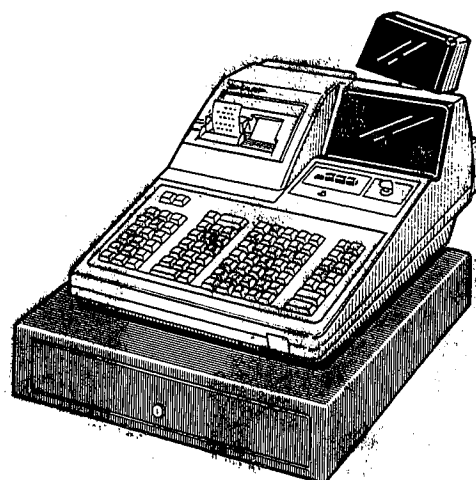


SHARP SERVICE MANUAL

CODE: 00ZER3550USME



ELECTRONIC CASH REGISTER

MODEL ER-3550

SRV Key : LKGIM7113RCZZ
PRINTER: M-820

CAUTION

EXTREME CAUTION MUST BE TAKEN WHEN SERVICING THIS MACHINE. EVEN THOUGH THE MODE SWITCH IS IN THE OFF POSITION, VOLTAGE IS STILL SUPPLIED TO THE ENTIRE MACHINE.

WHEN WORKING ON THIS MACHINE MAKE SURE THAT THE POWER CORD IS REMOVED FROM THE WALL OUTLET.

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PRESET LOADER (OPTION) MODEL ER-02FD

Parts Guide

1. BLOCK DIAGRAM

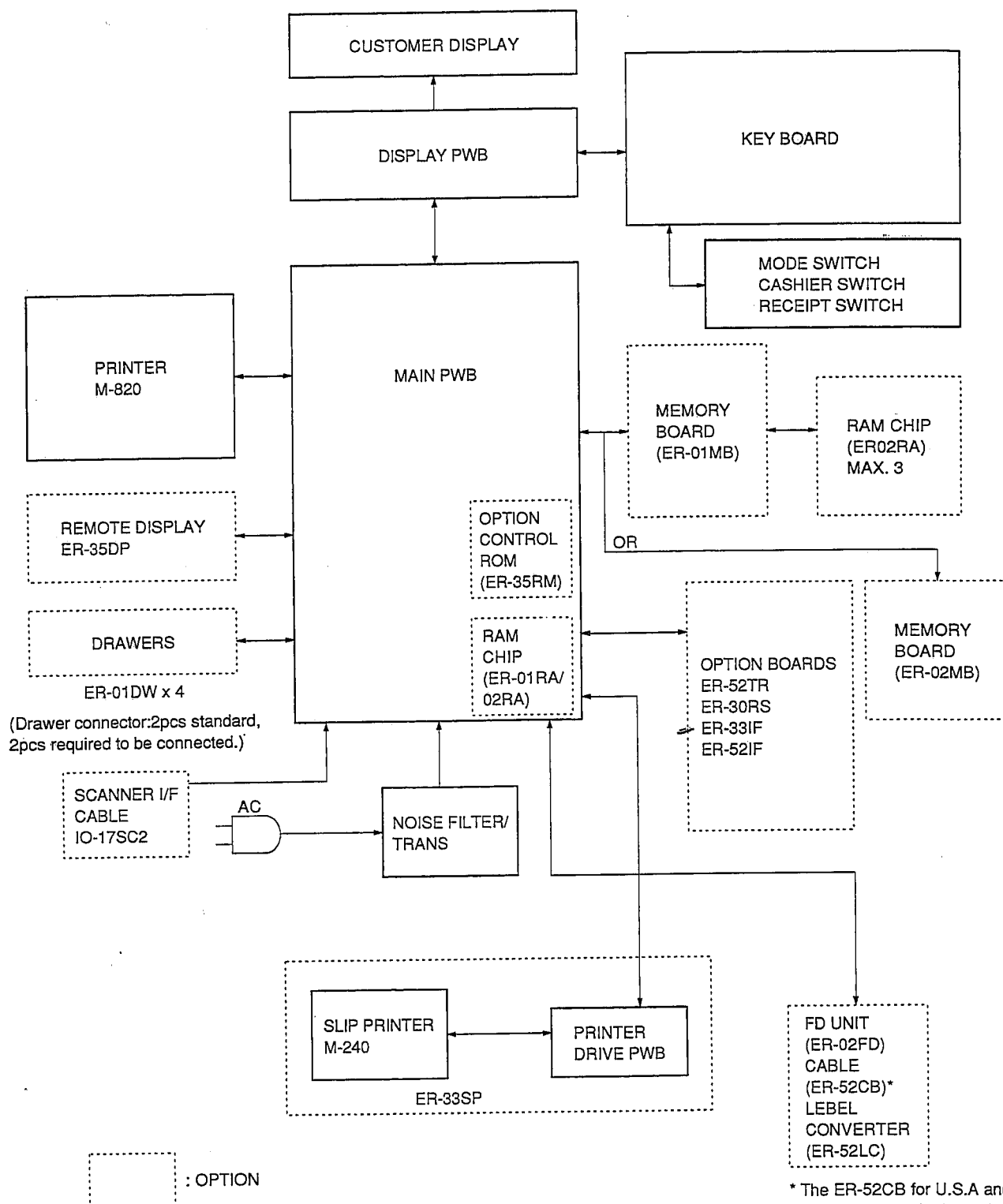


Fig. 1-1

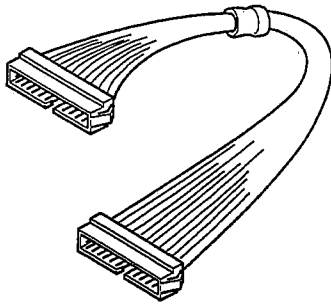
* The ER-52CB for U.S.A and CANADA is packed together with the ER-02FD.

2. SPECIAL SERVICE TOOLS

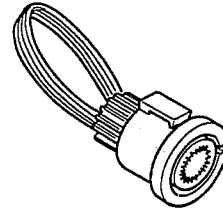
No.	Description	Parts code	Price rank
1.	Expansion cable with 30pin connectors for optional Board*	UKOGG0061CS ZZ	BF
2.	Service battery with 2pin connector for main PWB and optional memory board*	CKOG-6626RCZZ	AX
3.	ER-52CB cable for memory transfer	QCNW-6952RCZZ	AY
4.	Loop back connector for serial I/F	UKOG-6651RCZZ	AY
5.	Service Key	LKGIM7113RCZZ	AK
6.	Key top remover	UKOG-6634RCZZ	AX

* 2pcs are required.

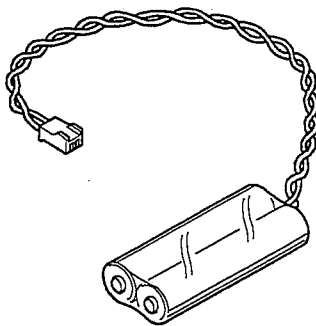
1. UKOGG0061CSZZ



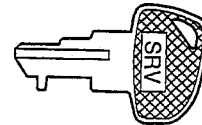
4. UKOG-6651RCZZ



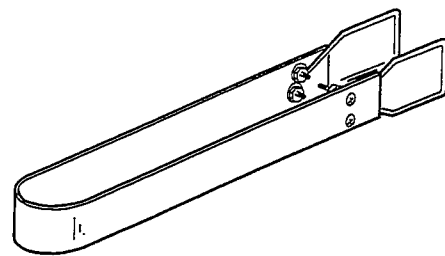
2. CKOG-6626RCZZ



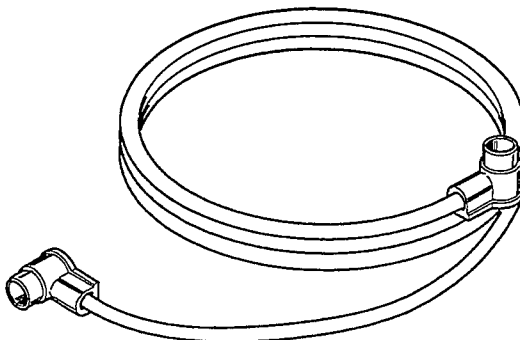
5. LKGIM7113RCZZ



6. UKOG-6634RCZZ



3. QCNW-6952RCZZ



3. REFERENCE DOCUMENTS

- (1) Cash register basic manual
- (2) Printer M-820 service manual (00ZM820SM//E)
- (3) ER-3550 options service manuals.

4. SPECIFICATIONS

4-1. Appearance/Rating

1) Appearance

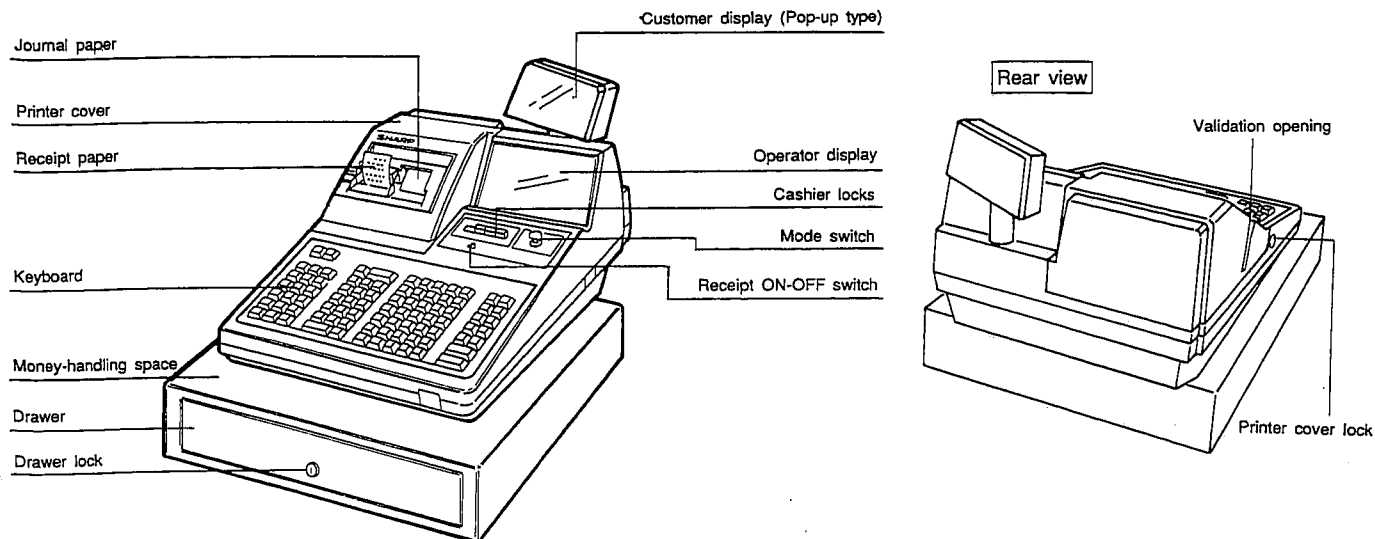


Fig. 4-1

4-3. Key board

ER-3550 Standard key layout

↑ RECEIPT	↑ JOURNAL														
				R/C	PLU/SUB			UPC	INQ	CASH #	DEPT #	AMT		FS SHIFT	FS TEND
PRINT	#	SCALE		TAX	TAX ₁ SHIFT	TAX ₂ SHIFT		6	12	18	24	30		CH ₄	CH ₅
RCPT	⊖1	⊖2		@/FOR	·	CL		5	11	17	23	29		CH ₂	CH ₃
CONV	%1	%2		7	8	9		4	10	16	22	28		CHK	CH ₁
RA	PO	PB		4	5	6		3	9	15	21	27		AUTO	MDSE SBTL
RFND SALE	NS	CB		1	2	3		2	8	14	20	26		SBTL	
RFND	VOID	SRVC		0		00		1	7	13	19	25		CA/AT	

Fig. 4-2

□ key = Dummy key

(2) Key top name

Standard key top

Keytop symbol	Key function
00, 0~9	Numeric key
1~30	Department key
@/FOR	Multiplication/split pricing key
.	Decimal point key
CL	Clear key
↑ RECEIPT JOURNAL	Receipt/journal key
PRINT	Validation print key
RCPT	Print duplicate key
PLU/SUB	PLU/sub dept code entry key
SCALE	Scale entry key
PB	Previous balance or additional order key
CB	Credit balance or new check key
SRVC	SERVICE key
RA	RECEIVED ON ACCOUNT key
PO	PAID OUT key
TAX1 SHIFT TAX2 SHIFT	TAX1/TAX2 SHIFT key
TAX	MANUAL TAX key
#	Non add code key
⊖1, ⊖2	Discount -1/discount-2 key
%1, %2	%1, %2 key
RFND	Refund key
SBTL	Tax-included subtotal key
AUTO	Automatic sequencing key input
VOID	Void key
NS	NO SALE key
CONV	Foreign currency conversion key
FS SHIFT	FOOD STAMP SHIFT key
FS TEND	FS subtotal/FS tendered key
CA/AT	Cash/cash tendered key
MDSE SBTL	Merchandise subtotal key
CHK	Check key
CH1~CH5	Charge-1 charge-5 key
RFND SALE	Refund type of sales key
DEPT #	Indirect department key
CASH #	Cashier # key
R/C	Reason code key
INQ	Inquiry key
UPC	UPC key
AMT	Amount key

Option key top

Keytop symbol	Key function
%3, %4	%3, %4 key
DEPO	DEPOSIT
AUTO 2 ~5	Automatic sequencing key
DEPO RFND	DEPOSIT REFUND
CONV2	Conversion rate 2
000	000 Key
3 ~ 99 DEPT	Department key
1~PLU	Direct PLU key
TAX3 TAX4 SHIFT SHIFT	Tax3, tax4 shift
⊖3, ⊖4	Discount-3/Discount-4 key
CH6, CH7	Charge6/charge7
CA2	Cash total2
GD1, 2, 3 SFT	Group disc 1, 2, 3 shift
LEV # 1~3	UPC price level key
CLK #	Clerk # key
Slip	Slip key
GAS ST	Gasoline discount subtotal key
REPT	Repeat key

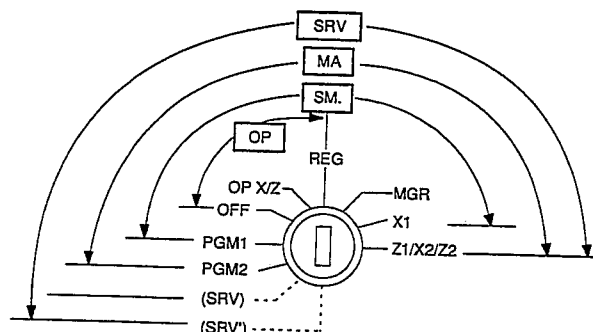
4-4. Mode switch

Fig. 4-3

- * The key can be removed in the REG or OFF position.
- * In the SRV' mode, key inputs are prohibited and no display is made.
- * With the key in the off position power is shift supplied to the main PWB.

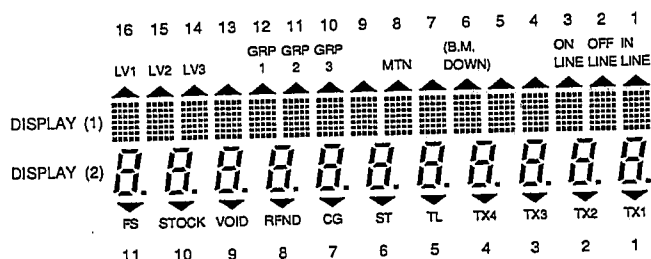
[Functions]

- Function for each key position
- SRV': System reset
- SRV: Service mode (Service programming)
- PGM2: Allows programming of an item that is not changed frequently, in addition to the PGM1 mode programming.
- PGM1: Allows programming of items frequently changed (e.g. department, PLU pricing, and discount rate setting).
- OP/XZ: Allows X or Z operation by servers or cashiers.
- REG: Allows registrations.

- MGR: Allows the operations, by authorized person such as a manager (e.g. correction after transaction finished or cancellation of entry limits), which are not permitted to ordinary cashiers.
- X1: Allows reading of a day's sales total.
- Z1/X2/Z2: Allows resetting of a day's sales total, and reading or resetting sales totals in a specified period.
- OFF: Switching off the display to prevent key board entries.
(The setting does not turn off the AC power.)

4-5. Display

(1) Operator Display



* (B.M. DOWN) is not printed on the display.

Fig. 4-4

[Display contents]

Display (1)

Display contents	Display position	Description
Entry data	16 - 5	Numerical value and characters
Item name, etc,	16 - 5	Department text, PLU text, etc.
Error message	16-5	Message to indicate an error [1]
Machine state symbol	4 - 1	Mode and various kinds of guidance [2]
LV3	14	The "▲" lamp lights up when the UPC price level is 3.
LV2	15	The "▲" lamp lights up when the UPC price level is 2.
LV1	16	The "▲" lamp lights up when the UPC price level is 1.
ON LINE	3	The "▲" lamp lights up when the online transmission line is connected and goes off when it is disconnected; and it blinks during data transfer.
GRP1-3	10-12	The "▲" lamp lights up when the GD 1, 2, 3 SHIFT KEY is pressed.
OFF LINE	2	The "▲" lamp is kept off while the inline system is in operation (terminal no. ≠000); and it lights up while the inline system is set to OFFLINE (terminal no. =000)
IN LINE	1	The "▲" lamp lights up during inline communication.
MTN	8	The "▲" lamp lights up when the maintenance data is set in ECR.

Display (2)

Display contents	Display position	Description
Amount	8 - 1	Character pattern [1234567890]
No. of repeats	11	The number of repeats starts with "2". When the number of repeats is 10 or more, the first digit alone is displayed.
Minus sign	9 - 4	The floating minus sign "-" is displayed.
TX1	1	The "▲" lamp lights up when the TAX1 SHIFT key is pressed. This lamp also lights up when a taxable 1 item is registered.
TX2, 3, 4	2, 3, 4	The "▲" lamp lights up when the TAX2, 3, 4, SHIFT key is pressed. This lamp also lights up when a taxable 2, 3, 4 item is registered.
RFND	8	The "▲" lamp lights up when the REFUND key is pressed. This lamp also lights up when a refund registration is made.
VOID	9	The "▲" lamp lights up when the VOID key is pressed. This lamp also lights up when a void entry is made.
TL	5	The "▲" lamp lights up when a transaction is finalized with the CASH, CHECK, OR CHARGE key, however, this lamp does not light up when a transaction is finalized with an amount tendered entry.
ST	6	The "▲" lamp lights up when a subtotal is displayed.
CG	7	The "▲" lamp lights up when the change due is displayed after an amount tendered entry.
STOCK	10	The "▲" lamp is blinking when PLU stock counter is zero or negative at the SRV mode programming. (This lamp is not blinking for UPC stock controls.)
FS	11	The "▲" lamp lights up when a food stamp eligible item is entered.
Sentinel	11	The "●" lamp lights up when the cash in drawer amount exceeds a programmed sentinel amount.

1 Error messages

Display	Description
ENTRY ERROR	Entry error
MISOPERATION	Miss operation error
NOT ON FILE	Undefined code preset or look-up error
PAPER EMPTY	R/J paper error
S. CODE ERROR	Mode's secret code error
NOTAVAILABLE	entered PB# is not available
MEMORY FULL	Memory full error
INSERT SLIP	Slip paper error
INVALID PB#	entered PB# is invalid now
STOCK EMPTY	PLU stock empty
OP ENTRY	Vender coupon UPC error
SPLIT FULL	Split buffer full error
ENTER PB#	PB/CB compulsory
BAD C/D	PBLU check digit error
BUSY	IRC busy
INLINE ERROR	IRC error
RETRY ?	IRC retry error
ENTRY ERR Z	IRC slave entry error after reset (Z1)
CLOSE STORE	IRC close store error
NO RESPONSE	IRC no response error
SIGN ON	IRC sign on error
POWER OFF	IRC/CAT power off error

2 Machine state symbols

Display	Description
A (-E)	REG mode
M*AX - M*EX	MANAGER mode
V*AX - V*EX	VOID mode
SRV.	SERVICE mode
PGM1	PGM1 mode
PGM2	PGM2 mode
O*AX - O*EX	OP X/Z mode
X1	X1 mode
Z/X2	Z1/X2/Z2 mode
VAL	Compulsory validation printing
SLIP	Compulsory slip printing
#	Compulsory non-add code entry
LOCK	No cashier is specified
DPT#	Compulsory department code
AMT	Compulsory amount entry
VIEW	UPC inquiring

(2) Customer display

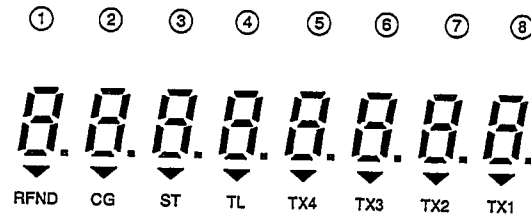


Fig. 4-5

4-6. Printer (M-820)

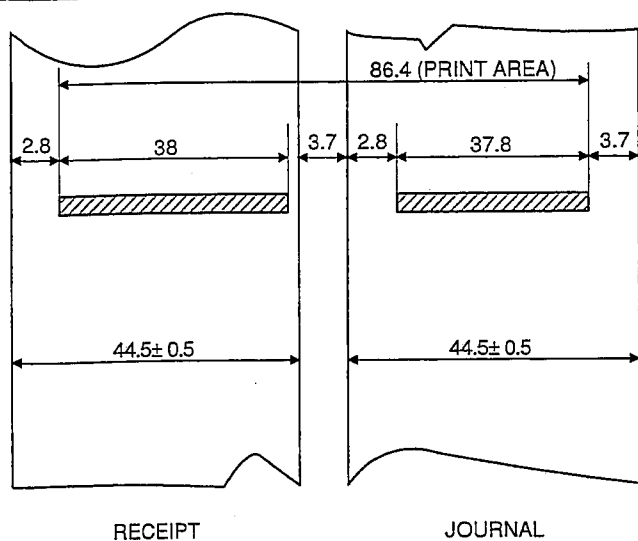
Specifications

- Part number: M-820
- No. of stations: 2
- Printing system: Mechanical serial dot
- Direction of printing: Bidirectional
- Printing capacity: Receipt - 21 characters
Journal - 21 characters
Validation - 47 characters
(one line only)

- Character size: 2.7(H) × 1.5(W) mm
Print pitch:
Column distance 1.83 mm
Row distance 4.3 mm
- Total number of dots: (95 dots per line) × 2 (receipt and journal)
Validation Max 213 dot
- Font: 7 × 7 dots
Space between characters – 1 dot
- Print speed: 2.6 lines/sec. (Approx. 25.8V)
- Paper feed speed: Receipt – Approx. 27 lines/sec.
Journal – Approx. 11 lines/sec.
- Reliability: MCBF – 2 million lines (excluding the print head)
Head life – 50 million characters
(in the case of printing average 2 dots per character per wire)
- Validation form sensor: No

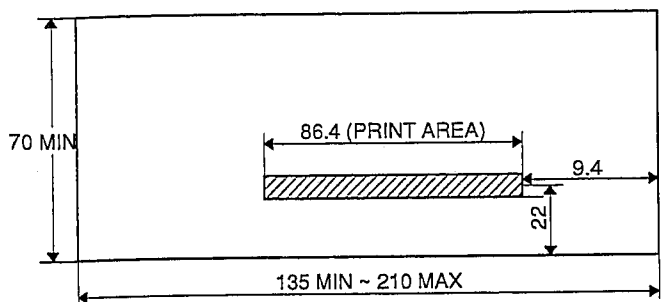
Printing area

Receipt/journal



Unit : mm

Validation form



Unit : mm

4-7. Paper

- Paper roll dimensions: 44.5±0.5mm in width, max. 83mm in diameter
- Paper quality: Journal
Bond paper (paper thickness: 0.06 to 0.09mm, paper weight: 52.3 to 64g/m²)
Validation form
Size: 135mm or more (W) × 70mm or more (H)

4-8. Inking

- Ink supply system: Ink ribbon
- Form: Cartridge
- Specification: Material – Nylon
mm(W) × m(L)
- Ribbon life: 6 million characters
- Print color: Purple (single color)

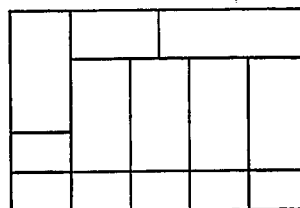
4-9. Logo stamp

- Material: Porous rubber
- Stamp color: Purple (single color)
- Max. stamp size: 30(W) × 20(H) mm
- Stamp pattern:
- Ink refill: Allowed (UINK-1001CCZZ: 5CC)

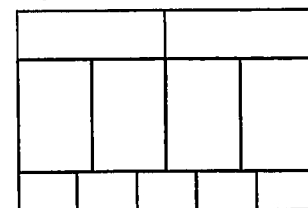
4-10. Drawer

(1) Cash compartment

- Detachable from the drawer case
- Paper money compartment not detachable from coin compartment
- Available number of compartments
U.S.A. version : 6B,6C
Canadian version : 6B,5C
- Kinds of available compartment assembly



