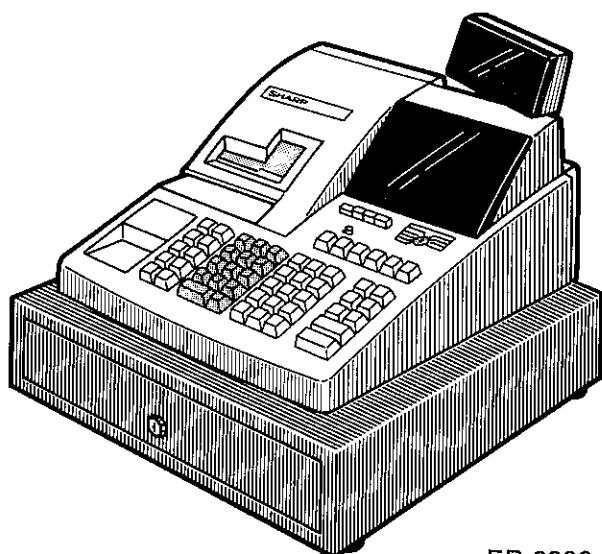


SHARP SERVICE MANUAL

CODE: 00ZER2396ASM1

ER-2396

ELECTRONIC CASH REGISTER

No. 1: Basic Manual

ER-2386

MODEL ER-2396

PRINTER : UCR-802A (ER-2396)

: UCR-812A (ER-2386)

SRV KEY : LKGIM7113RCZZ

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SHARP CORPORATION

This document has been published to be used
for after sales service only.
The contents are subject to change without notice.

1. REFERENCE DOCUMENTS

No.	Description	Manual code
1	ER-2386/2396 Service manual No.1	00ZER2396ASM1
2	ER-2396 Service manual No. 2	00ZER2396ASM2
3	ER-2386 Service manual No. 3	00ZER2386ASM3
4	CR-802A/812A Service manual	00ZCR812ASM-E
5	ER-2386 instruction manual	
6	ER-2396 instruction manual	

2. BLOCK DIAGRAM

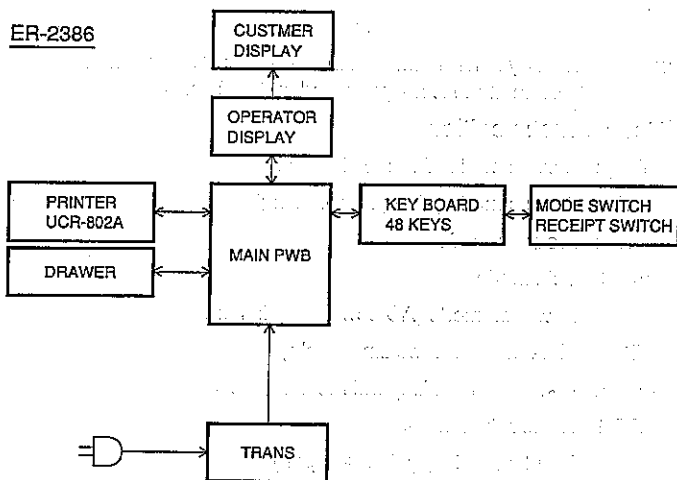


Fig. 2-1

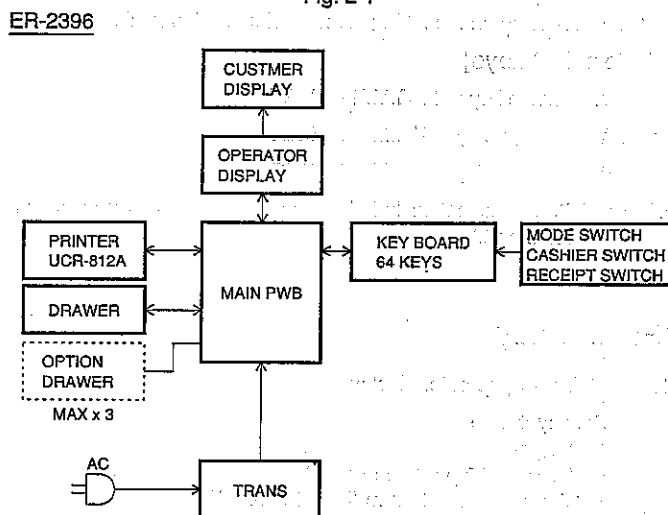


Fig. 2-2

3. SPECIFICATIONS

3-1. Appearance

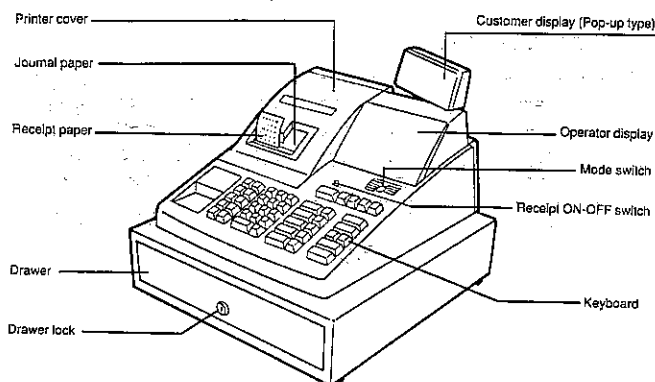
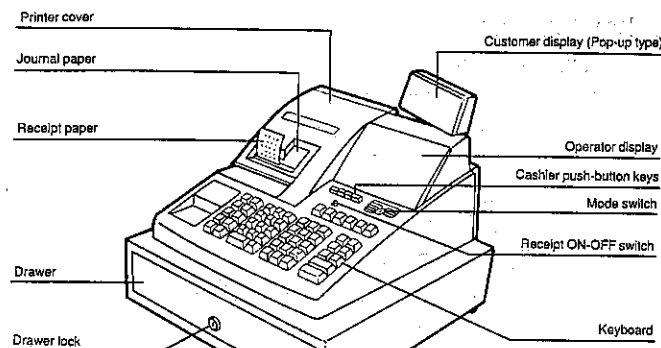


Fig. 3-1

ER-2386



ER-2396

Fig. 3-2

2-2. Rating

[Specifications]

Power source	AC LOCAL VOLTAGE (±10%), 60Hz
Power consumption	Standby 10W, Max. 42W (ER-2396), 35W (ER-2386)
Ambient temperature, humidity	0 ~ 40°C
External dimensions (Including the drawer)	405(W) × 425(D) × 286(H) mm: For ER-2386 405(W) × 425(D) × 296(H) mm: For ER-2396
Weight	12kg: For ER-2386 12.5kg: For ER-2396

3-3. Keyboard

(1) Standard key layout

ER-2386

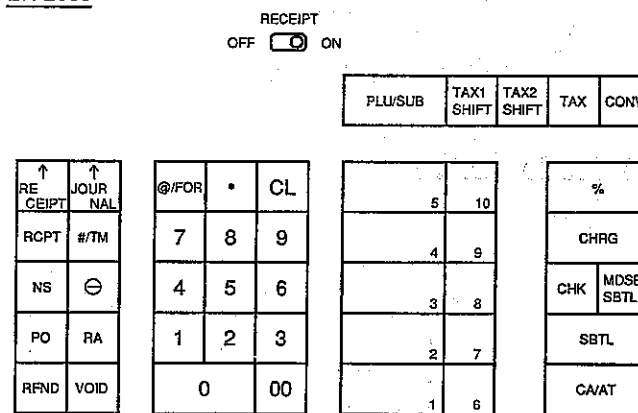


Fig. 3-3

ER-2396

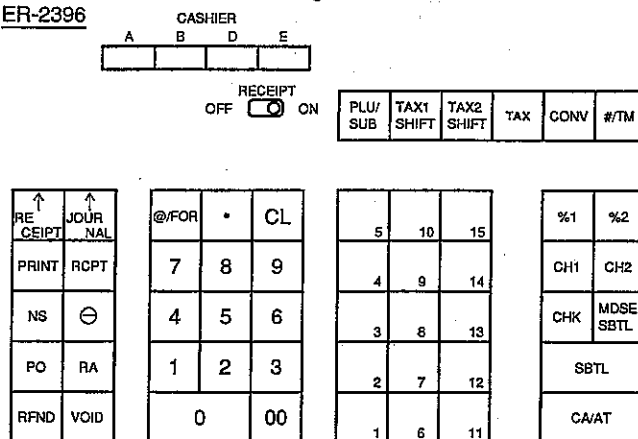


Fig. 3-4

(2) Key top name**① ER-2386 & ER-2396**

- 0** **00** ~ **9** : Numeric keys
. : Decimal point key
CL : Clear key
@/FOR : Multiplication key
VOID : Void key
RFND : Refund key
RA : Received on account key
PO : Paid out key
⊖ : Discount key
NS : No sale key
#/TM : Non-add code/Time key
RCPT : Receipt print key
↑ **RECEIPT** **↑** **JOURNAL** : Paper feed keys (Receipt & Journal)
TAX1 **SHIFT** **TAX2** **SHIFT** : Tax 1, Tax 2 shift keys
TAX : Manual tax key
CONV : Currency conversion key
MDSE SBT **L** : Merchandise subtotal key
CHK : Check key
SBTL : Subtotal key
CA/AT : Cash amount tender key
PLU/SUB : PLU/SUB dept. code entry key

② Only ER-2386

- 1** ~ **10** : Department keys
% : Percent key
CHRG : Charge key

③ Only ER-2396

- PRINT** : Validation print key
1 ~ **15** : Department keys
%1 ~ **%2** : Percent 1 & 2 keys
CH1 ~ **CH2** : Charge 1 & 2 keys

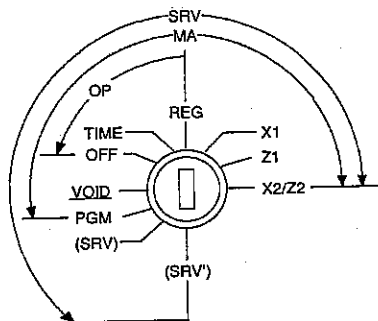
3-4. Mode switch**① ER-2386**

Fig. 3-6

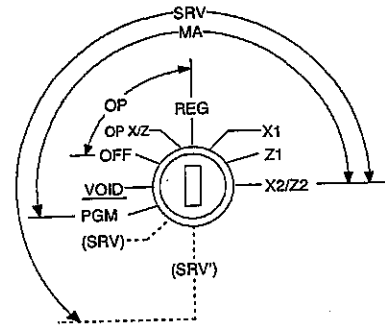
② ER-2396

Fig. 3-7

- Note: 1. The key can be removed in the REG or OFF position.
 2. Service mode is not prompted on the display.

