

• Changes from the ER-2385/2395

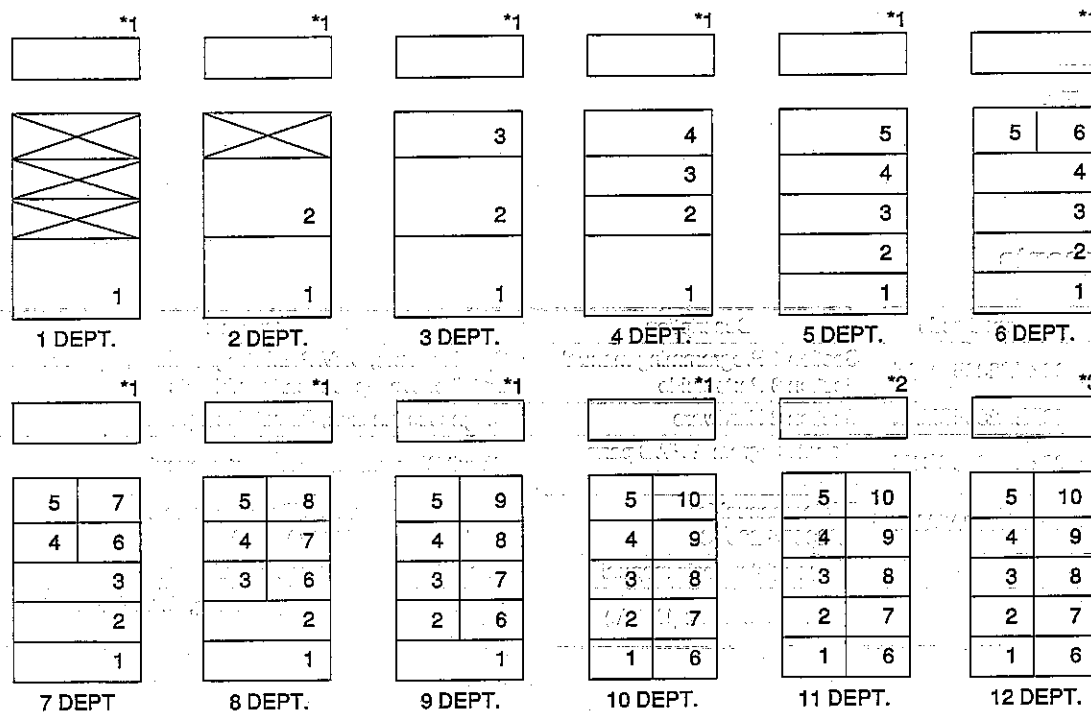
<<SOFTWARE>>

	Item	2395S	2385S
1	Increase in the number of DEPT's ER-2385S: Standard 10 Dept's. ER-2395S: Standard 12 Dept's., Max. 15 Dept's.	☐	☐
2	OPEN PLU's (GLOBAL selection of OPEN/PRESET for all PLU's, PGM-mode programming)	☐	☒
3	ITEM VALIDATION (DEPT, PLU, DEPT RF, PLU RF, DEPT VD, PLU VD)	☐	☒
4	CHECK CASHING	☐	☒
5	CHARGE REFUNDS (Sales closing is allowed with the CHARGE key even when MDSE ST ≤ 0.)	☐	☐
6	EXPANDED CURRENCY CONVERSION (4 integer + 3 decimal) (Note) The ER-2385/2395: 3 integer + 3 decimal	☐	☐
7	TAB setting 0 ~ 3 (SRV-mode programming)	☐	☐
8	JOB CODE LIKE ER-3300	☐	☐
9	Because of 2 digits of the number of DEPT's and resultant change in the print position of symbol "TX," (I) The print format is changed. (DEPT, PLU, %, (-)) (II) The display format is changed. (The display positions of DEPT No. and repeat counter.)	☐	☐
10	DEFAULT of the sign of % rate is changed to "-" (minus).	☐	☐

<<HARDWARE>>

1. Change in the key layout

The number of DEPT's can be selected in the range of 0 ~ 12 by SRV-mode programming. The key layouts are as follows:



Note:

- : Dummy key
- 11 DEPT's and 12 DEPT's are for the ER-2395S only.

	ER-2385S	ER-2395S
Key layout in *1	PLU TAX	%2
Key layout in *2	PLU TAX	11 %2
Key layout in *3	PLU TAX	11 12

- In addition, in the ER-2395S, [RA], [PO], [CONV] keys can be changed as follows to provide max. 15 DEPT's.

[RA] → [DEPT. 13]

[PO] → [DEPT. 14]

[CONV] → [DEPT. 15] or [%2]

2. Printer change

	Changes	2385S	2395S
a)	CR802A (2-16) → CR802A (2-20) Change in type-wheel arrangement	☐	☒
b)	CD-911D (2-16) → CR812A (2-10) Change in type-wheel arrangement, change in print speed and lifetime.	☒	☐
c)	Validation PRINTING function (for only CR-812A)	☒	☐

3. Change in display filter print

1. Internal Block Diagram

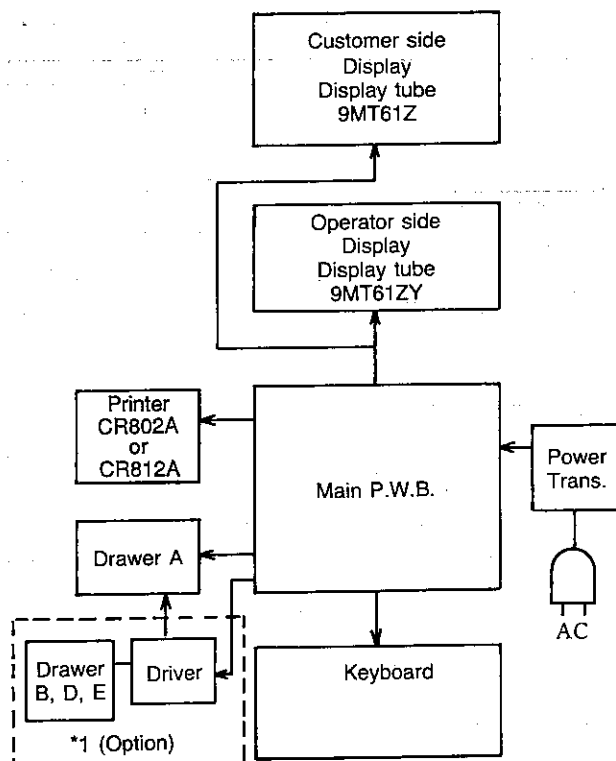


Fig. 1-1

*1: Option for ER-2395S

2. Special Service Tools

No.	Part code	Description	Price rank
1	UKOG-6634RCZZ	Key top remover	AX
2	UKOG-6635RCZZ	Key stem (switch) remover	AX
3	LKGIM7113RCZZ	Service key (SRV)	AK

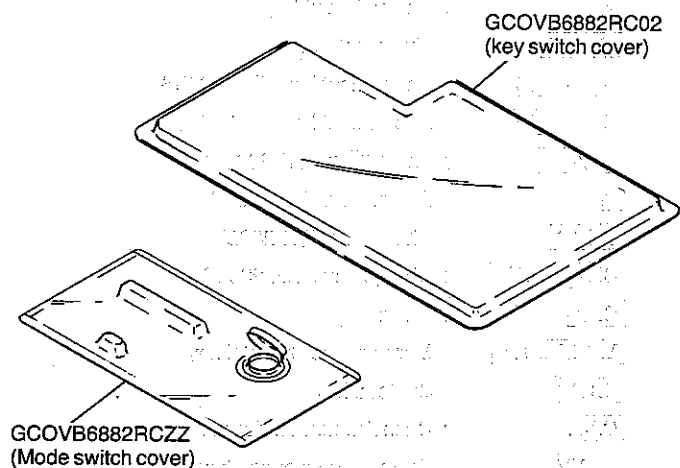
3. Reference Documents

No.	Models	Manual code	Description	Contents
①	ER2385/ER2395	00ZER2395SMBE	Section 1 Programming manual Section 3 Parts guide	Specifications, SRV/PGM Programming, Option/Tools Install of svc. option, parts guide etc.
②	ER2385/ER2395	00ZER2395SMHE	Section 2 Hardware	Diagnostic function, Circuit description
③	ER2385/ER2395	00ZER2395CD1M	Circuit Diagram & PWB parts layout	Circuit Diagram and PWB parts layout
④	CR802A/CR812A	00ZCR802ASM/M	Printer manual for ER2385S/2395S	Specs., parts guide, Difference table of CR802/812 ↔ CR802A/812A
⑤	All ECR	—	Cash register basic manual	Principle of cash register in hardwares
⑥	ER2385S/ER2395S	—	Instruction Manual (U.S.A.)	Specification, PGM programming, OPX/Z, REG, X1, X2/Z2 operations etc.