6B/6C



6B/5C

- Size: 440 (W) × 460 (D) × 104 (H) mm

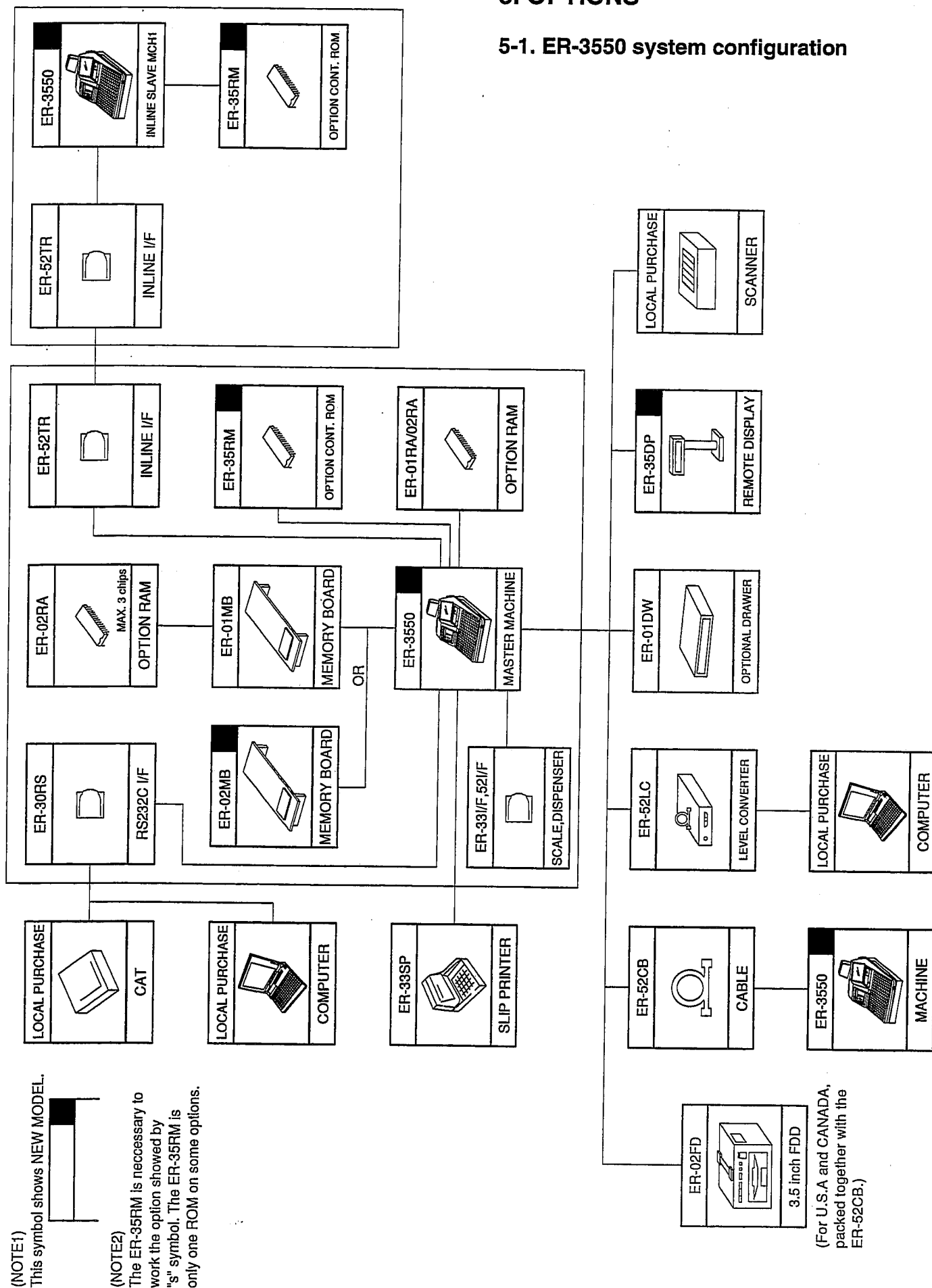
Fig. 4-6

(2) Keylock

- Key lock location
U.S.A. canadian version: Front
- Key operation
Close 180 = counterclockwise rotation
Open 180 = clockwise rotation

5. OPTIONS

5-1. ER-3550 system configuration



5-2. Options

NO.	NAME	MODEL	DESCRIPTION
1	SLIP PRINTER	ER-33SP	Printer and its interface inclusive
2	REMOTE DRAWER	ER-01DW	MAX 3 units
3	COIN CASE	ER-33CC	For USA
4	COIN CASE COVER	ER-33CV	For USA
5	EXPANSION MEMORY BOARD	ER-01MB	128 Kbytes memory board with 3 IC sockets (For ER-02RA)
6	"	ER-02MB	1M bytes
7	EXPANSION RAM CHIP	ER-01RA	32K bytes RAM chip
8	"	ER-02RA	128K bytes RAM chip
9	IN-LINE SYSTEM	ER-52TR	SRN inline I/F board
10	ON-LINE SYSTEM	ER-30RS	2-ports RS-232C I/F board
11	CONTROL ROM	ER-35RM	Control for ER-52TR and ER-30RS
12	PRESETS LOADER	ER-02FD	FD unit (ER-52CB packed together with: USA, CANADA only)
13	CONNECTION CABLE	ER-52CB	Loader cable
14	LEVEL CONVERTER	ER-52LC	TTL ↔ RS232C level converter
15	SCALE I/F	ER-33IF	
16	SCALE/COIN DISPENSER I/F	ER-52IF	
17	REMOTE DISPLAY	ER-35DP	
18	COIN CASE	ER-33CC1	For Canada
19	COIN CASE COVER	ER-33CV1	For Canada
20	MODE KEY VARIATION	ER-25MD1~5	100 Varieties
21	BARREL TYPE CASHIER SWITCH	ER-25CL	
22	SCANNER I/F CABLE	IO-17SC2	
23	1 × 1 KEY TOP	ER-11KT6	30 pcs
24	1 × 2 KEY TOP	ER-12KT6	30 pcs
25	2 × 2 KEY TOP	ER-22KT6	10 pcs
26	1 × 1 DUMMY KEY	ER-11DK6	30 pcs
27	5 × 1 DUMMY KEY	ER-51DK6	10 pcs

5-3. Service Options

NO.	NAME	PARTS CODE	DESCRIPTION
1	SERVICE KEY	LKGIM7113RCZZ	For the standard mode switch
2	SERVICE KEY	LKGIM7094RCZZ	ER-25MD Service key
3	DRIP-PROOF KEY BOARD COVER	GCOVB6899RCZZ	
4	CHARACTER KEY COVER	GCOVB6909RCZA	
5	DRIP-PROOF SWITCH COVER	GCOVB6872RCZZ	For the standard cashier switch
6	DRIP-PROOF SWITCH COVER	GCOVB6873RCZZ	For the ER-25CL
7	JOURNAL NEAR-END SENSOR	DKIT-8226RCZZ	
8	DRAWER OPEN SENSOR	DKIT-8331RCZZ	For canada
9	MODE KEY GRIP COVER	LKGIM7126RCZA	OP key only
10	REMOTE DRAWER FIXING KIT	DKIT-8633RCZZ	

5-4. Supplies

NO.	NAME	PARTS CODE	DESCRIPTION
1.	Roll paper	DPAPR1006RCZZ	5 rolls/pack
2.	Ink ribbon	PRBN-6640RCZZ	
3.	Ink for stamp	UNIK-1001CGZZ	5cc

6. SRV (SERVICE) MODE

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

6-1. 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) Disconnect the AC cord from the wall outlet.
 - 2) Set the mode switch to (SRV) position.
 - 3) Connect 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 that CKDCIII is not reset. (When the CKDCIII is running wild by disconnection of the connector between the main PWB and the display PWB, etc., service reset cannot be performed with Method 2.)

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

PRG. RESET ***

6-2. Master reset (All memory clear)

There are two possible methods to perform a master reset.

- MRS-1
Used to clear all memory contents and return machine back to its initial settings. return keyboard back to default. for default keyboard layout refer to page 3.

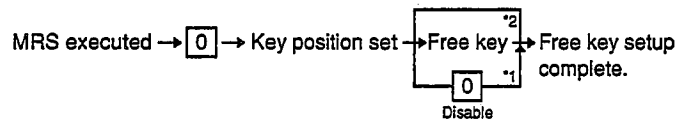
Procedure

- 1) Disconnect the AC cord from the wall outlet.
 - 2) Set the MODE switch to the (SRV) position.
 - 3) Connect the AC cord to the wall outlet.
 - 4) While holding down JOURNAL FEED key, turn to (SRV) position from (SRV) position.
- MRS-2
Used to clear all memory and keyboard contents.
This reset returns all programming back to defaults. The keyboard must be enter by hand.
This reset is used if an application needs different keyboard layout other than that supplied by a normal MRS-1.

Procedure

- 1) Disconnect the AC cord from the wall outlet.
 - 2) Set the MODE switch to the (SRV) position.
 - 3) Connect the AC cord to the wall outlet.
 - 4) While holding down JOURNAL FEED key and RECEIPT FEED key, turn to (SRV) position from (SRV) position.
 - 5) Key position assignment:
- ※ After the execution of MRS-2, only the RECEIPT FEED and JOURNAL FEED keys can remain effective on key assignment. Any key can be assigned on any key position on the main keyboard.

[key setup procedure]



MASTER RESET ***

NOTES:

- ※1: When the 0 key is pressed, the key of the key number on display is disabled.
- ※2: Push the key on the position to be assigned. With this, the key of the key number on display is assigned to that key position.

Key number	Key name	Key number	Key name
1	Numeric key "0"	10	Numeric key "9"
2	Numeric key "1"	11	Numeric key "00"
3	Numeric key "2"	12	Numeric key "000"
4	Numeric key "3"	13	Decimal point key
5	Numeric key "4"	14	CL key
6	Numeric key "5"	15	@/For key
7	Numeric key "6"	16	SBTL key
8	Numeric key "7"	17	CA/AT key
9	Numeric key "8"		

6-3. Reading of the SRV mode program

List of program reports

JOB#	Report name
900	SRV-mode program full item report
950	Keyboard layout report (on keys other than dept. keys and direct PLU keys)
951	Keyboard layout report (on dept. keys and direct PLU keys)
970	SRV file programming report

[JOB# 900]

All parameters contained for the SRV mode as listed

Key operation.

900 → [@/FOR] → [CA/AT]

01/01/00 12:02AM
000#0003

#900

901#	0002
902#	0000
903#	0000
904#	0000
905#	0005
906#	0020
907#	0000
908#	0000
909#	0000
910#	2000
911#	0000
912#	0041
913#	1014
914#	0100
915#	0000
916#	0000
917#	0000
918#	2000
919#	4000
920#	0000
921#	0000
922#	0000
923#	0000
924#	0000
925#	0000
926#	0000
927#	0000
928#	0000
929#	0000

930#	Z1	0000
931#	CDN	Z1 0000
932#	Z1	0000
933#	Z1	0000
934#	Z1	0000
935#	Z1	0000
936#	Z1	0000
937#	Z2	0000
938#	CDN	Z2 0000
939#	Z2	0000

942#	
GT2	\$000000000000.00
943#	
GT3	\$000000000000.00
945#	
TR	\$000000000000.00
944#	0000

[JOB# 950]

The Key layout report is printed in SRV mode

Key operation

950 → [@/FOR] → [CA/AT]

951 → [@/FOR] → [CA/AT]

01/01/00 12:02AM
000#0004

#950

001	0	KEY	039
002	1	KEY	032
003	2	KEY	040
004	3	KEY	048
005	4	KEY	033
006	5	KEY	041
007	6	KEY	049
008	7	KEY	034
009	8	KEY	042
010	9	KEY	050
011	00	KEY	047
012	000	KEY	---
013	.	KEY	043
014	CL		051
015	@/FOR		035
016	SBTL		120
017	CA/AT		119
018	MDS ST		121
019	GAS ST		---
020	#		013
021	NS		009
022	SCALE		020
023	DEPT#		093
024	PLU/SB		053
025	AMOUNT		101
026	UPC		069
027	REPEAT		---
028	%1		011
029	%2		018
030	%3		---
031	%4		---
032	(-)1		012
033	(-)2		019
034	(-)3		---
035	(-)4		---
036	GDSC%1		---
037	GDSC%2		---
038	GDSC%3		---
039	RF SAL		002
040	LEV#1		---

041	LEV#2	---
042	LEV#3	---
043	TAX1SF	044
044	TAX2SF	052
045	TAX3SF	---
046	TAX4SF	---
047	FS SFT	117
048	GD1SFT	---
049	GD2SFT	---
050	GD3SFT	---
051	PRINT	006
052	SLIP	---
053	RCPT	005
054	VOID	008
055	RFND	001
056	TAX	036
057	AUTO	113
058	AUTO2	---
059	AUTO3	---
060	AUTO4	---
061	AUTO5	---
062	CA2	---
063	CHK	114
064	CH1	122
065	CH2	115
066	CH3	123
067	CH4	116
068	CH5	124
069	CH6	---
070	CH7	---
071	CONV1	004
072	CONV2	---
073	PB	017
074	CB	016
075	SRVC	015
076	DEPD	---
077	DEP RF	---
078	FSTEND	125
079	RA	003
080	PD	010
081	R/C	037
082	CASH	085
083	CLK#	---
084	INQ.	077

01/01/00
000#0005

12:03AM

#951

001	001	063	050	050	---	098	098	---
002	002	064	051	051	---	099	099	---
003	003	065	052	052	---	100	100	---
004	004	066	053	053	---	101	101	---
005	005	067	054	054	---	102	102	---
006	006	068	055	055	---	103	103	---
007	007	071	056	056	---	104	104	---
008	008	072	057	057	---	105	105	---
009	009	073	058	058	---	106	106	---
010	010	074	059	059	---	107	107	---
011	011	075	060	060	---	108	108	---
012	012	076	061	061	---	109	109	---
013	013	079	062	062	---	110	110	---
014	014	080	063	063	---	111	111	---
015	015	081	064	064	---	112	112	---
016	016	082	065	065	---	113	113	---
017	017	083	066	066	---	114	114	---
018	018	084	067	067	---	115	115	---
019	019	087	068	068	---	116	116	---
020	020	088	069	069	---	117	117	---
021	021	089	070	070	---	118	118	---
022	022	090	071	071	---	119	119	---
023	023	091	072	072	---	120	120	---
024	024	092	073	073	---	121	121	---
025	025	095	074	074	---	122	122	---
026	026	096	075	075	---	123	123	---
027	027	097	076	076	---	124	124	---
028	028	098	077	077	---	125	125	---
029	029	099	078	078	---	126	126	---
030	030	100	079	079	---			
031	031	---	080	080	---			
032	032	---	081	081	---			
033	033	---	082	082	---			
034	034	---	083	083	---			
035	035	---	084	084	---			
036	036	---	085	085	---			
037	037	---	086	086	---			
038	038	---	087	087	---			
039	039	---	088	088	---			
040	040	---	089	089	---			
041	041	---	090	090	---			
042	042	---	091	091	---			
043	043	---	092	092	---			
044	044	---	093	093	---			
045	045	---	094	094	---			
046	046	---	095	095	---			
047	047	---	096	096	---			
048	048	---	097	097	---			
049	049	---						

[JOB# 970]

Files on the memory are listed.

Key operation

970 → [0/FOR] → [CA/AT]

01/01/00 12:09AM
000#0007

#970

%01%	00030	/00030
%03%	00040	/00040
%04%	00144	/00144
%05%	00099	/00099
%08%	00004	/00004
%09%	00053	004/00053
%10%	00049	/00049
%11%	00010	/00010
%13%	00032	/00000
%15%	00070	/00070
%19%	00010	/00000
%23%	00010	/00000
%24%	00010	/00000
%31%	00010	/00000
%32%	00030	/00030
%33%	00099	/00099
%35%	00053	004/00053

BANK 003 2000

BANK 007 2100

BANK 007 2FFF

← File area head bank & address (A)

← Empty area head bank & address (B)

← Actual package RAM area max. bank & address (C)

#904-C: 1. Gasoline discount fractional treatment.

1. Fractional treatment	904-C
Round off	0
Round up	1
Round down	2

*

#904-D: 1. Tabulation setting for gasoline unit price.
2. Gasoline function.

1. Tabulation for gasoline	2. Gasoline function.	904-D
TAB=2 (0.00)	No	0
	Yes	1
TAB=3 (0.000)	No	2
	Yes	3

*

[JOB#905] MRS=0005

#905-B, C, D are for setting of GST (Canada tax) and not required for U.S.A. Input, therefore, as "005."

#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 SBTTL	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 (For Canadian tax): 1. Tax printing when GST is VAT.
2. Tax printing when Tax = 0.

1. GST is VAT	2. When Tax = 0	905-B
Print	Print	0
	Skip	1
Skip	Print	2
	Skip	3

*

#905-C (For Canadian tax): 1. GST EXPT print on X/Z report

1. GST EXPT	905-C
Print	0
Skip	4

*

#905-D (For Canadian tax): 1. TAX METHOD

	Tax4 method (GST)	Tax3 method		Tax2, 1 method (PST)	908-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
2. Credit figure in stock counter

1. Print dept and PLU number	2. Credit figure in stock	906-A
No	Enabled unconditionally	0
	Operation enabled though error display	1
	Disable	2
Yes	Enabled unconditionally	4
	Operation enabled though error display	5
	Disable	6

*

#906-B: 1. Hash departments

1. Hash departments	906-B
Disable	0
Enable	2

*

#906-C: 1. Split price quantity count
2. Split pricing key sequence entry

1. Split pricing counting	2. Split pricing key sequence entry	906-C
Quantity	Disable	0
	Enable	2
Package	Disable	4
	Enable	6

*

#906-D: 1. Fractional quantity

1. Fractional quantity	906-D
No decimal places	0
Decimal places	1

*

[JOB#907] MRS=0000

#907-A: 1. Printing on joamal during slip reading

1. Printing on joamal on slip reading	907-A
Yes	0
No	1

*

#907-B: 1. UPC code printing on journal
2. UPC code printing on receipt

1. On journal	2. On receipt	907-B
Print	Print	0
	Skip	1
Skip	print	2
	Skip	3

*

#907-C: 1. Entry mode position of price level shift

1. Entry mode position	907-C
REG and MGR	0
MGR	1

*

- #907-D: 1. UPC/PLU price look up at refund entry
2. Void mode Enable/disable
3. Dynamic UPC price look up

1. UPC/PLU price look up at refund entry	2. Void mode	3. Dynamic UPC price look up	907-D	
No	Enable	No	0	★
		Yes	1	
	Disable	No	2	
		Yes	3	
Yes	Enable	No	4	
		Yes	5	
	Disable	No	6	
		Yes	7	

[JOB#908] MRS=0000

- #908-A: GT print on Z report

GT1 (NET)	GT2 (+)	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

GT1 (NET)	GT2 (+)	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
2. Resetting of consecutive number in Z1 resetting

1. Add void-mode transaction to hourly total report	2. Resetting of consecutive No. in Z1 resetting	908-C	
Disable	No	0	★
	Yes	1	
Enable	No	4	
	Yes	5	

- #908-D: 1. Printing X/Z report Journal only/Receipt & Journal
2. Z1 resetting that 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 Z report

1. Printing of training GT on Z report	909-A	
Print	0	★
Skip	1	

- #909-B: 1. Printing of training GT on X report

1. Printing of training GT on X report	909-B	
Print	0	★
Skip	1	

- #909-C: 1. Printing of data in void-mode totalizer on Z2 report
2. Printing of data in void-mode 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: 1. Printing of data on PLU resetting report/clear without print
2. Printing of data on UPC resetting report/clear without print

1. PLU resetting report	2. UPC resetting report	909-D	
Print	Print	0	★
	Skip	1	
Skip	Print	4	
	Skip	5	

[JOB#910] MRS=2000

- A: 1. Include/Exclude tax in clerk sales total
2. Include/Exclude tax in cashier sales total

Clerk	Cashier total	910-A	
Exclude tax	Tax excluded	0	★
	Tax included	2	
Include tax	Tax excluded	4	
	Tax included	6	

- #910-B: 1. Cashier#, clerk#, secret code entry
2. Cashier#, clerk# display
3. Cashier# entry (cashier assignment)

1. Cashier#, clerk#, secret code entry	2. Cashier#, clerk# display	3. Cashier# entry	910-B	
Inhibited	Hidden	Non compulsory	0	★
		Compulsory	1	
	Appear	Non compulsory	2	
		Compulsory	3	
Compulsory	Hidden	Non compulsory	4	
		Compulsory	5	
	Appear	Non compulsory	6	
		Compulsory	7	

- #910-C: 1. Clerk# is needed for all transaction/PBLU (PB, CB) only
 2. Automatic clerk sign-off at end of transaction
 3. Clerk system enable/disable

1. Clerk# is needed	2. Automatic clerk sign-off at end of transaction	3. Clerk system	910-C	
All transaction	No	Disable	0	*
		Enable	1	
	Yes	Disable	2	
		Enable	3	
PBLU only	No	Disable	4	
		Enable	5	
	Yes	Disable	6	
		Enable	7	

- #910-D: 1. Cashier key type
 2. Number of cashiers
 3. Cashier key code

1. Cashier key type	2. Number of cashiers	3. Cashier key code	910-D	
Stay down type	4-cashier	Disable	0	*
		Enable	1	
	2-cashier	Disable	2	
		Enable	3	
Barrel-lock type	4-cashier	Disable	4	
		Enable	5	
	2-cashier	Disable	6	
		Enable	7	

[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 1. First print of the second and the following SLIP papers

Printing content	911-B	
Header information	0	*
Arrow mark	1	

- #911-C: 1. Slip printing format
 2. Printing of slip logo

1. Slip printing format	2. Slip logo	911-C	
Detail	Skip	0	*
	Print	1	
Simple (total only)	Skip	4	
	Print	5	

- #911-D: 1. Receipt header format

1. Receipt header format	911-D	
Format 1	0	*
Format 2	2	
Format 3	4	
Format 4	6	

- (Receipt header format)

Format 1	Format 2
01/02/91 10:30AM 123#4567 01A 11 JACK / BETTY	01/02/91 10:30AM 123# 4 5 6 7 01A 11 JACK / BETTY
Format 3	Format 4
01/02/91 10:30AM 123#4567 01A 11	01/02/91 10:30AM 123# 4 5 6 7 01A 11

	Consecutive No. size	Printing of cashier/clerk name
Format 1	Normal	Print
Format 2	Double	Print
Format 3	Normal	Skip
Format 4	Double	Skip

[JOB#912]MRS=0041

- #912-A: 1. Data print format

Data format	912-A	
Month/Day/Year	0	*
Day/Month/Year	1	
Year/Month/Day	2	

- #912-B: 1. Validation print message printing on Slip printer
 2. Time system

1. VP message printing on Slip	2. Time system	912-B	
Check only	12H	0	*
	24H	1	
Check & charge	12H	4	
	24H	5	

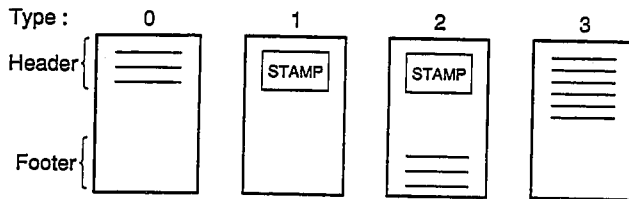
- #912-C: 1. After transaction receipt format
 2. Copy receipt
 3. Footer print control

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

- #912-D: 1. Logo message control

1. Logo message control	912-D	
3-line header instead of stamp	0	*
Stamp only	1	
Stamp and 3-line footer	2	
6-line header insted of stamp	3	

(Logo message format)

**[JOB#913] MRS = 1014**

- #913-A: 1. Tax printing when taxable subtotal is zero
2. Validation print format
3. Content of TOTAL VP amount

VP=Validation print

1.Tax printing	2.VP format	3.VP amount	913-D
Disable	Date & amount	Total amount	0
		Tendered amount	1
	Machine# & amount	Total amount	2
		Tendered amount	3
Enable	Date & amount	Total amount	4
		Tendered amount	5
	Machine# & amount	Total amount	6
		Tendered amount	7

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

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

1.SBTL Print	2.MDSE SBTL Print	3.Escape the compulsion of slip	913-B
No	No	Disable	0
		Enable	1
	Yes	Disable	2
		Enable	3
Yes	No	Disable	4
		Enable	5
	Yes	Disable	6
		Enable	7

- #913-C: 1. Buzzer off 2 sec after lock error.
2. Key buffer clearing at the end of transaction.

1. Error beep	2. Key buffer clearing at the end of transaction.	913-C
2-second off	Disable	0
	Enable	1
Continue	Disable	2
	Enable	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
Disable	All lock error	Enable	0
		Disable	1
	Lock and one shot	Enable	2
		Disable	3
Enable	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 Yes/No
3. Tax delete operation Enable/Disable

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

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

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

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

- #914-D: 1. Manual tax Disable/Enable
2. CHECK, CASHING Enable/Disable
3. Non-add code entry Disable/Enable

1. Manual tax	2. CHECK, CASHING	3. Non-add code entry	914-D
Enable	Disable	Enable	0
		Disable	1
	Enable	Enable	2
		Disable	3
Disable	Disable	Enable	4
		Disable	5
	Enable	Enable	6
		Disable	7

[JOB#915] MRS = 0000

- #915-A: 1. Currency symbol

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

- #915-B: 1. Choice of direct/media tendering mode for paid out

1.PO	915-B
Media tendering	0
Direct	1

- #915-C: 1. Negative sined ST%, ST(-) operation only once/As many times needed
2. RA type

1.ST%, ST(-) operation	2.RA media tendering	915-C	
Unlimited	With tendering	0	★
	Direct	1	
Once only	With tendering	2	
	Direct	3	

[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: Not used (Fixed at "0")

- #916-C: 1. Merchandise subtotal go negative
2. Subtotal entry before tender
3. Food stamp subtotal entry before food stamp tender.