[Mode switch positions]

- SRV1: Service mode (To reset the timer)
 SRV: Service mode (SRV programming)
 PGM: Program mode
 VOID: Void mode
 OFF: Power off mode (AC power remains on)
 TIME: Time mode (Allows time display)
 OP X/Z: Clerk sales reading and resetting mode
 REG: Registration mode
 X: Reading of daily sales (X report)
 Z: Resetting of daily sales (Z report)
 X2/Z2: Reading and resetting of any periodic sales totals

[Mode select keys]

- SRV: Service keys: LKGIM7113RCZZ
 MA: Manager key: LKGIM7110RCZZ
 OP: Operator key: LKGIM7111RCZZ

NOTE: SRV key is not included in the accessories. (Supplied as service part.)

3-5. Display**1) Front display (Operator display)**

- ① Display device
 • 9 digits
 • 7 segment type (Green color)
 • Character size: 10 mm (H) × 4.5 mm (W)

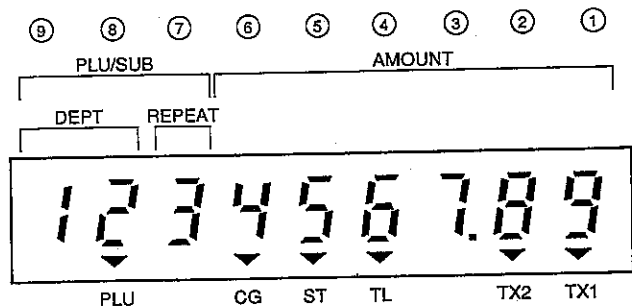
② Layout**ER-2386**

Fig. 3-8

ER-2396

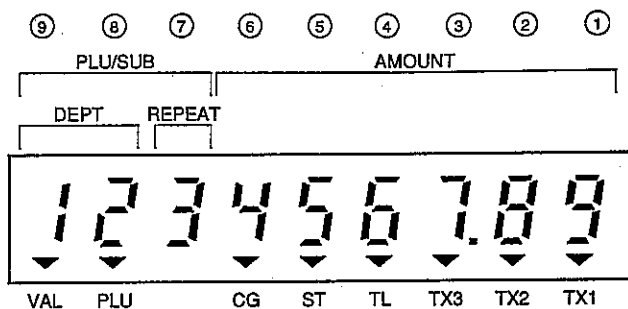


Fig. 3-7

2) Rear display (Customer display [Pop-up type])

① Display device

- 6 digits
- 7 segment type (Green color)
- Character size: 10 mm (H) × 4.5 mm (W)

② Layout

ER-2386

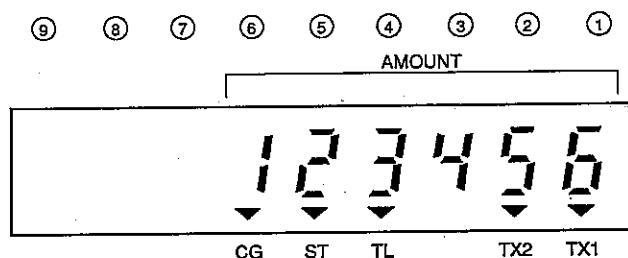


Fig. 3-8

ER-2396

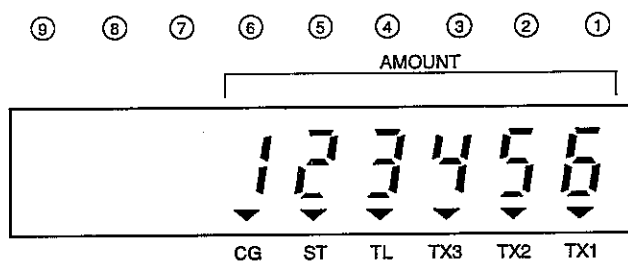


Fig. 3-9

3) Usage of the digits

Display	No. of Digits	Used Digits	Pattern
Numeric number	Max. 7	1 ~ 7	"0 123456789"
Symbol		4 ~ 8	"-" Minus sale registrations
		9	"E" error
		9	"P" program mode
		9	"a" Sub-total or short tender
		9	"L" Sub-total in conversion
Decimal point		3	TAB
Dept. No.		8 ~ 9	Zero-suppressed
PLU. No.		8 ~ 9	Zero-suppressed
Repeat		7	Endless count, starting from 2
Time		3 ~ 9	"A 10-25"

(3) Indicator lamps

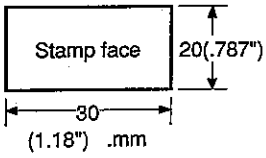
Lamp	Meaning
VAL	Lights up when the machine is programmed for validation print "Compulsory" (For ER-2396)
PLU	Lights up when a PLU entry is made.
CG	Lights up when the change due amount is displayed.
ST	Lights up when the subtotal is displayed.
TL	Lights up when direct finalization is made.
TX1	Lights up when a registration using taxable 1 is made.
TX2	Lights up when a registration using taxable 2 is made.
TX3	Lights up when a registration using taxable 3 is made. (ER-2396 only)

3-6. Printer UCR-802A (ER-2386)
UCR-812A (ER-2396)

(1) Printer

1. Printing system : Print wheel selective type 2 sheets
2. Print column : 20 char. in total
 - (1) Journal side : 10
 - (2) Receipt side : 10
3. Dimensions of printing character (mm) : Ordinary type 1.7(W) × 3.2(H) mm
Large type 2.4(W) × 3.2(H) mm
Spacing 3.35mm Between 1st and 2nd column
3mm After 3rd column
5.1mm Between lines
4. Printing speed : Approx. 2.6 lines/sec.
5. Paper feed : Approx. 18 lines/sec.
(Receipt issue quick feed)
6. Functions : (1) Stamping
(2) Validation printing only CR-812A, UCR-812A 20 column/1 line
(3) Receipt ON-OFF and Journal select
(4) Individual R/J paper feeding
7. Roll paper : 44.5±0.5mm (W)
83φmm (Max. Diameter)
(DPAPR1006CSZZ)
8. Paper quality : 0.06 ~ 0.09mm (Thickness)
52.3 ~ 64.0g/m²
9. Reliability : MCBF 2 million lines
10. Ink roller : NR0LR6638RCZZ
Color Purple
Life 0.6 million lines

(2) Logo stamp

Type	Porous rubber
Stamp colour	Purple alone
Max. printable size	30(W) × 20(H) mm 
Stamp pattern (standard)	One of the following is provided as standard depending on the destination: VIELEN DANK, THANK YOU, MERCI, MUCHAS GRACIAS, DANK U, TACK, THANK YOU/DANKIE.
Replenishment ink	UINK-1001CCZZ (For stamp only)

**(3) Print wheel layout UCR-802A (UCR-802A),
UCR-812A (UCR-812A)**

Part code : 00BM712002260

Price rank : BK

	10	9	8	7	6	5	4	3	2	1
0	PL	Z	TX	•	•	•	•	GT	CA	@
1	—	—	—	—	—	—	—	#	CK	1
2	★	★	★	★	★	★	★	%	CH	2
3										
4	0	0	0	0	0	0	0	0	A	TD
5	1	1	1	1	1	1	1	1	B	CG
6	2	2	2	2	2	2	2	2	D	RA
7	3	3	3	3	3	3	3	3	E	PO
8	4	4	4	4	4	4	4	4	TX	ST
9	5	5	5	5	5	5	5	5	T	TL
10	6	6	6	6	6	6	6	6	⊖	Q
11	7	7	7	7	7	7	7	7	X	VD
12	8	8	8	8	8	8	8	8	EX	NS
13	9	9	9	9	9	9	9	9	RF	1/2

Fig. 3-9

**(4) Validation slip specification
(For only, UCR-812A)**

- 1) Type of paper used:
 - i) Normal paper
 - ii) Pressure sensitive paper
 - iii) Carbon paper
- 2) Width: More than 115mm
- 3) Copying and paper thickness
 - ① No copy (normal paper only)

Normal paper: 0.09 to 0.19mm
(basis weight: 82 to 157g/m²)
 - ② Normal paper + copying paper

Normal paper (thick paper) : 0.09 to 0.19mm
(basis weight: 82 to 157g/m²)

Pressure sensitive paper : 0.08mm

Carbon paper : 0.03mm

Normal paper (thin paper) : 0.06mm
(basis weight: 47g/m²)

Combination of the above papers is available up to a total thickness of 0.25mm. However, for normal paper (thick paper), be sure to use only one sheet.
- 4) Printing position

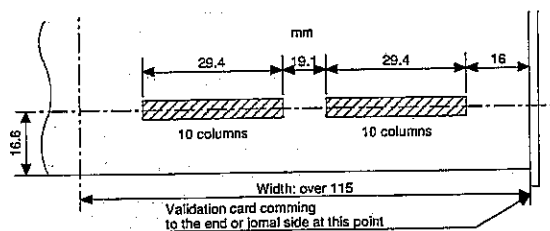


Fig. 3-10

3-7. Drawer/Lock

(1) Drawer

- Metallic drawer
- The micro switch can be installed as a service option.
- DRAWER LOCK KEY
(0DL1HL-C168K/)

LOCK: 90° clockwise

UNLOCK: 90° counter clockwise

■ Drawer lock key

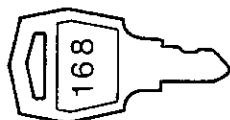


Fig. 5-11

(2) Basic specification for drawers

Specs.	*Country	U.S.A.,	
		Standard	Remote
Compartment		5B/5C	5B/5C
Bill separator		x	x
Coin sub case		x	x
Micro switch		△	○
Drawer bell		△	○

* See destination code table for country name.