4. Options

No.	Model Name or Part Code	Description	Applied Model		SRV setting (Job #)	Service Option	Applicable country
			ER2385S	ER2395S			
1	GCOVB6882RC02	Drip-proof key switch cover	○	○	—	○	
2	GCOVB6882RCZZ	Drip-proof mode switch cover	○	○	—	○	
3	DKIT-8356RCZZ	Kit for key cover Note*1	○	○	—	○	
4	DKIT-8324RCZZ	Drawer bell kit	○	○	—	○	
5	DKIT-8325RCZZ	Drawer open sensor μ SW kit ³	○	○	904-B	○	
6	DKIT-8323RCZZ	Remote drawer kit (without drawer)	—	○	904-B	○	U.S.A. Canada
7	GBOXD6907RCZZ	Remote drawer (5B/5C)	—	○	904-B	○	U.S.A.
8	GBOXD6908RCZZ	Remote drawer (4B/5C)	—	○	904-B	○	Canada
9	ER35CC	Coin case for 5B/5C	○	○	—	—	U.S.A.
10	ER35CC1	Coin case for 4B/5C	○	○	—	—	CANADA

Note: *1: The key cover kit contains a key switch cover (GCOVB6882RC02) and a mode switch cover (GCOVB6882RCZZ).



5. Specifications

5-1. Appearance

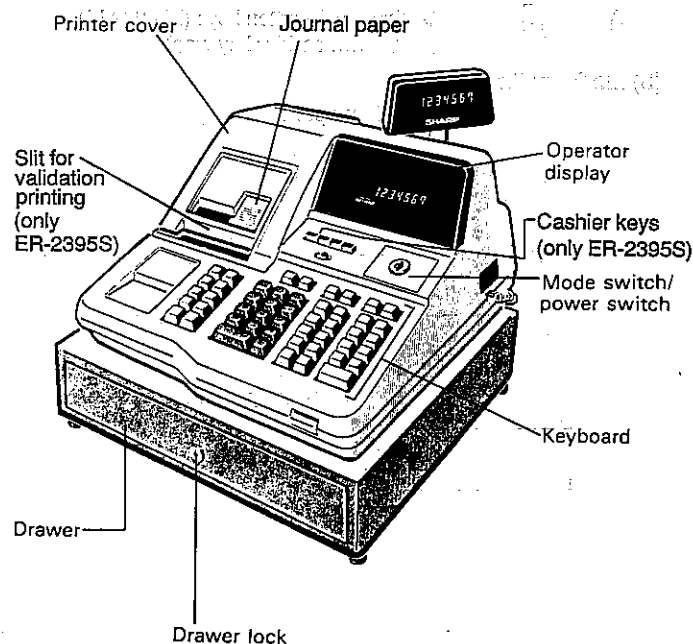


Fig. 5-1

Rear side

Customer display

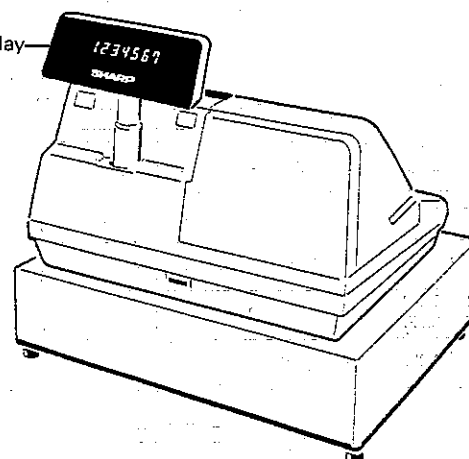


Fig. 5-2

The above photos show the ER-2395S. The appearance of the ER-2385S is the same as that of the ER-2395S except for the keyboard (see the following pages.)

5-2. Rating

Model	: ER-2385S, ER-2395S
External size	: 405(W) × 425(D) × 310(H)mm Maximum height with lifting the customer display 381mm
Weight	: 12.7Kg
Power supply	: AC local voltage $\pm 10\%$ 50/60 Hz
Power consumptions	: 11.9W on stand-by 37w (max.) in operation
Operating temp.	: 32°F to 104°F (0°C to 40°C)
Built-in battery	: Ni-cd rechargeable battery Memory holding time: approx. 1 month (With fully charged at room temperature) Recharging time: 24 - 48 hours at 68°F (20°C)
Color	: Cabinet OA gray Drawer Light olive gray
Built-in clock	: ± 50 sec. in a month

5-3. Key Board

(1) Key layout

Standard keyboard layout of the ER-2385S

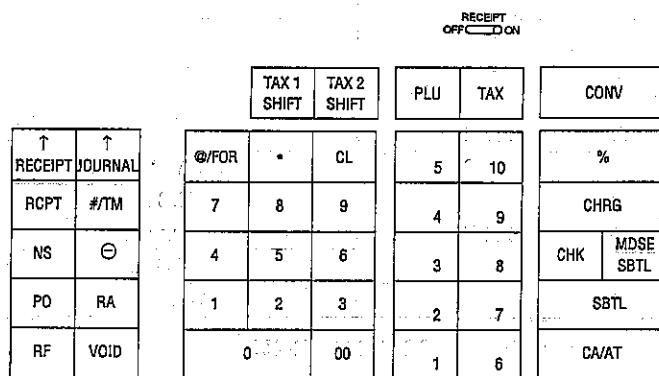


Fig. 5-3

Standard keyboard layout of the ER-2395S

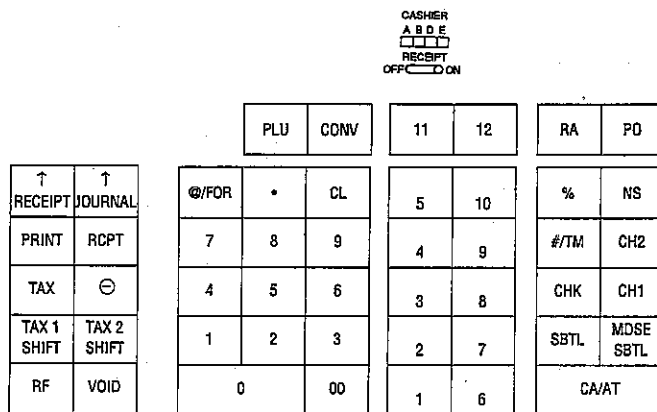


Fig. 5-4 (a)

(15 DEPTS.) Keyboard layout of the ER-2395S

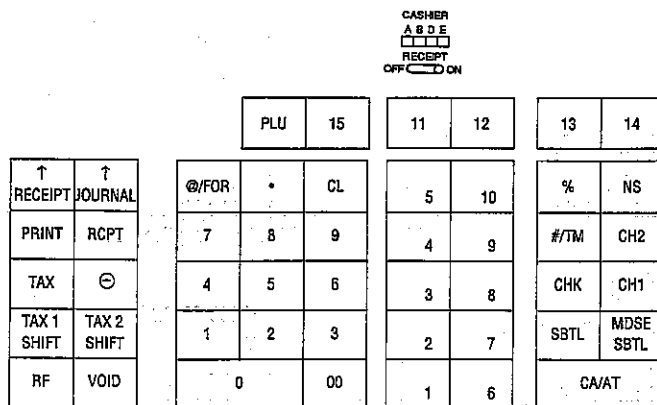


Fig. 5-4 (b)

