

CHAPTER 1. SERVICE (SRV) MODE

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

1. SRV. reset (Program Loop Reset)

Used to return the machine back to its operational state after a lock-up has occurred.

Procedure

- Method 1
 - 1) Un plug the AC cord from the wall outlet.
 - 2) Set the mode switch to (SRV) position.
 - 3) Plug in the AC cord to the wall outlet.
 - 4) Turn to (SRV) position from (SRV) position.
- Method 2
 - 1) Set the mode switch to PGM2 position.
 - 2) Unplug the AC power cord.
 - 3) While holding down JOURNAL FEED key and RECEIPT FEED key, plug in the AC cord.

Note: When disassembling and reassembling always power up using method 1 only. Method 2 will not reset the CKDCIII.

Note: SRV programming job#926-B must be set to "4" to allow PGM program loop reset.

2. Master reset (All memory clear)

Used to clear all memory contents and return machine back to its initial settings. return keyboard back to default. for default keyboard layout.

Procedure

- 1) Un plug the AC cord from the wall outlet.
- 2) Set the MODE switch to the (SRV) position.
- 3) Plug in the AC cord to the wall outlet.
- 4) While holding down JOURNAL FEED key, turn to (SRV) position from (SRV) position.

3. Reading of the SRV mode program

List of program reports

JOB#	Report name
900	SRV-mode program full item report (not incl. keyboard layout)
950	Keyboard layout report

[JOB# 900]

All parameters contained for the SRV mode as listed

Key operation.

900 → [@/FOR] → [CA/AT]

07/31/92 12:34PM 123456#0123		DATE (MM/DD/YY)/TIME MACHINE NO./CC-NO.
#900		JOB CODE
901#	0002	CONTENTS OF THE SRV-MODE PROGRAMMING The contents of the programming are printed only on the journal individual formats shown at left. (No header is printed.)
902#	0000	
903#	4000	
904#	0000	
905#	0000	
906#	0020	
907#	0010	
908#	0000	
909#	0000	
910#	2000	
911#	0000	
912#	0040	
913#	0004	
914#	0100	
915#	0000	GENERAL Z1 RESET COUNTER HOURLY Z1 RESET COUNTER PLU Z1 RESET COUNTER CASHIER Z1 RESET COUNTER GENERAL Z2 RESET COUNTER
916#	0000	
917#	0000	
918#	2000	
919#	0000	
920#	0000	
921#	0000	
922#	0000	
923#	0000	
924#	0000	
925#	0000	
926#	0000	
927#	0000	
928#	0000	
929#	0000	
930#	Z1 0000	GT2
933#	Z1 0000	
934#	Z1 0000	GT3
935#	Z1 0000	
937#	Z2 0000	TEXT SIZE/MAX. NUMBER OF DEPT.
942#		
GT2	\$000000000000.00	
943#		
GT3	-000000000000.00	
975#	0000	

[JOB# 950]

The Key layout report is printed in SRV mode

Key operation

950 → **@/FOR** → **CA/AT**

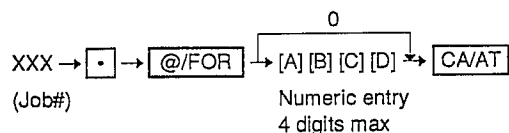
07/31/92 12:34PM		DATE (MM/DD/YY)/TIME	
123456#0123		MACHINE NO./CC-NO.	
#950		JOB CODE	
001	0	KEY	013
002	1	KEY	009
003	2	KEY	014
	:		
	:		
	:		
	:		
	:		
	:		

DATE (MM/DD/YY)/TIME
MACHINE NO./CC-NO.

JOB CODE

KEY NO./KEY LABEL
/LOCATION NO.**4. Service mode programming**

The following are the key operation required for programming.

Details of [A][B][C][D] will be discussed at each item description.
★ mark is MRS setting.**[JOB #901]:MRS=0002**

#901-A: 1. Paper near end sensor

1. Paper near end sensor	901-A
No	0
Yes	1

Note: Need to install paper near end sensor

#901-B: 1. TAX system

1. TAX system	901-B
Auto tax 1-4 & manual tax	0
CANADIAN TAX	6

#901-C: 1. Rounding system

1. Rounding system	901-C
Normal	0
SINGAPORE	8

#901-D: 1. TAB setting

1. TAB setting	901-D
0.0	1
0.00	2
0.000	3

[JOB#902] MRS=0000

#902-A: 1. Choice of RS-232 option

2. RS-232	902-A
No	0
Yes	2

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

[JOB#903] MRS=4000

#903-A: 1. SIO loader dumper baud rate

1. Baud rate (bps)	903-A
300	0
1200	1
2400	2
4800	3
9600	4

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

#903-D: 1. Type of food stamp

1. Type of food stamp	903-D
No food stamp	0
Tax not payable in food stamps	1
Tax payable in food stamps	2
Food stamp forgiveness	3

[JOB#904] NOT USED: MRS=0000**[JOB#905] MRS=0000**#905-A: 1. Taxable 4 subtotal print on X/Z report.
2. Gross Tax 4 and refund Tax 4 total print on X/Z report.
3. Net Tax 4 total print on X/Z report.