○ : Standard feature

△ : Optionally available

x : Not available

(COMPARTMENT LAYOUTS)

1-1) 5B/5C

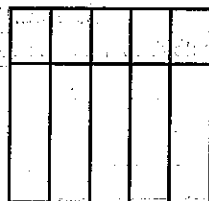


Fig. 5-12

3-8. Functional Differences Between ER-2386 and ER-2396

Function	ER-2386	ER-2396
No. of departments	10 (Max 15)	15 (Max 30)
Cashier keys	NO	4 cashier keys
No. of charge keys	1	2
No. of percent keys	1	2
Validation printing function	NO	YES
Additional drawers (option)	NO	YES
Reporting function:		
Individual cashier records	NO	YES
All cashier records	NO	YES
Hourly sales records	YES	YES
ALL PLU-basis sales records	YES	YES
Partial PLU-basis sales records	YES	YES
Sales records on all items	YES	YES
Periodic consolidated records of daily net sales	YES	YES
Periodic consolidated records on all items	YES	YES
Department share printing	YES	YES

4. SPECIAL SERVICE TOOLS

No.	Parts code	Price	Description
1	LKGIM7113RCZZ	AK	Service key
2	UKOG-6634RCZZ	AX	Key top remover
3	UKOG-6678RCZZ	AX	Main PWB extension cable
4	UKOG-6679RC22	AG	Key board extension cable for ER-2386 (22 pin)
5	UKOG-6679RC15	AG	Key board extension cable for ER-2386 (15 pin)

5. OPTIONS

5-1. Options

No.	NAME	MODEL	DESCRIPTION
1	Key top kit	ER-11KT6	1 x 1 key top kit
		ER-12KT6	1 x 2 key top kit
		ER-22KT6	2 x 2 key top kit
		ER-11DK6	1 x 1 Dummy key kit
		ER-51DK6	1 x 5 Dummy key kit
2	Option Battely	ER-20BT2	Not for U.S.A.

5-2. Service options

No.	NAME	PARTS CODE	ER-2386	ER-2396	DESCRIPTION
1	Remote drawer	GB0XD7090RCZZ	x	○	*Remote drawer drive kit required
2	Drawer open sensor kit	DKIT-3396RCZZ	○	○	
3	Drawer fixing kit	DKIT-8633RCZZ	○	○	
4	Shield plate kit	DKIT-3381RCZZ	x	○	
5	SRV key	LKGIM7113RCZZ	○	○	
6	Key cover	GC0VB6985RCZZ	○	○	
7	Bell kit	DUNT-9290RCZZ	○	○	
8	Remote drawer drive kit	DKIT-8323RC01	x	○	
9	OP key grip cover	LKGIM7126RCZZ	○	○	
10	4-Pin connector cable	QCNCW6922RC03	x	○	
11	5-Pin connector cable	QCNCW6922RC04	x	○	

5-3. Supplies

No.	NAME	PARTS CODE	DESCRIPTION
1	Ink	UINK-1001CCZZ	5 cc
2	Ink roller	NROLR6638RCZZ	Purple
3	Roll paper	DPAPR1006CSZZ	5 rolls

6. SRV/PGM preset print outs

6-1. Reading SRV mode setting

1) Full item report on the SRV mode programming.

JOB #900

(Key operation)

900 → [@/FOR] → [CA/AT]

① ER-2386

② ER-2396

```

          900#

901 0002
902 0005
903 0000
904 1000
905 0000
906 0021
907 0000
908 0000
909 0000
910 0000
911 0000
912 0000
913 0004
914 0000
915 0000
916 0000
917 0000
918 2333
919 3677
920 1235

Z1 0000
Z2 0000
1      GT
*000000
0000.00
2      GT
*000000
0000.00
3      GT
-000000
0000.00

12-00
000-0001
  
```

```

          900#

901 0022
902 0000
903 0000
904 1500
905 0005
906 0020
907 0000
908 0000
909 0000
910 2000
911 0000
912 0000
913 1004
914 0002
915 0000
916 0000
917 0000
918 2033
919 0000

12-00
000-0001B
  
```

2) Key layout report (For ER-2396)

JOB #950

(Key operation)

950 → @/FOR → CA/AT

950 #

1	09
2	10
3	11
4	12
5	13
6	16
7	17
8	18
9	19
10	20
11	23
12	24
13	25
14	26
15	27
16	--
17	--
18	--
19	--
20	--
21	--
22	--
23	--
24	--

25	--
26	--
27	--
28	--
29	--
30	--
31	15
32	22
33	29
34	--
35	01
36	05
37	07
38	--
39	41
40	46
41	44
42	36
43	39
44	40
45	45
46	03
47	43
48	06
49	02
50	04
51	08
52	48

12-00
000-00020

6-2. Reading of PGM-mode programming

1) Reading of departments programming.

JOB #110

Key operation

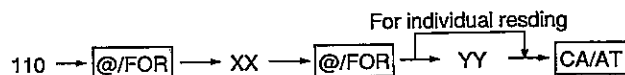
① ER-2386: 110 → @/FOR → CA/AT

YOUR RECEIPT		
THANK YOU		
02-26-91		
110#		Job code no.
		Dept. no.
01 TX 0001		Tax 4 status/tax 3 status/tax 2 status/tax 1 status
95 03		HALO limit
10.00		Unit price
02 TX 0000		
94 03		Functional programming
5.00		
03 TX 0010		
17 03		
7.00		
08 TX 0000		
17 03		
2.00		
09 TX 0000		
17 03		
1.40		
10 TX 0010		
17 03		
-2.50		
* 3-14		
123-1043		

Type of unit price entry
 Open and preset: 3
 Preset only: 2
 Open only: 1
 Inhibit: 0

SICS: 1/Normal: 0

② ER-2396:



XX: Start dept. No.

YY: End dept. No.

02-26-91	
110#	Job code no.
01 TX 0001	Dept. no.
95 0003	Tax 4 status/tax 3 status/tax 2 status/tax 1 status
10.00	HALO limit
02 TX 0000	Unit price
94 0003	Functional programming
5.00	
03 TX 0000	
17 0003	
0.00	
04 TX 0000	
17 0001	
0.00	
13 TX 0000 17 0001 0.00 14 TX 0000 17 0001 0.00 15 TX 0000 17 0001 0.00	
* 6-52 123-1042 A	

0003

Type of unit price entry
 Open and preset: 3
 Preset only: 2
 Open only: 1
 Inhibit: 0

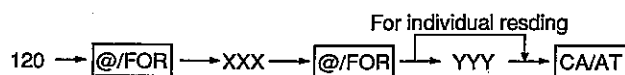
SICS: 1/Normal: 0

Validation printing compulsory: 1/
 non-compulsory: 0

Type of department
 Hash: 1
 Normal: 0

2) Reading of programmed items for PLUs/subdepartments

JOB#120



XXX: Start No.

YYY: End No.

① ER-2386

YOUR RECEIPT	
THANK YOU	
02-26-91	
120#	
PL001	PLU no.
TX 0001	Tax 4 status/tax 3 status/tax 2 status/tax 1 status
102	
1.25	Unit price
PL002	
TX 0000	
102	102
-1.50	Associated dept no.
PL003	
TX 0001	
101	
0.50	PLU mode
	Subdept: 2/PLU: 1/Prohibit: 0
PL008	
TX 0010	
104	
1.00	
PL009	
TX 0000	
106	
5.00	
PL010	
TX 0000	
106	
7.15	
* 5-17	
123-1068	

02-26-91	
120#	
PL001	PLU no.
TX 0001	Tax 4 status/tax 3 status/tax 2 status/tax 1 status
102	
1.25	Unit price
PL002	
TX 0000	
102	102
1.50	Associated dept. no.
PL003	PLU mode
TX 0000	Delete: 3/Subdept: 2/PLU: 1/Prohibit: 0
101	
0.00	
PL004	
TX 0000	
101	
0.00	
PL009	
TX 0000	
101	
0.00	
PL010	
TX 0000	
101	
0.00	
* 7-12	
123-1046A	

3) Programming of % rates and others function report.