(2) Key function name

- ↑ : Receipt/Journal paper key
- RCPT : Receipt key
- #/TM : Non-add/Time display key
- PRINT : Validation printing key (ER-2395S)
- NS : No-sale key
- ⊖ : Minus key
- PO : Paid-out key
- RA : Received-on account key
- RF : Refund key
- VOID : Void key
- 0 ~ 9 : Numeric keys
- 00 : Clear key
- CL : Clear key
- .
- @/FOR : Multiplication key
- 1 ~ 10 : Department keys (ER-2385S)
- 1 ~ 12 : Department keys (ER-2395S)
- % : Percent key (ER-2385S)
- % : Percent key (ER-2395S)
- CHRG : Charge key (ER-2385S)
- CH1 CH2 : Charge keys (ER-2395S)
- CHK : Check key
- MDSE SBTB : Merchandise Subtotal key
- SBTL : Subtotal key
- CA/AT : Cash Amount-tendered key
- CONV : Currency conversion key
- TAX : tax key
- TAX1 TAX2 : Taxable and 2 shift keys
- SHIFT SHIFT
- PLU : Price look-up key
- A ~ E : Cashier push-button keys (ER-2395S)
(Stay down cashier key type)

(3) Mode switch

ER-2385S key operative range

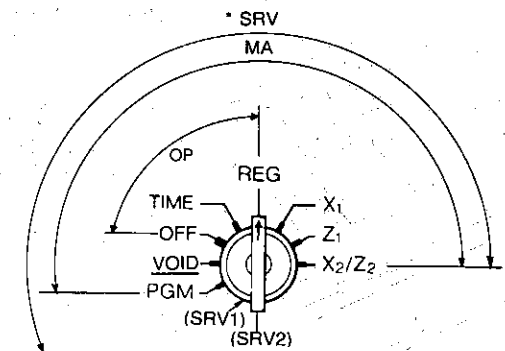


Fig. 5-5

ER-2395S key operative range

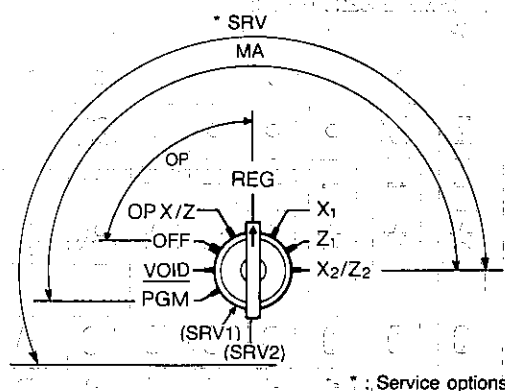


Fig. 5-6

- OFF** : Turns off the power. The memory contents of the machine are retained.
- OP X/Z** : Allows individual cashiers to print their own X/Z sales report on daily totals. (only ER-2395S)
- TIME** : Allows time display. (only ER-2385S)
- REG** : Allows registrations.
- X1** : Allows reading (X report) of daily sales totals.
- Z1** : Allows resetting (Z report) of daily sales totals.
- X2/Z2** : Allows reading and resetting of weekly or monthly sales total.
- VOID** : Allows cancellation after the finish of a transaction.
- PGM** : Allows programming essential to registrations.

(4) Mode key

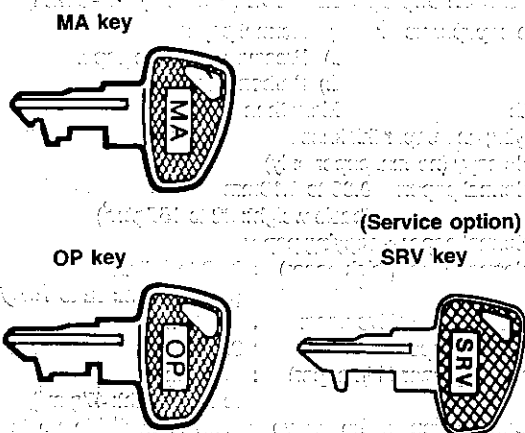


Fig. 5-7

Service key SRV : LKGIM7113RCZZ (Option) ✓

Master key MA : 0DUMAKEY00001

Operator key OP : 0DUOPKEY00001

5-4. Display

(1) Layout

- ER-2385S/2395S operator display

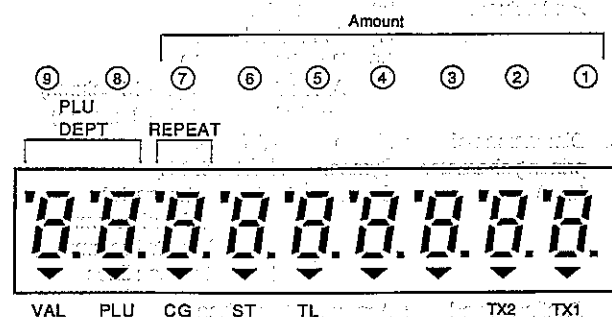


Fig. 5-8 (a)

- ER-2385S/2395S customer display

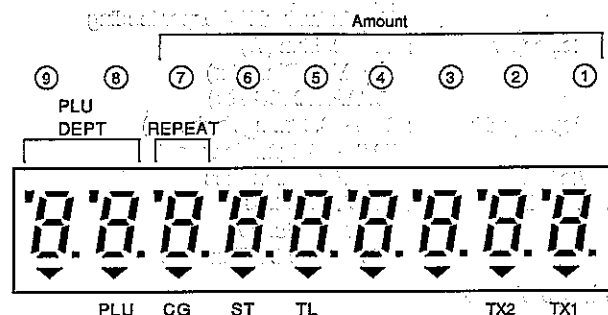


Fig. 5-8 (b)

(2) Usage of the digits

Display	No. of Digits	Used Digits	Pattern
Numeric number	Max. 7	1 ~ 7	"0 123456 789"
Symbol		4 ~ 8	"-" Minus sale registrations
		9	"E" error
		9	"P" program mode
		9	"s" Sub-total or short tender
Decimal point		9	"z" Sub-total in conversion
		3	TAB
Dept. No.		8 ~ 9	Zero-suppressed
PLU. No.		8 ~ 9	Zero-suppressed
Repeat		7	Endless count, starting from 2
Time		3 ~ 9	"A 10-25"

(3) Indicator lamps

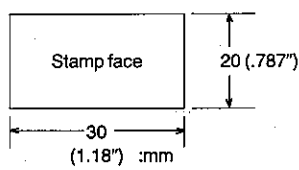
Lamp	Meaning
VAL	Lights up when the machine is programmed for validation print "Compulsory" (For ER-2395S)
PLU	Lights up when a PLU entry is made.
CG	Lights up when the change due amount is displayed.
ST	Lights up when the subtotal is displayed.
TL	Lights up when direct finalization is made.
TX1	Lights up when a registration using taxable 1 is made.
TX2	Lights up when a registration using taxable 2 is made.

5-5. Printer CR-802A (ER-2385S) CR-812A (ER-2395S)

(1) Printer

1. Printing system : Print wheel selective type 2 sheets
2. Print column : 20 char. in total
 - (1) Journal side : 10
 - (2) Receipt side : 10
 - Amount : 8 (3 ~ 10 column)
 - Symbol : 2 (1 ~ 2 column)
3. Dimensions of printing character (mm) : Figure 1.7(W) × 3.2(H)
Symbol 2.4(W) × 3.2(H)
Spacing 3.35 Between 1st and 2nd column
3 After 3rd column
5.1 Between lines
4. Printing speed : Approx. 2.6 lines/sec.
5. Paper feed : Approx. 17 lines/sec.
(Receipt issue quick feed)
6. Functions : (1) Stamping
(2) Validation printing only CR-812A 20 column/1 line
(3) Receipt ON-OFF and Journal select
(4) Individual R/J paper feeding
7. Roll paper : 44.5±0.5mm (W)
83φ (Max. Diameter)
(DPAPR1006CSZZ)
8. Paper quality : 0.06 ~ 0.09mm (Thickness)
52.3 ~ 64.0g/m² in weight
9. Reliability : MCBF 2 million lines
10. Ink roller : NROLR6638RCZZ
Color Purple
Life 0.6 million lines

(2) Logo stamp

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

(3) Print wheel layout (CR-802A) CR-812A

Part code : 00BM712002200 (2-20)

Price rank : BK

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

Fig. 5-9

(4) Validation slip specification (For only CR-812A)

- 1) Type of paper used: i) Normal paper
ii) Pressure sensitive paper
iii) Carbon paper
 - 2) Width : More than 115mm
 - 3) Copying and paper thickness
 - ① No copy (normal paper only)
Normal paper: 0.09 to 0.19mm
(basis weight: 82 to 157g/m²)
 - ② Normal paper + copying paper
Normal paper (thick paper) : 0.09 to 0.19mm
(basis weight: 82 to 157g/m²)
Pressure sensitive paper : 0.08mm
Carbon paper : 0.03mm
Normal paper (thin paper) : 0.06mm
(basis weight: 47g/m²)
- Combination of the above papers is available up to a total thickness of 0.25mm. However, for normal paper (thick paper), be sure to use only one sheet.