1. Taxable 4 SBTL	2. Gross Tax 4 and refund Tax 4	3. Net Tax 4	905-A
Print	Print	Print	0
		Skip	1
	Skip	Print	2
		Skip	3
Skip	Print	Print	4
		Skip	5
	Skip	Print	6
		Skip	7

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

1. Taxable subtotal is zero	2. GST is VAT	3. Tax is zero	905-B
Skip	Print	Print	0
		Skip	1
	Skip	Print	2
		Skip	3
Print	Print	Print	4
		Skip	5
	Skip	Print	6
		Skip	7

#905-C: 1. GST EXPT print on X/Z report

1. GST EXPT	905-C
Print	0
Skip	4

#905-D: 1. TAX METHOD

	Tax4 method(GST)	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] MRS=0020

#906-A: 1. Print dept and PLU number on receipt

1. Print dept and PLU number	906-A
No	0
Yes	4

★

#906-B: 1. Bottle return function
2. Hash departments

1. Bottle return	2. Hash departments	906-B
No	Disable	0
	Enable	2
Yes	Disable	4
	Enable	6

★

#906-C: 1. Split pricing counting
2. Multiplication entry

1. Split pricing counting	2. Multiplication entry	906-C
Quantity	Multiplication	0
	Split pricing & Multiplication	2
Package	Multiplication	4
	Split pricing & Multiplication	6

★

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

[JOB#907] NOT USED: MRS=0010

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

#907-C: 1. Minus sign setting for DEPT./PLU

1. Minus sign setting for DEPT./PLU	907-C
Disable	0
Enable	1

★

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

[JOB#908] MRS=0000

#908-A: GT print on Z report

1. GT1 (NET)	2. GT2 (+)	3. GT3 (-)	908-A
Print	Print	Print	0
		Skip	1
	Skip	Print	2
		Skip	3
Skip	Print	Print	4
		Skip	5
	Skip	Print	6
		Skip	7

★

#908-B: GT print on X report

1. GT1 (NET)	2. GT2 (+)	3. GT3 (-)	908-B
Skip	Skip	Skip	0
		Print	1
	Print	Skip	2
		Print	3
Print	Skip	Skip	4
		Print	5
	Print	Skip	6
		Print	7

★

#908-C: 1. Add void-mode transaction data to hourly total report

1. Add void-mode transaction to hourly total report	908-C
No	0
Yes	4

★

#908-D: 1. Printing X/Z report Journal only/Receipt & Journal (Except the individual cashier report)
2. Z1 resetting, resets GT Enable/Disable

1. Printing X/Z report	2. GT resetting at Z1	908-D
Receipt & Journal	Disable	0
	Enable	1
Journal	Disable	4
	Enable	5

★

[JOB#909] MRS=0000

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

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

★

#909-B: 1. Not used (Fixed at "0")

#909-C: 1. Printing of data in void-mode totalizer and manager void totalizer on Z2 report
2. Printing of data in void-mode totalizer and manager void totalizer on Z1 report

1. Void-mode totalizer on Z2 printing	2. Void-mode totalizer on Z1 printing	909-C
Print	Print	0
	Skip	2
Skip	Print	4
	Skip	6

★

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

[JOB#910] MRS=2000

#910-A: 1. Include/Exclude tax in cashier sales total

1. Cashier total	910-A
Tax excluded	0
Tax included	2

★

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

[JOB#911] MRS=0000

#911-A: 1. Fraction treatment

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

★

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

[JOB#912] MRS=0040

#912-A: 1. Date print format

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

★

#912-B: 1. Time system

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

★

#912-C: 1. After transaction receipt format
2. Copy receipt
3. Footer print control

1. After transaction receipt	2. Copy receipt	3. Footer print control	912-C
Total only	No	All receipt	0
		On selected function keys at the time of finalization	1
	Yes	All receipt	2
		On selected function keys at the time of finalization	3
Detail	No	All receipt	4
		On selected function keys at the time of finalization	5
	Yes	All receipt	6
		On selected function keys at the time of finalization	7

★

#912-D: 1. Logo message control

1. Logo message control	912-D
3-line header	0
3-line footer	2
6-line header	3

★

(Logo message format)

Type :

0

Header {

2

Footer {

3

[JOB#913] MRS = 0004

#913-A: 1. Validation print format on Receipt/Journal
2. Content of TOTAL VP amount

VP=Validation print

1. VP format	2. VP amount	913-A
Date & amount	Total amount	0
	Tendered amount	1
Machine# & amount	Total amount	2
	Tendered amount	3