1. Merchandise subtotal go negative	2. Subtotal entry	3. Food stamp subtotal entry	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. Coupon PLU printing on X/Z report
2. Net sales subtotal (NET1) printing on X/Z report
3. CHECK change total printing on X/Z report

1. Print coupon PLU's on general report	2. Print net sales SBTL (NET1) on general report	3. Print CHK CHANGE on general report	916-D	
Print	Print	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-tender finalization after tendering entry
2. Refund type of sale

1. Direct finalization after tendering entry	2. Refund type of sale	918-A
Disable	Slip compulsory	0
	Non-compulsory	1
Enable	Slip compulsory	2
	Non-compulsory	3

★

#918-B: Not used (Fixed to "0")

#918-C: 1. Slip printing of Guest check

1. Slip printing of guest check	918-C
Non-compulsory	0
Compulsory	4

★

#918-D: 1. Printing PBAL/SERVICE data on slip
2. UPC C/D check

1. PBAL/SERVICE data	2. UPC C/D check	918-D
Print	Yes (UPC type)	0
	No (SKU type)	2
Skip	Yes (UPC type)	4
	No (SKU type)	6

★

* The SKU type means the UPC file is used in 13-digit free code. When changing from the UPC type to the SKU type, if the UPC code has already been formed in the file, erase the file first, then form the file again and set the codes.

[JOB#919] MRS = 4000

919-A: 1. Balance look up system
2. Choice of print or skip Slip header when re-order

1. Balance look up system	2. Slip header	919-A
CB/PB LOOK UP	Print	0
	Skip	2
Manual PB	Print	4
	Skip	6

★

919-B: 1. Check/Not to check clerk handling guest check
2. Check/Not to check C/D at PB, CB entry
3. Choice of manual/auto generation GUEST check number

Clerk No.	Check digits	Guest check No.	919-B
No-check	No-check	Manual	0
		Auto	1
	Check	Manual	2
		Auto	3
Check	No-check	Manual	4
		Auto	5
	Check	Manual	6
		Auto	7

★

919-C: 1. Choice to print the PLU whose amount is zero on slip printing.
2. Choice of compulsory/non compulsory PB/CB registration
3. Choice of amount print or skip print when PLU unit price is 0

PLU whose amount is zero	PB/CB	Amount print	919-C
Print	Non compulsory	Skip	0
		Print	1
	Compulsory	Skip	2
		Print	3
Skip	Non compulsory	Skip	4
		Print	5
	Compulsory	Skip	6
		Print	7

★

919-D: 1. Conversion SBTL of native SBTL printing
2. Foreign currency format

1. Conversion SBTL	2. Foreign currency	919-D
Yes	Not	0
	Omit digits lower than TAB position	1
No	Not	4
	Omit digits lower than TAB position	5

[JOB#920] MRS = 000: INLINE PROGRAMMING AREA**[JOB#921] MRS = 0000**

#921-A: Not used (Fixed "0")

#921-B: 1. Maintenance function for preset data

1. Maintenance function for preset data	921-B
No	0
Yes	1

★

#921-C, D: Not used (Fixed at "0")

[JOB#922, 923, 924, 925] MRS = 0000: INLINE PROGRAMMING AREA**[JOB#926] MRS = 0000**

#926-A: 1. RS-232C communication at "Open store"

1. RS-232C communication at "Open store"	926-A
Enable	0
Disable	4

★

* If "RS-232C communication disable at 'Open store'" is programmed all of RS-232C's data communication can not be executed until "Close store" operation is executed.

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

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

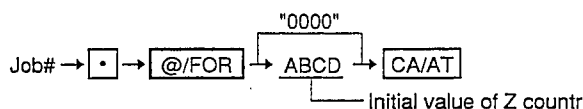
★

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

[JOB#927] MRS = 0000
RS-232C PROGRAMMING AREA

[JOB#930-939] MRS = 0000

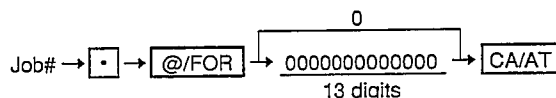
RESET REPORT COUNTER



JOB #	Function
930	Z1 report counter (General report)
931	Console Z1 report counter
932	Server Z1 report counter
933	Hourly Z1 report counter
934	PLU Z1 report counter
935	Cashier Z1 report counter
936	PBLU Z1 report counter
937	Z2 general report counter
938	Console Z2 report counter
939	31 day daily net Z2 report counter

[JOB#942, 943 and 945] MRS = 00000000000000

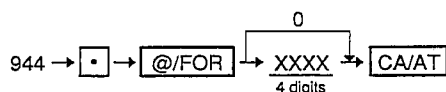
GT COUNTER PRESETTING



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

Note: GT1 is obtained by calculation
Equation: $GT1 = GT2 - GT3$

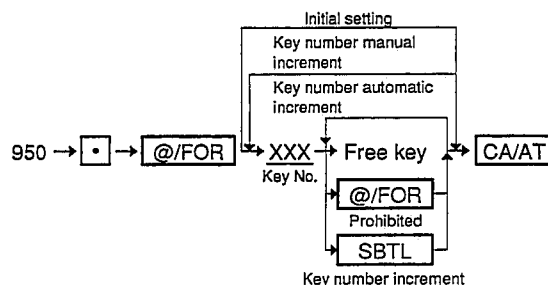
[JOB#944] PGM2 secret code presetting MRS = 0000



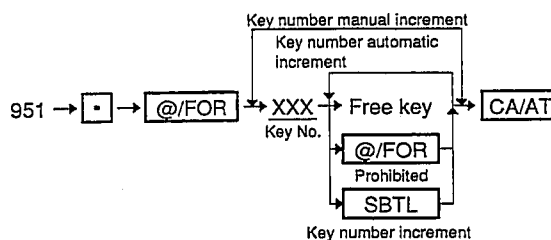
NOTE: When the secret code "0" is programmed, the secret code entry is inhibited.

[JOB#950] MRS = STANDARD KEY LAYOUT

Free key layout (Except for department keys and direct PLU keys.)



[JOB#951] MRS = STANDARD KEY LAYOUT
Free key layout (department keys and direct PLU keys)



- Programming of keys to be dept keys or direct PLU keys on the keyboard.
- Key No. is assigned to each key which is supposed to be dept. Key or direct PLU key by depressing the key after entering the key No.
- Those keys programmed by this job No. will be dept. keys if dept. code is assigned, and will be direct PLU keys if PLU code is assigned in the PGM2 mode.

FUNCTION KEY LIST

No.	Function	Func. Key
01	0 KEY	0 KEY
02	1 KEY	1 KEY
03	2 KEY	2 KEY
04	3 KEY	3 KEY
05	4 KEY	4 KEY
06	5 KEY	5 KEY
07	6 KEY	6 KEY
08	7 KEY	7 KEY
09	8 KEY	8 KEY
10	9 KEY	9 KEY
11	00 KEY	00 KEY
12	000 KEY	000 KEY
13	DECIMAL POINT	. KEY
14	CLEAR	CL
15	@/FOR	@/FOR
16	SUB TOTAL	SBTL
17	CA/AT	CA/AT
18	MDSE SBTL	MDS ST
19	GAS SBTL	GAS ST
20	#	#
21	NO SALE	NS
22	SCALE	SCALE
23	DEPT#	DEPT#
24	PLU/SUB	PLU/SB
25	AMOUNT	AMOUNT
26	UPC	UPC
27	REPEAT	REPEAT
28	%1	%1
29	%2	%2
30	%3	%3
31	%4	%4
32	(-)1	(-)1
33	(-)2	(-)2
34	(-)3	(-)3
35	(-)4	(-)4
36	GROUP DISC%1	GDSC%1
37	GROUP DISC%2	GDSC%2
38	GROUP DISC%3	GDSC%3
39	REFUND SALE	RF SAL
40	LEV#1	LEV#1
41	LEV#2	LEV#2

No.	Function	Func. Key
42	LEV#3	LEV#3
43	TAX1 SHIFT	TAX1SF
44	TAX2 SHIFT	TAX2SF
45	TAX3 SHIFT	TAX3SF
46	TAX4 SHIFT	TAX4SF
47	FS SHIFT	FS SFT
48	GROUP1 SHIFT	GD1SFT
49	GROUP2 SHIFT	GD2SFT
50	GROUP3 SHIFT	GD3SFT
51	PRINT	PRINT
52	SLIP	SLIP
53	RCPT	RCPT
54	VOID	VOID
55	REFUND	RFND
56	TAX	TAX
57	AUTO	AUTO
58	AUTO2	AUTO2
59	AUTO3	AUTO3
60	AUTO4	AUTO4
61	AUTO5	AUTO5
62	CASH2	CA2
63	CHECK	CHK
64	CH1	CH1
65	CH2	CH2
66	CH3	CH3
67	CH4	CH4
68	CH5	CH5
69	CH6	CH6
70	CH7	CH7
71	CONV1	CONV1
72	CONV2	CONV2
73	PB	PB
74	CB	CB
75	SERVICE	SRVC
76	DEPOSIT	DEPO
77	DEPOSIT REFUND	DEP RF
78	FS TEND	FSTEND
79	RA	RA
80	PO	PO
81	REASON#	R/C
82	CASHIER#	CAS#
83	CLEAR#	CLK#
84	INQUIRE	INQ.

ER3550 KEY POSITION

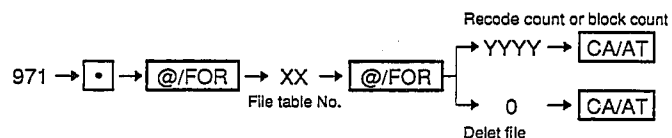
R	J	22	30	38	46	54	62	70	78	86	94	102	110	118	126
7	14	21	29	37	45	53	61	69	77	85	93	101	109	117	125
6	13	20	28	36	44	52	60	68	76	84	92	100	108	116	124
5	12	19	27	35	43	51	59	67	75	83	91	99	107	115	123
4	11	18	26	34	42	50	58	66	74	82	90	98	106	114	122
3	10	17	25	33	41	49	57	65	73	81	89	97	105	113	121
2	9	16	24	32	40	48	56	64	72	80	88	96	104	112	120
1	8	15	23	31	39	47	55	63	71	79	87	95	103	111	119

Fig. 6-1

[JOB#971]

SRV FILE PROGRAMMING. (File creation deletion and change of record count or block count)

Key operation



This operation is performed to increase or reduce the number of records in a file or to create or delete a file.

File table No.	File name
1	Department-I (8 chara)* ²
2	Department-II (16 chara)* ²
6	Clerk
8	Cashier
10	Hourly
11	PLU-I (8 chara)* ²
12	PLU-II (16 chara)* ²
13	Dayly net total
14	Gross margin* ¹
15	Reg buffer
16	PBLU
17	UPC-I (8 chara) (preset only)* ²
18	UPC-II (16 chara) (preset only)* ²
19	UPC-III (8 chara)* ²
20	UPC-IV (16 chara)* ²
21	UPC multi level-I (preset only)* ²
22	UPC multi level-II* ²
23	Mix & match
24	Link table
25	Dynamic UPC-I (8 chara)* ²
26	Dynamic UPC-II (16 chara)* ²
27	Reason* ³
28	Negative #
29	Positive #
30	Charge poster (Dynamic account)
31	Spirit pricing buffer
32	Term Department* ¹
33	Term Transaction* ¹
34	Term Clerk* ¹
35	Term Cashier* ¹
36	Term Gross margin* ¹
37	Term Reason* ¹
38	Maintenance Dept-I (8 chara)* ²
39	Maintenance Dept-II (16 chara)* ²
40	Maintenance PLU-I (8 chara)* ²
41	Maintenance PLU-II (16 chara)* ²
42	Maintenance Gross margin
43	Maintenance UPC-I (8 chara)* ²
44	Maintenance UPC-II (16 chara)* ²
45	Maintenance UPC multi level
46	Maintenance Mix & match
47	Maintenance Link table
99	All term file* ¹

NOTE: 1. *¹ = Create (same record as master file) or Delete

2. *² = Create one of I, II, III, IV (Files of the same character size should be formed between Department and Maintenance Dept., PLU and Maintenance PLU, and UPC and maintenance UPC.)

3. *³ = Created records is fixed number

File table (The file of ★ are created at the MRS)

Table No.	File Name	File No.	No. of Record		No. of Block		Label Size	Record Length	Memory Size
			Default	Max	Def.	Max			
★ 1	DEPT I (TEXT 8ch)	01	30	999	1	1	2	34	*1
2	DEPT II (TEXT 16ch)	01	0	999	1	1	2	42	*1
★ 3	MISC/MEDIA PRESET	02	40	40	1	1	1	12	480
★ 4	TRANSACTION TEXT	03	144	144	1	1	1	9	1296
★ 5	TRANSACTION	04	99	99	1	1	1	10	990
6	CLERK PRESET	05	0	99	1	1	1	25	*1
7	CLERK TRANSACTION	06	29	29	0	99	1	10	*2
★ 8	CASHIER PRESET	07	4	99	1	1	1	19	*1
★ 9	CASHIER TRANS.	08	53	53	4	99	1	10	*2
★ 10	HOURLY	09	49	49	1	1	1	10	490
★ 11	PLU I (TEXT 8ch)	10	10	***	1	1	3	35	*3
12	PLU II (TEXT 16ch)	10	0	***	1	1	3	43	*3
★ 13	DAILY NET	11	32	32	1	1	3	12	384
14	GROSS MARGIN	12	0	999	1	1	2	10	*1
★ 15	REG BUFFER	13	70	255	1	1	0	64	*1
16	PB LOOK UP	14	0	***	1	1	4	23	*1
17	UPC I (TEXT 8ch)	15	0	***	1	1	7	24	*3
18	UPC II (TEXT 16ch)	15	0	***	1	1	7	32	*3
★ 19	UPC III (TEXT 8ch)	15	10	***	1	1	7	37	*3
20	UPC IV (TEXT 16ch)	15	0	***	1	1	7	45	*3
21	UPC MULTI. PRICE I	16	0	***	1	1	7	13	*3
22	UPC MULTI. PRICE II	16	0	***	1	1	7	31	*3
★ 23	MIX & MATCH TABLE	17	10	99	1	1	1	15	*1
★ 24	LINK TABLE	18	10	99	1	1	1	31	*1
25	DYNAMIC UPC I (8ch)	19	0	***	1	1	7	37	*3
26	DYNAMIC UPC II (16ch)	19	0	***	1	1	7	45	*3
27	REASON	20	0	65	1	1	2	26	1690
28	NEGATIVE #	21	0	***	1	1	8	9	*1
29	POSITIVE #	22	0	***	1	1	8	8	*1
30	CHARGE POSTING	23	0	***	1	1	2	16	*1
★ 31	UPC SPLIT PRICING	24	10	255	1	1	7	25	*1
★ 32	TERM DEPT	25	30	999	1	1	2	16	*1
★ 33	TERM TRANS	26	99	99	1	1	1	10	990
34	TERM CLERK	27	29	29	0	99	1	10	*2
★ 35	TERM CASHIER	28	53	53	4	99	1	10	*2
36	TERM GROSS MARGIN	29	0	999	1	1	2	7	*1
37	TERM REASON	30	65	65	1	1	2	11	715
38	MNT. DEPT I (8ch)	31	0	999	1	1	5	24	*1
39	MNT. DEPT II (16ch)	31	0	999	1	1	5	32	*1
40	MNT. PLU I (8ch)	32	0	***	1	1	6	26	*3
41	MNT. PLU II (16ch)	32	0	***	1	1	6	34	*3
42	MNT. GROSS MARGIN	33	0	999	1	1	5	9	*1
43	MNT. UPC I (8ch)	34	0	***	1	1	10	28	*3
44	MNT. UPC II (16ch)	34	0	***	1	1	10	36	*3
45	MNT. MULTI PRICE	35	0	***	1	1	10	17	*3
46	MNT. MIX & MATCH	36	0	999	1	1	4	10	*1
47	MNT. LINK TABLE	37	0	99	1	1	4	35	*1
48	IRC CLERK PRESET	38	0	1	1	1	1	25	25
49	IRC CLERK TEMP.	39	29	29	0	1	1	10	290
50	IRC PBLU TEMP.	40	0	1	1	1	4	23	23
51	CONSOL. DEPT	41	0	999	1	1	2	16	*1
52	CONSOL. TRNS.	42	0	99	1	1	1	10	990
53	CONSOL. HOURLY	43	0	49	1	1	1	10	490
54	CONSOL. PLU	44	0	***	1	1	3	16	*3

Table No.	File Name	File No.	No. of Record		No. of Block		Label Size	Record Length	Memory Size
			Default	Max	Def.	Max			
55	CONSOL. DAILY NET	45	0	32	1	1	3	12	384
56	CONSOL. GRS. MARGIN	46	0	999	1	1	2	7	*1
57	CONSOL. REASON	47	0	65	1	1	2	11	715
58	SAVE DEPT	48	0	999	1	1	2	16	*1
59	SAVE TRNS.	49	0	99	1	1	1	10	990
60	SAVE HOURLY	50	0	49	1	1	1	10	490
61	SAVE PLU	51	0	***	1	1	3	16	*3
62	(NOT USED)	52	0	0	0	0	0	0	0
63	SAVE REASON	53	0	65	1	1	2	11	715
64	SAVE CHARGE POST.	54	0	***	1	1	2	16	*1
65	RECEIVE DEPT	55	0	999	1	1	2	16	*1
66	RECEIVE TRNS.	56	0	99	1	1	1	10	990
67	RECEIVE CLERK	57	0	29	1	1	1	10	290
68	RECEIVE CASHIER	58	0	53	1	1	1	10	530
69	RECEIVE HOURLY	59	0	49	1	1	1	10	490
70	RECEIVE PLU	60	0	***	1	1	3	16	*3
71	RECEIVE PBLU	61	0	***	1	1	4	23	*1
72	RECEIVE DAILY NET	62	0	32	1	1	3	12	384
73	RCV. GROSS MARGIN	63	0	999	1	1	2	7	*1
74	RECEIVE REASON	64	0	65	1	1	2	11	715
75	RCV CHARGE POSTING	65	0	***	1	1	2	16	*1
76	UPC SALES LOG BUF.	66	0	***	1	1	0	64	*1
77	RCV UPC LOG BUF.	67	0	***	1	1	0	64	*1

Memory size: *1 = (Created No. of record) × (Record length)

*2 = (Created No. of block) × (Label size) × (No. of record) + (Created No. of block) × (Record length-Label size) × (No. of record)

*3 = (Created No. of record) × (Record length + 2)

[JOB#995]

SIO programming

Key operation

#995-B: 1. DR sensing

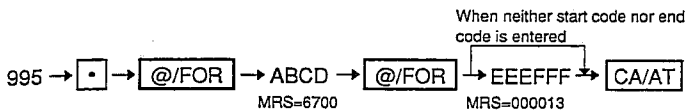
2. CS sensing

3. CD sensing

* DR = Data terminal ready

CS = Carrier sense

CD = Carrier detector



#995-A: 1. Start code
2. Character match
3. Sam check

1.Start code	2.Character match	3.Sum check	995-A
No	Fixed length	No	0
		Yes	1
	Yes	No	2
		Yes	3
Yes	Fixed length	No	4
		Yes	5
	Yes	No	6
		Yes	7

1.DR sensing	2.CS sensing	3.CD sensing	995-B
No	No	No	0
		Yes	1
	Yes	No	2
		Yes	3
Yes	No	No	4
		Yes	5
	Yes	No	6
		Yes	7

#995-C: 1. Data rate

1.Data rate	995-C
9,600 bps	0
4,800 bps	1
2,400 bps	2
1,200 bps	3
600 bps	4
300 bps	5

#995-D: 1. Code format

1.Code format	995-D
7 bits + parity (odd)	0
7 bits + parity (even)	1
8 bits + parity (odd)	2
8 bits + parity (even)	3
7 bits + parity (odd)	4
7 bits + parity (even)	5

* } 1 stop bit

} 2 stop bit

EEE*: Start code

FFF*: End code

(Character match code)

Decimal number (0 - 255)

* The "EEE" does not need to be entered when "Start code No" has been selected.

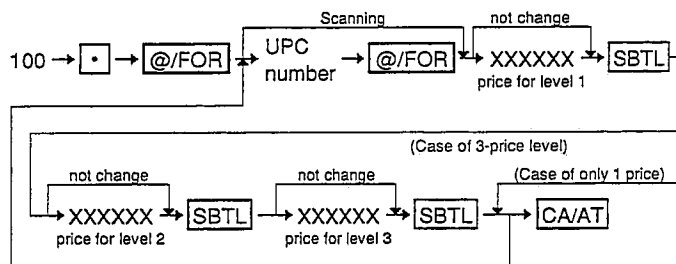
** The "FFF" does not need to be entered when "End code No" (Fixed Length) has been selected. (When "Start code Yes" has been selected, however, arbitrary three digits need to be entered after a start code.)

7. PROGRAM (PGM2/PGM1) MODE

7-1. Programming

[JOB#100]

UPC PRICE

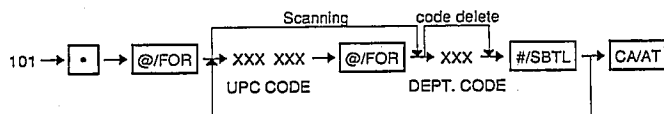


MRS = 0

The price entry of level 2 and level 3 is allowed only when the UPC multi-price level file is created and multi-price enable/compulsory is programmed.

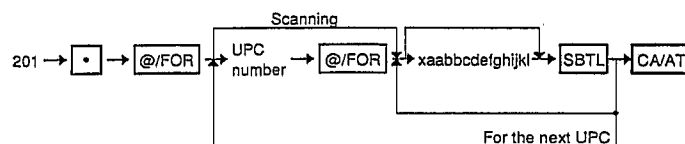
[JOB#101]

UPC code definition and the DEPT to be tied with the UPC PRESET.



[JOB#201]

UPC PROGRAMMING



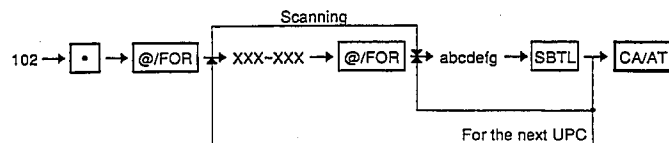
X: Sign -/+ = 1/0
 aa: LINK TABLE NUMBER = 0 - 99
 bb: MIX AND MATCH GROUP/BASE QUANTITY* = 0 - 99
 c: MULTI-LEVEL ENFORCED/MULTI-LEVEL/NORMAL = 2/1/0
 d: SPLIT PRICING/MIX AND MATCH PRICING = 1/0
 e: GROUP3 DISCOUNTABLE/NON-GROUP3 DISCOUNTABLE = 1/0
 f: GROUP2 DISCOUNTABLE/NON-GROUP2 DISCOUNTABLE = 1/0
 g: GROUP1 DISCOUNTABLE/NON-GROUP1 DISCOUNTABLE = 1/0
 h: FOOD STAMP ELIGIBLE/INELIGIBLE = 1/0
 i: TAXABLE 4/NON-TAXABLE 4 = 1/0
 j: TAXABLE 3/NON-TAXABLE 3 = 1/0
 k: TAXABLE 2/NON-TAXABLE 2 = 1/0
 l: TAXABLE 1/NON-TAXABLE 1 = 1/0

* Depends on value in "d".

MRS = 0

[JOB#102]

PROGRAMMING OF UPC STOCK (ADD)



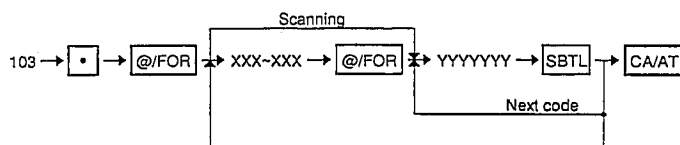
abcdefg: Stock value = 1 - 9999999

THE STOCK VALUE IS MAX. 7 DIGITS. THE STOCK VALUE ENTERED IS ADDED TO THE UPC STOCK COUNTER.

MRS = 0.00

[JOB#103]

PROGRAMMING OF UPC STOCK (SUB)

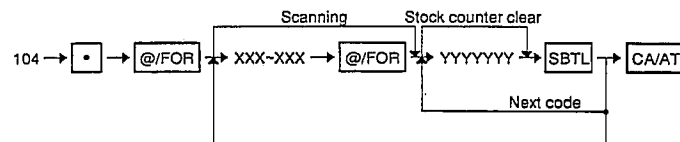


XXX - XXX: UPC code

YYYYYYY: UPC stock (1 to 9999.999)

[JOB#104]

PROGRAMMING OF UPC STOCK (OVERWRITE)

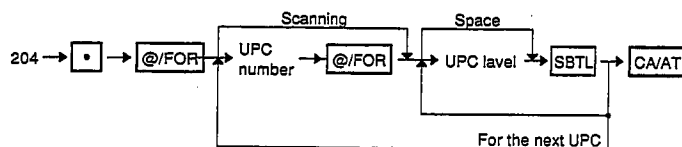


XXX - XXX: UPC code

YYYYYYY: UPC stock (0 to 9999.999)

[JOB#204]

UPC TEXT ASSIGNMENT



Definitions:

UPC LABEL ENTRY: TEXT CAN BE ENTERED BY USING CHARACTER KEYS OR NUMERIC KEYS.