4) Printing position

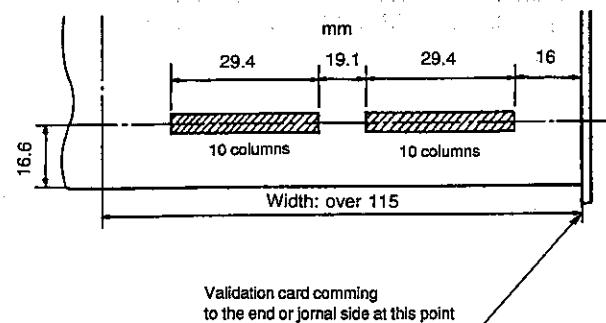


Fig. 5-10

5-6. Drawer/Lock

(1) Drawer

- Metallic drawer
- The micro switch can be installed as a service option.
- DRAWER LOCK KEY
(0AGLKMDC60A01)

LOCK: 180° counterclockwise

UNLOCK: 180° clockwise

■ Drawer lock key



Fig. 5-11

(2) Basic specification for drawers

Specs.	*Country		Canada	
	Standard	Remote	Standard	Remote
Compartment	5B/5C	5B/5C	4B/5C	4B/5C
Bill separator	x	x	x	x
Coin sub case	x	x	x	x
Micro switch	△	○	△	○
Drawer bell	△	○	△	○

* See destination code table for country name.

○ : Standard feature

△ : Optionally available

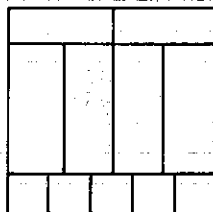
x : Not available

(COMPARTMENT LAYOUTS)

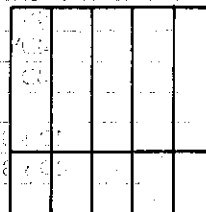
1-1) 4B/5C



1-2) 6B/5C



1-3) 5B/5C



1-4) 4B/8C

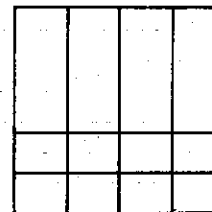


Fig. 5-12

5-7. Functional Differences Between ER-2385S and ER-2395S

Function	ER-2385S	ER-2395S
No. of departments	10	12
Cashier keys	NO	4 cashier keys
No. of charge keys	1	2
No. of percent keys	1	1
Validation printing function	NO	YES
Additional drawers (option)	NO	YES
Reporting function:		
Individual cashier records	NO	YES
All cashier records	NO	YES
Hourly sales records	YES	YES
ALL PLU-basis sales records	YES	YES
Partial PLU-basis sales records	YES	YES
Sales records on all items	YES	YES
Periodic consolidated records of daily net sales	YES	YES
Periodic consolidated records on all items	YES	YES
Department share printing	YES	YES

5-8. Memory Structure

ITEM	TOTALIZER	COUNTER	PRESET	NOTE
GT	$13D + S \times 3$			
Department	$8D + S \times 10(12)$ (MAX. 15)	$4D + 2I + S \times 10(12)$ (MAX. 15)	$6D \times 10(12)$ (MAX. 15) $2D \times 10(12)$ (MAX. 15) $2B \times 10(12)$ (MAX. 15) $1B \times 10(12)$ (MAX. 15) $1B \times 10(12)$ (MAX. 15) $2B \times 10(12)$ (MAX. 15)	Unit price HALO digit TAX Status +/- SICS/Ordinary Open/Preset price
Dept. TTL	$8D + \times 2$			Calculated
(PLU)	$8D + S \times 99$	$4D + 2I + S \times 99$	$6D \times 99$ $2D \times 99$ $1B \times 99$ ($1B \times 1$)	Unit price Dept. number PLU Enable/Disable PLU OPEN/PRESET
⊖	$8D + S \times 2$	$4D + S \times 2$	$2D$ $2B \times 2$	HALO digit TAXS Status
%	$8D + S \times 2$ MAX. 4 (4)	$4D + S \times 2$ MAX. 4 (4)	$4D \times 1$ MAX. 2 $2B \times 1$ MAX. 2 $1D \times 1$ MAX. 2	% rate TAX Status +/-
Net sales total	$8D + S$			Calculated
TAX	$8D + S \times 2$ $8D + S \times 2$ $8D + S \times 2$ $8D + S \times 2$		$72 \text{ Break Point} \times 2$ or $6D \times 2$	Taxable total Real Tax total Refund Tax total Net Tax total Tax table % Tax
Manual TAX	$8D + S$ $8D + S$ $8D + S$		$2D$	Real manual tax total Refund manual tax total Net manual tax total HALO Digit
Net with TAX	$8D + S$			Calculated
Direct	$8D$	$4D$		
Indirect void	$8D$	$4D$		
Sub-total void	$8D$	$4D$		
Void after CA/AT key	$8D$	$4D$		
(VAL)		($4D$)		Validation lines
Till timer		$4D$	$3D$	Drawer open time
CONV	$8D + S \times 2$		$7D$	Currency exchange rate
Refund	$8D + S$	$4D + S$		
No sale		$4D + S$		
Gross sales total	$8D + S$			
Cash sales total	$8D + S$	$4D + S$		
Check sales	$8D + S$	$4D + S$	$2D$	HALO digit
Charge sales	$8D + S \times 1(2)$	$4D + S \times 1(2)$	$2D \times 1(2)$	HALO digit
Charge refund	$8D + S \times 1(2)$	$4D + S \times 1(2)$		
(Check cashing)	($8D + S$)			HALO digit
RA	$8D + S$	$4D + S$	$2D$	HALO digit
PO	$8D + S$	$4D + S$	$2D$	HALO digit
Check change	$8D + S$			
Cash in drawer	$8D + S$			
Transaction count		$4D + S$		
Consecutive No.		$4D$		
Machine No.			$3D$	
Z1, Z2 counter		$4D + 2$		
Date			$6D$	
Time			$4D$	
Hourly sales total	$8D + S \times 24$	$4D + S \times 24$		
Daily NET total	$8D + S \times 31$	$4D + S \times 31$		
Term total	$8D \times 40(42)$	$4D \times 25(31)$		
Transaction count		$4D + S \times (5)$		
Sales total	$8D + S \times (5)$			
Cash in drawer	$8D + S \times (5)$			

S: With sign D: Digit Z1, Z2: Counter
B: Bit (): For ER-2395S

6. Service Mode (SRV) Operation

To go into SRV mode, the service key (LKIM7113RCZZ) is required for service mode operation.

6-1. Reset Operation

At SRV mode (SRV1), the following 2 types of reset operations are provided.

(1) Master Reset

When the Master Reset is executed, the data stored in all the memories will be initialized such as preset memories. And all the totalizers/counters/date and time are cleared to zeroes.

[Key Operation]

- ① Turn the mode switch to SRV2 mode.
- ② Holding down the numeric 9 key, then turn the mode switch to SRV1.
- ③ (For ER2385S) (For ER2395S)
Enter 90 and press **CA/AT** key. Enter 91 and press **CA/AT** key.
9 0 → **CA/AT** **9 1** → **CA/AT**
- ④ Upon pressing **CA/AT** key, the master Reset is finalized.

Note: To verify the contents of the memories after Master Reset or Service Preset programming. A print message shown in Fig. 6-1 is given by doing following key operation.

9 0 0 → **@/FOR** → **CA/AT**

(2) Program Reset

By turning the mode switch from SRV2 to SRV1 mode, the register returns to initial status even while in a locked status or any registrations.