★

#913-B: 1. Printing of [SBTL]
2. Escape the compulsion of VP

NOTE: Must turn to MGR mode and depress
[•], [PRINT] keys to escape validation

1. SBTL Print	3. Escape the compulsion of VP	913-B
No	Disable	0
	Enable	1
Yes	Disable	4
	Enable	5

★

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

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

★

#913-D: 1. Drawer closing operation compulsory
2. Error mode
3. Key catch sound

1. Drawer closed compulsory	2. Error mode	3. Key catch sound	913-D
Non-compulsory	All lock error	Enable	0
		Disable	1
	Lock and one shot	Enable	2
		Disable	3
Compulsory	All lock error	Enable	4
		Disable	5
	Lock and one shot	Enable	6
		Disable	7

★

[JOB#914] MRS = 0100

#914-A: 1. Receipt issuing at no-sale
2. [NS] key separation from [CA/AT] key for no sale function
3. Tax delete operation

1. Receipt issuing at no-sale	2. [NS] key separation	3. Tax delete	914-A
Enable	Yes	Inhibit	0
		Enable	1
	No	Inhibit	2
		Enable	3
Disable	Yes	Inhibit	4
		Enable	5
	No	Inhibit	6
		Enable	7

★

#914-B: 1. No-sale after NON ADD code entry

1. No-sale after # entry	914-B
Disable	0
Enable	1

*

#914-C 1. Void mode

1. Void mode	914-C
Enable	0
Disable	2

*

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

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

*

[JOB#915] MRS = 0000

#915-A: 1. Amount symbol

1. Amount symbol	915-A
" \$ "	0
" * "	1
" "	2

*

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

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

1. ST%, ST (-) operation	915-C
Unlimited	0
Once only	2

*

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

[JOB#916] MRS = 0000

#916-A: 1. Print format when text and amount overlaps in REG mode

1. Print format	916-A
Truncate text	0
2 line print	1

*

#916-B: 1. Finalization by charge when $ST \leq 0$
2. Food stamp subtotal entry before food stamp tender

1. Finalization by charge when $ST \leq 0$	1. Food stamp subtotal entry before food stamp tender	916-B
RF type of sale only	Non-compulsory	0
	Compulsory	1
Always	Non-compulsory	4
	Compulsory	5

*

#916-C:

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

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

*

#916-D: 1. Negative PLU printing on X/Z report
2. Net sales subtotal (NET1) printing on X/Z report
3. CHECK change total printing on X/Z report

1. Print negative PLU on general report	2. Print net sales SBT (NET1) on general report	3. Print CHK CHANGE on general report	916-D
Print	Print	Print	0
		Skip	1
	Skip	Print	2
		Skip	3
Skip	Print	Print	4
		Skip	5
	Skip	Print	6
		Skip	7

*

[JOB#917] MRS = 0000

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

Taxable 1 subtotal on X/Z report	Gross Tax1 and refund Tax1 total on X/Z report	Net Tax1 total on X/Z report	917-A
Print	Print	Print	0
		Skip	1
	Skip	Print	2
		Skip	3
Skip	Print	Print	4
		Skip	5
	Skip	Print	6
		Skip	7

*

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

Taxable 2 subtotal on X/Z report	Gross Tax2 and refund Tax2 total on X/Z report	Net Tax2 total on X/Z report	917-B
Print	Print	Print	0
		Skip	1
	Skip	Print	2
		Skip	3
Skip	Print	Print	4
		Skip	5
	Skip	Print	6
		Skip	7

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

Taxable 3 subtotal on X/Z report	Gross Tax3 and refund Tax3 total on X/Z report	Net Tax3 total on X/Z report	917-C
Print	Print	Print	0
		Skip	1
	Skip	Print	2
		Skip	3
Skip	Print	Print	4
		Skip	5
	Skip	Print	6
		Skip	7

- #917-D: 1. Total Tax amount on X/Z report
 2. Gross manual Tax and refund manual Tax on X/Z
 3. Net manual Tax total on X/Z report

Total Tax Amount	Gross manual Tax and Refund manual Tax on X/Z report	Net manual Tax total on X/Z report	917-D
Print	Print	Print	0
		Skip	1
	Skip	Print	2
		Skip	3
Skip	Print	Print	4
		Skip	5
	Skip	Print	6
		Skip	7

[JOB#918] MRS = 2000

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

1. Direct non-tendering finalization after previous tender entry	917-D
Disable	0
Enable	2

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

[JOB#919] MRS = 0000

919-A, B: Not used (Fixing at "00")