JOB #130

130 → @/FOR → CA/AT

① ER-2386

YOUR RECEIPT
THANK YOU

02-26-91

130#

TX 0001 — Tax 4 status/tax 3 status/tax 2 status/tax 1 status

10.00% — Percent rate

1.325 EX — Conversion rate

TX 0010

13 ①

16 TX — HALO limit

15 RA

15 PD

0 CH

15 0 CH — Compulsory amount tendering: 1

16 1 CK — Non-compulsory amount tendering: 0

14 CK CG — HALO for check change

0000103

0000103

Time printing format

In receipt and journal: 3

In Journal only: 2

In receipt only: 1

No print in receipt and journal: 0

Journal printing format

Total: 1, detail: 0

After-transaction receipt printing format

Total: 1, detail: 0

Refund in REG-mode

Disallow: 1, allow: 0

Direct void in REG-mode

Disallow: 1, allow: 0

Indirect void in REG-mode

Disallow: 1, allow: 0

Subtotal void in REG-mode

Disallow: 1, allow: 0

7.0000 TX 1

1.00

001 0.11

002 0.22

003 0.36

004 0.51

005 0.65

006 0.79

007 0.93

008 1.08

009 1.22

Tax 1 table

4.0000 TX 2

0.12

Tax 2 rate (% tax)

Lowest taxable amount

5.0000 TX

0.20

Tax 3 rate (% tax)

Lowest taxable amount

7.0000 TX

4.10

Tax 4 rate (% tax)

Lowest taxable amount

* 1-03

123-1178

02-26-91

130#

TX 0001 ————— Percent 1 tax status

10.00% 1 ————— Percent rate

TX 0000

-15.00% 2

1.325 EX ————— Conversion rate

TX 0000 ————— Coupon tax status

13 0 ————— Coupon HALO limit

17 TX

18 1 RA ————— RA HALO and validation compulsory

18 0 PD ————— PD HALO and validation non-compulsory

000 CA

18 000 CH 1

15 001 CH 2

18 000 CK

18 CK CG

14 CK 2

1 Q

30

00000003

001

Compulsory amount tendering: 1
Non-compulsory amount tendering: 0

Validation print compulsory: 1, optional: 0

Change enable: 0, disable: 1

Validation printing counter

Time limit

Optional feature selection (#256)

7.0000 TX 1

1.00

1 0.11

2 0.22

3 0.36

4 0.51

5 0.65

6 0.79

7 0.93

8 1.08

9 1.22

Tax table

4.0000 TX 2

0.12

Tax rate

5.0000 TX

0.20

Tax rate

--- VD

TX

No programming

Cashier no.

1 1

2 1

3 1

4 1

Drawer no.

* 9-18

123-1440A

7. SERVICE (SRV) MODE PROGRAMMING

The service key (LKGIM7113RCZZ) is required for service mode operation.

7-1. Reset operations

The following 2 types of resets are provided.

(1) Master reset

This reset procedure resets the CPU and clears memory.

[KEY OPERATION]

- 1) Place the mode switch to the SRV2 position (6 o'clock).
- 2) Depress and hold down the journal feed key and turn the mode switch to the SRV1 position (7 o'clock).
- 3) Release the journal feed key.
- 4) Enter 90 and CA/AT key "9 0" → CA/AT (For ER-2386)
- 5) The printout "----- A" will occur on the journal tape.

(2) Program reset (Loop reset).

These reset procedures reset the CPU, but do not clear the memory. Date and time must be re-entered after a program reset is performed.

[KEY OPERATION]

Method 1:

- 1) Place the mode switch to the SRV2 position (6 o'clock).
- 2) Turn the mode switch to the SRV1 position (7 o'clock).
- 3) The print out "----- B" will occur on the journal tape.

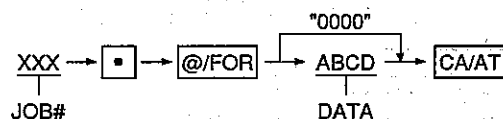
Method 2:

- 1) Unplug the AC cord.
- 2) Place the mode switch in the PGM position.
- 3) Depress and hold down the Journal and Receipt feed keys, and plug in the register.
- 4) The print out "----- B" will occur on the journal tape.

7-2. SRV mode programming

(1) Programming procedure

Key operation



(2) SRVI mode JOB# table

JOB#	Function	
	ER-2386	ER-2396
901	• TAB setting	• TAB setting
902	• Taxable 4 TTL (X/Z) print • Tax Amount print • GST EXPT print • TAX METHOD	• Till Timmer Enable/Disable
903	• Tax 4 shift key setting • Tax 3 shift key setting	• Not used
904	• Number of department	• Number of department
905	• Not used	• Taxable 4 TTL (X/Z) print
906	• Split pricing counting • Split pricing function	• Hash programming in PGM mode • Split pricing counting • Split pricing function
907	• Void mode function	• Void mode function
908	• GT1, 2 and 3 print in Z ₁ /Z ₂ general report • GT1 print on X ₁ general report • Reset GT1 after Z ₁ report is printed	• GT1, 2 and 3 print in Z ₁ /Z ₂ general report • GT1 print on X general report • Calculate the VOID mode transaction to the HOURLY TOTAL • Resetting GT1 after Z ₁
909	• Zero skip in TRANSACTION/DEPT/PLU report printing • Zero skip in Hourly report	• Zero skip in TRANSACTION/DEPT/PLU report printing • Zero skip in Hourly report
910	• Not used	• Individual cashier sales total
911	• Fraction treatment	• Fraction treatment
912	• Data print format • Time format	• Data print format • Time format
913	• Printing of MDSE SBTL • Printing of the number of purchased item • Lock error beep, key buffer • Drawer closing operation • Error system, key catch sound	• VP format • Printing of MDSE SBTL • Printing of the number of purchased item • Lock error beep, key buffer • Drawer closing operation • Error system, key catch sound
914	• Receipt issue at no sale entry • Tax delete • No sale after a non-add code entry • Manual TAX	• Receipt issue at no sale entry • Tax delete • No sale after a non-add code entry • Manual TAX • CHECK/CASHING
915	• Not used	• Not used
916	• Entry which causes the subtotal to be smaller than zero • Subtotaling before tendering • Net sales subtotal in X/Z report • CHECK CHANGE TOTAL in X/Z report	• Negative MDSE ST • Entry of SBTL key before finalization of a transaction • Coupon PLU total in X/Z report • Net sales subtotal in X/Z report • CHECK CHANGE TOTAL in X/Z report
917	• Taxable TTL (X/Z) print	• Taxable TTL (X/Z) print
918	• Direct tender • Percent calculation for subtotal • Percent calculation for item registrations • Discount calculation for subtotal • Discount calculation for item registrations	• Direct non-tender finalization during amount tendering • Percent calculation for subtotal • Percent calculation for item registrations • Discount calculation for subtotal • Discount calculation for item registrations
919	• Function key Enable/Disable	• Not used
930	• Z ₁ report counter	• Z ₁ report counter
931	• Z ₂ report counter	• Z ₂ report counter
940	• Upper GT2	• Upper GT2
941	• Lower GT2	• Lower GT2
942	• Upper GT3	• Upper GT3
943	• Lower GT3	• Lower GT3
950	• Not used	• Free key layout

(3) Data to be programmed

Note: "MRS = XXXX" shows the initial preset values (same as the values after master resetting.)

X	X	X	X	(☆ and ★ mark is MRS setting)
A	B	C	D	☆: ER-2386
				★: ER-2396

(4) Programming procedure

[JOB #901] ER-2386: MRS = 0002
ER-2396: MRS = 0022

901-A, B: Not used
 901-C: Not used Fixed to "0" (ER-2386)
 Fixed to "2" (ER-2396)

901-D TAB setting

TAB	901-D
0	0
0.0	1
0.00	2
0.000	3

★★

[JOB #902] ER-2386: MRS=0005
ER-2396: MRS = 0000

1. ER-2386

- 902-A: 1. Taxable 4 subtotal on X/Z report: Print or Skip.
 2. Gross Tax 4 and refund Tax 4 total on X/Z report: Print or Skip
 3. Net Tax 4 total on X/Z report: Print or Skip

Taxable 4 subtotal on X/Z report	Gross tax 4 & refund tax 4 total on X/Z report	Net tax 4 total on X/Z report	905-A
Print	Print	Print	0
		Skip	1
	Skip	Print	2
		Skip	3
Skip	Print	Print	4
		Skip	5
	Skip	Print	6
		Skip	7

★

- 902-B: 1. Tax amount printed on receipt when GST is VAT.
 2. Tax amount printed when tax amount is "0".

1. GST for VAT	2. Tax amount at "0"	905-B
Print	Print	0
	Skip	1
Skip	Print	2
	Skip	3

★

902-C: GST EXPT sales is printed on the X/Z reports or skipped.