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

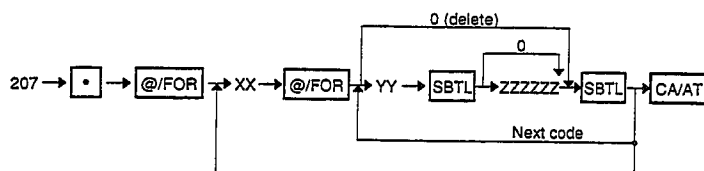
zzz → [00] KEY zzz = CHARACTER CODE (3 DIGITS)

UP TO 8 (or 16) CHARACTERS CAN BE PROGRAMMED.

Please refer to section 7-2.

[JOB#207]

MIX-AND-MATCH TABLE



Definitions:

xx: TABLE NUMBER = 1 - 99

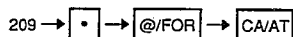
yy: BASE QUANTITY = 1 - 99

zzzzzz: PRICE

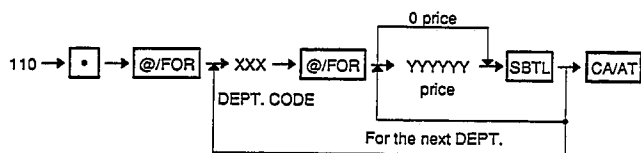
MRS = 0

[JOB#209]

DYNAMIC UPC FILE TO MAIN UPC FILE

**[JOB#110]**

PROGRAMMING OF DEPT. PRICE



XXX: DEPT-CODE = 01 - 999

YYYYYY: PRICE = 999999

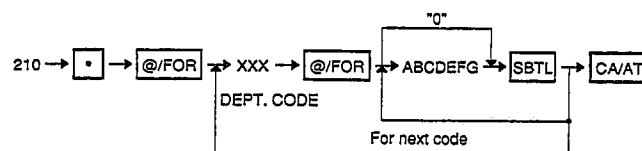
Preset price is max. 6 digits.

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 been programmed to allow preset price entry in dept. function programming (JOB#210).

MRS = 000000

[JOB#210]

PROGRAMMING OF DEPT. FUNCTION



XXX: DEPT. code (01 - 999)

A: Non-add code entry	210-A
Non compulsory	0
Compulsory	1

B: Item validation printing	210-B
Non compulsory	0
Compulsory	1

C: Tare table number	210-C
No tare function	0
1 - 9	1 - 9

D: Scale entry	210-D
Inhibited	0
Allowed	1

E: SICS Function	210-E
Normal	0
Single item cash sale	1
Single item finalize	2

F: Selection of the group	210-F
Normal	0
Hash	1
ALLON	2

G: Amount entry type	210-G
Inhibited	0
Open	1
Preset	2
Open and preset	3
Delete	4

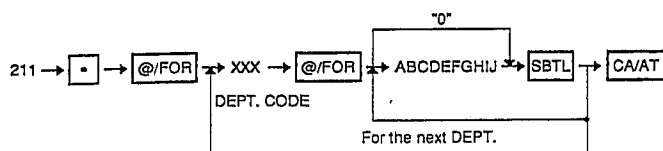
* HASH department programming must be allowed in SRV mode to PGM programming.

A selection of the "preset entry" (G) is inhibited when the "GALLON" selection (F) is done.

MRS = 00001

[JOB#211]

DEPT. TAX STATUS AND SIGN PROGRAMMING



XXX: DEPT. CODE = 01 ~ 999

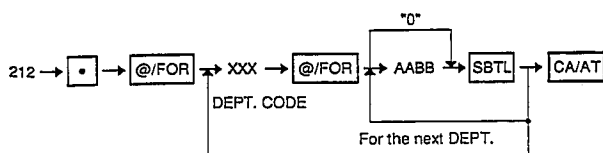
A: SIGN-	= 1
SIGN+	= 0
B: MARKDOWN INHIBIT	= 1
MARKDOWN ALLOW	= 0
C: Group 3 discountable	= 1
Non-group 3 discountable	= 0
D: Group 2 discountable	= 1
Non-group 2 discountable	= 0
E: Group 1 discountable	= 1
Non-group 1 discountable	= 0
F: Food stampable	= 1
Non-food stampable	= 0
G: Taxable 4	= 1
Non-taxable 4	= 0
H: Taxable 3	= 1
Non-taxable 3	= 0
I: Taxable 2	= 1
Non-taxable 2	= 0
J: Taxable 1	= 1
Non-taxable 1	= 0

MRS = 0000000000

[JOB#212]

HALO, LALO TABLE NO. PRESET

(The DEPT number must have been preset by JOB#111)



XXX: DEPT. CODE = 01 ~ 999

AA: HALO table No. = 00 ~ 15*

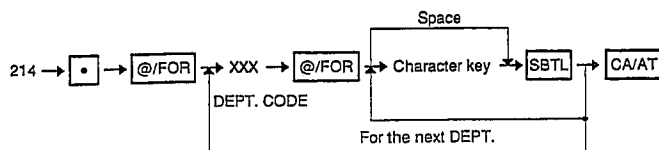
BB: LALO table No. = 00 ~ 15*

* In the case of selecting "table No. 15", the amount limitation is the preset price (JOB#110)

MRS = 0000

[JOB#214]

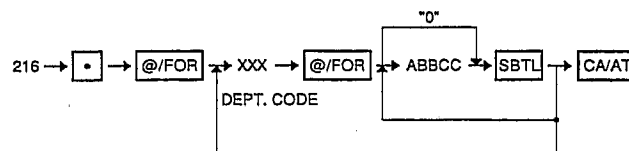
DEPT. TEXT PROGRAMMING

Characters can be entered by using alphabetic keys or numeric keys.
Please refer to section 7-2.

MRS = DPT. XX

[JOB#216]

PROGRAMMING OF DEPT. GROUP



XXX: DEPT. code = 01 ~ 999

A: Clerk group number = 0 ~ 9

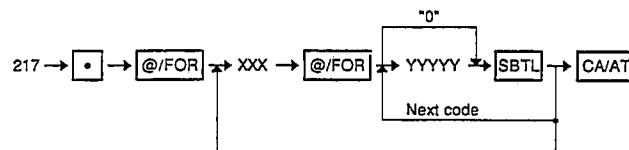
BB: Link table number = 0 ~ 99

CC: Group number = 0 ~ 15

MRS = 00000

[JOB#217]

GROSS MARGIN RATE



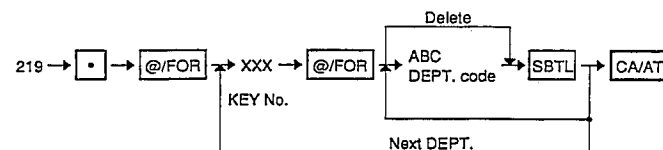
XXX: DEPT. code = 01 ~ 999

YYYYY: % rate 0 ~ 10000

MRS = 0

[JOB#219]

LINK NUMBER PROGRAMMING FOR DIRECT DEPT. KEYS

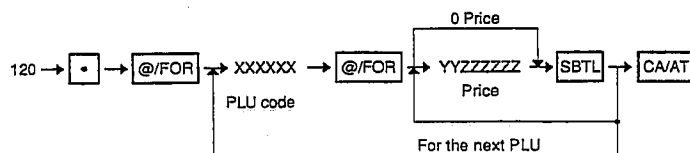


DEPT. code is assigned to the key no. Which has been programmed in JOB#951 programming.

ABC: DEPT, CODE = 1 ~ 999

[JOB#120]

PRICE PROGRAMMING FOR PLU'S



XXXXXX: PLU CODE = 000001 ~ 999999

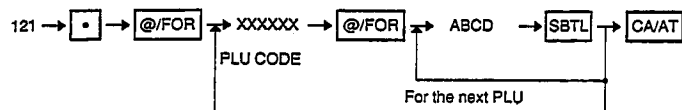
YY: SPLIT PRICING BASE Q'TY = 00 ~ 99

ZZZZZZ: PRICE = 0 ~ 999999

PLU code is max. 6 digits.

* Any PLU code should already be defined when its unit price is programmed.

MRS = 00000000

[JOB#121]**PROGRAMMING OF DEPARTMENTS TO BE ASSOCIATED WITH PLUS**

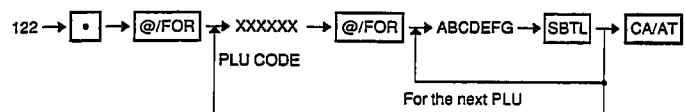
XXXXXX: PLU CODE = 1 ~ 999999

A: DELETE/PLU/SUB-DEPT/INHIBIT = 3/2/1/0

BCD: DEPT. CODE = 1 ~ 999

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

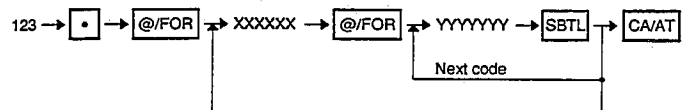
MRS = 2001

[JOB#122]**PROGRAMMING OF PLUS STOCK (ADD)**

ABCDEFG: Stock value = 1 ~ 9999999

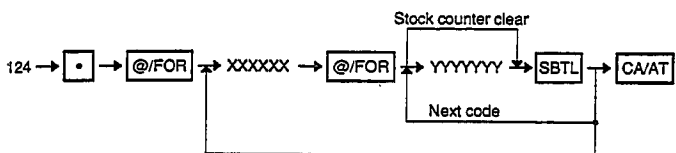
The stock value is max. 7 digits. The stock value entered is added to the PLU stock counter.

MRS = 0.00

[JOB#123]**PROGRAMMING OF PLU STOCK (SUB)**

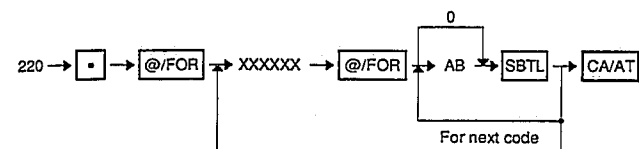
XXXXXX: PLU code = 1 ~ 999999

YYYYYY: PLU stock 1 ~ 9999.999

[JOB#124]**PROGRAMMING OF PLU STOCK (OVER WRITE)**

XXXXXX: PLU code 1 ~ 999999

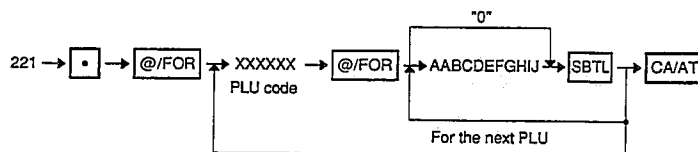
YYYYYY: PLU stock 0 ~ 9999.999

[JOB#220]**PLU FUNCTION PROGRAMMING**

XXXXXX: PLU code 1 ~ 9999 = 1 ~ 999999

A: Tare table number	220-A
No tare function	0
1 ~ 9	1 ~ 9

B: Scale	220-B
Inhibit	0
Enable	1
Compulsory	2

[JOB#221]**PLU MODIFY PROGRAMMING**

XXXXXX: PLU code

= 1 ~ 999999

AA: Link table number = 0 ~ 99

B: Sign- = 1

Sign+ = 0

C: Group 3 discountable = 1

Non-group 3 discountable = 0

D: Group 2 discountable = 1

Non-group 2 discountable = 0

E: Group 1 discountable = 1

Non-group 1 discountable = 0

F: Food stampable = 1

Non-food stampable = 0

G: Taxable 4 = 1

Non-taxable 4 = 0

H: Taxable 3 = 1

Non-taxable 3 = 0

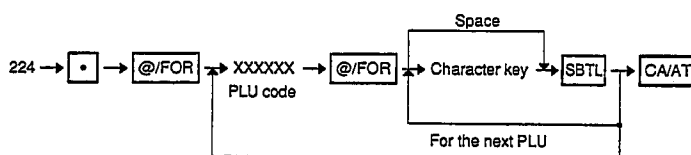
I: Taxable 2 = 1

Non-taxable 2 = 0

J: Taxable 1 =

Non-taxable =

MRS = 0000000000

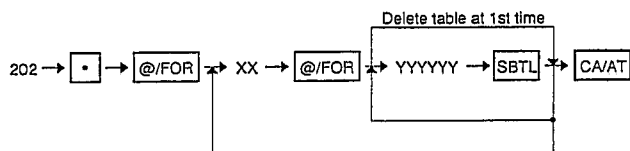
[JOB#224]**PLU TEXT PROGRAMMING**

Characters can be entered by using alphabetic keys or numeric keys.
Please refer to section 7-2.

UP TO 8 (OR 16) CHARACTERS CAN BE PROGRAMMED.

MRS = PLU-XXXXXX

[JOB#202] LINK TABLE



XX: Table number = 1 ~ 99

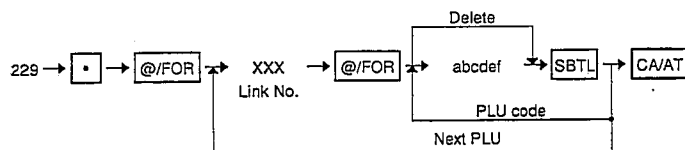
YYYYYY: DEPT./PLU number*

* If the number is 3 or less digits in length it is assumed to be a department number. Otherwise it is assumed to be a PLU number.

NOTE: for multi level UPC items the second level automatically increments to the next link table. For example, it bottle deposit 5¢ (price level-1) is in link Table 4 then bottle 30¢ (price level-2) would be in Link Table 5.

[JOB#229]

LINK NUMBER PROGRAMMING FOR DIRECT PLU KEYS

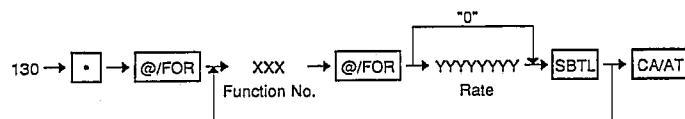


PLU code is assigned to the key no. Which has been programmed in JOB#951 programming.

abcdef: PLU CODE = 1 ~ 999999

[JOB#130]

RATE PROGRAMMING



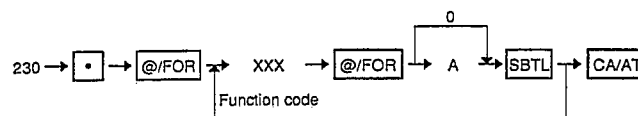
RATE PROGRAMMING

Function No.	Function	Entry range	Remarks
1	(-)1	0 to 999999	*1 (-) unit price
2	(-)2	0 to 999999	
3	(-)3	0 to 999999	
4	(-)4	0 to 999999	
5	%1	0 to 100.00	* %-rate
6	%2		
7	%3		
8	%4		
9	Group disc. %1		
10	Group disc. %2		
11	Group disc. %3		
75	conversion	0 to 99999.999	Conversion rate
76	conversion 2	0 to 99999.999	Conversion rate

*1: The preset rate is not valid when the reason file is created

[JOB#230]

MISC KEY PROGRAMMING 1



A: Validation print Compulsory

= 1

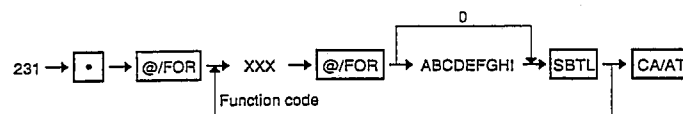
Validation print Non-Compulsory

= 0

Function No.	Function
1	(-)1
2	(-)2
3	(-)3
4	(-)4
5	%1
6	%2
7	%3
8	%4
9	Group disc. %1
10	Group disc. %2
11	Group disc. %3
43	Manual tax
57	Refund
70	RA
71	PO

[JOB#231]

MISC KEY PROGRAMMING 2



This programming allows you to specify the sign, discount group, food stamp eligibility, and tax status for coupon, mark down, or discount functions.

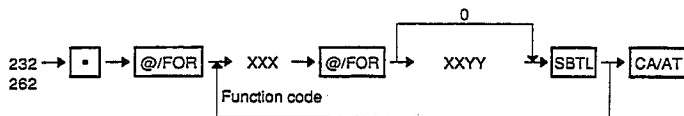
A: Sign-	= 1
Sign+	= 0
B: Group 3 discountable	= 1
Non-group 3 discountable	= 0
C: Group 2 discountable	= 1
Non-group 2 discountable	= 0
D: Group 1 discountable	= 1
Non-group 1 discountable	= 0
E: Food stampable	= 1
Non-food stampable	= 0
F: Taxable 4	= 1
Non-taxable 4	= 0
G: Taxable 3	= 1
Non-taxable 3	= 0
H: Taxable 2	= 1
Non-taxable 2	= 0
I: Taxable 1	= 1
Non-taxable 1	= 0

Function No.	Function
1	(-)1
2	(-)2
3	(-)3
4	(-)4
5	%1
6	%2
7	%3
8	%4
9	Group disc. %1
10	Group disc. %2
11	Group disc. %3

MRS = 000000000

[JOB#232, 262]

HALO, LALO TABLE NO.



XXX: Function No.

B: Exponent (0 ~ 8)

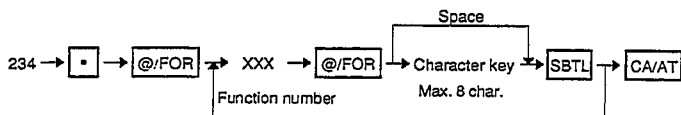
XX: HALO table No. = 00 ~ 15

YY: LALO table No. = 00 ~ 15

JOB#	Function No.	Function	Remarks
232	1	⊖1	
	2	⊖2	
	3	⊖3	
	4	⊖4	
	43	TAX	
262	70	RA	
	71	PO	
	67	CA1	
	68	CA2	
	94	CHK	
	80	CH1	
	82	CH2	
	84	CH3	
	86	CH4	
	88	CH5	
	90	CH6	
	92	CH7	
	73	CHK CHANGE	
	72	CA/CHK	

[JOB#234]

TEXT PROGRAMMING FOR MISC KEYS



XXX: FUNCTION CODE

Characters can be entered by using character keys or numeric keys.
 The key entry sequence for entering one character by numeric keys is as follows:

XXX → 00 KEY XXX: CHARACTER CODE (3DIGITS)

Please refer to section 7-2.

Function list

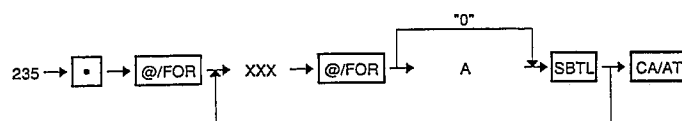
Function No.	FUNCTION	DEFAULT TEXT
1	(-)1	(-)1
2	(-)2	(-)2
3	(-)3	(-)3
4	(-)4	(-)4
5	%1	%1
6	%2	%2
7	%3	%3
8	%4	%4
9	GROUP DISC%1	GDISC%1
10	GROUP DISC%2	GDISC%2
11	GROUP DISC%3	GDISC%3
12	VENDER COUPON UPC	V. CP UPC
13	STORE COUPON UPC	S. CP UPC
14	GALLONAGE DISCOUNT (CASH)	GASDIS1
15	GALLONAGE DISCOUNT (CASH2)	GASDIS2
16	GALLONAGE DISCOUNT (CHK)	GASDIS3
17	GALLONAGE DISCOUNT (CHARGE1)	GASDIS4
18	GALLONAGE DISCOUNT (CHARGE2)	GASDIS5
19	GALLONAGE DISCOUNT (CHARGE3)	GASDIS6
20	GALLONAGE DISCOUNT (CHARGE4)	GASDIS7
21	GALLONAGE DISCOUNT (CHARGE5)	GASDIS8
22	GALLONAGE DISCOUNT (CHARGE6)	GASDIS9
23	GALLONAGE DISCOUNT (CHARGE7)	GASDIS10
24	NET1	NET1
25	TAXABLE1 ST	TAX1 ST
26	GROSS TAX1	GRS TAX1
27	REFUND TAX1	RFD TAX1
28	NET TAX1	TAX1
29	TAXABLE2 ST	TAX2 ST
30	GROSS TAX2	GRS TAX2
31	REFUND TAX2	RFD TAX2
32	NET TAX2	TAX2
33	TAXABLE3 ST	TAX3 ST
34	GROSS TAX3	GRS TAX3
35	REFUND TAX3	RFD TAX3
36	NET TAX3	TAX3
37	TAXABLE4 ST	TAX4 ST
38	GROSS TAX4	GRS TAX4
39	REFUND TAX4	RFD TAX4
40	NET TAX4	TAX4
41	GROSS M-TAX	GRS MTAX
42	REFUND M-TAX	RFD MTAX
43	NET M-TAX	M-TAX
44	NON GST SUBTOTAL	GST EXPT
45	PST TOTAL	PST TTL
46	GST TOTAL	GST TTL
47	FS1 FORGIVE	FS TX1
48	FS2 FORGIVE	FS TX2
49	FS3 FORGIVE	FS TX3
50	TOTAL TAX	*TTL TAX
51	COUPON PLU	NET2
52	COUPON PLU	CP PLU
53	VOID	VOID
54	SBTL VOID	SBTL VD
55	MANAGER VOIDF	MGR VD

Function No.	FUNCTION	DEFAULT TEXT
56	VOID MODE	VOID
57	REFUND	REFUND
58	HASH VOID	HASH VD
59	HASH REFUND	HASH RF
60	NO SALE	NCSALE
61	VP COUNTER	VPCNT
62	SLIP COUNTER	SLIP CNT
63	DRAWER COUNTER	DRW CNT
64	PBAL COUNTER	PBAL CNT
65	TRANSACTION COUNTER	TRANS CT
66	NET3 (SALES)	NET3
67	CASH	CASH
68	CASH2	CASH2
69	FS SALES	FSSALE
70	RA	***RA
71	PO	***PO
72	CHECK CASHING	CA/CHK
73	CHECK CHANGE	CHK/CG
74	FS CHANGE	FS/CG
75	CONVERSION1	CONV 1
76	CONVERSION2	CONV 2
77	CONVERSION3	CONV 3
78	CONVERSION4	CONV 4
79	FS IN DRAWER	FS/ID
80	GROSS CHARGE1	CHARGE1
81	REFUND CHARGE1	CHARGE1-
82	GROSS CHARGE2	CHARGE2
83	REFUND CHARGE2	CHARGE2-
84	GROSS CHARGE3	CHARGE3
85	REFUND CHARGE3	CHARGE3-
86	GROSS CHARGE4	CHARGE4
87	REFUND CHARGE4	CHARGE4-
88	GROSS CHARGE5	CHARGE5
89	REFUND CHARGE5	CHARGE5-
90	GROSS CHARGE6	CHARGE6
91	REFUND CHARGE6	CHARGE6-
92	GROSS CHARGE7	CHARGE7
93	REFUND CHARGE7	CHARGE7-
94	CHECK	CHECK
95	CASH+CHECK IN DRAWER	CA+CK ID
96	CASH IN DRAWER	***CID
97	DEPOSIT	DEPOSIT
98	DEPOSIT REFUND	DPST RF
99	SERVICE	SERVICE
100	GROUP 1	GROUP 1
101	GROUP 2	GROUP 2
102	GROUP 3	GROUP 3
103	GROUP 4	GROUP 4
104	GROUP 5	GROUP 5
105	GROUP 6	GROUP 6
106	GROUP 7	GROUP 7
107	GROUP 8	GROUP 8
108	GROUP 9	GROUP 9
109	TOTAL TIME	TTL TIME
110	OP TIME	OP TIME
111	(+) DEPT TOTAL	+DEPT TL

Function No.	FUNCTION	DEFAULT TEXT
112	(-) DEPT TOTAL	DEPT (-)
113	HASH (+) DEPT TOTAL	*HASH TL
114	HASH (-) DEPT TOTAL	HASH (-)
115	(+) GALLON TOTAL	*GAS TL
116	(-) GALLON TOTAL	GAS (-)
117	PBAL	***PBAL
118	CBAL	***CBAL
119	SUBTOTAL	SUBTOTAL
120	MDS SBTL	MDSE ST
121	TOTAL	***TOTAL
122	CHANGE	CHANGE
123	DUE	DUE
124	FS SBTL	FS ST
125	FSTEND	FS TEND
126	FS CHANGE	FS CG
127	BALANCE	***BAL
128	ITEMS	ITEMS
129	COPY	COPY
130	IDL TIME	IDL TIME
131	GROUP1 DSC ST	GDSC1 ST
132	GROUP2 DSC ST	GDSC2 ST
133	GROUP3 DSC ST	GDSC3 ST
134	GAS 1 ST (CASH)	GAS1 ST
135	GAS 2 ST (CASH2)	GAS2 ST
136	GAS 3 ST (CHK)	GAS3 ST
137	GAS 4 ST (CHARGE1)	GAS4 ST
138	GAS 5 ST (CHARGE2)	GAS5 ST
139	GAS 6 ST (CHARGE3)	GAS6 ST
140	GAS 7 ST (CHARGE4)	GAS7 ST
141	GAS 8 ST (CHARGE5)	GAS8 ST
142	GAS 9 ST (CHARGE6)	GAS9 ST
143	GAS 10 ST (CHARGE7)	GAS10 ST
144	UPC-LOG FULL MESSAGE	LOG FULL

[JOB#235]

MISC KEY PROGRAMMING 3 (item %/subtotal %)

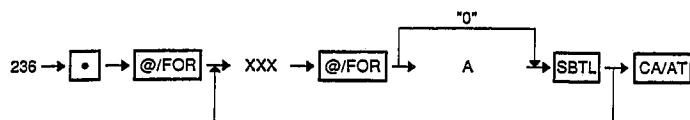


XXX: Function No.