However, all the data before the reset are kept maintained except for resetting date and time memories.

When the Program Reset is executed, date and time are cleared to zeroes.

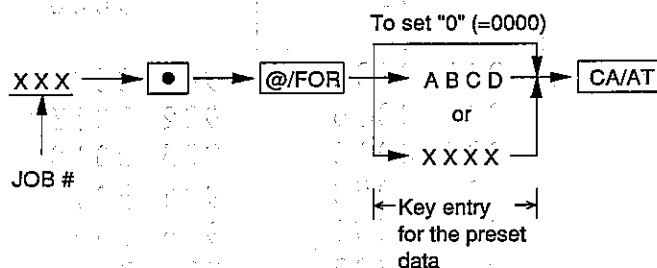
Note: Job #901-D (Tabulation preset) varies by each country though, after Master Reset it will always be set at 2 (0.00). Therefore, you may be required to re-program the tabulation suitable for your country.

Fig. 6-1
Initial Preset After Master Reset
(ER2385S) (ER2395S)

	00-00-00	00-00-00
	900#	900#
Service preset	901 0002 902 0015 903 0010 904 1070 905 1331 906 3505 907 3577 908 1037 909 7777 910 3173 911 7733 912 1000 913 0000 914 0000	901 0002 902 0015 903 0010 904 3070 905 1331 906 3555 907 3577 908 5107 909 7777 910 7173 911 7733 912 1211 913 0031 914 0000
Z1, Z2 counters	Z1 0000 Z2 0000	Z1 0000 Z2 0000
GT1 totalizer	1 GT 000000 0000.00	1 GT 000000 0000.00
GT2 totalizer	2 GT 000000 0000.00	2 GT 000000 0000.00
GT3 totalizer	3 GT -000000 0000.00	3 GT -000000 0000.00
Time	12-00 000-0001	12-00 000-0001A
	Register No.	Consecutive Number
		Cashier code

6-2. SRV (service) mode programming**(1) Common programming procedure****[Key operation]**

The common procedure for SRV mode programming is shown above. Therefore, perform the following SRV programmings according to the procedure.



Note: All the initial preset values (same as the values after Master Reset) are indicated as MRS = XXXX.

**(2) Job # Table**

JOB#	FUNCTION
900	SRV mode reading
901	Tabulation
902	Number of drawers/Fractional treatment
903	Receipt ON/OFF switch/MDSE SBTL key print
904	Cashier/Drawer/Error/Key
905	NS/Split price/Time/Date/@FOR
906	Conversion/Multiplication/Validation etc.
907	X/Z reports
908	GT1 reset/Validation/Key etc.
909	Function programming
910	Function programming
911	Programming for print skip
912	Number of dept./conversion of [PO] key./conversion of [PA] key.
913	Open PLU's function and check cashing function./conversion for [CONV] key.
914	Not used
940	Upper 6 digits of GT2
941	Lower 6 digits of GT2
942	Upper 6 digits of GT3
943	Lower 6 digits of GT3
930	Preset of Z1 counter
931	Preset of Z2 counter

(3) Programming procedure

[JOB #901] MRS = 0002

901-A Not used (Fixed to "0")

901-B Not used (Fixed to "0")

901-C Not used (Fixed to "0")

901-D Tabulation (The initial preset value as the factory preset may varies by each country.)

Tabulation	Key entry
TAB = 0 (0)	0
TAB = 1 (0.0)	1
TAB = 2 (0.00)	2
TAB = 3 (0.000)	3

[JOB #902] MRS = 0015

902-A Not used (Fixed to "0")

902-B Not used (Fixed to "0")

902-C Number of drawers and cashier assignment. (Only ER-2395 for cashier assignment)

The cashier A, B, D and E are assigned to a drawer by a fixed relation which is decided automatically by the number of drawers used for an ECR.

Number of drawer	(Cashier) drawer #	KEY ENTRY
0	No drawer	0
1	(A, B, D, E)1	1
2	(A, B)1, (D, E)2	2
2	(A)1, (B, D, E)2	3
3	(A)1, (B)2, (D, E)3	4
4	(A)1, (B)2, (D)3, (E)4	5

Drawer #1 = Standard fixed drawer

Drawer #2-4 = Optional remote drawers
(Only for ER-2395S)

902-D Fractional treatment

Function	Key entry
Round down	0
Round off	5
Round up	9

[JOB #903] MRS = 0010

903-A Not used (Fixed to "0")

903-B Not used (Fixed to "0")

903-C No receipting in any mode with the receipt ON/OFF switch in OFF position.

Receipt in OFF position	Key entry
No receipt in any mode	0
No receipt in REG mode only	1

903-D Printing when the MDSE SBTL key is pressed.

Function	Key entry
No print	0
Print	1

[JOB #904] MRS = 1070 (ER-2385S)
3070 (ER-2395S)

904-A 1. Cashier function
2. Void mode function

1. Cashier function	2. Void mode	Key entry
Disable	Disable	0
	Enable	1
Enable	Disable	2
	Enable	3

*: The cashier function is only available for ER-2395S.

904-B 1. Drawer (Till) open count function
2. Drawer closing at the operation

1. Drawer open count	2. Drawer closing	Key entry
Disable	Non-compulsory	0
	Compulsory	1
Enable	Non-compulsory	2
	Compulsory	3

Note: To enable the drawer open count and drawer closing compulsory functions, the drawer open sensor (service route option) must have been installed and the preset of drawer closing must be set to "compulsory".

Only ER-
power by a
e number

- 904-C** 1. Lock error beep
2. Error beep for incorrect operation (see note)
3. Key catch sound

1. Lock error	2. Error	3. Key catch sound	Key entry
Continuous	Lock & one shot	No	0
		Yes	1
	All lock error	No	2
		Yes	3
Stop after 2 sec. beep	Lock & one shot	No	4
		Yes	5
	All lock error	No	6
		Yes	7

Note: All Lock error: Long error released by **[CL]** key (2 seconds)

Lock & one shot: Short error (**[CL]** key clear is not required.)

- 904-D** 1. Key buffer clearing at the end of a transaction
2. **[00]** key or **[000]** key selection at **[00]** key position

1. Key buffer	2. [00] key [000]	Key entry
Clear	[00] key	0
	[000] key	1
Not cleared	[00] key	2
	[000] key	3

[JOB #905] MRS = 1331

- 905-A** No sale after the entry of non-add code number

No sale	Key entry
Disable	0
Enable	1

- 905-B** 1. No sale in VOID mode
2. No sale function key
3. Receipt issue at No sale entry

1. No sale in VOID mode	2. No sale key	3. Receipt for no sale	Key entry
Disable	[CA/AT]	No	0
		Yes	1
	[NS]	No	2
		Yes	3
Enable	[CA/AT]	No	4
		Yes	5
	[NS]	No	6
		Yes	7

- 905-C** 1. Split pricing counter
2. Multiplication sequence

1. Split pricing q'ty	2. Multiplication sequence	Key entry
Package	Unit price × Q'ty	0
	Q'ty × Unit price	1
Quantity	Unit price × Q'ty	2
	Q'ty × unit price	3

- 905-D** 1. Time print/display format
2. Date print format

1. Time format	2. Date format	Key entry
12 hours system	Year/Month/Day	0
	Month/Day/Year	1
	Day/Month/Year	2
24 hours system	Year/Month/Day	4
	Month/Day/Year	5
	Day/Month/Year	6

[JOB #906] MRS = 3505 (ER-2385S)
3555 (ER-2395S)

- 906-A** 1. "z" symbol in the ninth digit during currency conversion.
2. "a" symbol in the ninth digit in full subtotalling.

1. "z" symbol for conversion	2. "a" symbol for sub-total	Key entry
Off	Off	0
	On	1
On	Off	2
	On	3

- 906-B** 1. Entry of numerical values including a decimal point in a multiplication entry for Depts. & PLUs.
2. Number of digits of percentage,
3. Printing of the number of purchased item.