GST EXPT on the report	905-C
Print	0
Skip	4

★

902-D = Tax method

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

★

2. ER-2396

902-A, B, C: Not used

902-D: Till timer (Drawer open counter) (For ER-2396)

Till timer	902-D
Disable	0
Enable*	2

★

* Must have drawer open sensor kit installed

[JOB #903] ER-2386: MRS = 0000

ER-2396: Not used (Fixed to "0000")

903-A, B: TAX4 shift key location ()

903-C, D: TAX3 shift key location ()

NOTE)

- Key code table

						14	20	26	27	28
↑	↑									
R	J									
01	05					09	15	21	27	30
02	06					10	16	22	28	31
03	07					11	17	23	29	32
04	08					12	18	24		
						13	19	25		

[JOB #904] ER-2386: MRS = 1000
ER-2396: MRS = 1500

904-A, B: Number of departments

ER-2386		ER-2396	
No. of DEPTs	904-A, B	No. of DEPTs	904-A, B
1	1	1	1
2	2	2	2
3	3	2 2	2 2
2 2	2 2	14	14
10	10	15	15
11	11	16	16
12	12	2 2	2 2
13	13		
14	14	29	29
15	15	30	30

★

★

Note: Department key layout for ER-2386

Dept. 1

	1	

Dept. 2

	2	
	1	

Dept. 3

	3	
	2	
	1	

Dept. 4

	4	
	3	
	2	
	1	

Dept. 5

	5	
	4	
	3	
	2	
	1	

Dept. 6

5	6	
	4	
	3	
	2	
	1	

Dept. 7

5	7	
4	6	
	3	
	2	
	1	

Dept. 8

5	8	
4	7	
3	6	
	2	
	1	

Dept. 9

5	9	
4	8	
3	7	
2	6	
	1	

Dept. 10

	5	10
	4	9
	3	8
	2	7
	1	6

Dept. 11

5	6	11
	4	10
	3	9
	2	8
	1	7

Dept. 12

5	7	12
4	6	11
	3	10
	2	9
	1	8

Dept. 13

5	8	13
4	7	12
3	6	11
	2	10
	1	9

Dept. 14

5	9	14
4	8	13
3	7	12
2	6	11
	1	10

Dept. 15

5	10	15
4	9	14
3	8	13
2	7	12
1	6	11

①

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

[JOB #905] ER-2386: Not used (Fixed to "0000")
MRS = 0005

- 905-A: 1. Taxable 4 subtotal on X/Z report: Print or Skip.
2. Gross Tax 4 and refund Tax 4 total on X/Z report: Print or Skip
3. Net Tax 4 total on X/Z report: Print or Skip

Taxable 4 subtotal on X/Z report	Gross Tax 4 & refund tax 4 total on X/Z report	Net tax 4 total on X/Z report	905-A	
Print	Print	Print	0	★
		Skip	1	
	Skip	Print	2	
		Skip	3	
Skip	Print	Print	4	
		Skip	5	
	Skip	Print	6	
		Skip	7	

- 905-B: 1. Tax amount printed on receipt when GST is VAT.
2. Tax amount printed when tax amount is "0".

1. GST for VAT	2. Tax amount at "0"	905-B	
Print	Print	0	★
	Skip	1	
Skip	Print	2	
	Skip	3	

905-C: GST EXPT sales is printed on the X/Z reports or skipped.

GST EXPT on the report	905-C	
Print	0	★
Skip	4	

905-D: Tax method

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

[JOB #906] ER-2386: MRS = 0021**ER-2396: MRS = 0020**

906-A: Not used (Fixed to "0")

906-B: Hash programming in PGM mode (For ER-2396)

Hash programming	906-B
Disallow	0
Allow	2

906-C: 1. Split pricing item quantity count method
2. Split pricing function

1. Split pricing quantity	2. Split pricing function	906-C
Quantity	Disable	0
	Enable	2
Package	Disable	4
	Enable	6

906-D: Not used (Fixed to "0")

[JOB #907] ER-2386: MRS = 0000**ER-2396: MRS = 0000**

907-A, B, C: Not used (Fixed to "000")

907-D: VOID mode function

VOID mode function	907-D
Enable	0
Disable	2

[JOB #908] ER-2386: MRS = 0000**ER-2396: MRS = 0000**908-A 1. Printing of GT1 on Z1/Z2 general report
2. Printing of GT2 on Z1/Z2 general report
3. Printing of GT3 on Z1/Z2 general report

1. GT1 on Z report	2. GT2 on Z report	3. GT3 on Z report	908-A
Print	Print	Print	0
		Skip	1
	Skip	Print	2
		Skip	3
Skip	Print	Print	4
		Skip	5
	Skip	Print	6
		Skip	7

908-B: Printing of GT1 on X general report

GT1 on X report	908-B
No-Print	0
Print	4

908-C: Calculate the VOID mode transaction in the HOURLY TOTAL (For ER-2396)

VOID mode transaction in the HOURLY TOTAL	908-C
Not calculate	0
Calculate	4

908-D: Reset GT1 after Z1 report is printed

Resetting GT1 after Z1	908-D
Disable	0
Enable	1

[JOB #909] ER-2386: MRS = 0000**ER-2396: MRS = 0000**909-A: 1. Zero skip in transaction report printing
2. Zero skip in dept. report printing
3. Zero skip in PLU report printing

1. General report	2. Dept report	3. PLU report	909-A
Skip	Skip	Skip	0
		Print	1
	Print	Skip	2
		Print	3
Print	Skip	Skip	4
		Print	5
	Print	Skip	6
		Print	7

909-B: Zero skip in hourly report printing

Hourly report	909-B
Skip	0
Print	4

909-C, D: Not used (Fixed to "00")

[JOB #910] ER-2386: Not used (Fixed to "0000")**ER-2396: 2000**

910-A: Individual-cashier sales total tax included (For ER-2396)

Individual-cashier sales total	910-A
Net amount	0
Tax included	2

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

[JOB #911] ER-2386: MRS = 0000**ER-2396: MRS = 0000**

911-A: Fraction treatment

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

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

[JOB #912] ER-2386: MRS = 0000**ER-2396: MRS = 0000**

912-A: Date print format

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

912-B: Time print/display format

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

912-C, D: Not used (Fixed to "00")

[JOB #913] ER-2386: MRS = 0004**ER-2396: MRS = 1004**913-A: 1. Validation print format (For ER-2396)
2. Contents of total validation amount (For ER-2396)

1. VP format	2. Contents of total VP	913-A
Date & Amount	Total amount	0
	Tendered amount	1
Machine No. & Amount	Total amount	2
	Tendered amount	3

- 913-B: 1. Printing when the MDSE SBTL key is pressed
2. Printing of the number of purchased item

1. MDSE SBTL	2. Purchased item	913-B
No-Print	Print	0
	No-print	1
Print	Print	2
	No-print	3

★★

- 913-C: 1. Lock error beep
2. Key buffer

1. Lock error beep	2. Key buffer	913-C
Stop after 2 sec.	Clear	0
	Not-clear	1
Continuous	Clear	2
	Not-clear	3

★★

- 913-D: 1. Drawer closing operation
2. Error system
3. Key catch sound

1. Drawer closing operation	2. Error system	3. Key catch sound	913-D
Non compulsory	All lock error	Exist	0
		Not exist	1
	Mis-ope & lock error	Exist	2
		Not exist	3
Compulsory*	All-lock error	Exist	4
		Not exist	5
	Mis-ope & lock error	Exist	6
		Not exist	7

★★

* Must have drawer open sensor kit installed.

[JOB #914] ER-2386: MRS = 0000
ER-2396: MRS = 0002

- 914-A: 1. Receipt issue at no sale entry
2. Tax delete function

1. Receipt issue at NS	2. Tax delete function	914-A
Yes	Disable	0
	Enable	1
No	Disable	4
	Enable	5

★★

- 914-B: No sale after the entry of non-add code entry

No sale after a non-add code entry	914-B
Disable	0
Enable	1

★★

- 914-C: Not used (Fixed to "0")

- 914-D: 1. Manual TAX function
2. CHECK CASHING function (only ER-2396)

For ER-2386

1. Manual TAX function	914-D
Enable	0
Disable	4

★

For ER-2396

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

★

[JOB #915] ER-2386: Not used (Fixed to "0000")
ER-2396: Not used (Fixed to "0000")

[JOB #916] ER-2386: MRS = 0000
ER-2396: MRS = 0000

- 916-A, B: Not used (Fixed to "00")

- 916-C: 1. Negative SBTL entry (only ER-2386)
Negative MDSE SBTL entry (only ER-2396)
2. Subtotaling before tendering

For ER-2386

1. Negative SBTL entry	2. Subtotaling before tendering	916-C
Enable	Non compulsory	0
	Compulsory	2
Inhibit	Non compulsory	4
	Compulsory	6

★

For ER-2396

1. Negative MDSE SBTL entry	2. Subtotaling before tendering	916-C
Enable	Non compulsory	0
	Compulsory	2
Inhibit	Non compulsory	4
	Compulsory	6

★

- 916-D: 1. Print "COUPON PLU TOTAL" on X/Z reports (only ER-2396)
2. Print "NET SALES TOTAL" on X/Z reports
3. Print "CHECK CHANGE TOTAL" on X/Z reports

For ER-2386

2. "NET SALES TOTAL" on X/Z reports	3. "CHECK CHANGE TOTAL" on X/Z reports	916-D
Print	Print	0
	No-print	1
No-print	Print	2
	No-print	3

★

For ER-2396

1. "COUPON PLU TOTAL" on X/Z reports	2. "NET SALES TOTAL" on X/Z reports	3. "CHECK CHANGE TOTAL" on X/Z reports	916-D
Print	Print	Print	0
		No-print	1
	No-print	Print	2
		No-print	3
No-print	Print	Print	4
		No-print	5
	No-print	Print	6
		No-print	7

★

[JOB #917] ER-2386: MRS = 0000
ER-2396: MRS = 0000

- 917-A: 1. Printing Taxable 1 subtotal on X/Z reports
2. Printing gross Tax 1 and refund tax 1 total on X/Z reports
3. Printing Net tax 1 total on X/Z reports

1. Taxable 1 subtotal	2. Gross tax 1 total & refund tax 1 total	3. Net tax 1 total	917-A	
Print	Print	Print	0	★★
		No-print	1	
	No-print	Print	2	
		No-print	3	
No-print	Print	Print	4	
		No-print	5	
	No-print	Print	6	
		No-print	7	

- 917-B: 1. Print taxable 2 subtotal on X/Z reports
2. Print gross tax 2 and refund tax 2 total on X/Z reports
3. Print net tax 2 on X/Z reports