A: Item %/Subtotal % = 1/0

MRS. 0

Function No.	Function	Remarks
5	%1	
6	%2	
7	%3	
8	%4	

[JOB#236]MISC KEY PROGRAMMING 4 (item $\ominus$ /SBTL $\ominus$)

XXX: Function No.

A: Item $\ominus$ /SBTL $\ominus$ = 1/0

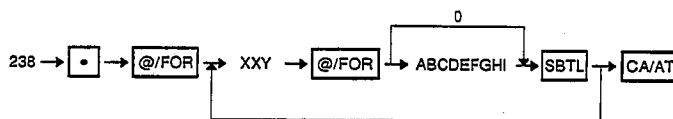
Function No.	Function	Remarks
1	$\ominus 1$	
2	$\ominus 2$	
3	$\ominus 3$	
4	$\ominus 4$	

Function No.	Function	Default
1	(-)1	(-)1n
2	(-)2	(-)2n
3	(-)3	(-)3n
4	(-)4	(-)4n
5	%1	%1n
6	%2	%2n
7	%3	%3n
8	%4	%4n
9	Group disc. %1	GDSIC %1n
10	Group disc. %2	GDSIC %2n
11	Group disc. %3	GDSIC %3n
70	RA	RA n
71	PO	PO n

NOTE: This job is allowed when the leason file is created.

[JOB#238]

FUNCTION REASON CODE 2



XX: Function No.

Y: Reason code = 1 ~ 5

A: Sign- = 1
Sign+ = 0B: Group 3 discountable = 1
Non-group 3 discountable = 0C: Group 2 discountable = 1
Non-group 2 discountable = 0D: Group 1 discountable = 1
Non-group 1 discountable = 0E: Food stampable = 1
Non-food stampable = 0F: Taxable 4 = 1
Non-taxable 4 = 0G: Taxable 3 = 1
Non-taxable 3 = 0H: Taxable 2 = 1
Non-taxable 2 = 0I: Taxable 1 = 1
Non-taxable 1 = 0

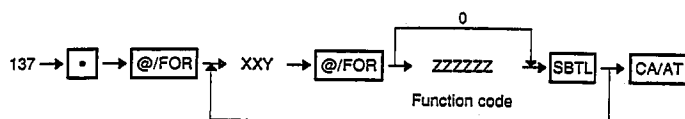
MRS = 0

NOTE: This job is allowed when the reason file is created.

Function No.	Function
1	(-)1
2	(-)2
3	(-)3
4	(-)4
5	%1
6	%2
7	%3
8	%4
9	Group disc. %1
10	Group disc. %2
11	Group disc. %3

[JOB#137]

FUNCTION KEY REASON CODES 1 ~ 5 — % RATE



XX: Function No.

Y: Reason No. = 1 ~ 5

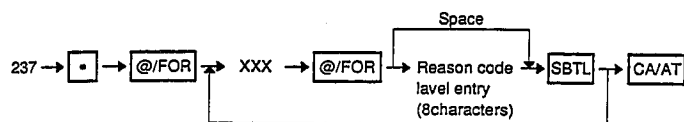
ZZZZZZ: Entry range

Function No.	Function	Entry range	Remarks
1	(-)1	0 to 999999	(-) unit price
2	(-)2	0 to 999999	(-) unit price
3	(-)3	0 to 999999	(-) unit price
4	(-)4	0 to 999999	(-) unit price
5	%1	0 to 100.00	%-rate
6	%2	0 to 100.00	%-rate
7	%3	0 to 100.00	%-rate
8	%4	0 to 100.00	%-rate
9	Group disc. %1	0 to 100.00	%-rate
10	Group disc. %2	0 to 100.00	%-rate
11	Group disc. %3	0 to 100.00	%-rate

NOTE: This job is allowed when the reason file is created.

[JOB#237]

FUNCTION REASON CODE 1 ~ 5 LABEL ASSIGNMENT



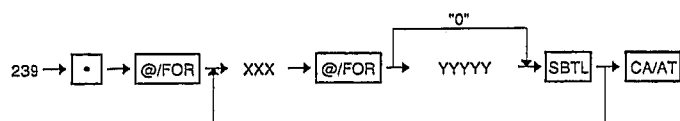
XX: Function No.

Y: Reason code = 1 ~ 5

Characters can be entered by using alphabetic keys or numeric keys.
Please refer to section 7-2.

[JOB#239]

MISC KEY PROGRAMMING 5 (% HALO)



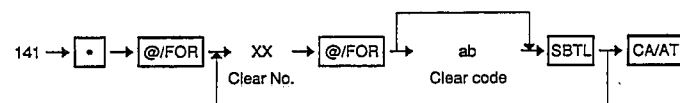
XX: Function No.
YYYYYY: %HALO

Function No.	Function
5	%1
6	%2
7	%3
8	%4
9	Group disc. %1
10	Group disc. %2
11	Group disc. %3

MRS = 100.00

[JOB#141]

CLERK CODE DEFINITION

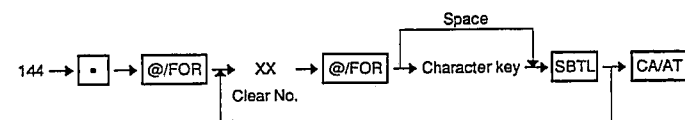


XX: CLERK NO. = 1 ~ 99
ab: CLERK CODE = 1 ~ 99

MRS = No CLERK code is programmed.

[JOB#144]

CLERK NAME PROGRAMMING



Characters can be entered by using character keys or numeric keys. The key entry sequence for entering one character by numeric keys is as follows:

XXX → 00 key XXX: Character code (3 digits)

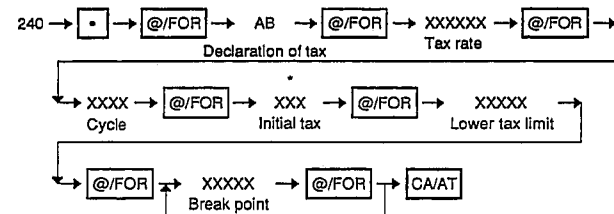
Please refer to section 7-2.

Max. 10 characters

MRS = Space

[JOB#240]

TAX TABLE PROGRAMMING



72 breakpoints can be programmed for each tax table.
(Case of "interval between breakpoint is 1 dollar or more, 36 break-
point are programmed for each table)

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

A: Interval between breakpoints is 1 dollar or more = 1
Interval between breakpoints is below 1 dollar = 0

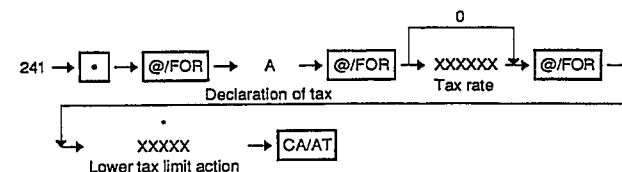
B: Table 1 programming = 1
Table 2 programming = 2
Table 3 programming = 3
Table 4 programming = 4

MRS = NO TAX

When "FS tax forgiven system" is selected, the tax 4 cannot be programmed. (3 tax + FS system)

[JOB#241]

% TAX RATE PROGRAMMING



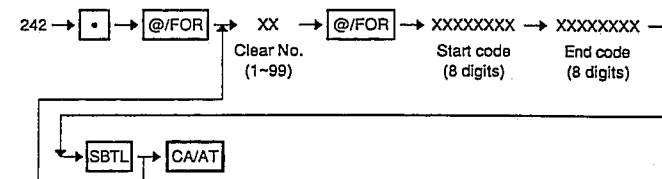
* Depression of the SBTL key at the following points means a tax table delete operation.

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

% Tax rate
0.0001 – 99.9999 %
Lower tax limitation
max. 999.99
MRS = 0

[JOB#242]

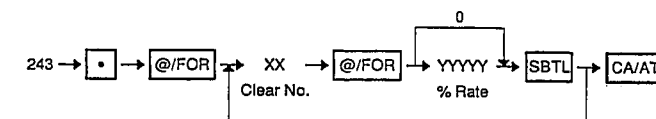
CLERK PROGRAMMING



Range of PBLU numbers that a CLERK can use

[JOB#243]

CLERK COMMISSION % RATE

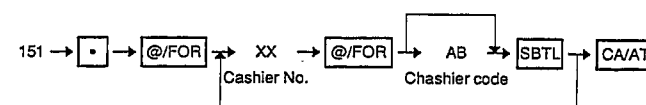


XX: Clerk number
YYYYYY: % rate = max. 100.00

$$MRS = 0$$

[JOB#151]

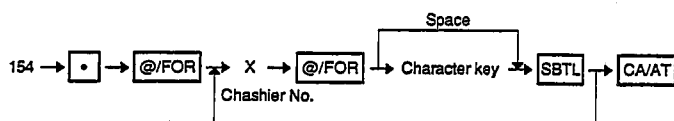
CASHIER CODE DEFECTION



XX: Cashier number = 1 ~ 99

AB: Cashier code = 1 ~ 99

MRS = No cashier code is programed

[JOB#154]**CASHIER NAME PROGRAMMING**

Characters can be entered by using character keys or numeric keys. The key entry sequence for entering one character by numeric keys is as follows:

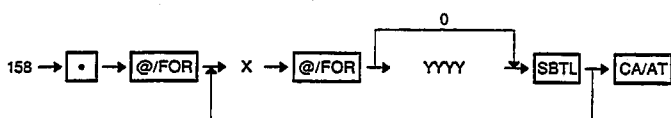
XXX → 00 KEY

XXX: Character code (3 digits)

Please refer to section 7-2.

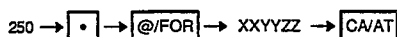
Max. 10 characters

Mrs = Space

[JOB#158]**SCALE TABLE PROGRAMMING**

X: Table No. (1 ~ 9)

YYYY: Weight (0 ~ 99.99)

[JOB#250]**DATA SETTING**

XXYYZZ: Date (Year-Month-Day/Day-Month-Year/Month-Day-Year)

* The date entry format complies with the applicable SRV-mode programming.

MRS = 010100

[JOB#251]**TIME SETTING**

XX: Hour (00 ~ 23)

YY: Minute (00 ~ 59)

MRS = 0

[JOB#252]**MACHINE NUMBER SETTING**

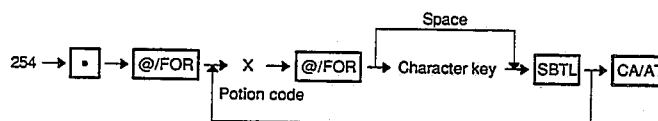
XXX: Machine number (0 ~ 999)

MRS = 0

[JOB#253]**CONSECUTIVE NUMBER SETTING**

XXXX: Consecutive number (0000 ~ 9999)

MRS = 0000

[JOB#254]**LOGO TEXT PROGRAMMING**

X: 1 ~ 8	1	(21 char.)
	2	(21 char.)
	3	(21 char.)
	4	(21 char.)
	5	(21 char.)
	6	(21 char.)
	7	(18 char.)
	8	(18 char.)

Character can be entered by using character keys or numeric keys. The key entry sequence for entering one character by numeric keys is as follows:

XXX → 00 Key

XXX: Character code (3 digits)

Please refer to section 7-2.

MRS =

```

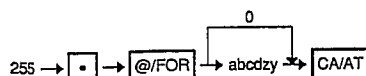
SHARP
IS
THE BEST
YOUR
RECEIPT
THANK YOU
SHARP 1ST
HE BEST

```

Note: This programming is related to JOB#912D programming. Only when "6-line header instead of a stamp" is selected by JOB#912D programming, all 6 lines are programmable. When "3-line header instead of a stamp" is selected, upper 3 lines (1st-3rd line) are programmable. When "stamp and 3-line footer" is selected, lower 3 lines (4th-6th line) are programmable. When "stamp only" is selected, no line is programmable. (7th-8th line) are slip logo programming. The 18 characters of 8th line is dummy, (No printing on slip). Because the max character on slip is 35.

[JOB#255]

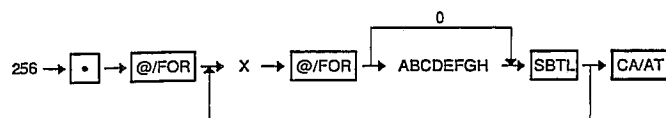
Programming of the limits to initial slip feed line, No. of times of slip printing and No. of times of validation printing.



ab: Initial slip feed line = 0 ~ 64
 cd: Slip print max line No. = 0 ~ 99
 z: No. of times of slip printing = 0 ~ 9
 y: No. of times of validation printing = 0 ~ 9

It can be programmed in the SRV mode whether or not to validate the limits to slip initial feed, the No. of times of slip printing, and the number of times of validation printing.

MRS = 009911

[JOB#256]**OPTIONAL FEATURE**

X = 1

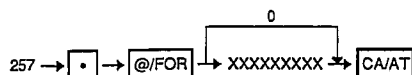
A, B, C, D: Not used. (fixed at "0000")
 E: OP X/Z report Disable/Enable = 1/0
 F: Printing of the number of purchases Yes/No = 1/0
 G: Time print No/Yes = 1/0
 H: Journal select/Full print = 1/0

X = 2

A, B, C: not used. (fixed at "000")
 D: Zero skip in DEPT. report No/Yes = 1/0
 E: Zero skip in PLU report No/Yes = 1/0
 F: Zero skip in UPC report No/Yes = 1/0
 G: Zero skip in GROSSMARGIN report No/Yes = 1/0
 H: Zero skip in HOURLY report No/Yes = 1/0

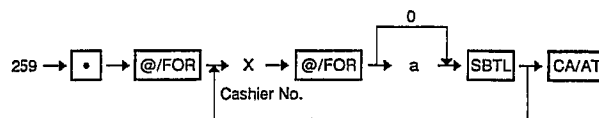
X = 3

A, B, C: Not used. (fixed at "000")
 D: Zero skip in CLERK report No/Yes = 1/0
 E: Zero skip in CASHIER report No/Yes = 1/0
 F: Zero skip in TRANS report No/Yes = 1/0
 G: Zero skip in DAILY NET report No/Yes = 1/0
 H: Zero skip in PBLU report No/Yes = 1/0

[JOB#257]**SENTINEL AMOUNT SETTING**

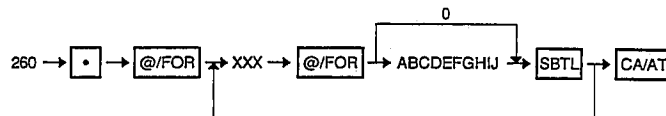
XXXXXXXXXX: Limitation on sentinel amount
 0.00 ~ 9999999.99

MRS = 9999999.99

[JOB#259]**CASHIER DRAWER ASSIGNMENT**

x: Cashier No. = 1 ~ 4
 a: Drawer No. = 1 ~ 4
 Not open = 0

MRS = 1

[JOB#260]**MEDIA KEY PROGRAMMING**

XXX: Function No.

A: Slip print compulsory/noncompulsory 1/0
 B: Footer print Yes/No 1/0
 C: Non-add code entry compulsory/noncompulsory 1/0
 D: Use negative check Yes/No 1/0
 E: Use positive check Yes/No 1/0
 F: CAT entry compulsory/noncompulsory 1/0
 G: Chargedue Disable/Enable 1/0
 H: VP compulsory/noncompulsory 1/0
 I: Drawer opening No/Yes 1/0
 J: Entry of amount tendered compulsory/noncompulsory (Cash, Check) 1/0
 compulsory/noncompulsory (CH1 - 7) 1/0

Function No.	Function	A	B	C	D	E	F	G	H	I	J
67	CA1	○	○	○	○	○	×	○	○	○	○
68	CA2	○	○	○	○	○	×	○	○	○	○
80	CH1	○	○	○	○	○	○	○	○	○	○
82	CH2	○	○	○	○	○	○	○	○	○	○
84	CH3	○	○	○	○	○	○	○	○	○	○
86	CH4	○	○	○	○	○	○	○	○	○	○
88	CH5	○	○	○	○	○	○	○	○	○	○
90	CH6	○	○	○	○	○	○	○	○	○	○
92	CH7	○	○	○	○	○	○	○	○	○	○
94	CHK	○	○	○	○	○	×	○	○	○	○
99	SRVC	○	○	○	×	×	×	×	○	×	×

* Items marked with a circle (○) are programmable.
 For mark "X", set to 0.

[JOB#265]**HOURLY REPORT (Starting time)**

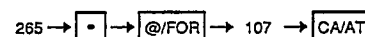
This setting may not be valid unless the hourly Z1 has been executed.



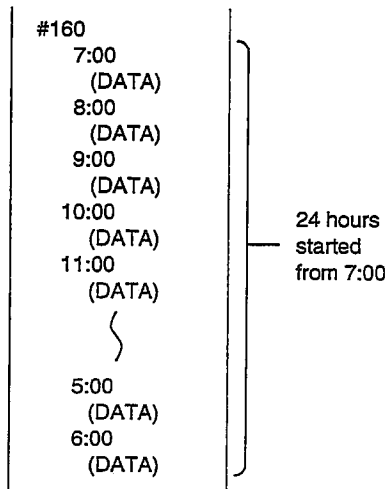
a: Memory format: 60 minutes (24 hours)/30 minutes (24 hours)
 = 1/0
 bb: Starting time (hour): 00 ~ 23

ex)

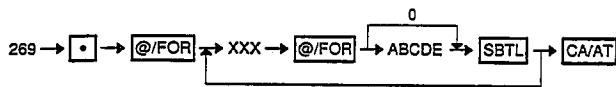
Case 1.



X1 Hourly report (#160) (60 min, start time = 7)

**[JOB#269]**

MEDIA KEY PROGRAMING



xxx: Function number

A: GAS auto discount Yes/No = 1/0
 B: Taxable 4 delete Yes/No = 1/0
 C: Taxable 3 delete Yes/No = 1/0
 D: Taxable 2 delete Yes/No = 1/0
 E: Taxable 1 delete Yes/No = 1/0

Function No.	Function	A	B	C	D	E
67	CA1	○	○	○	○	○
68	CA2	○	○	○	○	○
80	CH1	○	○	○	○	○
82	CH2	○	○	○	○	○
84	CH3	○	○	○	○	○
86	CH4	○	○	○	○	○
88	CH5	○	○	○	○	○
90	CH6	○	○	○	○	○
92	CH7	○	○	○	○	○
94	CHK	○	○	○	○	○

* Items marked with a circle (○) are programmable.

MRS = 0

[JOB#270]

PROGRAMMING OF THE TIME INTERVAL FOR THE TILL TIMER

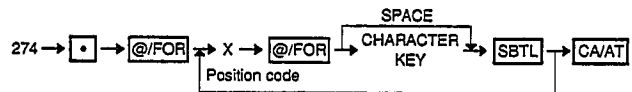


XXX: 0 ~ 255 sec

MRS = 000

[JOB#274]

CHECK VALIDATION MESSAGE PROGRAMMING



X: 1 ~ 3

1
2
3

1 block max. 21 characters

Characters can be entered by using character keys or numeric keys.
 The key entry sequence for entering one character by numeric keys is as follows:

XXX → 00 key

XXX: Character code (3 digits)

Please refer to section 7-2.

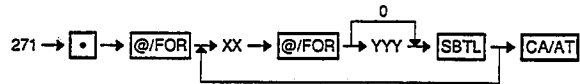
MRS = 'space'

'space'

For deposit only

[JOB#271]

DISCOUNT PRICE OF GALLON



XX: Function number

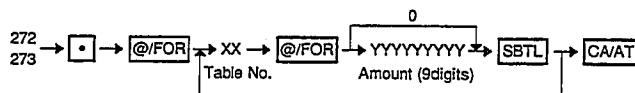
YYY: Discount price = 0 ~ 99.9 cent.

Function No.	Function	Discount price
14	GAS DIS1 (CASH)	0 ~ 99.9 cent
15	GAS DIS2 (CA2)	0 ~ 99.9 cent
16	GAS DIS3 (CHK)	0 ~ 99.9 cent
17	GAS DIS4 (CH1)	0 ~ 99.9 cent
18	GAS DIS5 (CH2)	0 ~ 99.9 cent
19	GAS DIS6 (CH3)	0 ~ 99.9 cent
20	GAS DIS7 (CH4)	0 ~ 99.9 cent
21	GAS DIS8 (CH5)	0 ~ 99.9 cent
22	GAS DIS9 (CH6)	0 ~ 99.9 cent
23	GAS DIS10 (CH7)	0 ~ 99.9 cent

MRS = 0

[JOB#272, 273]

HALO, LALO TABLE



#272: HALO TABLE

#273: LALO TABLE

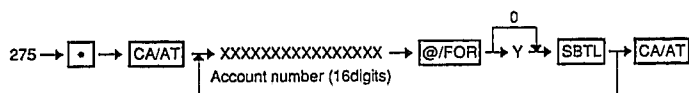
XX: Table No. = 1 ~ 15

YYYYYYYY: Amount = 0 ~ 999999999

MRS = 0

[JOB#275]

NEGATIVE CHECK#FILE ENTRY



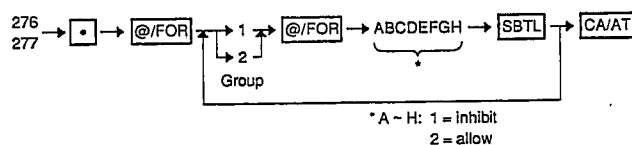
XXXXXXXXXXXXXXXXXX: Account number

Y: Status code 1 ~ 3 = Override REG mode
 4 ~ 6 = Override MGR mode
 7 ~ 9 = No override
 0 = Status delete

[JOB#276, 277]

REGISTER LIMITATION AND STORE LIMITATION PRESET

Inhibition of functions in REG/MGR mode



1, 2: Group number

Group No.	Position	Function
1	A	Not used (Fixed at "0")
	B	Not used (Fixed at "0")
	C	Not used (Fixed at "0")
	D	ITEM (-), %
	E	SBTL (-), %
	F	LAST ITEM VOID
	G	PAST ITEM VOID
	H	SUBTOTAL VOID
2	A	Not used (Fixed at "0")
	B	Not used (Fixed at "0")
	C	Not used (Fixed at "0")
	D	Not used (Fixed at "0")
	E	RA
	F	PO
	G	REFUND
	H	REFUND TYPE OF SALES

[JOB#280, 281, 282]

SECRET CODE PROGRAMMING



#280: PGM1 mode

#281: Z1 mode

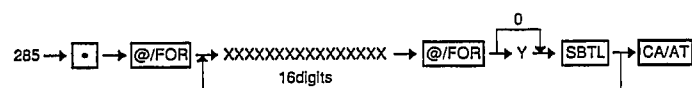
#282: Z2 mode and AUTO key programming

* If "0" is entered, "compulsory secret code entry" is canceled.

MRS = 0

[JOB#285]

POSITIVE CHECK CODE DEFINITION (VERIFICATION FILE)

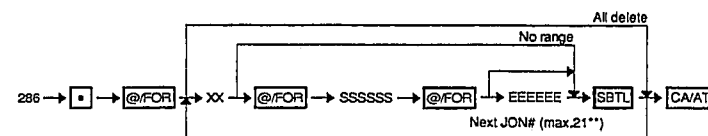


XXXXXXXXXXXXXXXXXX: Positive check code

Y: Create = 1
 delete = 0

[JOB#286]

STACK REPORT



XX: JOB#

SSSSSS: Start code

EEEEEE: End code

**

Max 109 steps are programmable.

"1-step" means the memory size used for one no-range type JOB#.

The range type JOB# needs one of "6 steps" or "8 steps" or "10 steps" or "16 steps".

The needed step for each entry-able JOB# are shown on the next page.

For example)

The memory size for programming JOB#00, 20 and 50 is 8 steps.

(i.e 1 step for JOB#00, 6 steps for JOB#20, and 1 step for JOB#50).

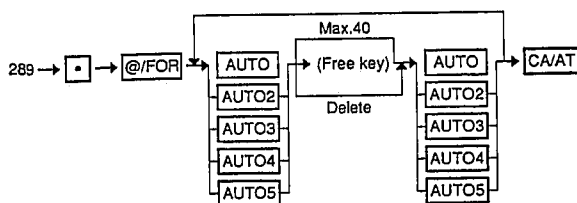
- The list of programmable JOB# for stack report programming.