- 919-C: 1. Choice of amount print or skip print when PLU unit price is 0

1. Amount print	919-C
Skip	0
Print	1

- 919-D: 1. Conversion SBTL printing

1. Conversion SBTL print	919-D
Yes	0
No	4

[JOB#920] NOT USED : MRS = 0000

[JOB#921] NOT USED : MRS = 0000

[JOB#922] NOT USED : MRS = 0000

[JOB#923] NOT USED : MRS = 0000

[JOB#924] NOT USED : MRS = 0000

[JOB#925] NOT USED : MRS = 0000

[JOB#926] MRS = 0000

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

- #926-B: 1. Program reset at PGM 2 mode

1. Program reset at PGM2 mode	926-B
Disable	0
Enable	4

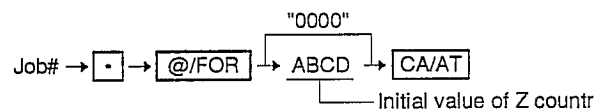
#926-C, D: Not used (Fixed at "00")

[JOB#927] NOT USED: MRS = 0000

[JOB#928] NOT USED: MRS = 0000

[JOB#929] NOT USED: MRS = 0000

[JOB#930, 933-935, 937] MRS = 0000

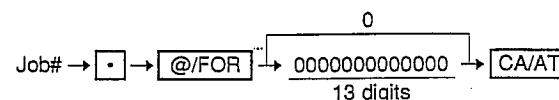


RESET REPORT COUNTER

JOB #	Function
930	Z1 report counter (General report)
933	Hourly Z1 report counter
934	PLU Z1 report counter
935	Cashier Z1 report counter
937	Z2 general report counter

[JOB#942, 943] MRS = 00000000000000

GT COUNTER PRESETTING



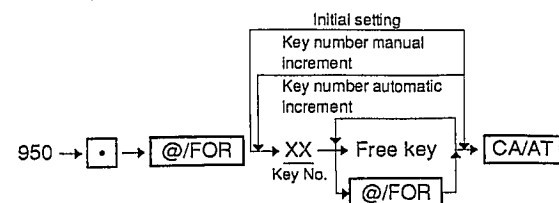
JOB #	Function
942	GT2 (Positive GT)
943	GT3 (Negative GT)

Note: GT1 is obtained by calculation

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

[JOB#950] MRS = STANDARD KEY LAYOUT

Free key layout



FUNCTION KEY LIST

Key No.	Function	Func. Key
12	000 KEY	000 KEY
18	MDSE SBTL	MDS ST
19	TRAY SBTL	TRY ST
20	#	#
21	NO SALE	NS
22	PLU/SUB	PLU/SUB
23	REFUND SALE	RF SAL
24	TAX1 SHIFT	TAX1 SF
25	TAX2 SHIFT	TAX2 SF
26	TAX3 SHIFT	TAX3 SF
27	TAX4 SHIFT	TAX4 SF
28	FS SHIFT	FS SHT
29	PRINT	PRINT
30	RCPT	RCPT
31	VOID	VOID
32	REFUND	RFND
33	%1	%1
34	%2	%2
35	%3	%3
36	%4	%4
37	(-)-1	(-)-1
38	(-)-2	(-)-2
39	TAX	TAX
40	AUTO	AUTO
41	AUTO2	AUTO2
42	AUTO3	AUTO3
43	AUTO4	AUTO4
44	AUTO5	AUTO5
45	CASH2	CA2
46	CHECK	CHK
47	CH1	CH1
48	CH2	CH2
49	CH3	CH3
50	CH4	CH4
51	CH5	CH5
51	CONV1	CONV1
53	CONV2	CONV2
54	CONV3	CONV3
55	CONV4	CONV4
56	FS TEND	FSTEND
57	RA	RA
58	PO	PO
59	DEPT01	DEPT01
60	DEPT02	DEPT02
↓	↓	↓
98	DEPT40	DEPT40

ER-A430 KEY POSITION

T	T	012	017	022
R	J	011	016	021
004	008	010	015	020
003	007	009	014	019
002	006	013	018	
001	005			

029	036	043	050	057	064
028	035	042	049	056	063
027	034	041	048	055	062
026	033	040	047	054	061
025	032	039	046	053	060
024	031	038	045	052	059
023	030	037	044	051	058

key position is not free.

These keys are assigned fixed key.

[JOB#975] MRS = 0000

DEPT./PLU TEXT SIZE PROGRAMMING.

Key operation

975 → [] → [@/FOR] → ABCD → [@/FOR]
File group No.

#975-A, B: 1. Text size of DEPT./PLU

1. Text size of DEPT./PLU	975-A, B
8 character	00
12 character	11

★

#975-C, D: Max. number of DEPT. = 01~40

[JOB#996, 998] SIO data send/receive (ECR↔ECR, ECR↔ER-02FD)

[JOB#996] SIO data send

996 → [] → [@/FOR] → [CA/AT]

[JOB#998] SIO data receive

998 → [] → [@/FOR] → [CA/AT]