é	202	Ž
008	ó	056	8	105	i	154	è	203	Đ
009	û	057	9	106	j	155	Pt	204	đ
010	ú	058	:	107	k	156	ı	205	Ć
011	œ	059	;	108	l	157	Ñ	206	ć
012	Û	060	<	109	m	158	Õ	207	€
013	ú	061	=	110	n	159	£	208	P
014	ö	062	>	111	o	160	¥	209	`
015	ó	063	?	112	p	161	◦	210	ě
016	Λ	064	@	113	q	162	Γ	211	š
017	Ψ	065	A	114	r	163	J	212	č
018	Γ	066	B	115	s	164	、	213	ž
019	..	067	C	116	t	165	.	214	ý
020	Ω	068	D	117	u	166	T <sub>1</sub>	215	ù
021	Δ	069	E	118	v	167	T <sub>2</sub>	216	ň
022	Θ	070	F	119	w	168	T <sub>3</sub>	217	ˇ
023	Ξ	071	G	120	x	169	T <sub>4</sub>	218	˘
024	Π	072	H	121	y	170	1 <sub>2</sub>	219	ř
025	Σ	073	I	122	z	171	1 <sub>3</sub>	220	
026	Υ	074	J	123	{	172	1 <sub>4</sub>	221	
027	Φ	075	K	124		173	2 <sub>3</sub>	222	
028	Û	076	L	125	}	174	2 <sub>4</sub>	223	
029	Ú	077	M	126	ß	175	3 <sub>4</sub>	224	*
030	Ö	078	N	127	ç	176	☐	225	§
031	Ó	079	O	128	!!	177	Á	226	∅
032	(Space)	080	P	129	1	178	Ī	227	^
033	!	081	Q	130	2	179		228	↑
034	"	082	R	131	3	180	Ā	229	]
035	#	083	S	132	4	181	ā	230	[
036	\$	084	T	133	1/2	182	Ē	231	¨
037	%	085	U	134	F <sub>T</sub>	183	ē	232	ä
038	&	086	V	135	←	184	ī	233	ö
039	'	087	W	136	→	185	î	234	ü
040	(	088	X	137	∞	186	ū	235	æ
041	)	089	Y	138	∞	187	ū	236	á
042	*	090	Z	139	▶	188	Ŋ	237	É
043	+	091	Ä	140	◀	189	η	238	ñ
044	,	092	Ö	141	F	190	Č		
045	-	093	Ü	142	T	191	Š		
046	.	094	^	143	↓	192	ç		
047	/	095	_	144	ç	193	Ī		
048	0	096	`	145	◦	194	Ğ		
		097	a	146	ı	195	Ş	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	CODE	CHARACTER	CODE	CHARACTER	CODE	CHARACTER	CODE	CHARACTER
001	á	049	1	098	b	147	ù	196	(Space)
002	â	050	2	099	c	148	à	197	(Space)
003	ê	051	3	100	d	149	Æ	198	(Space)
004	î	052	4	101	e	150	φ	199	(Space)
005	ì	053	5	102	f	151	À	200	(Space)
006	(Space)	054	6	103	g	152	□	201	(Space)
007	ô	055	7	104	h	153	é	202	Ž
008	ó	056	8	105	i	154	è	203	(Space)
009	û	057	9	106	j	155	Pt	204	(Space)
010	ú	058	:	107	k	156	ı	205	(Space)
011	(Space)	059	;	108	l	157	Ñ	206	ć
012	Û	060	<	109	m	158	Õ	207	€
013	ú	061	=	110	n	159	(Space)	208	P
014	ö	062	>	111	o	160	¥	209	(Space)
015	ó	063	?	112	p	161	.	210	ě
016	Λ	064	@	113	q	162	[	211	š
017	Ψ	065	A	114	r	163	]	212	č
018	Γ	066	B	115	s	164	,	213	ž
019	(Space)	067	C	116	t	165	(Space)	214	ý
020	Ω	068	D	117	u	166	(Space)	215	ù
021	Δ	069	E	118	v	167	(Space)	216	ň
022	Θ	070	F	119	w	168	(Space)	217	˘
023	Ξ	071	G	120	x	169	(Space)	218	(Space)
024	Π	072	H	121	y	170	(Space)	219	ř
025	Σ	073	I	122	z	171	(Space)	220	(Space)
026	Υ	074	J	123	{	172	(Space)	221	(Space)
027	Φ	075	K	124		173	(Space)	222	(Space)
028	Û	076	L	125	}	174	(Space)	223	(Space)
029	Ú	077	M	126	ß	175	(Space)	224	*
030	Ö	078	N	127	¢	176	(Space)	225	(Space)
031	Ó	079	O	128	!	177	Á	226	∅
032	(Space)	080	P	129	1	178	(Space)	227	^
033	!	081	Q	130	2	179	(Space)	228	(Space)
034	"	082	R	131	3	180	(Space)	229	]
035	#	083	S	132	4	181	(Space)	230	[
036	\$	084	T	133	(Space)	182	(Space)	231	(Space)
037	%	085	U	134	(Space)	183	(Space)	232	ä
038	&	086	V	135	←	184	(Space)	233	ö
039	'	087	W	136	→	185	(Space)	234	ü
040	(	088	X	137	(Space)	186	(Space)	235	æ
041	)	089	Y	138	(Space)	187	(Space)	236	â
042	*	090	Z	139	▶	188	(Space)	237	É
043	+	091	Ä	140	◀	189	(Space)	238	ñ
044	,	092	Ö	141	F	190	Č		
045	-	093	Ü	142	T	191	Š		
046	.	094	^	143	(Space)	192	ç		
047	/	095	_	144	ç	193	İ		
048	0	096	`	145	•	194	(Space)		
		097	a	146	ı	195	Ş	253	(DC)