IRC SYSTEM JOB#	*3 JOB#	report name	No range type		entry type	
			all	steps	limited data selection (range or code entry)	steps
05	00	General	○	1	—	
15	10	Department	○	1	○ Dept. code range	6
18	13	All dept. group total	○	1	—	
19	14	Dept. gross margin	○	1	○ dept. code range	6
25	20	PLU	○	1	○ PLU code range	8
27	22	PLU with zero sales	○	1	○ PLU code range	8
29	24	PLU stock	○	1	○ PLU code range	8
35	30	Transaction	○	1	—	
36	31	Cash in drawer	○	1	—	
	32	All cashier CID	○	1	—	
39	34	Reason code function	○	1	—	
	40	All clerk	○	1	—	
	50	All cashier	○	1	—	
65	60	Hourly	○	1	—	
		Hourly (range)	—		○ Hour-minutes range	6
66	61	Charge posting (Dynamic account)	○	1	—	
	62	Dynamic UPC	○	1	○ UPC code range	16
68	63	Daily net total 931 days)	○	1	—	
	70	UPC	○	1	○ UPC code range	16
	72	UPC with zero sales	○	1	○ UPC code range	16
	74	UPC stock	○	1	○ UPC code range	16
	80	PBLU	○	1	○ PBLU code range	10
	82	0 ballance PBLU	○	1	○ PBLU code range	10

○ = entry enable
 — = entry disable

[JOB#289]**<CAUTION>**

(This JOB must be performed at Z1/X2/Z2 mode position.)

AUTO KEY SETTING

(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.

<Example>

Mode switch



(Z1/X2/Z2)

289 → [] → @/FOR → AUTO → PLU1 → 100 → DEPT2 → AUTO → CA/AT

(REG)

Key entry	R/J	Display	Comment
[AUTO]			
	PLU000001 \$1.10	PLU000001 1.10	Same as [PLU1] entry
		1	Same as 1 entry
		10	Same as 0 entry
		100	Same as 0 entry
	DEPT2- \$1.00	DEPT2 1.00	Same as [DEPT2] entry

(Z1/X2/Z2)

289 → [] → @/FOR → AUTO2 → 100 → CA/AT → AUTO2 → CA/AT

(REG)

Key entry	R/J	Display	Comment
[DEPT1]	DEPT.01 \$1.10	DEPT.01 1.00	
[AUTO2]		1	Same as 1 entry
		10	Same as 0 entry
		100	Same as 0 entry
	TOTAL \$1.00	CHANGE 0.00	Same as [CA/AT] entry
	CASH \$1.00		
	CHANGE \$0.00		

[JOB#290, 291]

TRAINING MODE START (#290), END (#291)

290/291 → [] → @/FOR → CA/AT

<Training mode>

- All operation is same as REG-mode operation.
- In the training mode, the consecutive number is printed as same number on receipt/journal printer and slip printer.
- In the training mode, the consecutive number is not counted up.

[JOB#295]

PBLU (the range programming of available PBLU code)

295 → [] → @/FOR → XXXXXXXX → @/FOR → YYYYYYYY → CA/AT

1 PBLU

XXXXXXX: Start PBLU code (8 digits)

YYYYYYY: End PBLU code (8 digits)

[JOB#1200]

LEAD THROUGH PROGRAMMING

UPC PROGRAMMING

STEP	KEY SEQUENCE	DISPLAY
1	1200 → [] → @/FOR	ENTER UPC #
2	0XXX --- XXX → [SBTL]	ASSOCIATED DEPT
3	XXX → [SBTL]	DESCRIPTION
4	XXXX --- XXX → [SBTL]	LV TYPE (0/1/2) (*1)
5	X → [SBTL]	LEVEL 1 PRICE
6	XXXXXX → [SBTL]	LEVEL 2 PRICE
7	XXXXXX → [SBTL]	LEVEL 3 PRICE
8	XXXXXX → [SBTL]	SPLIT PRICE (0/1) (*2)
9	X → [SBTL]	BASE QTY (0-99) or M&M ABLE (0-99)
10	XX → [SBTL]	NEGATIVE (0/1)
11	X → [SBTL]	TAXABLE 1 (0/1)
12	X → [SBTL]	TAXABLE 2 (0/1)
13	X → [SBTL]	TAXABLE 3 (0/1)
14	X → [SBTL]	TAXABLE 4 (0/1)
15	X → [SBTL]	FOOD STAMP (0/1)
16	X → [SBTL]	GRP DSC1 (0/1)
17	X → [SBTL]	GRP DSC2 (0/1)
18	X → [SBTL]	GPR DSC3 (0/1)
19	X → [SBTL]	LINK TABLE (0-99)
20	XX → [SBTL]	ENTER UPC #
21	[CASH]	

NOTE: PRESS [SBTL] TO ENTER NEW VALUE (DELETES EXISTING VALUE) or PRESS [] TO ADVANCE TO NEXT PROMPT.

(*1) 0 =

(*2) IF SPLIT PRICE = (1) YES. THEN BASE Q'TY OPTION
IF SPLIT PRICE = (2) NO. THEN MIX MATCH OPTION FOLLOWS.

[JOB#1210]

LEAD THROUGH PROGRAMMING

DEPT. PROGRAMMING

STEP	KEY SEQUENCE	DISPLAY	
1	1210 → [*] → [*/FOR]	ENTER DEPT #	
2	XXX → [SBTL]	TYPE (0/1/2/3/4)	(*1)
3	X → [SBTL]	DESCRIPTION	
4	XXX ---- XXX → [SBTL]	PRICE	
5	XXXXXX → [SBTL]	NEGATIVE (0/1)	
6	X → [SBTL]	TAXABLE 1 (0/1)	
7	X → [SBTL]	TAXABLE 2 (0/1)	
8	X → [SBTL]	TAXABLE 3 (0/1)	
9	X → [SBTL]	TAXABLE 4 (0/1)	
10	X → [SBTL]	FOOD STAMP (0/1)	
11	X → [SBTL]	GRP DSC1 (0/1)	
12	X → [SBTL]	GRP DSC2 (0/1)	
13	X → [SBTL]	GPP DSC3 (0/1)	
14	X → [SBTL]	N/HSH/GAL (0/1/2)	(*2)
15	X → [SBTL]	MARKDOWN (0/1)	
16	X → [SBTL]	NON ADD (0/1)	
17	X → [SBTL]	VALIDATE (0/1)	
18	X → [SBTL]	SCALE (0/1)	
19	X → [SBTL]	TARE NO. (0-9)	
20	X → [SBTL]	N-SIS-SIF TYPE (0/1/2)	(*3)
21	X → [SBTL]	HALO (0-15)	
22	XX → [SBTL]	LALO (0-15)	
23	XX → [SBTL]	GROUP (0-15)	
24	XX → [SBTL]	CLERK GROUP (0-9)	
25	X → [SBTL]	LINK TABLE (0-99)	
26	XX → [SBTL]	MARGIN% (0-9999)	
27	XXXX → [SBTL]	ENTER DEPT #	
	[CASH]		

NOTE: PRESS [SBTL] TO ENTER NEW VALUE (DELETE EXISTING VALUE) or PRESS [*/FOR] TO ADVANCE TO NEXT PROMPT.

(*1) 0 = INHIBIT, 1 = OPEN, 2 = PRESET, 3 = OPEN & PRESET, 4 = Delete

(*2) 0 = NORMAL, 1 = HASH, 2 = GALLON

(*3) 0 = NORMAL, 1 = SICS, 2 = SIF

[JOB#1220]

LEAD THROUGH PROGRAMMING

PLU PROGRAMMING

STEP	KEY SEQUENCE	DISPLAY	
1	1220 → [*] → [*/FOR]	ENTER PLU #	
2	XXXXXX → [SBTL]	TYPE (0/1/2)	(*1)
3	X → [SBTL]	ASSOCIATED DEPT	
4	XXX → [SBTL]	DESCRIPTION	
5	XXXX --- XXX → [SBTL]	PRICE	
6	XXXXXX → [SBTL]	NEGATIVE (0/1)	
7	X → [SBTL]	TAXABLE 1 (0/1)	
8	X → [SBTL]	TAXABLE 2 (0/1)	
9	X → [SBTL]	TAXABLE 3 (0/1)	
10	X → [SBTL]	TAXABLE 4 (0/1)	
11	X → [SBTL]	FOOD STAMP (0/1)	
12	X → [SBTL]	GRP DISC1 (0/1)	
13	X → [SBTL]	GRP DISC2 (0/1)	
14	X → [SBTL]	GRP DISC3 (0/1)	
15	X → [SBTL]	BASE Q'TY (0-99)	
16	XX → [SBTL]	SCALE (0/1/2)	(*2)
17	X → [SBTL]	TARE NO. (0-9)	
18	X → [SBTL]	LINK TABLE (0-99)	
19	XX → [SBTL]	ENTER PLU #	
20	[CASH] →		

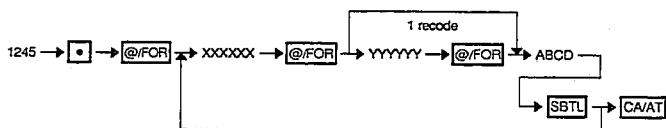
NOTE: PRESS [SBTL] TO ENTER NEW VALUE (DELETE EXISTING VALUE) or PRESS [*/FOR] TO ADVANCE TO NEXT PROMPT.

(*1) 0 = INHIBIT, 1 = SUB-DEPT, 2 = PLU, 3 = DELETE

(*2) 0 = INHIBIT, 1 = ENABLE, 2 = COMPULSORY

[JOB#1245]

PLU code set (range)



XXXXXX: Start PLU code (1 to 999999)

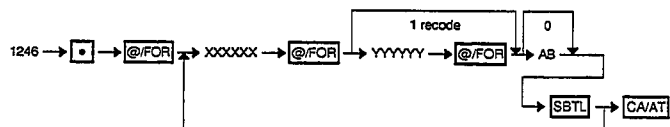
YYYYYY: End PLU code (1 to 999999)

A: Delete/PLU/Subdept/Inhibit = 3/2/1/0

BCD: DEPT. code (1 to 999)

[JOB#1246]

PLU function programming (range)



XXXXXX: Start PLU code (1 to 999999)

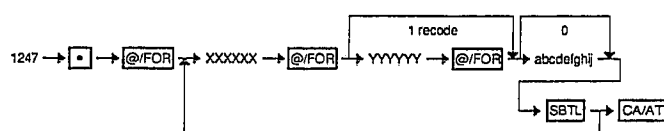
YYYYYY: END PLU code (1 to 999999)

A: Tare table number 9 ~ 1/Non 9 ~ 1/0

B: Scale compulsory/Enable/Inhibit 2/1/0

[JOB#1247]

PLU tax status programming (range)



XXXXXX: Start PLU code (1 to 999999)

YYYYYY: End PLU code (1 to 999999)

aa: LINK TABLE NUMBER = 0 ~ 99

b: SIGN -/+ = 1/0

c: GROUP3 DISCOUNTABLE/NON-GROUP3 DISCOUNTABLE = 1/0

d: GROUP2 DISCOUNTABLE/NON-GROUP2 DISCOUNTABLE = 1/0

e: GROUP1 DISCOUNTABLE/NON-GROUP1 DISCOUNTABLE = 1/0

f: FOOD STAMP ELIGIBLE/INELIGIBLE = 1/0

g: TAXABLE 4/NON-TAXABLE 4 = 1/0

h: TAXABLE 3/NON-TAXABLE 4 = 1/0

i: TAXABLE 2/NON-TAXABLE 2 = 1/0

j: TAXABLE 1/NON-TAXABLE 1 = 1/0

MRS = 000000000000

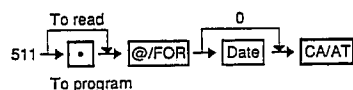
[MAINTENANCE DATA PROGRAMMING/READING]

[1] Outline

Maintenance data is created by executing the maintenance data programming job. The maintenance date is added to the maintenance data.

When the maintenance data down-loading operation is performed, the current date is checked with the maintenance date so that whether or not the operation is item-by-item down-loading.

[2] Maintenance Date Programming/Reading



Date: MMDDHH (Month-Day-hour)

[3] Maintenance Preset Data Preparation/Reading

1) By using the PGM-mode programming jobs listed below, the maintenance preset data can be created.

MAIN JOB#	MAINT. JOB#	PROGRAMMING
100	600	UPC UNIT PRICE PROGRAMMING
101	601	UPC CODE DEFINITION (Note)
110	610	DEPT UNIT PRICE PROGRAMMING
120	620	PLU UNIT PRICE PROGRAMMING
121	621	PLU CODE DEFINITION (Note)
200	700	UPC FUNCTION PROGRAMMING
201	701	UPC TAX etc STATUS PROGRAMMING
204	704	UPC TEXT PROGRAMMING
207	707	MIX-AND-MATCH TABLE PROGRAMMING
210	710	DEPT FUNCTION PROGRAMMING (Note)
211	711	DEPT TAX STATUS PROGRAMMING
212	712	DEPT HALO PROGRAMMING
214	714	DEPT TEXT PROGRAMMING
216	716	DEPT GROUP PROGRAMMING
217	717	GROSS MARGIN RATE PROGRAMMING
220	720	PLU FUNCTION PROGRAMMING
221	721	PLU TAX STATUS PROGRAMMING
224	724	PLU TEXT PROGRAMMING
202	702	LINK TABLE PROGRAMMING
1200	1700	READ THROUGH UPC PROGRAMMING
1210	1710	READ THROUGH DEPT PROGRAMMING
1220	1720	READ THROUGH PLU PROGRAMMING

The key sequence of each maintenance programming job is same as main job#.

Note: Using a maintenance record creating job can specify a deletion.

```

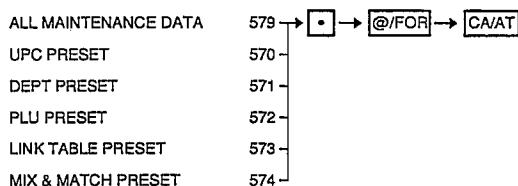
(JOB# 661- (DEPT code) = yxxx: y=9: delete   xxx: Dept. code
                                     ≠9: not delete
JOB#621 - a=9: delete
JOB#702 - yyyyy = 0 at first time: delete
JOB#710 - G=9: delete
JOB#707 - yy = 0: delete

```

2) Maintenance preset data reading



[4] Maintenance Preset Data Manual Clearing



[5] Maintenance Preset Data Down-loading



Change maintenance preset data to main preset data, and clear maintenance preset data.

The files are down loaded in the following sequence.

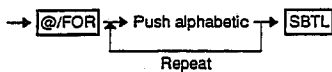
1. Mix. & match file
2. Link table file
3. UPC multi price file
4. UPC file
5. PLU file
6. Gross margin file
7. Dept. file

When an error occurs due to memory full, etc., an error print is made and operation is terminated. After cancelling the error, perform down loading again.

7-2 character assignment method

The ER-3550 has two kinds of method at character assignment. One is to use alphabetic assigned key and other one is to use ten keys.

~ Using alphabetic assignment method ~



Programming key layout (ER-3550)

↑ RECEIPT	↑ JOURNAL														
				#	(DC)									0	1
"	.	,		\$	%	&		A	B	C	D	E		2	3
/	:	;		@/FOR	•	CL		F	G	H	I	J		4	5
<	=	>		7	8	9		K	L	M	N	O		6	7
+	@	^		4	5	6		P	Q	R	S	T		8	9
-	'	,		1	2	3		U	V	W	X	Y		SBTL	
{		}		0		00		Z	(	)	-	(Space)		CA/AT	

Fig. 7-1

- The symbols the area is not used character keys.
- (DC): double size character code

~ Using ten key ~



Note: 00 key is used to enter each 3 digit alpha code.

CODE TABLE FOR ALPHA DESCRIPTOR PROGRAMMING

CODE	CHARACTER	CODE	CHARACTER	CODE	CHARACTER	CODE	CHARACTER
032		060	<	088	X	116	t
033	!	061	=	089	Y	117	u
034	"	062	>	090	Z	118	v
035	#	063	?	091	Ä	119	w
036	\$	064	@	092	Ö	120	x
037	%	065	A	093	Ü	121	y
038	&	066	B	094	^	122	z
039	'	067	C	095	-	123	{
040	(	068	D	096		124	
041	)	069	E	097	a	125	}
042	*	070	F	098	b	126	ß
043	+	071	G	099	c	127	¢
044	,	072	H	100	d	128	!!
045	-	073	I	101	e	129	1
046	.	074	J	102	f	130	2
047	/	075	K	103	g	131	3
048	0	076	L	104	h	132	4
049	1	077	M	105	i	133	½
050	2	078	N	106	j	134	F _T
051	3	079	O	107	k	135	←
052	4	080	P	108	l	136	→
053	5	081	Q	109	m	137	∞
054	6	082	R	110	n	138	∞
055	7	083	S	111	o	139	◀
056	8	084	T	112	p	140	▶
057	9	085	U	113	q	141	F
058	:	086	V	114	r	142	T
059	;	087	W	115	s	251	DC

DC: DOUBLE CODE

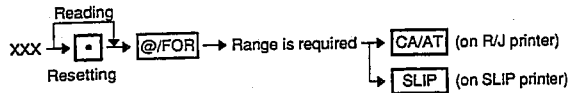
Fig. 7-2

8. OP X/Z, X1, Z1/X2/Z2 MODE

The following categories of reports can be printed by the ECR.

- 1) OP X/Z reports (clerk/chshier reports)
- 2) X1 reports (Daily sales total X reports)
- 3) Z1/X2/Z2 reports (Daily sales total Z reports and periodic total X and Z reports)

To print reports, use the following key entry sequence



XZ MODE JOB# LIST

*3 JOB#	report name	*1 mode						entry type *5		
		OP X/Z		X1	Z1/X2/Z2			all	limited data selection (range or code entry)	
		X	Z	X1	Z1	X2	Z2			
00	General			○	○	○	○	○	—	
10	Department			○		○		○	○	Dept. code range *2
12	Ind. dept. group			○		○		—	○	Dept. group no.
13	All dept. group total			○		○		○	—	
14	Dept. gross margin			○		○		○	○	Dept. code range *2
20	PLU			○	○			○	○	Plu code range *2
21	PLU by Department			○				—	○	Dept. code
22	PLU with zero sales			○				○	○	PLU CODE RANGE *2
23	PLU with zero sales by Dept.			○				—	○	Dept. code
24	PLU stock			○				○	○	PLU code range *2
30	Transaction			○		○		○	—	
31	Cash in drawer			○		○		○	—	
32	All cashier CID			○		○		○	—	
33	Individual cashier CID	○		○		○		—	○	Cashier code *4
34	Reason code function			○	○	○	○	○	—	
40	All clerk			○	○	○	○	○	—	
41	Individual clerk	○	○	○	○	○	○	—	○	Clerk code
50	All cashier			○	○	○	○	○	—	
51	Individual cashier	○	○	○	○	○	○	—	○	Cashier code *4
60	Hourly			○	○			○	—	
	Hourly (range)			○				—	○	Hour-minutes range
61	Charge posting (Dynamic account)			○	○			○	—	
62	Dynamic UPC			○	○			○	○	UPC code range *2
63	Daily net total (31 days)					○	○	○	—	
70	UPC			○	○			○	○	UPC code range *2
71	UPC by Department			○				—	○	Dept. code
72	UPC with zero sales			○				○	○	UPC code range *2
73	UPC with zero sales by Dept.			○				—	○	Dept. code
74	UPC stock			○				○	○	UPC code range *2
80	PBLU			○	○			○	○	PBLU code range *2
81	PBLU by individual clerk			○	○			—	○	Clerk code
82	0-balance PBLU			○	○			○	○	PBLU code range *2
87	Dynamic UPC clear				○			○	○	UPC code range *2
88	Dynamic UPC clear by Dept.				○			—	○	Dept. code
90	Stacked report			○	○	○	○	○	—	

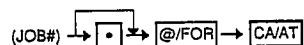
○ = allow
— = inibit

○ = allow
— = inibit

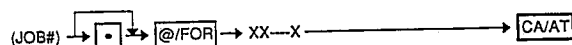
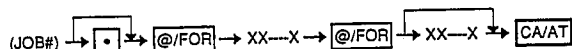
- *1 X1: Daily X report Z1: Daily Z report
 X2: Periodic X report X2: Periodic Z report
- *2 The time interval range, PLU code range, or PBLU code range UPC code range, or dept code can be specified by entering the start and end numbers according to the following procedure. When specifying a single time interval, PLU code, or PBLU code, the start number has only to be entered.
 [XXXX] → [@/FOR] → [XXXX]
 Start no. End no.
- *3 When 2 is entered in the third digit of a job code, periodic reports are printed.
 Example: Daily general report; job code 100
 Periodic general report; job code 200
- *4 In the case of stay down cashier, the cashier code entry is like following.

REAL KEY	A	B	D	E
CODE	1	2	3	4

- *5 all: No data entry type (All range type)
 <Key sequence>



Limited data selection: data entry type (range or code entry type)
 <Key sequence>



- The report will be printed on a receipt and journal tape with depression of the [CA/AT] key.
 It will be printed on a slip and journal tape with depression of the [SLIP] key.
- If the decimal point key is pushed following to the job code, the data within the ECR will be cleared (resetting report).
 The decimal point key may not be pushed for the report that cannot issue a reset report.
- If the decimal point key is not pushed following to the job code, the data within the ECR will be retained (reading report).

9. SERVICE PRECAUTION

9-1. Hints and tips when installing the RAM chip option (ER-02RA)

- 1) When the RAM option (ER-02RA) is to be installed to the option memory PWB (ER-01MB), care must be exerted not to damage the PWB.

9-2. Printer motor lock

In the ER-3550 and ER-33SP, the motor will automatically turn off when a premature halting of the timing signals occurs due to a paper misfeed, ribbon jam, intrusion of alien object, etc. When the motor stops, an intermittent beeping will occur, with no indication in the display.

<How to reset the motor lock>: R/J printer

- 1) Turn off the power switch. And remove the cause.
- 2) When power is restored, the following is displayed.

MOTOR LOCK

Fig. 9-1

- 3) Depress the [CL] key to return the ER-3550 to the point where the cause happened. The power failure symbols will be printed after a line feed.
- 4) Print sample

```

DPT-001=====
DPT.001          $2.00
  
```

Fig. 9-2

<How to reset the motor lock>: Slip printer

- 1) Disconnect the AC cord from the wall outlet.
- 2) Remove paper jam, ribbon jam, or other cause for motor lock.
- 3) Connect the AC cord to the wall outlet.
- 4) The following displayed.

MOTOR LOCK

Fig. 9-3

- 5) Release the paper with the [*/FOR] key and check the paper position again.
- 6) Depress the [CL] key to return the slip printer to the point where the cause happened. The power failure symbols will be printed after a line feed.

- 6) Print sample

```

01/01/00 12:07AM 000#0004      A

#200 *Z2*
=====Z1=====
Z1 0000
Z2 0004
GT1 $0000000000.00
GT2 $0000000000.00
GT3 $0000000000.00
TR  $0000000000.00
*DEPT*
*DEPT TL      00
              $0.00
              100.00%
DEPT(-)      00
              $0.00
*TRANS.*
NET3         $0.00
  
```

Fig. 9-4

9-3. Others

- 1) It may destruct the diode D10 if the VRAM is shorted with 5V supply during machine servicing.
In this event, normal operation is usually possible, except that it may not recharge the battery, failing to back it up, resulting in memory frustration.

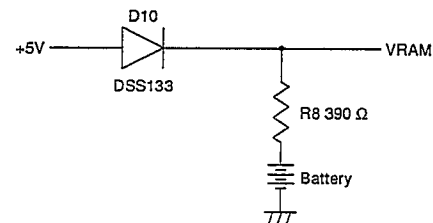


Fig. 9-3

9-4. Scanner

The ER-3550 has scanner interface which allows scanner connection. As the target device, use the following models:

- Spectra Physics Co., Ltd.: Model 750F
- The other models which have interface equivalent to the OCIA standards.

Note: The scanner I/F cable (IO-17SC2) is required.