1. Decimal in multiplication	2. Integers & decimals in percentage	3. Prints item number	Key entry
Disable	2-digit integer + 2-digit decimal	No Print	0
		Print	1
	2-digit integer	No Print	2
		Print	3
Enable	2-digit integer + 2-digit decimal	No print	4
		Print	5
	2-digit integer	No print	6
		Print	7

- 906-C** 1. Limits the number of times of validation printing.
2. Selects the contents of the amount in the validation prints.
3. Selects Validation print format [Machine#/Consecutive#/Cashier code/Amount] or [Date/Amount].

1. Number of validation	2. Contents of the amount	3. Validation print format	Key entry
No limit	Tendering	Date/Amount	0
		M. #/Con. #/Ca. code/Amount	1
	Total	Data/Amount	2
		M. #/Con. #/Ca. code/Amount	3
Limited (1 ~ 9, See PGM Job#255)	Tendering	Data/Amount	4
		M. #/Con. #/Ca. code/Amount	5
	Total	Data/Amount	6
		M. #/Con. #/Ca. code/Amount	7

Note: Validation function is only provided for ER-2395S. For ER-2385S, set this to "0".

- 906-D**
1. Direct finalization after under tendered entry
 2. Subtotaling before tendering
 3. Entry which causes the sub-total to be smaller than "0".

1. Direct finalization	2. Subtotal before tender	3. Subtotal < 0	Key entry
Disable	Non-compulsory	Disable	0
		Enable	1
	Compulsory	Disable	2
		Enable	3
Enable	Non-compulsory	Disable	4
		Enable	5
	Compulsory	Disable	6
		Enable	7

[JOB #907] MRS = 3577

- 907-A**
1. Zero skipping in Dept. report.
 2. Zero skipping in PLU report.
 3. Zero skipping in Hourly report.

1. Zero skip Dept. report	2. Zero skip PLU report	3. Zero skip Hourly report	Key entry
Print	Print	Print	0
		Zero skipping	1
	Zero skipping	Print	2
		Zero skipping	3
Zero skipping	Print	Print	4
		Zero skipping	5
	Zero skipping	Print	6
		Zero skipping	7

- 907-B**
1. Daily net total report print. (Max. 31 days)
 2. GT1 print on X1 report.
 3. Hourly report and cashier report in X1 report printing. (Cashier report is only for ER-2395S)

1. Daily report print	2. GT1 print on X1	3. Hourly & cashier report	Key entry
Disable	No Print	No Print	0
		Print	1
	Print	No Print	2
		Print	3
Enable	No Print	No Print	4
		Print	5
	Print	No Print	6
		Print	7

- 907-C**
1. X2/Z2 mode function
 2. Prints components ratio of a dept. against all depts. in X2/Z2 mode

1. X2/Z2 mode function	2. Components ratio printing	Key entry
Disable	No print	2
	Print	3
Enable	No print	6
	Print	7

- 907-D**
1. GT3 print in Z mode
 2. GT2 print in Z mode
 3. GT1 print in Z mode

1. GT3 print	2. GT2 print	3. GT1 print	Key entry
No print	No print	No print	0
		Print	1
	Print	No print	2
		Print	3
Print	No print	No print	4
		Print	5
	Print	No print	6
		Print	7

[JOB #908] MRS = 1037 (ER-2385S)
5107 (ER-2395S)

- 908-A**
1. OP X/Z mode function (Only for ER-2395S)
 2. Resets GT1 after Z1 report is printed

1. OP X/Z mode function	2. GT1 reset after Z1 report	
Disable	Disable	0
	Enable	1
Enable	Disable	4
	Enable	5

908-B Validation print function.

Validation print function	Key entry
No	0
Yes	1

- 908-C**
1. Conversion of key position for $\ominus 1$ & $\%2$, $\ominus 2$ & $\%1$ NS keys. (see Fig. 6-2)
 2. $\ominus 1$ KEY SELECTION
 3. $\%$ KEY SELECTION

1. Key position	2. $\ominus$ key selection	3. $\%$ key selection	Key entry
$\ominus$ $\%$ NS	$\ominus$	$\%$	0
$\ominus 1$ $\%$ $\ominus 2$	$\ominus 1$ $\ominus 2$	$\%$	1
$\ominus$ $\%1$ $\%2$	$\ominus$	$\%1$ $\%2$	2
$\ominus$ $\%$	$\ominus$	$\%$	3
$\%$ $\ominus 1$ $\ominus 2$	$\ominus 1$ $\ominus 2$	$\%$	5
$\%1$ $\ominus$ $\%2$	$\ominus$	$\%1$ $\%2$	6
$\%$ $\ominus$	$\ominus$	$\%$	7

Note: The key position on the keyboard for $\ominus$ and $\%$ keys for each key entry will be seen as follows.

Key entry	0	1	2	3	4	5	6	7
	"0" (ER-2395S default)	"1"	"2"	"3" (ER-2385S default)	"4"	"5"	"6"	"7"

Fig. 6-2

- 908-D**
1. (Currency exchange) key function
 2. (non-add code number) key function
 3. (Decimal point) key function

1. Currency exchange	2. Non-add number	3. Decimal point	Key entry
Disable	Disable	Disable	0
		Enable	1
	Enable	Disable	2
		Enable	3
Enable	Disable	Disable	4
		Enable	5
	Enable	Disable	6
		Enable	7

[JOB #909] MRS = 7777

- 909-A**
1. Specifies reporting range in PLU report print.
 2. PLU function.
 3. Split pricing function.

1. PLU report range	2. PLU	3. Split pricing	Key entry
Disable	Disable	Disable	0
		Enable	1
	Enable	Disable	2
		Enable	3
Enable	Disable	Disable	4
		Enable	5
	Enable	Disable	6
		Enable	7

- 909-B**
1. Sub-total void function
 2. Indirect void function (correction of an earlier registration)
 3. Direct void function (correction just after registration)

1. Sub-total void	2. Indirect void	3. Direct void	Key entry
Disable	Disable	Disable	0
		Enable	1
	Enable	Disable	2
		Enable	3
Enable	Disable	Disable	4
		Enable	5
	Enable	Disable	6
		Enable	7

- 909-C**
1. Refund registration function
 2. Percent calculation for sub-totals (SBTL %)
 3. Percent calculation for item registrations (Item %)

1. Refund	2. SBTL %	3. Item %	Key entry
Disable	Disable	Disable	0
		Enable	1
	Enable	Disable	2
		Enable	3
Enable	Disable	Disable	4
		Enable	5
	Enable	Disable	6
		Enable	7

- 909-D**
1. No sale function.
 2. Discount (price reduction) calculation for sub-totals. (SBTL $\ominus$)
 3. Discount (price reduction) calculation for item registration. (Item $\ominus$)

1. NO sale	2. SBTL $\ominus$	3. Item $\ominus$	Key entry
Disable	No	No	0
		Yes	1
	Yes	No	2
		Yes	3
Enable	No	No	4
		Yes	5
	Yes	No	6
		Yes	7

Key entry
0
1
2
3
5
6
7

6 keys by

[JOB #910] MRS = 3173 (ER-2395S)
7173 (ER-2395S)

- 910-A 1. **CHRG** key selection (**CHRG** or **CH1**, **CH2** keys.)
2. "Sale on credit (charge to the customer's account)" function.
3. "Sale on check" function.

1. CHRG key selection	2. Credit function	3. Check function	Key entry
CHRG	Disable	Disable	0
		Enable	1
	Enable	Disable	2
		Enable	3
CH1 CH2	Disable	Disable	4
		Enable	5
	Enable	Disable	6
		Enable	7

- 910-B 1. Enables or disables **RCPT** key function. (Issuance of a receipt after finalization.)

RCPT key function	Key entry
Disable	0
Enable	1

- 910-C 1. TAX delete function in the automatic taxation on the taxable item(s).
2. Enables or Disables the manual tax entry of the tax amount.
3. Automatic tax calculation function using tax tables or rates and tax status.

1. TAX delete	2. Manual tax entry	3. Tax calculation	Key entry
Disable	Disable	Disable	0
		Enable	1
	Enable	Disable	2
		Enable	3
Enable	Disable	Disable	4
		Enable	5
	Enable	Disable	6
		Enable	7

- 910-D 1. Enables or disables Paid-out (PO) registrations.
2. Enables or disables Received-on-Account (RA) registrations.