1. Taxable 2 subtotal	2. Gross tax 2 & refund tax 2 total	3. Net tax 2	917-B	
Print	Print	Print	0	★★
		No-print	1	
	No-print	Print	2	
		No-print	3	
No-print	Print	Print	4	
		No-print	5	
	No-print	Print	6	
		No-print	7	

- 917-C: 1. Print taxable 3 subtotal on X/Z reports
2. Print gross tax 3 and refund tax 3 total on X/Z reports
3. Print net tax 3 on X/Z reports

1. Taxable 3 subtotal	2. Gross tax 3 & refund tax 3 total	3. Net tax 3	917-C	
Print	Print	Print	0	★★
		No-print	1	
	No-print	Print	2	
		No-print	3	
No-print	Print	Print	4	
		No-print	5	
	No-print	Print	6	
		No-print	7	

- 917-D: 1. Print gross manual tax and refund manual tax on X/Z reports
2. Print net manual tax on X/Z reports

1. Gross manual tax & refund manual tax	2. Net manual tax	917-D	
Print	Print	0	★★
	No-print	1	
No-print	Print	2	
	No-print	3	

[JOB #918] ER-2386: MRS = 2333
ER-2396: MRS = 2033

- 918-A: 1. Direct finalization after under tendered entry

1. Direct finalization	918-A	
Disable	0	★★
Enable	2	

- 918-B: ER-2386 = Not used (Fixed to "3")
ER-2396 = Not used (Fixed to "0")

- 918-C: 1. Percent calculation for subtotal
2. Percent calculation for item registrations

1. Percent calculation for subtotal	2. Percent calculation for item registrations	918-C	
Disable	Disable	0	★★
	Enable	1	
Enable	Disable	2	
	Enable	3	

- 918-D: 1. Discount calculation for subtotal
2. Discount calculation for item registrations

1. Discount calculation for subtotal	2. Discount calculation for item registrations	918-D	
Disable	Disable	0	★★
	Enable	1	
Enable	Disable	2	
	Enable	3	

[JOB #919] ER-2386: MRS = 3677
ER-2396: Not used (Fixed to "0000")

- 919-A: Non-add code entry key function

key function	919-A	
Disable	1	★
Enable	3	

- 919-B: 1. Currency conversion key function
2. PLU key function
3. %2 and CH2 key function

1. key function	2. key function	3. and key	919-B	
Disable	Disable	Disable	0	
		Enable	1	
	Enable	Disable	2	
		Enable	3	
Enable	Disable	Disable	4	★
		Enable	5	
	Enable	Disable	6	
		Enable	7	

- 919-C: 1. Charge key function
2. Check key function
3. Receipt key function

1. ☐ key function	2. ☐ key function	3. ☐ key function	919-C
Disable	Disable	Disable	0
		Enable	1
	Enable	Disable	2
		Enable	3
Enable	Disable	Disable	4
		Enable	5
	Enable	Disable	6
		Enable	7

☆

- 919-D: 1. No, sale key function
2. PO key function
3. RA key function

1. ☐ key function	2. ☐ key function	3. ☐ key function	919-D
Disable	Disable	Disable	0
		Enable	1
	Enable	Disable	2
		Enable	3
Enable	Disable	Disable	4
		Enable	5
	Enable	Disable	6
		Enable	7

☆

[JOB #930, 931] ER-2386: MRS = 0000

ER-2396: MRS = 0000

#930: Z₁ Report counter MAX = 4 digits

#931: Z₂ Report counter MAX = 4 digits

[JOB #940 ~ 943] ER-2386: MRS = 000000

ER-2396: MRS = 000000

#940: Upper GT2 (Gross GT)

#941: Lower GT2 (Gross GT)

#942: Upper GT3 (Refund GT)

#943: Lower GT3 (Refund GT)

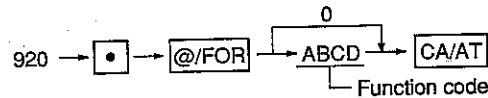
GT1 is obtained by the following equation

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

[JOB #920] ER-2386 only: Limited free key location programming.

MRS = 1235

- Free key layout programming applies to only 6 functions in 4 locations
- Key operation



- Function code list

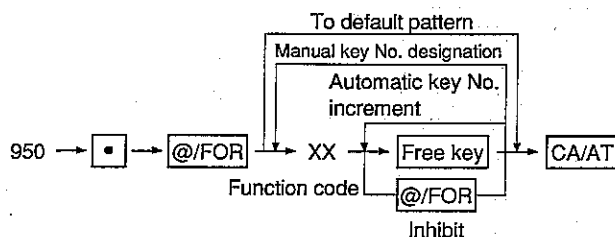
Function Code	Free Key Function Name
1	TAX
2	CONV
3	%1
4	%2
5	CH1
6	CH2

- Key position code list

PLU/SUB	TAX1	TAX2	A	B
			A	C
			B	D

[JOB #950] ER-2396: Free key layout programming

- Free key layout programming applies to all the key except for the journal feed key, receipt feed key, numerics keys, decimal point key, clear key, multiplication key, subtotal key and cash amount tender key.
- Key operation



• Function code list

Function Code	Free Key Function Name
1~30	Department
31	PLU/Subdept
32	Tax 1 shift
33	Tax 2 shift
34	Tax 3 shift
35	Refund
36	Void
37	(-) 1
38	(-) 2
39	%1
40	%2
41	HDSE SBTL
42	TAX
43	Check
44	Charge 1
45	Charge 2
46	NS
47	CONV
48	RA
49	PO
50	PRINT
51	RCPT
52	#/TM
53	TAX4 shift key
99	Open

• Key position code list

↑ RECEIPT	↑ JOURNAL
4	8
3	7
2	6
1	5

@/FOR	•	CL
7	8	9
4	5	6
1	2	3
0	X	00

15	22	29	36	43	48
14	21	28	35	42	47
13	20	27	34	41	46
12	19	26	33	40	45
11	18	25	32	39	44
10	17	24	31	38	SBTL
9	16	23	30	37	CA/AT

8. PROGRAM (PGM) MODE PROGRAMMING

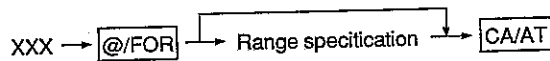
Basic programming format for PGM modes are as follows:

JOB code# → [] → [@/FOR] → (data) → [CA/AT]

- See the descriptions of respective programming procedures given later for job code and data.
- Any program stored in the ECR do not change unless the decimal point key is pressed..

8-1. Printing of program reports

Key entry sequence



List of program reports

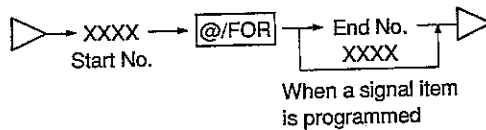
Job code	Report name
110	Department programming
120	PLU/Subdepartment programming
130	Programming of % rates and others functions

★

Range specification for program reports

Those program reports asterisked in the above list requires range specifications. If no range is specified, an error occurs when the CA/AT Key is depressed.

Range specification can be accomplished by using the following procedure.



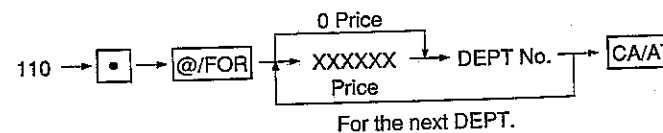
Pressing the CA/AT key prints a report on the receipt and journal.

8-2. JOB CODE LIST

JOB CODE	PROGRAMMING	
	ER-2386	ER-2396
110	DEPT. PRICE	DEPT. PRICE
210	DEPT. TYPE FUNCTION	DEPT. TYPE FUNCTION
211	DEPT. MODIFY	DEPT. MODIFY
212	HALO FOR DEPT	HALO FOR DEPT
120	PLU PRICE	PLU PRICE
121	PLU MODE, ASSOCIATED DEPT.	PLU MODE, ASSOCIATED DEPT.
221	PLU MODIFY	PLU MODIFY
130	RATE	RATE
230 231	NOT USED MISC KEY PROGRAMMING	MISC KEY PROGRAMMING-1
232	HALO FOR MISC KEY	HALO FOR MISC KEY
240	TAX TABLE	TAX TABLE
241	% TAX	% TAX
250	DATE	DATE
251	TIME	TIME
252	MACHINE No.	MACHINE No.
253	CONSECUTIVE No.	CONSECUTIVE No.
255	NOT USED	TIMES OF VALIDATION
256	OPTIONAL FEATURE	OPTIONAL FEATURE
260	MEDIA KEY PROGRAMMING	MEDIA KEY PROGRAMMING
261	HALO FOR MEDIA KEY	HALO FOR MEDIA KEY
262	HALO FOR CHECK CHANGE	HALO FOR CHECK CHANGE
270	NOT USED	TILL TIMER

8-3. PROGRAMMING

[JOB #110] MRS = 0.00
PROGRAMMING OF DEPT. PRICE



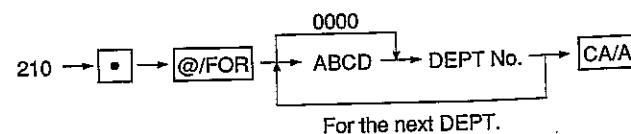
XXXXXX: 0~999999

Preset price is max. 6 digits.

Price can be programmed for each dept. If this programming is performed, the ECR is automatically programmed to allow preset price entry even when it has not been programmed to allow preset price entry in dept. function programming (JOB#210).