SHARP PARTS GUIDE

MODEL ER-3550U

PRINTER : M-820

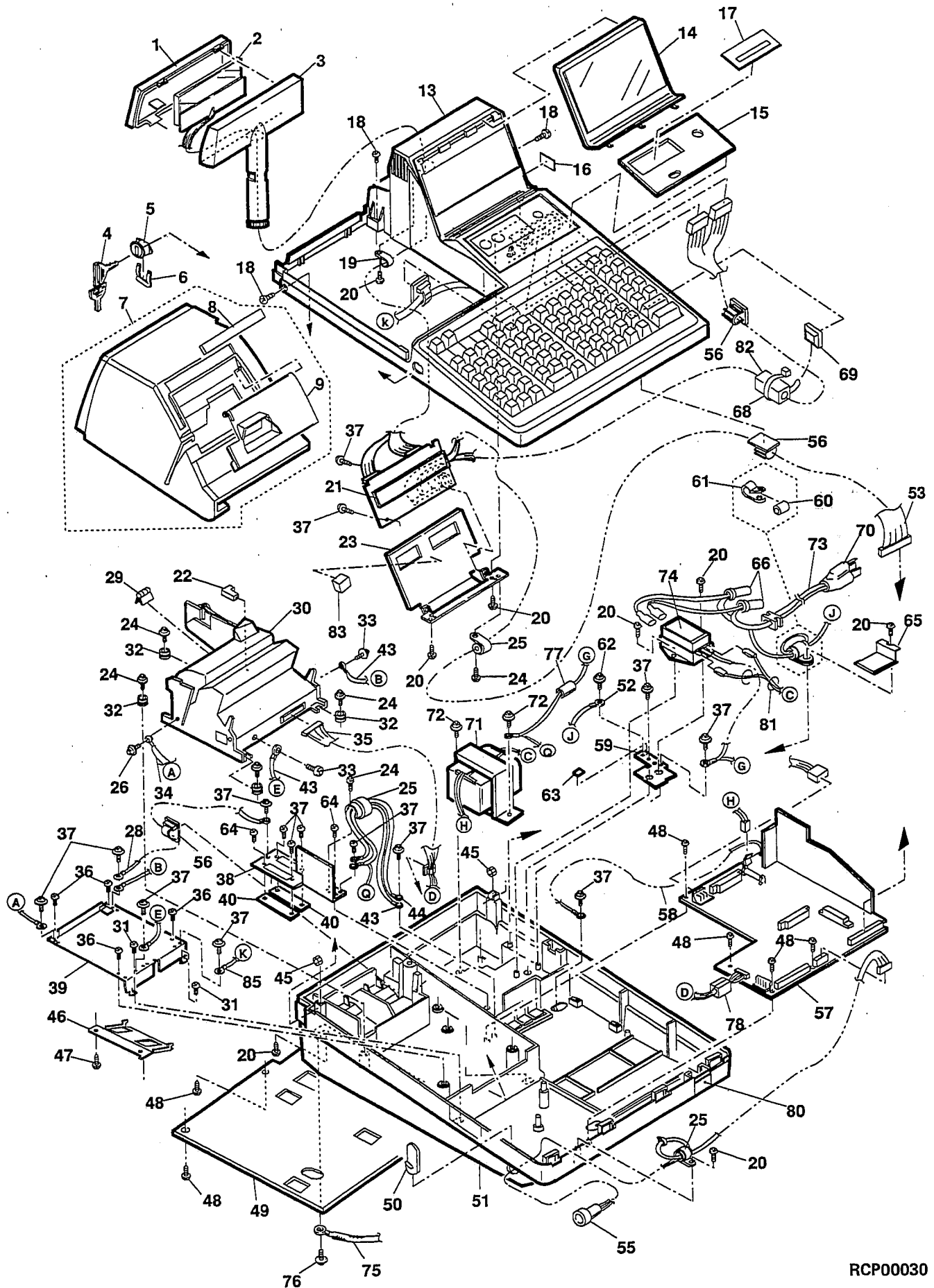
CONTENTS

- 1 Exteriors
- 2 Keyboard unit
- 3 Packing material & Accessories
- 4 Drawer box unit (SS460 type)
- 5 Main PWB unit
- 6 Customer display PWB unit
- 7 Display PWB unit
- 8 Articles for consumption
- Index

Because parts marked with "△" is indispensable for the machine safety maintenance and operation, it must be replaced with the parts specific to the product specification.

- 1 -

1 Exteriors



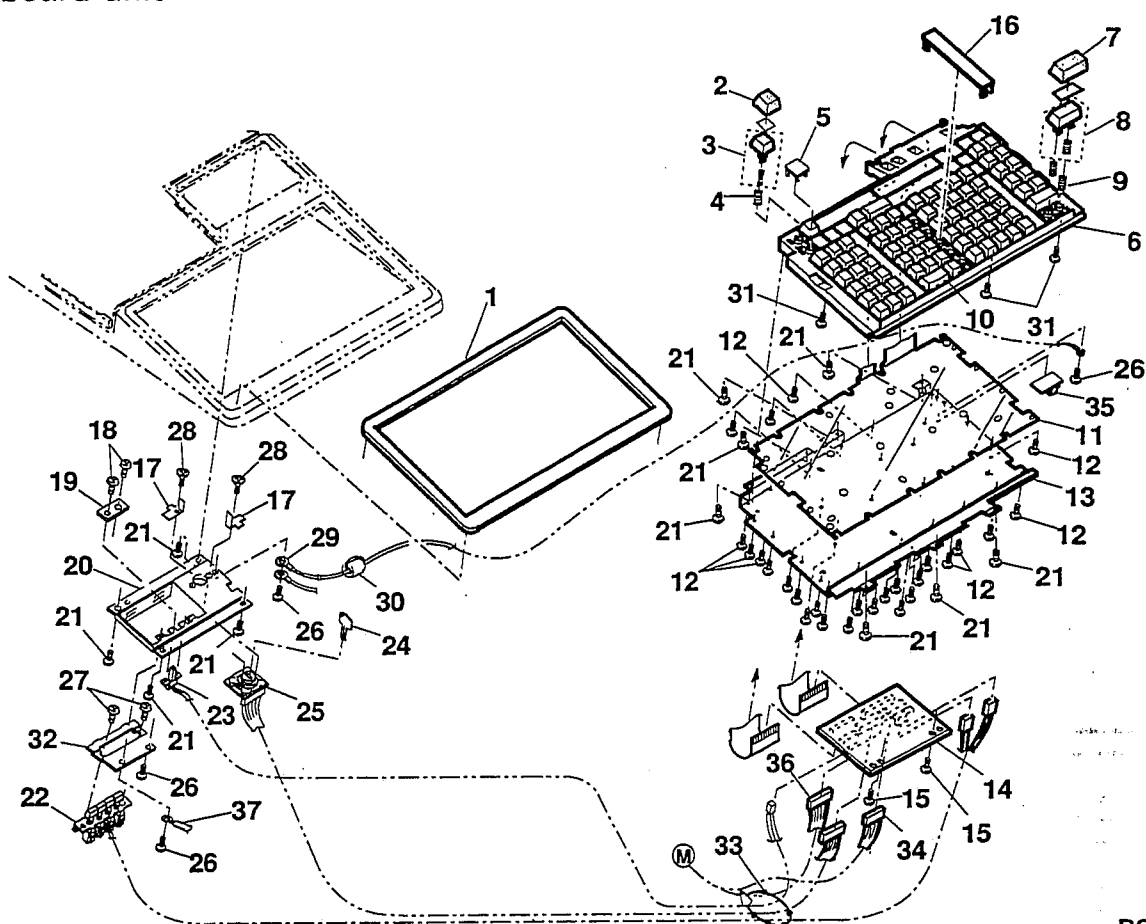
2 Keyboard unit

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
1	HDECE6816RCZZ	AY		C	Key deco. panel
2	0EMKT80020001	AC		C	Key cap(1×1) (TKT8002-00-001)
3	0EMWK46466510	AC		C	Key top(1×1) (TWK4646-65-010)
4	0EMWK45531120	AC		C	Spring(1×1) (TWK4553-11-020)
5	0EMWK45001410	AD		C	Dummy cover(1×1) (TWK4500-14-010)
6	0EMWK46690210	AW		C	Housing (TWK4669-02-010)
7	0EMKT80220001	AE		C	Key cap(1×2) (TKT8022-00-001)
8	0EMWK46466610	AE		C	Key top(1×2) (TWK4646-66-010)
9	0EMWK45531210	AC		C	Spring(1×2) (TWK4553-12-010)
10	0EMWK464666110	AR		C	Key top ass'y (TWK4646-61-010)
11	0EMWK46696010	BA		C	Pattern sheet ass'y (TWK4669-60-010)
12	0EMKE31133061	AA		C	Screw (M3×6)(TKE3113-30-060)
13	0EMWK46690510	AX		C	Plate (TWK4669-05-010)
14	0EMWK46696310	BG		E	Key PWB ass'y (TWK4669-63-0010)
15	0EMKE25122061	AA		C	Screw (2×6)(HKE2512-20-0601)
16	0EMWK45001510	AE		C	Dummy cover(1×5) (TWK4500-15-010)
17	PZETE6652RCZZ	AB		C	Insulation sheet (for mode switch)
18	XBPSD20P04000	AA		C	Screw (2×4)
19	PZETE6651RCZZ	AB		C	Insulation sheet (for slide switch)
20	LANGT7246RCZZ	AG		C	Angle(for switch installment)
21	XUBSD30P06000	AA		C	Screw (3×6)
22	QSW-Z6774RCZA	AV	N	B	Clerk switch
23	QSW-Z6773RCZZ	AN		B	Slide switch
24	LKGIM7110RCZZ	AG		B	Master key (MA)(2pcs)
	LKGIM7111RCZZ	AG		B	Operator key (OP)(2pcs)
	LKGIM7129RCZZ	AE		B	Sub master key (SM)(2pcs)
	LKGIM7256RCZZ	AP		B	Mode key switch (Body)
25	XBPSD30P06KS0	AA		C	Screw (3×6KS)
27	XBSSD30P06000	AA		C	Screw (3×6)
28	XUSSD30P06000	AA		C	Screw (3×6)
29	QCNW-7360RCZZ	AB		C	Earth wire 3
30	RCORF6640RCZZ	AH		C	Core (TR-16-8-13)
31	XUBSD30P08000	AA		C	Screw (3×8)
32	LANGK7314RCZZ	AC		C	Clerk switch angle
33	LBNDJ0004UCZZ	AA		C	Band
34	QCNW-7454RCZZ	AH		C	Key cable 1
35	LHLDW5034BCZZ	AB		C	Wire holder (CKN-10)
36	QCNW-7455RCZZ	AK		C	Key cable 2
37	QCNW-7120RCZZ	AE		C	Earth wire (Keyboard→Base plate)
101	0EMWK47040210	AT	N	D	Key label (TWK4704-020010)
501	DUNTK9367RCZZ	BT	N	E	Keyboard(normal type)
					(Include No.2~16,101)

3 Packing material & Accessories

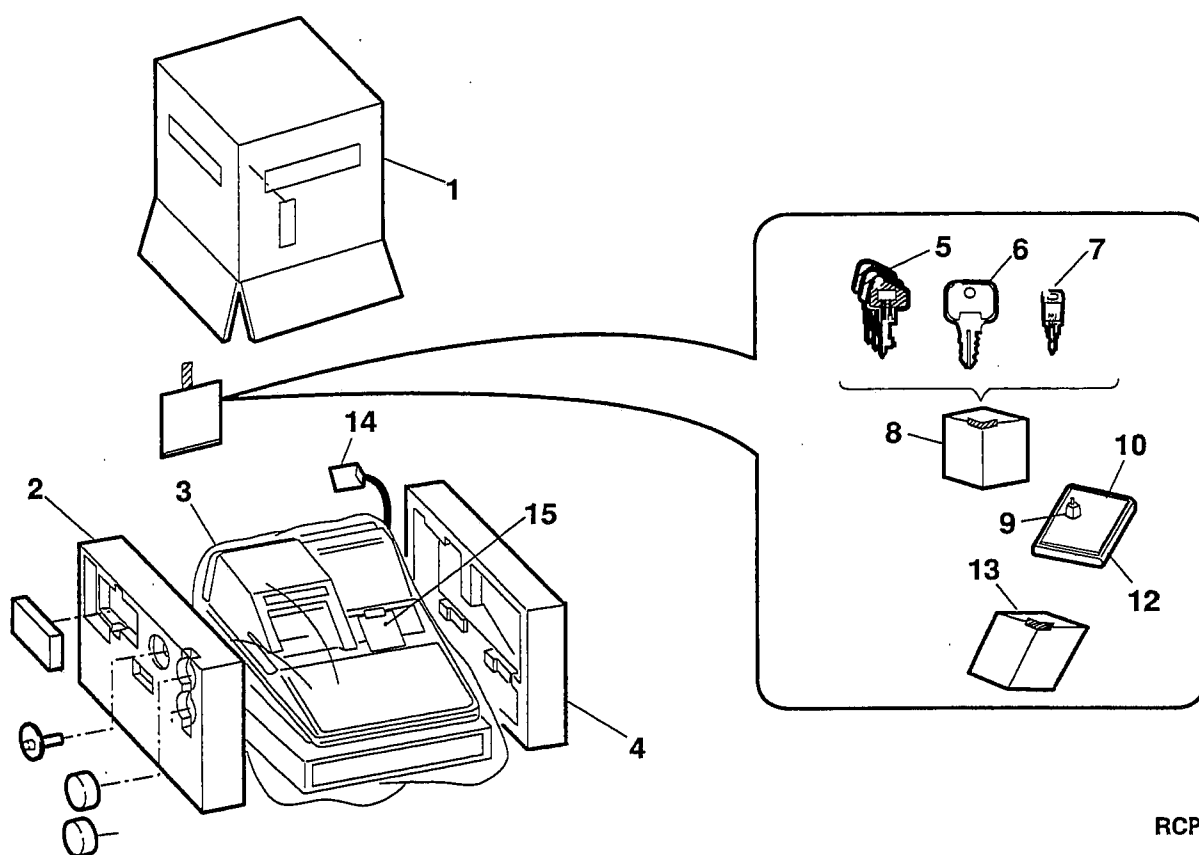
NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
1	SPAKC7950RCZZ	AU	N	D	Packing case
2	SPAKA7579RCZZ	AP		D	Packing cushion (Left)
3	SSAKA2012KCZZ	AF		D	Vinyl bag (600×540×510)
4	SPAKA7578RCZZ	AP		D	Packing cushion (Right)
5	LKGIM7110RCZZ	AG		B	Master key (MA)(2pcs)
	LKGIM7111RCZZ	AG		B	Operator key (OP)(2pcs)
	LKGIM7129RCZZ	AE		B	Sub master key (SM)(2pcs)
6	LKGIM6866RCZZ	AH		B	Lock key (1PC)
7	LKGIM6784RCZZ	AD		B	Printer cover key (1PC)
8	SSAKA0001SCZZ	AA		D	Vinyl bag (200×300mm)
9	UINK-1001CCZZ	AK		S	Ink for stamp (5cc)
10	TINSE7216RCZZ	AX	N	D	Instruction book
12	GCOVD6871RCZZ	AP		D	Dust cover
13	SSAKH3015CCZZ	AA		D	Vinyl bag (260×360mm)
14	SSAKA5004CCZZ	AA		D	Vinyl bag (100×300mm)
15	TCADH6653RCZZ	AB		D	Caution card
101	UBNDA1008CCZZ	AA		C	AC cord band (120mm)

2 Keyboard unit



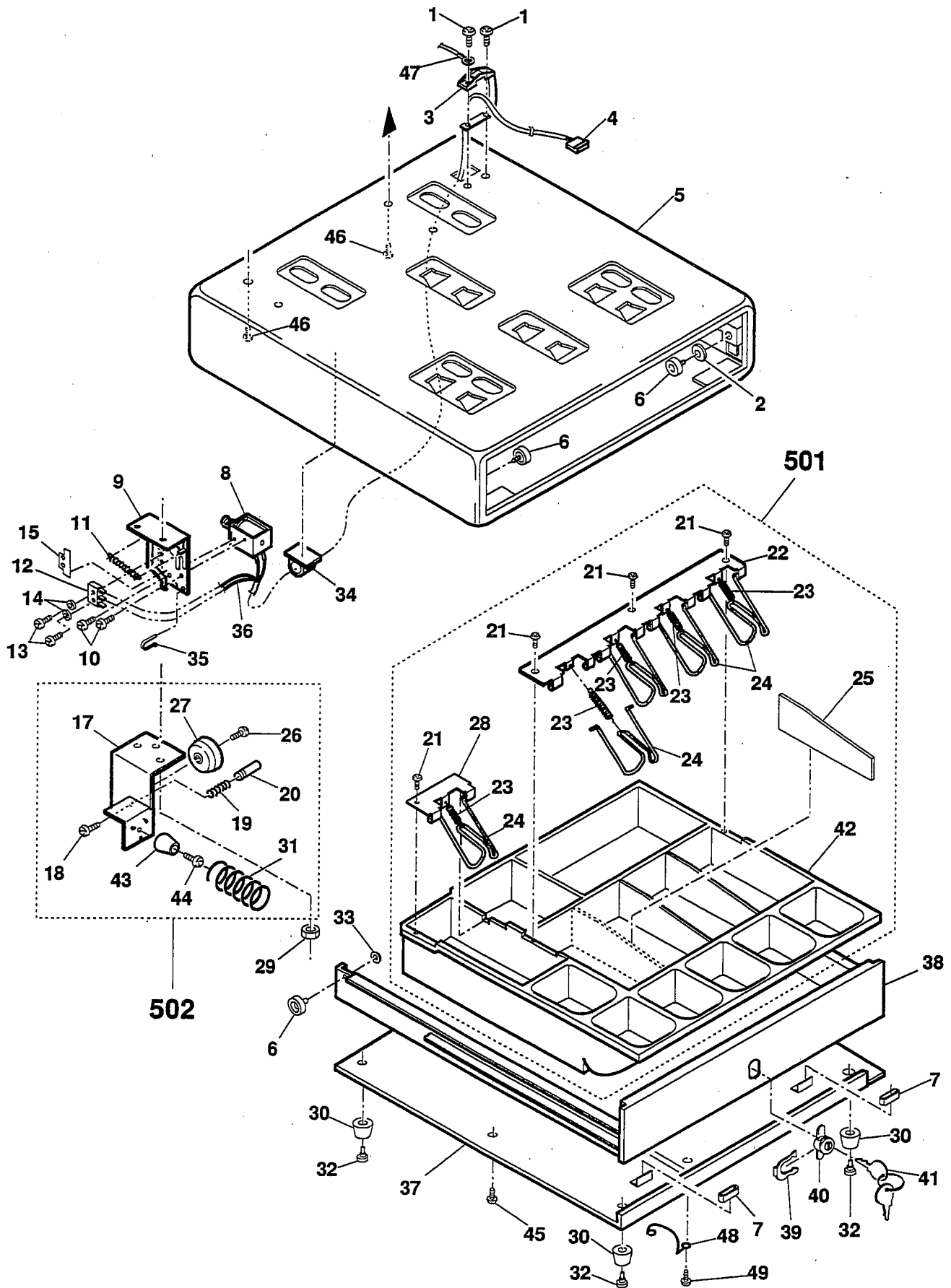
RCP00031

3 Packing material & Accessories



RCP00032

4 Drawer box unit(SS460 type)



4 Drawer box unit(SS460 type)

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
1	XBPSD30P10KS0	AB		C	Screw (3×10KS)
2	LX-WZ0052FCZZ	AA		C	Washer
3	LHLDW4081CCZZ	AC		C	Cable holder
4	QCNW-712RCZZ	AH		C	Connector with wire
5	GCABM6986RCSA	BG		D	Drawer cabinet
6	NR0LP6643RCZZ	AE		C	Roller
7	PGUMM6659RCZZ	AB		C	Stopper rubber (Front)
8	PMAGE6631RC01	AQ		B	Plunger
9	DUNTM8517RCZZ	AN		C	Lock frame unit
10	XBPSD30P05K00	AA		C	Screw (3×5K)
11	MSPRT6695RCZZ	AB		C	Open spring
12	QSW-M2128SCZZ	AG		B	Microswitch
13	XBPSD23P10000	AA		C	Screw (2.3×10)
14	XWHS26-05075	AA		C	Washer (2.6)
15	PSHEZ6735RCZZ	AB		C	Insulation sheet
17	LFRM-6667RCZZ	AF		C	Bell frame
18	XBPSD40P06000	AA		C	Screw (M4×6)
19	MSPRC6694RCZZ	AB		C	Bell spring
20	MLEVP6687RCZZ	AK		C	Bell hammer
21	XUPSD30P06000	AA		C	Screw (3×6)
22	LBRC-6654RCZZ	AK		C	Bracket (for 4B)
23	MSPRK6698RCZZ	AB		C	Bill pressure spring
24	MLEV-6571RCN1	AD		C	Bill pressure lever
25	GiTAU6642RCZZ	AE		C	Bill separator
26	XBPSD40P06K00	AA		C	Screw (4×6K)
27	RALML6636RCZZ	AD		C	Bell
28	LBRC-6653RCZZ	AF		C	Bracket (for 1B)
29	LX-NZ0070WRE0	AA		C	Nut
30	GLEGG6047RCZZ	AE		C	Stopper rubber (Rear)
31	MSPRC6693RCZZ	AD		C	Push out spring
32	LX-BZ6750RCZZ	AA		C	Screw
33	XNESD60-50000	AA		C	Nut (M6)
34	XWSSD60-15000	AA		C	Spring washer (φ6)
35	LHLDW2091SCZZ	AC		C	Wire holder (CKN-07)
36	QCNW-6637RCZZ	AB		C	Band (SKB-1M)
37	LCHSS6658RCZA	AU		C	Lead wire for microswitch
38	GDRW-6665RCSA	BA		D	Bottom plate
39	MSPRK6669RCZZ	AD		C	Drawer case
40	LKGiW6865RCZZ	AT		B	Lock spring
41	LKGiM6866RCZZ	AH		B	Lock key (body)
42	GCASP6641RCZZ	AV		C	Lock key (1PC)
43	GLEGG6645RCZZ	AB		C	Coin case
44	LX-BZ6751RCZZ	AA		C	Stopper rubber
45	XCTSD40P06000	AA		C	Screw (M3)
46	XBPSD40P08000	AA		C	Screw (4×6)
47	QCNW-7122RCZZ	AD		C	Screw (4×8)
48	MSPRP6709RCZZ	AC		C	Earth wire(Base plate→Drawer)
49	XFPSD30P06000	AA		C	Earth spring
101	GPAD-6626RCZZ	AC		D	Screw (3×6)
501	CCASP6666RC01	AZ		E	Packing cushion for drawer box
502	DUNT-8677RCZZ	AN		E	Money case (6B/6C)
503	CLOK-6657RC02	AX		E	Spring unit(with bell)
	(Unit)				Lock unit (Include No.4,8~15,35,36)
901	GB0XD7094RCZZ	BW	N	E	Drawer box unit (except No.46,47)

5 Main PWB unit

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
1	VHi27020RAA1A	BM	N	B	IC (27020RAA1A)
2	LBNDJ0004UCZZ	AA		C	Band
3	PRDAF6641RCZZ	AK		C	Heat sink
4	QCNCW1057ACZZ	AB		C	Connector (2pin)
5	QCNCM1060AC03	AB		B	Connector (3pin)
6	QCNCM1101CCZZ	AB		B	Connector (2pin)(5273-02A)
7	QCNCM2379RC0E	AC		C	Connector (5pin)
8	QCNC-6786RC3J	AQ		C	Connector (30pin)
9	QCNCM6821RC0C	AC		B	Connector (3pin)
10	QCNCM6828RC0H	AF		C	Connector (8pin)
11	QCNCM6865RC0i	AC		C	Connector (9pin)
12	QCNCM6865RC2J	AD		C	Connector (20pin)
13	QCNCM6926RC1E	AE		C	Connector (15pin)
14	QCNCM6926RC1H	AE		C	Connector (18pin)
15	QCNCW6973RC5J	AH		C	Connector (50pin)
16	QCNW-7124RCZZ	AB		C	GND wire 2 (To switch angle)
17	QCNW-7127RCZZ	AB		C	GND wire 5