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

(DC): Double Code

 : ECR Control Character (Not used for text)

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

In general, 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 sales totals at that point.

### [Operation]

In the table below those reports marked with a circle "O" can be executed.

#### PRINTING REPORT

REPORT NAME	KEY ENTRY	MODE						DATA FOR READING	
		OPX/Z		X1/Z1		X2/Z2			
		X	Z	X1	Z1	X2	Z2		
GENERAL	TL			○	○	○	○		*1, *6
PLU BY RANGE	PLU			○	○			PLU CODE	*1, *2
CRERK (ALL)	CLK#			○	○				*1
CRERK (INDIVIDUAL)	CLK#	○	○						*1, *3
HOURLY (ALL)	#			○	○				*1
GLU	GLU			○	○				*1
GLU (CLERK)	CRI			○	○				*1
BALANCE	RA			○					*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]	○							*4

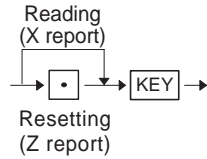
#### OTHERS OPERATION

	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

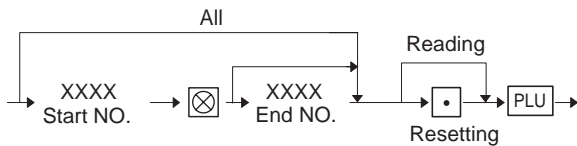
MODE: X : Daily operator X report Z : Daily operator Z report  
 X1 : Daily X report Z1 : Daily Z report  
 X2 : Periodic X report Z2 : Periodic Z report  
 (X report): The corresponding data is held in the ECR.  
 (Z report): The corresponding data is cleared in the ECR.

- 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 does not print any GT on X reports.

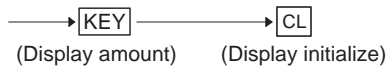
\*1 To read respective reports, it is necessary to follow the procedure below.



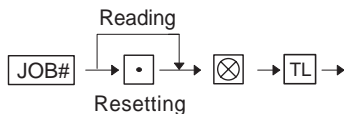
\*2 PLU code range can be specified by entering the start and end numbers according to the following procedure.  
When specifying a single PLU code, the start number has only to be entered.



- \*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..

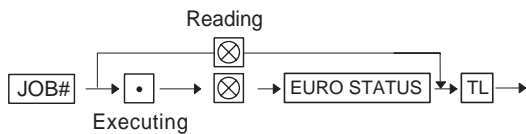


\*5 To read respective contents, it is necessary to follow the procedure below.



\*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

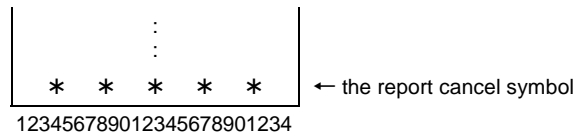
Each report prints a MODE TITLE at a header of report.  
The Report Titles are as follows.

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.)

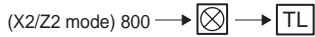
<Print sample of Report cancel>



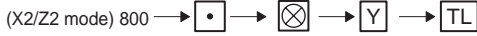
# CHANGING EURO FUNCTION (Z2 MODE JOB)

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 and Training GT	—	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 digitsof 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 and Training GT	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 digitsof 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 and Training GT		—
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 digitsof 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)"

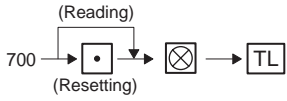
Marked "—" is remaining the current data.

# 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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