MRS = 0.00

[JOB #210] ER-2386: MRS = 01
ER-2396: MRS = 0001



A: Only ER-2396

Hash departments	210-A
Disable	0
Enable	1

B: Only ER-2396

Item validation print	210-B
Non-compulsory	0
Compulsory	1

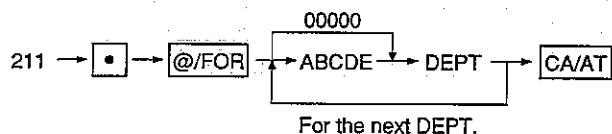
C: SIS Function

Normal	1
Signal item cash sale	0

D: Type of unit price entry

Inhibited	0
Open	1
Preset	2
Open & preset	3

[JOB #211] ER-2386: MRS = 00000
ER-2396: MRS = 00000



A:

Sign	211-A
+	0
-	1

D:

Tax 2 status	211-D
Non-taxable	0
Taxable 2	1

B:

Tax 4 status	211-B
Non-taxable	0
Taxable 4	1

E:

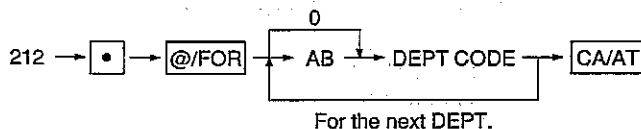
Tax 1 status	211-E
Non-taxable	0
Taxable 1	1

C:

Tax 3 status	211-C
Non-taxable	0
Taxable 3	1

[JOB #212] ER-2386: MRS = 17
ER-2396: MRS = 17

Programming of the HALO (amount limit) for DEPTs.



AB = AX10^B

A: Max digit figure = 1 ~ 9

B: No. of zeros following the MAX = 0 ~ 7

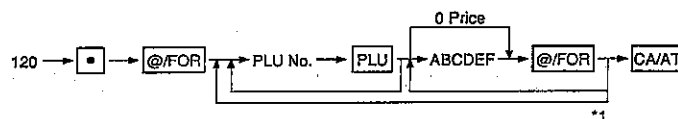
Note: When "0" is programmed for the "A" value in the procedure given above, only "0" can be programmed for the "B" value.

AB = 00 : enable
= 0X : disable
X0 : enable

[JOB #120] ER-2386: MRS = 0.00

ER-2396: MRS = 0.00

Price programming for PLUs



A ~ F: Unit price = 000000 ~ 999999

NOTE: • The preset amount (A through F) will work as the unit price for PLUs.

• Price programming for a PLU requires that the PLU has been declared in JOB #121.

• Automatically PLU code is incremented. (*1)

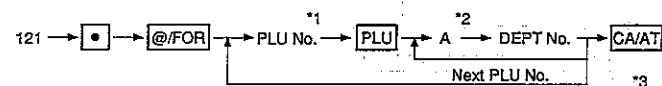
Next PLU code is not founded, then there is not any PLU code on display "P 0.00".

[JOB #121]

ER-2386: MRS = PLU code 001 ~ 020: PLU (assigned to DEPT1) = others : deleted

ER-2396: MRS = PLU code 001 ~ 020: PLU (assigned to DEPT1) = others : deleted

Programming of departments to be associated with PLUs.



When the next PLU No. does not directly follow the one just entered.

*1: PLU No = 1 through 150 for ER-2386
1 through 999 for ER-2396

*2: A: For ER-2386

Mode parameter	121-A
Inhibit PLU/Sub-Dept	0
Select the PLU mode	1
Select the Sub-Dept mode	2
Select the delete mode	3

A: For ER-2396

Mode parameter	121-A
Inhibit PUit PLU/Sub-Dept	0
Select the PLU mode	1
Select the Sub-Dept mode	2
Select the delete mode	3

*3: In case of setting all PLUs, the display is "P 0.00".

Note: • As soon as the programming is completed for one PLU, the next PLU number appears in the display.

• For the "A" value in the procedure given above, the values 0 can only be specified for existing PLU codes.

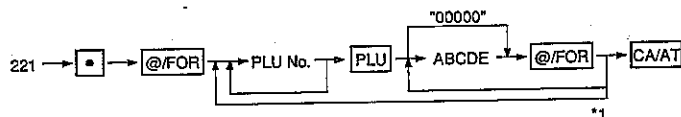
• You can only delete a specified PLU code only when the totalizer for the PLU container a sales amount of 0.

"INHIBIT" means that the PLU code and the contents of programming remain valid, but that any entry can't be made for the PLU.

[JOB #221] ER-2386: MRS = 00000

ER-2396: MRS = 00000

PLU modify programming



This programming is intended to decide the sign and tax status for PLU keys.

A:

Sign	221-A
+	0
-	1

D:

Tax 2 status	221-D
Non-taxable	0
Taxable 2	1

B:

Tax 4 status	221-B
Non-taxable	0
Taxable 4	1

E:

Tax 1 status	221-E
Non-taxable	0
Taxable 1	1

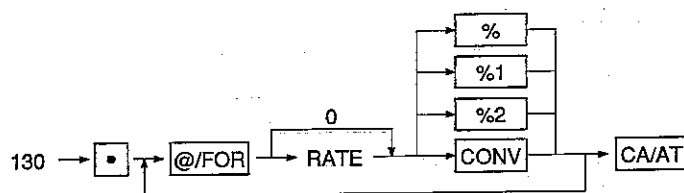
C:

Tax 3 status	221-C
Non-taxable	0
Taxable 3	1

[JOB #130] ER-2386: MRS = 0

ER-2396: MRS = 0

Rate programming



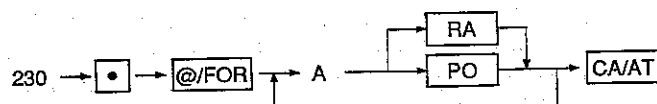
This programming is intended to reset % rate and conversion rate.

Function	Rate	Note
%	0.00 ~ 99.99	% rate for ER-2386
%1	0.00 ~ 99.99	%1 rate for ER-2396
%2	0.00 ~ 99.99	%2 rate for ER-2396
CONV	0.000 ~ 9999.999	Currency conversion rate

[JOB #230] ER-2386: Not used

ER-2396: MRS = 0

MISC key programming - 1



This programming is intended to select whether or not to enforce validation.

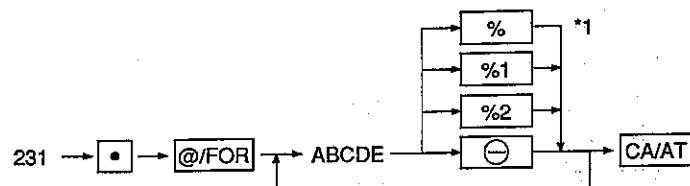
A: Only ER-2396

Validation	230-A
Non-compulsory	0
Compulsory	1

[JOB #231] ER-2386: MRS = 10000

ER-2396: MRS = 10000

MISC key programming - 2



This programming is intended to decide the sign and tax status for misc keys.

*1 % key: only ER-2386

%1 & %2 key: only ER-2396

A:

Sign	231-A
+	0
-	1

D:

Tax 2 status	231-D
Non-taxable	0
Taxable 2	1

B:

Tax 4 status	231-B
Non-taxable	0
Taxable 4	1

Tax 1 status	231-E
Non-taxable	0
Taxable 1	1

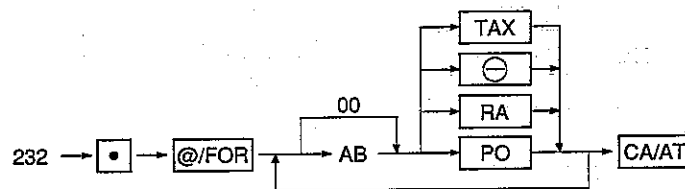
C:

Tax 3 status	231-C
Non-taxable	0
Taxable 3	1

[JOB #232] MRS = 17: ⊖, TAX

18: RA, PO

Programming of the HALO (amount limit) for MISC keys.



$$AB = A \times 10^B$$

A: Significant digit = 1 ~ 9

B: No. of zeros following the MAX.

⊖ and TAX key = 0 ~ 7

RA and PO key = 0 ~ 8

NOTE: When "0" is programmed for the "A" value in the procedure given above, only "0" can be programmed for the "B" value.

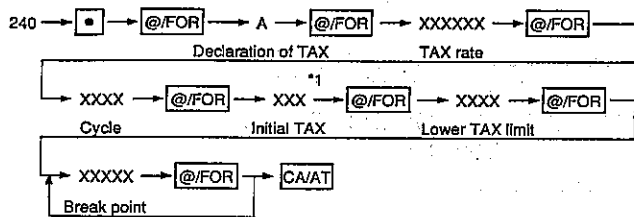
AB = 00 : Enable

= 0X : Disable

= X0 : Enable

[JOB #240] MRS = No TAX**1. Tax table programming for ER-2386**

NOTE: Tax rate = 0% is established if the tax table has been programmed with GST for VAT.



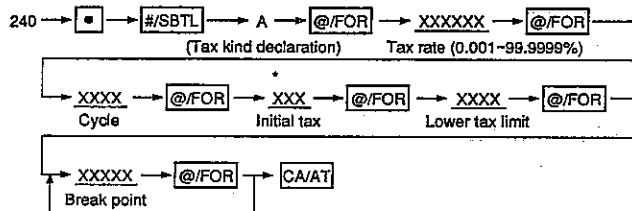
*1: Depression of the **[SBTL]** key at the following points means a tax table delete operation.