5 Main PWB unit

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
18	QCNW-7475RCZZ	AE		C	GND wire
19	QCNW-7483RCZZ	AE		C	GND wire
20	QCNW-7518RCZZ	AR		C	Printer cable
21	QFS-B0300QCZZ	AE		A	Fuse (1A 125V)
22	QFS-B0322QCZZ	AC		A	Fuse (UL125V 3.15A)
23	QFS-A1037CCZZ	AC		A	Fuse (1.5A)(MINI TYPE)
24	QFSA1002CCZZ	AB		C	Fuse holder (MINI TYPE)
25	QSOCCZ2042SC32	AE		C	IC socket (32pin)
26	RALMB6640RCZZ	AF		B	Buzzer (SMX06)
27	RC-EZ688MRC1J	AQ		C	Capacitor (63WV 6800μF)
28	RC-KZ1054CCN2	AB		C	Capacitor (0.1μF)
29	RCILC6633RCTZ	AH		C	Coil (CR-20)
30	RCILC6641RCZZ	AQ		C	Coil
31	RCSZ5001SCZZ	AD		B	Crystal (8.0MHz)
32	RCSRSP6635RCZZ	AD		B	Crystal (4.91Hz)
33	RMPTC6103QCKB	AC		B	Block resistor (10KΩ×6 1/8W ±10%)
34	RMPTC8102QCKB	AD		B	Block resistor (1.0KΩ×8 1/8W ±10%)
35	RMPTC8103QCKB	AD		B	Block resistor (10KΩ×8 1/8W ±10%)
36	RTRNH6783RCZZ	AN		B	Converter transformer
37	RVR-M2415QCN3	AE		B	Variable resistor (Applicable to the production until November)
38	RVR-M2516QCZZ	AD		B	Variable resistor (CT-6P)
39	UBATN6639RCZZ	AS		B	Battery (170MA 2.4V)
40	VCCCPU1HH200J	AA		C	Capacitor (50WV 20PF)
41	VCCCPU1HH300J	AA		C	Capacitor (50WV 30PF)
42	VCEAGA2AW106M	AB		C	Capacitor (100WV 10μF)
43	VCEAGU1CW106M	AA		C	Capacitor (16WV 10μF)
44	VCEAGU1CW108M	AD		C	Capacitor (16WV 1000μF)
45	VCEAGU1HW105M	AA		C	Capacitor (50WV 1.0μF)
46	VCEAGU1HW227M	AC		C	Capacitor (50WV 220μF)
47	VCEAGU1HW477M	AD		C	Capacitor (50WV 470μF)
48	VCEAGU1VW228M	AG		C	Capacitor (35WV 2200μF)
49	VCEAGU2AW226M	AB		C	Capacitor (100WV 22μF)
50	VCKYPA1HB152K	AA		C	Capacitor (50WV 1500pF)
51	VCKYPU1HB101K	AA		C	Capacitor (50WV 100PF)
52	VCKYPU1HB102K	AA		C	Capacitor (50WV 1000pF)
53	VCKYPU1HB221K	AB		C	Capacitor (50WV 220PF)
54	VCKYPU1HB331K	AA		C	Capacitor (50WV 330PF)
55	VCKYPU1HB561K	AA		C	Capacitor (50WV 560pF)
56	VCKYPU1HB471K	AA		C	Capacitor (50WV 470PF)
57	VCQYNA1HM103K	AA		C	Capacitor (50WV 0.01μF)
58	VCQYNU1HM222K	AA		C	Capacitor (50WV 2200PF)
59	VCQYNU1HM683K	AB		C	Capacitor (50WV 0.068μF)
60	VCQYNU2AM103K	AA		C	Capacitor (100WV 0.01μF)
61	VCSAVA1AE475M	AB		C	Capacitor (10WV 4.7μF)
62	VCSAVA1CE685M	AC		C	Capacitor (16WV 6.8μF)
63	VHDDSS131HV-1	AA		B	Diode (DSS131HV)
64	VHDDSS133HV-1	AA		B	Diode (DSS133HV)
65	VHDEK04///-1	AD		B	Diode (EK04)
66	VHDRBV401///-1	AG		B	Diode (RBV401)
67	VHD1SS82///-1	AB		B	Diode (1SS82)
68	VHD10DF1///-1	AD		B	Diode (10DF1)
69	VHEE102///-1	AC		B	Zener diode (E102)
70	VHERD39EB3/-1	AC		B	Zener diode (RD39EB3)
71	VHERD4.3EL1-1	AA		B	Zener diode (RD4.3EL1)
72	VHERD4.3EL3-1	AB		B	Zener diode (RD4.3EL3)
73	VHERD6.2EB1-1	AB		B	Zener diode (RD6.2EB1)
74	VHiHD63A03/-1	BB		B	IC (HD63A03)
75	VHiIR3M03AV-1	AH		B	IC (IR9393)
76	VHiIR9393///-1	AE		B	IC (IR9393)
77	VHiLH5167P-55	AT		B	IC (LH5167P-55)
78	VHiLH52256L12	AY		B	IC (LH52256L12)
79	VHiLZ95G29/-1	AW		B	IC (LZ95G29)
80	VHiMC74HC00-1	AE		B	IC (TC74HC00)
81	VHiM54567P/-1	AK		B	IC (M54567P)
82	VHiSMA4392/-1	AN		B	IC (SMA4392)
83	VHiSTA401A/-1	AP		B	IC (STA401A)
84	VHiSTR2124/-1	AR		B	IC (STR2124)
85	VHiTD62503P-1	AG		B	IC (TD62503P)
86	VHiT74LS14/-C	AG		B	IC (T74LS14)
87	VHi643330R38F	AZ		B	IC (643330R38F)
88	VHPPC917///-1	AH	N	B	Photo transistor (PC917)
89	VRD-RB2HY561J	AA		C	Resistor (1/2W 560Ω ±5%)
90	VRD-RC2EY000J	AA		C	Resistor (1/4W 0Ω ±5%)
91	VRD-RC2EY100J	AA		C	Resistor (1/4W 100Ω ±5%)
92	VRD-RC2EY101J	AA		C	Resistor (1/4W 100Ω ±5%)
93	VRD-RC2EY102J	AA		C	Resistor (1/4W 1.0KΩ ±5%)
94	VRD-RC2EY103J	AA		C	Resistor (1/4W 10KΩ ±5%)
95	VRD-RC2EY104J	AA		C	Resistor (1/4W 100KΩ ±5%)
96	VRD-RC2EY132G	AA		C	Resistor (1/4W 1.3KΩ ±2%)
97	VRD-RC2EY151J	AA		C	Resistor (1/4W 150Ω ±5%)

5 Main PWB unit

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
98	VRD-RC2EY182G	AA		C	Resistor (1/4W 1.8KΩ ±2%)
99	VRD-RC2EY2R7J	AA		C	Resistor (1/4W 2.7Ω ±5%)
100	VRD-RC2EY202J	AA		C	Resistor (1/4W 2.0KΩ ±5%)
101	VRD-RC2EY220J	AA		C	Resistor (1/4W 22Ω ±5%)
102	VRD-RC2EY221J	AA		C	Resistor (1/4W 220Ω ±5%)
103	VRD-RC2EY223G	AA		C	Resistor (1/4W 22KΩ ±2%)
104	VRD-RC2EY272J	AA		C	Resistor (1/4W 2.7KΩ ±5%)
105	VRD-RC2EY273J	AA		C	Resistor (1/4W 27KΩ ±5%)
106	VRD-RC2EY332J	AA		C	Resistor (1/4W 3.3KΩ ±5%)
107	VRD-RC2EY333J	AA		C	Resistor (1/4W 33KΩ ±5%)
108	VRD-RC2EY391J	AA		C	Resistor (1/4W 390Ω ±5%)
109	VRD-RC2EY392J	AA		C	Resistor (1/4W 3.9KΩ ±5%)
110	VRD-RC2EY472G	AA		C	Resistor (1/4W 4.7KΩ ±1%)
111	VRD-RC2EY472J	AA		C	Resistor (1/4W 4.7KΩ ±5%)
112	VRD-RC2EY562J	AA		C	Resistor (1/4W 5.6KΩ ±5%)
113	VRD-RC2EY563J	AA		C	Resistor (1/4W 56KΩ ±5%)
114	VRD-RC2EY622J	AA		C	Resistor (1/4W 6.2KΩ ±5%)
115	VRD-RC2EY623J	AA		C	Resistor (1/4W 62KΩ ±5%)
116	VRD-RC2EY682J	AA		C	Resistor (1/4W 6.8KΩ ±5%)
117	VRD-RC2EY752G	AA		C	Resistor (1/4W 7.5KΩ ±2%)
118	VRD-RC2EY822G	AA		C	Resistor (1/4W 8.2KΩ ±2%)
119	VRNRC2EK1002F	AA		C	Resistor (1/4W 10KΩ ±1%)
120	VRNRC2EK1201F	AA		C	Resistor (1/4W 1.2KΩ ±1%)
121	VRNRC2EK1303F	AA		C	Resistor (1/4W 130KΩ ±1%)
122	VRNRC2EK3601F	AA		C	Resistor (1/4W 3.6KΩ ±5%)
123	VRS-RE3AAR68J	AA		C	Resistor (1W 0.68Ω ±5%)
124	VSJA101-///-1	AB		B	Transistor (JA101)
125	VSJC501-///-1	AB		B	Transistor (JC501)
126	VS2SA673-///-1	AD		B	Transistor (2SA673)
127	VS2SC4153-///-1	AG		B	Transistor (2SC4153)
128	VS2SD667-///-1	AD		B	Transistor (2SD667)
129	XBPSD30P08KS0	AA		C	Screw (3×8KS)
130	XBPSD30P10KS0	AB		C	Screw (3×10KS)
131	XBPSD30P12KS0	AA		C	Screw (M3×12)
132	XBPSD30P14KS0	AA		C	Screw (3×14KS)
133	XNESD30-24000	AA		C	Nut (M3)
134	QCNW-7463RCZZ	AB		C	Earth wire
(Unit)					(Applicable to the production from January 1992)
901	CPWBF7229RC04	CN	N	E	Main PWB unit

6 Customer display PWB unit

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
1	LBNDJ0004UCZZ	AA		C	Band
2	QCNW-7110RCZZ	AM		C	Pop-up cable 1
3	QCNW-7111RCZZ	AK		C	Pop-up cable 2
4	VVDH09LT-03ZK	AX		B	Display tube
(Unit)					
901	CPWBF7067RC01	BA		E	Customer display PWB unit

7 Display PWB unit

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
1	LBNDJ0004UCZZ	AA		C	Band
2	PSPAG6685RCZZ	AA		C	Spacer for display tube
3	QCNCM6926RC0H	AB		C	Connector (8pin)
4	QCNCM6926RC1C	AC		C	Connector (13pin)
5	QCNW-7454RCZZ	AH		C	Key cable 1
6	QCNW-7455RCZZ	AK		C	Key cable 2
7	QCNW-7456RCZZ	AQ		C	Lead wire (Display→Main PWB)
8	RC-KZ1054CCZZ	AB		C	Capacitor (50WV 0.1μF)
9	RCRSZ6644RCZZ	AD		B	Crystal (CST4.19MGW)
10	RCRSP6658RCZZ	AE	N	B	Crystal
11	RMPTCA104QCKB	AD		B	Block resistor (100KΩ×11 1/8W ±10%)
12	RMPTCB104QCKB	AE		B	Block resistor (100KΩ×12 1/8W ±10%)
13	RMPTC0104QCKB	AD		B	Block resistor (100KΩ×10 1/8W ±10%)
14	RMPTC5104QCKB	AB		B	Block resistor (100KΩ×5 1/8W ±10%)
15	RMPTC7103QCKB	AD		B	Block resistor (10KΩ×7 1/8W ±10%)
16	RMPTC8104QCKB	AD		B	Block resistor (100KΩ×8 1/8W ±10%)
17	VCCCPU1HH150J	AA		C	Capacitor (50WV 15PF)
18	VCEAEU1CW106M	AA		C	Capacitor (16WV 10μF)
19	VCKYPU1HB102K	AA		C	Capacitor (50WV 1000PF)

8 Articles for consumption

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PARTS CODE	NO.	PRICE RANK	NEW MARK	PART RANK
[C]				
CCABB7126RC01	1- 13	BD	N	D
CCASP6666RC01	4- 501	AZ		E
CCOVH7019RC01	1- 7	AX	N	D
CLOK-6657RC02	4- 503	AX		E
CPWBF7067RC01	1- 2	BA		E
//				
CPWBF7229RC04	1- 57	CN	N	E
//				
CPWBF7230RC02	1- 21	CA	N	E
//				
[D]				
DPAPR1006CSZZ	8- 1	AR		S
DUNT-8677RCZZ	4- 502	AN		E
DUNTK9367RCZZ	2- 501	BT	N	E
DUNTM8517RCZZ	4- 9	AN		C
[G]				
GBOXD7094RCZZ	4- 901	BW	N	E
GCABA7096RCZA	1- 51	BC	N	D
GCABB7055RCZZ	1- 3	AL		D
GCABM6986RCSA	4- 5	BG		D
GCASP6641RCZZ	4- 42	AV		C
GC0VA7017RCZZ	1- 9	AG		D
GC0VD6871RCZZ	3- 12	AP		D
GDRW-6665RCSA	4- 38	BA		D
GFTAF6759RCZZ	1- 80	AB		D
GFTAS6698RCZZ	1- 40	AE		D
GFTAS6760RCZZ	1- 50	AB		D
GiTAU6642RCZZ	4- 25	AE		C
GiTAU6723RCZZ	1- 59	AQ		D
GiTAU6735RCZZ	1- 49	AM		D
GLEGG6047RCZZ	4- 30	AE		C
GLEGG6645RCZZ	4- 43	AB		C
GPAD-6626RCZZ	4- 101	AC		D
[H]				
HBDGD6882RCZZ	1- 8	AF	N	D
HDECE6744RCSA	1- 17	AD		D
HDECE6814RCZZ	1- 15	AH		C
HDECE6816RCZZ	2- 1	AY		C
HPNLC6797RCZZ	1- 65	AB		D
[K]				
Ki-0B6754RCZZ	1- 30	CB	N	E
[L]				
LANGK7314RCZZ	2- 32	AC		C
LANGK7446RCZZ	1- 39	AP		C
LANGK7447RCZZ	1- 23	AL		C
LANGK7448RCZZ	1- 38	AQ	N	C
LANGK7456RCZZ	1- 46	AK	N	C
LANGT7246RCZZ	2- 20	AG		C
LBNDJ0004UCZZ	1- 81	AA		C
//				
//				
//				
//				
LBNDJ0011FCZZ	1- 19	AB		C
LBNDJ2004SCZZ	1- 68	AA		C
LBNDJ5003BCZZ	4- 35	AA		C
LBRC-6653RCZZ	4- 28	AF		C
LBRC-6654RCZZ	4- 22	AK		C
LCHSS6658RCZA	4- 37	AU		C
LFRM-6667RCZZ	4- 17	AF		C
LHLDW0005SCZZ	1- 61	AB		C
LHLDW2091SCZZ	4- 34	AC		C
LHLDW4081CCZZ	4- 3	AC		C
LHLDW5034BCZZ	1- 56	AB		C
//				
LHLDZ0584FCZZ	1- 69	AC		C
LKGiM6784RCZZ	1- 4	AD		B
//				
LKGiM6866RCZZ	3- 6	AH		B
//				
LKGiM7110RCZZ	2- 24	AG		B
//				
LKGiM7111RCZZ	2- 24	AG		B
//				
LKGiM7129RCZZ	2- 24	AE		B
//				
LKGiW6865RCZZ	4- 40	AT		B
LKGiW7107RC01	1- 5	AK		B
LKGiW7256RCZZ	2- 25	AP		B

PARTS CODE	NO.	PRICE RANK	NEW MARK	PART RANK
LX-BZ6750RCZZ	4- 32	AA		C
LX-BZ6751RCZZ	4- 44	AA		C
LX-BZ6773RCZZ	1- 33	AA		C
LX-BZ6774RCZZ	1- 26	AA		C
LX-NZ00070WRE0	4- 29	AA		C
LX-WZ0052FCZZ	4- 2	AA		C
[M]				
MLEV-6571RCN1	4- 24	AD		C
MLEVP6687RCZZ	4- 20	AK		C
MSPRC6693RCZZ	4- 31	AD		C
MSPRC6694RCZZ	4- 19	AB		C
MSPRK6669RCZZ	4- 39	AD		C
MSPRK6698RCZZ	4- 23	AB		C
MSPRP6709RCZZ	4- 48	AC		C
MSPRT6689RC01	1- 6	AC		C
MSPRT6695RCZZ	4- 11	AB		C
[N]				
NR0LP6643RCZZ	4- 6	AE		C
[P]				
PCUSG1220CCZZ	1- 32	AB		C
PFIW6827RCSB	1- 1	AN	N	D
PFIW6834RCSB	1- 14	AT	N	D
PGUMM6263RCZZ	1- 22	AC		C
PGUMM6659RCZZ	4- 7	AB		C
PMAGE6631RC01	4- 8	AQ		B
PRBN-6640RCZZ	8- 2	AX		S
PRDAF6641RCZZ	5- 3	AK		C
PSHEZ6735RCZZ	4- 15	AB		C
PSPAG6685RCZZ	7- 2	AA		C
PSPAG6707RCZZ	1- 83	AD		C
PSTM-6780RCZZ	1- 29	AR		C
PZETE6651RCZZ	2- 19	AB		C
PZETE6652RCZZ	2- 17	AB		C
[Q]				
QACCD8411QCZZ	1- 70	AN		B
QCNC-6786RC3J	5- 8	AQ		C
QCNCM1060AC03	5- 5	AB		B
QCNCM1101CCZZ	5- 6	AB		B
QCNCM2379RC0E	5- 7	AC		C
QCNCM6821RC0C	5- 9	AC		B
QCNCM6828RC0H	5- 10	AF		C
QCNCM6865RC0i	5- 11	AC		C
QCNCM6865RC2J	5- 12	AD		C
QCNCM6926RC0H	7- 3	AB		C
QCNCM6926RC1C	7- 4	AC		C
QCNCM6926RC1E	5- 13	AE		C
QCNCM6926RC1H	5- 14	AE		C
QCNCW1057ACZZ	5- 4	AB		C
QCNCW6973RC5J	5- 15	AH		C
QCNW-6637RCZZ	4- 36	AB		C
QCNW-7110RCZZ	6- 2	AM		C
QCNW-7111RCZZ	6- 3	AK		C
QCNW-7116RCZZ	1- 44	AE		C
QCNW-7117RCZZ	1- 73	AE		C
QCNW-7120RCZZ	1- 85	AE		C
//				
QCNW-7121RCZZ	1- 34	AD		C
QCNW-7122RCZZ	1- 75	AD		C
//				
QCNW-7124RCZZ	1- 58	AB		C
//				
QCNW-7125RCZZ	5- 16	AB		C
QCNW-7125RCZZ	1- 43	AD		C
QCNW-7127RCZZ	5- 17	AB		C
QCNW-7172RCZZ	4- 4	AH		C
QCNW-7360RCZZ	2- 29	AB		C
QCNW-7454RCZZ	2- 34	AH		C
//				
QCNW-7455RCZZ	2- 36	AK		C
//				
QCNW-7456RCZZ	1- 53	AQ		C
//				
QCNW-7463RCZZ	5- 134	AB		C
QCNW-7475RCZZ	5- 18	AE		C
QCNW-7483RCZZ	5- 19	AE		C
QCNW-7518RCZZ	1- 35	AR		C
//				
QCNW-7539RCZZ	1- 28	AD		C
QCNW-7541RCZZ	1- 55	AU	N	C
QFS-A1037CCZZ	5- 23	AC		A
QFS-B0300QCZZ	5- 21	AE		A

PARTS CODE	NO.	PRICE RANK	NEW MARK	PART RANK
QFS-B0322QCZZ	5- 22	AC		A
QFSHA1002CCZZ	5- 24	AB		C
QS0CZ2042SC32	5- 25	AE		C
QSW-M2128SCZZ	4- 12	AG		B
QSW-Z6773RCZZ	2- 23	AN		B
QSW-Z6774RCZA	2- 22	AV	N	B
QTANP0004HCZZ	1- 52	AB		C
QTANP6635RCZZ	1- 66	AA		C
[R]				
RALMB6640RCZZ	5- 26	AF		B
RALML6636RCZZ	4- 27	AD		C
RC-EZ688MRC1J	5- 27	AQ		C
RC-KZ1054CCN2	5- 28	AB		C
RC-KZ1054CCZZ	7- 8	AB		C
RCILC6633RCTZ	5- 29	AH		C
RCILC6641RCZZ	5- 30	AQ		C
RCORF5003SCZZ	1- 25	AK		C
RCORF6640RCZZ	2- 30	AH		C
RCORF6650RCZZ	1- 60	AE		C
RCORF6661RCZZ	1- 77	AK		C
RCORF6662RCZZ	1- 82	AK		C
RCORF6666RCZZ	1- 78	AM		C
RCRSP6635RCZZ	5- 32	AD		B
RCRSP6658RCZZ	7- 10	AE	N	B
RCRSZ5001SCZZ	5- 31	AD		B
RCRSZ6644RCZZ	7- 9	AD		B
RFILN6001RCZZ	1- 74	AT		C
RMPTCA104QCKB	7- 11	AD		B
RMPTCB104QCKB	7- 12	AE		B
RMPTC0104QCKB	7- 13	AD		B
RMPTC5104QCKB	7- 14	AB		B
RMPTC6103QCKB	5- 33	AC		B
RMPTC7103QCKB	7- 15	AD		B
RMPTC8102QCKB	5- 34	AD		B
RMPTC8103QCKB	5- 35	AD		B
RMPTC8104QCKB	7- 16	AD		B
RTRNH6783RCZZ	5- 36	AN		B
RTRNP6782RCZZ	1- 71	AZ		B
RVR-M2415QCN3	5- 37	AE		B
RVR-M2516QCZZ	5- 38	AD		B
[S]				
SPAKA7578RCZZ	3- 4	AP		D
SPAKA7579RCZZ	3- 2	AP		D
SPAKC7950RCZZ	3- 1	AU	N	D
SSAKA0001SCZZ	3- 8	AA		D
SSAKA2012KCZZ	3- 3	AF		D
SSAKA5004CCZZ	3- 14	AA		D
SSAKH3015CCZZ	3- 13	AA		D
[T]				
TCADH6653RCZZ	3- 15	AB		D
TCAUS1150CCZZ	1- 16	AA		D
TINSE7216RCZZ	3- 10	AX	N	D
TLAB-4681CCZZ	1- 63	AA		D
[U]				
UBATN6639RCZZ	5- 39	AS		B
UBNDA1008CCZZ	3- 101	AA		C
UINK-1001CCZZ	3- 9	AK		S
[V]				
VCCCPU1HH150J	7- 17	AA		C
VCCCPU1HH200J	5- 40	AA		C
VCCCPU1HH300J	5- 41	AA		C
VCEAEU1CW106M	7- 18	AA		C
VCEAGA2AW106M	5- 42	AB		C
VCEAGU1CW106M	5- 43	AA		C
VCEAGU1CW108M	5- 44	AD		C
VCEAGU1HW105M	5- 45	AA		C
VCEAGU1HW227M	5- 46	AC		C
VCEAGU1HW477M	5- 47	AD		C
VCEAGU1VW228M	5- 48	AG		C
VCEAGU2AW226M	5- 49	AB		C
VCKYPA1HB152K	5- 50	AA		C
VCKYPU1HB101K	5- 51	AA		C
VCKYPU1HB102K	5- 52	AA		C
[W]				
VCKYPU1HB221K	5- 53	AB		C
VCKYPU1HB331K	5- 54	AA		C
VCKYPU1HB471K	5- 56	AA		C
[X]				
VCKYPU1HB561K	5- 55	AA		C

PARTS CODE	NO.	PRICE RANK	NEW MARK	PART RANK
VCQYNA1HM103K	5- 57	AA		C
VCQYNU1HM222K	5- 58	AA		C
VCQYNU1HM683K	5- 59	AB		C
VCQYNU2AM103K	5- 60	AA		C
VCSAVA1AE475M	5- 61	AB		C
VCSAVA1CE106M	7- 21	AC		C
VCSAVA1CE685M	5- 62	AC		C
VHDDSS131HV-1	5- 63	AA		B
VHDDSS133HV-1	5- 64	AA		B
VHDEK04////-1	5- 65	AD		B
[Y]				
VHDRBV401///-1	7- 22	AD		B
VHD1SS82////-1	5- 66	AG		B
VHD1SS82////-1	5- 67	AB		B
VHD10DF1////-1	5- 68	AD		B
VHEE102////-1	5- 69	AC		B
VHEHZ9C1////-1	7- 23	AB		B
VHERD39EB3/-1	5- 70	AC		B
VHERD4.3EL1-1	5- 71	AA		B
VHERD4.3EL3-1	5- 72	AB		B
VHERD6.2EB1-1	5- 73	AB		B
VH1HD63A03/-1	5- 74	BB		B
VH1H4728A20FS	7- 24	AV		B
VH1IR2C12N/-1	7- 25	AM		B
VH1IR3M03AV-1	5- 75	AH		B
VH1IR9393///-1	5- 76	AE		B
VH1LH5167P-55	5- 77	AT		B
VH1LH52256L12	5- 78	AY		B
VH1Li2047P/-1	7- 26	AU		B
VH1LZ95G29/-1	5- 79	AW		B
VH1MC74HC00-1	5- 80	AE		B
VH1M54567P/-1	5- 81	AK		B
VH1SMA4392/-1	5- 82	AN		B
VH1STA401A/-1	5- 83	AP		B
VH1STR2124/-1	5- 84	AR		B
VH1TD62503P-1	5- 85	AG		B
VH1T74LS14/-C	5- 86	AG		B
VH127020RAA1A	5- 1	BM	N	B
VH1643330R38F	5- 87	AZ		B
VHPPC917///-1	5- 88	AH	N	B
VRD-RB2HY561J	5- 89	AA		C
VRD-RC2EY000J	5- 90	AA		C
[Z]				
VRD-RC2EY100J	7- 27	AA		C
VRD-RC2EY101J	5- 91	AA		C
VRD-RC2EY101J	5- 92	AA		C
VRD-RC2EY102J	5- 93	AA		C
VRD-RC2EY103J	5- 94	AA		C
[A]				
VRD-RC2EY104J	7- 28	AA		C
VRD-RC2EY104J	5- 95	AA		C
VRD-RC2EY105J	7- 29	AA		C
VRD-RC2EY132G	5- 96	AA		C
VRD-RC2EY151J	5- 97	AA		C
VRD-RC2EY182G	5- 98	AA		C
VRD-RC2EY2R7J	5- 99	AA		C
VRD-RC2EY202J	5- 100	AA		C
VRD-RC2EY220J	5- 101	AA		C
VRD-RC2EY221J	5- 102	AA		C
[B]				
VRD-RC2EY223G	7- 30	AA		C
VRD-RC2EY223G	5- 103	AA		C
VRD-RC2EY272J	5- 104	AA		C
VRD-RC2EY273J	5- 105	AA		C
VRD-RC2EY332J	5- 106	AA		C
VRD-RC2EY333J	5- 107	AA		C
VRD-RC2EY391J	5- 108	AA		C
VRD-RC2EY392J	5- 109	AA		C
VRD-RC2EY4R7J	7- 31	AA		C
VRD-RC2EY472G	5- 110	AA		C
VRD-RC2EY472J	5- 111	AA		C
VRD-RC2EY562J	5- 112	AA		C
VRD-RC2EY563J	5- 113	AA		C
VRD-RC2EY622J	5- 114	AA		C
VRD-RC2EY623J	5- 115	AA		C
VRD-RC2EY682J	5- 116	AA		C
VRD-RC2EY752G	5- 117	AA		C
VRD-RC2EY822G	5- 118	AA		C
VRNRC2EK1002F	5- 119	AA		C
VRNRC2EK1201F	5- 120	AA		C
VRNRC2EK1303F	5- 121	AA		C
VRNRC2EK3601F	5- 122	AA		C
VRS-RE3AAR68J	5- 123	AA		C
VRS-RE3AA272J	7- 32	AA		C

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