1. PO	2. RA	Key entry
Disable	Disable	0
	Enable	1
Enable	Disable	2
	Enable	3

[JOB #911] MRS = 7733

- 911-A 1. Taxable 2 subtotal is printed on X/Z reports or skipped.
2. Gross Tax 2 and refund Tax 2 total are printed on X/Z reports or skipped.
3. Net Tax 2 total is printed on X/Z reports or skipped.

1. Taxable 2 subtotal	2. Gross Tax 2 and Refund Tax 2 total	3. Net Tax 2 total	Key entry
Skip	Skip	Skip	0
		Print	1
	Print	Skip	2
		Print	3
Print	Skip	Skip	4
		Print	5
	Print	Skip	6
		Print	7

- 911-B 1. Taxable 1 subtotal is printed on X/Z reports or skipped.
2. Gross Tax 1 and refund Tax 1 total are printed on X/Z reports or skipped.
3. Net Tax 1 total is printed on X/Z reports or skipped.

1. Taxable 1 subtotal	2. Gross Tax 1 and Refund Tax 1 total	3. Net Tax 1 total	Key entry
Skip	Skip	Skip	0
		Print	1
	Print	Skip	2
		Print	3
Print	Skip	Skip	4
		Print	5
	Print	Skip	6
		Print	7

- 911-C 1. Gross manual tax and refund manual tax total are printed on X/Z reports or skipped.
2. Net manual tax total is printed on X/Z reports or skipped.

1. Gross manual tax and refund manual tax total	2. Net manual tax total	Key entry
Skip	Skip	0
	Print	1
Print	Skip	2
	Print	3

- 911-D 1. Prints "Net sales total" or skipped on X/Z reports.
2. Prints "Check change total" or skipped on X/Z reports.

1. Net sales total	2. Check change total	Key entry
Skip	Skip	0
	Print	1
Print	Skip	2
	Print	3

[JOB #912] MRS = 1000 (ER-2385S)
1211 (ER-2395S)

912-A, B 1. Number of department.

Function	Key entry
Department function inhibited	0
1 depts	1
2 depts	2
3 depts	3
4 depts	4
5 depts	5
6 depts	6
7 depts	7
8 depts	8
9 depts	9
10 depts	10
*11 depts	11
*12 depts	12

* Function = 11 dept/12 dept is only for ER-2395S.

Note: To expand the number of department, department expansion kit is required. (ER-11KT2).

912-C 1. Selection of **PO** key or DEPT. 14 key.

Conversion of PO key	Key entry
Undefined (2385S)	0
PO key (2395S)	1
* Dept. 14 key (2395S)	2

* Only for ER-2395S

912-D 1. Selection of **CONV**, **RA**, and Dept. 13 key.

Selection of CONV , RA , and DEPT. 13 key.	Key entry
CONV key (2385S)	0
RA key (2395S)	1
* Dept. 13 key (2395S)	2

* Only for ER-2395S.

[JOB #913] MRS = 0000 (ER-2385S)
0031 (ER-2395S)

913-A Not used (Fixed to "0")

913-B Not used (Fixed to "0")

913-C 1. Open PLU's function.
2. Check cashing function.

1. Open PLU's function	2. Check cashing function	Key entry
Disable	Disable	0
	Enable	1
Enable	Disable	2
	Enable	3

913-D Selection of **TAX2**, **CONV**, DEPT. 15, and **%2** key.

Selection of TAX2 , CONV , DEPT. 15, and %2 key.	Key entry
TAX2 key (2385S)	0
CONV key (2395S)	1
DEPT. 15 key (2395S)	2
%2 key (2395S)	3

[JOB #914] MRS = 0000

914-A Not used (Fixed to "0")

914-B Not used (Fixed to "0")

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

914-D Not used (Fixed to "0")

[JOB #940, 941, 942, 943]

Set-up a value to Grand Total 2 and 3.

GT2: +GT (Gross GT)

GT3: -GT (Refund GT)

Note: On the GT1, the value is determined by calculating the sum of GT2 and GT3, then automatically set into the GT1 memory.

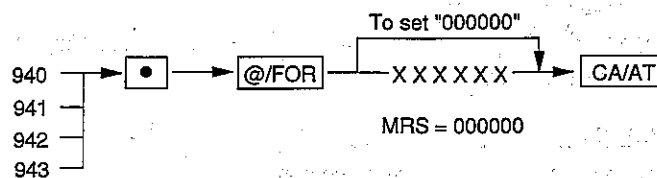
JOB #940: Upper 6 digits of GT2

JOB #941: Lower 6 digits of GT2

JOB #942: Upper 6 digits of GT3

JOB #943: Lower 6 digits of GT3

(Programming procedure)



X X X X X X : 0 ~ 999999 (Max. 6 digits)

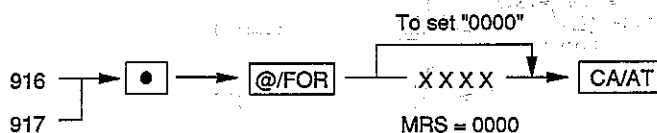
[JOB #930, 931]

Set-up a value to the resetting counter Z1, Z2.

JOB #930: Resetting counter (Z1)

JOB #931: Resetting counter (Z2)

(Programming procedure)



X X X X : 0 ~ 9999 (Max. 4 digits)

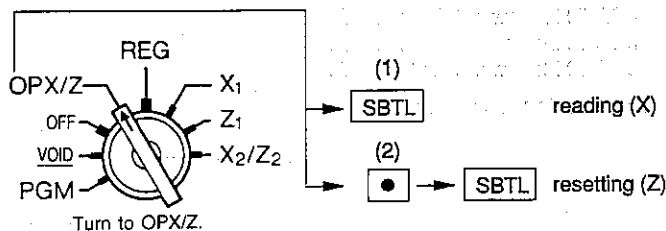
7. Functional outline of OPX/Z, X1, Z1, X2/Z2, PGM modes

Only an outline of PGM, OPX/Z, X1, Z1 and X1/Z2 modes are described in this service manual. Please refer to the instruction (Operation) Manual for the detail.

7-1. OPX/Z mode (Only for ER-2395S)

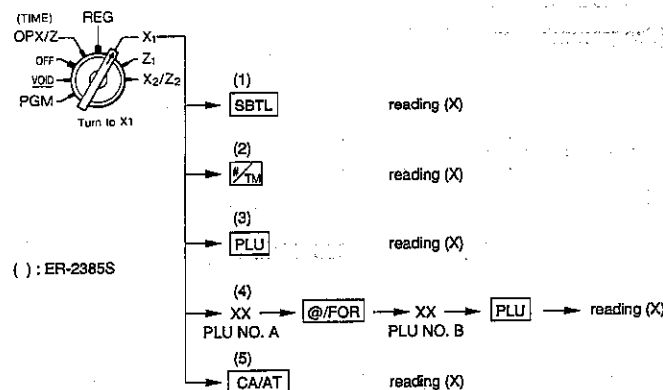
Note: Depress the corresponding cashier key beforehand.

- (1) Individual Cashier record reading (X report)
- (2) Individual Cashier record resetting (Z report)



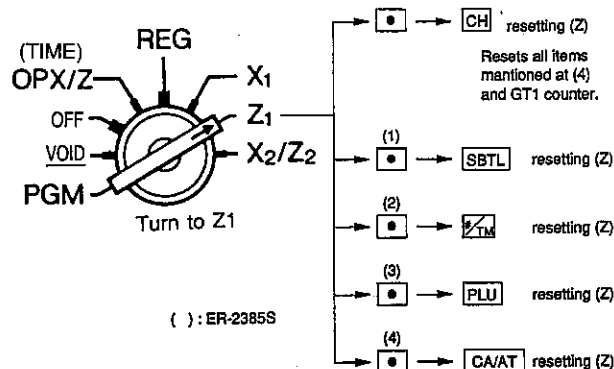
7-2. X1 mode (Reading): X1 Reports

- (1) All cashier records (Only ER-2395S)
- (2) Hourly sales record
- (3) PLU-basis sales record
- (4) PLU-basis sales record for a specified range (A ~ B) of consecutive PLU numbers.
- (5) Sales record on all items except for cashier, hourly and PLU sales records.