A: Table 1 programming = 1
Table 2 programming = 2
Table 3 programming = 3
Table 4 programming = 4

TAX RATE = 0.0001 ~ 99.9999%
CYCLE = 0.01 ~ 99.99%
INITIAL TAX = 0.01 ~ 9.99%
LOWEST TAX AMOUNT = 0.01 ~ 99.99%
BREAK POINT = 0.01 ~ 999.99% (MAX 40 POINT)

2. Tax table programming for ER-2396.

NOTE: "Tax rate = 0%" is established if the tax table has been programmed with GST for VAT.



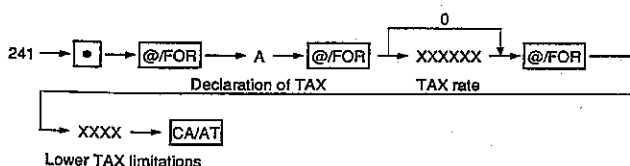
May be programming to 173 break points.

* It means to delete the tax table if the **[SBTL]** is pressed in the following timing.

A: TABLE 1 PROGRAMMING = 1
TABLE 2 PROGRAMMING = 2
TABLE 3 PROGRAMMING = 3
TABLE 4 PROGRAMMING = 4
TAX RATE = 0.0001 ~ 99.9999%
CYCLE = 0.01 ~ 99.99
INITIAL TAX = 0.01 ~ 9.99
LOWEST TAX AMOUNT = 0.01 ~ 99.99%
BREAK POINT = 0.01 ~ 999.99%

[JOB #241] MRS = No TAX**1. % TAX rate programming for ER-2386**

NOTE: Lower tax limitation setting is disregarded if GST is VAT.



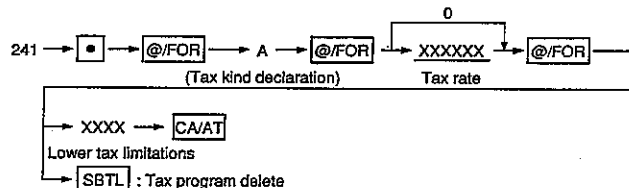
A: TABLE 1 PROGRAMMING = 1
TABLE 2 PROGRAMMING = 2
TABLE 3 PROGRAMMING = 3
TABLE 4 PROGRAMMING = 4

% TAX RATE = 0.0000 ~ 99.9999%
LOWER TAX LIMITATION = Max. 99.99

NOTE: When the tax table or tax rate is set, no decimal point key is required.

2. % TAX rate programming for ER-2396

NOTE: Lower tax limitation setting is disregarded if GST is VAT.

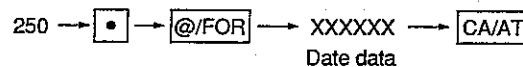


A: TABLE 1 PROGRAMMING = 1
TABLE 2 PROGRAMMING = 2
TABLE 3 PROGRAMMING = 3
TABLE 4 PROGRAMMING = 4

% TAX RATE = 0.0000 ~ 99.9999%
LOWER TAX LIMITATION = 0.01 ~ 99.99
NOTE: When the tax table or tax rate is set, no decimal point key is required.

[JOB #250] MRS = 010100

Date setting

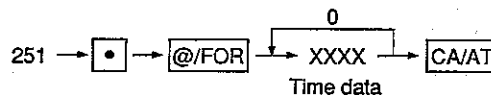


The entry format is the same as the print format (which is decided by SRV-mode programming).

A 6-digit integer must be entered for the date setting. Entering a zero first causes an error.

[JOB #251] MRS = 0000

TIME SETTING



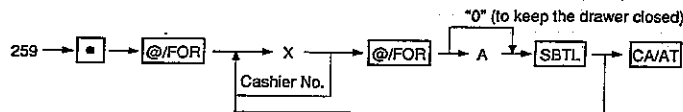
XXXX: 0 ~ 2359

The time must be entered on 24-hour system.

A 4-digit integer or smaller one must be entered for the time setting.

[JOB #259] MRS = 1: only ER-2396

Cashier drawer assignment



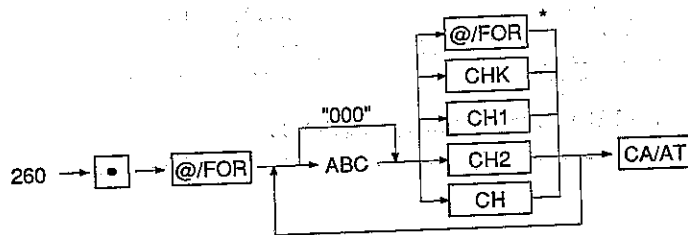
X: Cashier No. A = 1
B = 2
D = 3
E = 4

A: Drawer No. = 1 ~ 4
No drawer = 0

NOTE: With the standard machine (without an optional drawer), any setting from 1 to 4 makes it possible to open the drawer in the register.

[JOB #260] ER-2386: MRS = 0
ER-2396: MRS = 000

Media key programming



A: For ER-2386

Entry of amount tendered	260-A
Non-compulsory (for cash and check)/Inhibited (for charge)	0
Compulsory	1

For ER-2396

Change due	260-A
Enable	0
Disable	1

B: Only ER-2396

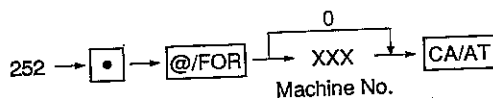
Validation printing	260-B
Non-compulsory	0
Compulsory	1

C: Only ER-2396

Entry of amount tendered	260-C
Non-compulsory (for cash and check)/Inhibited (for charge)	0
Compulsory	1

- *: 1. The @/FOR key is used for CA/AT key programming.
2. CH key is only ER-2386
3. CH1, CH2 keys are only ER-2396

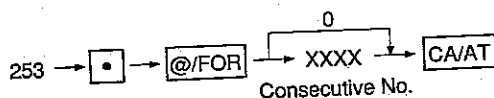
[JOB #252] MRS = 000
MACHINE NUMBER



XXX = 0 ~ 999

A 3-digit integer or smaller one must be entered for the machine number setting.

[JOB #253] MRS = 000
CONSECUTIVE NO. SETTING

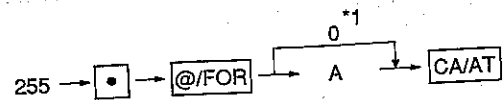


XXXX = 0 ~ 9999

A 4-digit integer or smaller one must be entered for the consecutive no. setting.

[JOB #255] ER-2386: Not used
ER-2396: MRS = 1

Programming of times of validation printing.

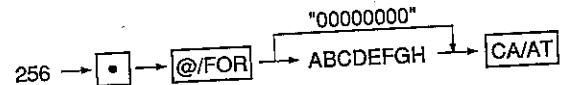


A: No. of times of validation printing = 0 ~ 9

*1: "0" means validation printing inhibited.

[JOB #256] ER-2386: MRS = 0000003
ER-2396: MRS = 00000003

Optional feature programming



A:

SBTL VOID in REG mode	256-A
Allowed	0
Inhibited	1

B:

Indirect void in REG mode	256-B
Allowed	0
Inhibited	1

C:

Direct void in REG mode	256-C
Allowed	0
Inhibited	1

D:

Refund in REG mode	256-D
Allowed	0
Inhibited	1

E: For ER-2386

After receipt printing format	256-E
Detail	0
Total	1

For ER-2396

OP X/Z mode	256-E
Allowed	0
Inhibited	1

F: For ER-2386

Journal select	256-F
Not	0
Select	1

For ER-2396

After receipt printing format	256-F
Detail	0
Total	1

G: For ER-2386

Time printing format	256-G
No print Receipt & Journal	0
Receipt only	1
Journal only	2
Receipt & Journal	3

For ER-2396

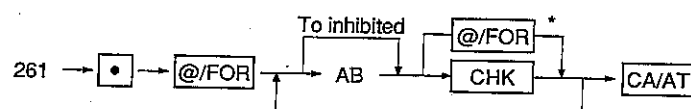
Journal select	256-G
No	0
Yes	1

H: Only ER-2396

Time printing format	256-H
No print Receipt & Journal	0
Receipt only	1
Journal only	2
Receipt & Journal	3

[JOB #261] ER-2386: MRS = 18**ER-2396: MRS = 18**

Programming of the HALO for media keys - 1



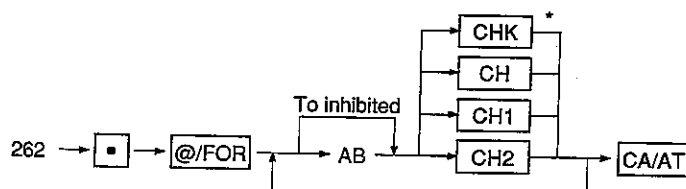
The limit is effect for the REG-mode operations.
HALO limit is represented by two figures as follows.

A: MAX digit figure = 1 ~ 9

B: No. of zeros following the max digit figure = 0 ~ 8

*: 1. The **@/FOR** key is used for "Check cashing" (only ER-2396)2. The **CHK** key is used for "Check change"**[JOB #262] ER-2386: MRS = 18****ER-2396: MRS = 18**

Programming of the HALO for media keys - 2

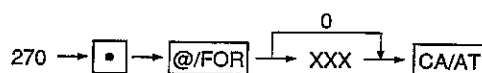


A: MAX digit figure = 1 ~ 9

B: No. of zeros following the max digit figure = 0 ~ 8

*: 1. **CH** key is only ER-23862. **CH1**, **CH2** keys are only ER-2396**[JOB #270] Only ER-2396: MRS = 000**

PROGRAMMING OF THE TIME INTERVAL FOR THE TILL TIMER



xxx: 1 ~ 255 sec