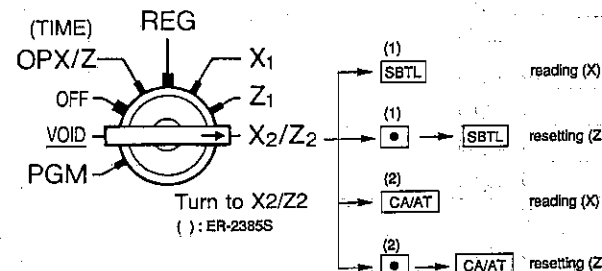
7-3. Z1 mode (Resetting): Z1 Reports

- (1) All cashier records. (Only ER-2395S)
- (2) Hourly sales record.
- (3) PLU-basis sales record.
- (4) Sales record on all items except for cashier, hourly and PLU sales records.



7-4. X1/Z2 mode (Reading/Resetting): X2 Reports/Z2 Reports

- (1) Reading and resetting the daily net sales record
- (2) Reading and resetting the periodic consolidated record on all items.

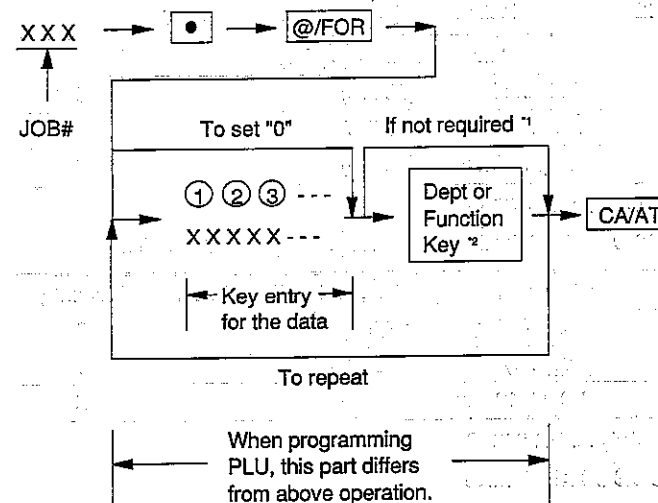


Note: When every sales transaction is made, the sales records will be added to the totalizers for the periodic consolidated record.

7-5. PGM mode (Programming)

1. Common programming procedure

[Basic key operation]



*1: Job#s 250, 251, 252, 253, 255, 257, 263 are not required.

*2: When keys, press one of those Dept 1, PO, PA, CHRG, CH1, CH2, CHK, @/FOR, %, CONV, ⊖, TAX keys.

2. Programming

JOB#	CONTENTS	
250	Setting the date (Day, Month, Year)	X X X X X
251	Setting the time (Hour, Minute)	X X X X
252	Machine number (max. 3 digits)	X X X
253	Consecutive number (max. 4 digits)	X X X X

Note: In Job#253, to start from "0001", press the CA/AT key without entering any number.

For DEPT. keys

210	Specifies functional selections for an individual department	
①	Single item cash sale	1
	Ordinary department	0
②	Unit Price Dept. prohibition	0
	Open entry	1
	Preset	2
	Preset & Open entry	3

110 Setting the unit price for the department.
X X X X X X (Max. 6 digits)
(If a unit price is set to the department, the registration using the preset price is enable regardless the contents of JOB# 210.)

211 Specifying the tax status and sign for department keys

① Tax 2	Non-taxable	0
	Taxable	1
② Tax 1	Non-taxable	0
	Taxable	1
③ Sign	Plus (+) department	0
	Minus (-) department	1

212 Setting the high amount limit on prices entered into each department.

① Setting the value of high-order	Entry prohibition	0
	Value of high-order digit	1 ~ 9
② Setting the digit limitation for department key	Entry prohibition	0
	Number of digits	1 ~ 7

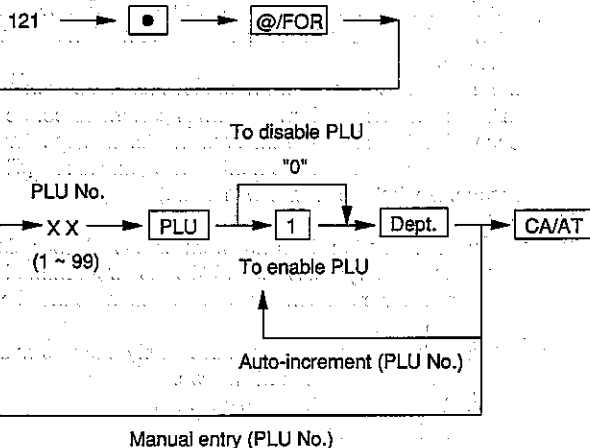
Note: When "00" (Zeroes) are set, keyed (open) unit price entry is prohibited.

For [PLU] function

121

- Assigning PLU numbers to departments.
- Enable or Disable PLU registration.

[Procedure]

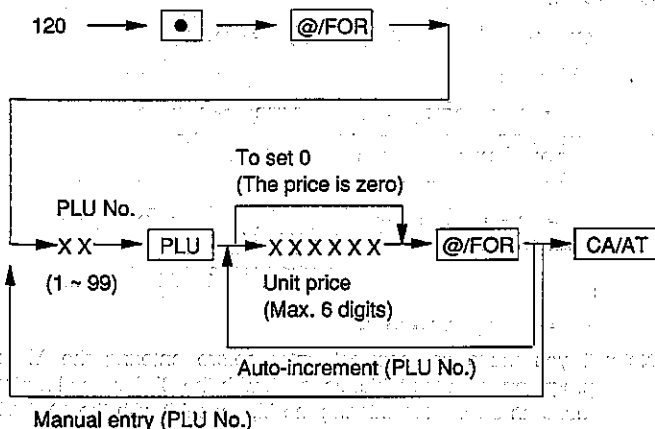


Manual entry (PLU No.)

Disable PLU registration	0
Enable PLU registration	1

120 Setting the unit price for each item to assigned PLU number(s).
The PLU number of the item should have been assigned to a department beforehand by JOB# 121.

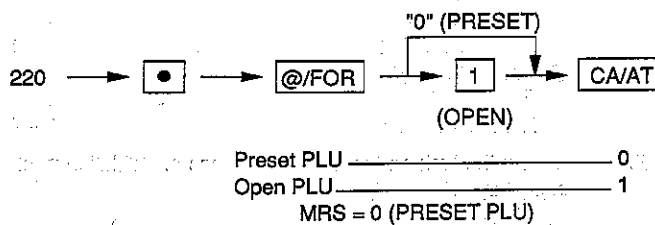
[Procedure]



Manual entry (PLU No.)

220 GLOBAL Setting the "open" or PRESET" for all PLU keys.

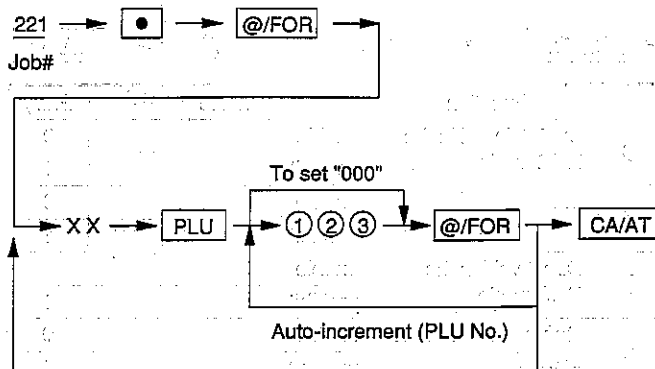
[Procedure]



JOB# CONTENTS

221 Specifying the tax and sign to an individual PLU number

[Procedure]

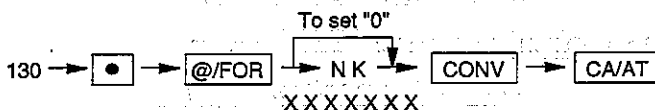


① Tax 2	Non-taxable	0
	Taxable	1
② Tax 1	Non-taxable	0
	Taxable	1
③ Sign	Plus (+)	0
	Minus (-)	1

For [FUNCTION] keys

130 Currency Conversion Rate

[Procedure]



NK: Currency Conversion Rate 7 digits. (1 ~ 9999999) up to 4 digits (for integer part) + 3 digits (for decimal part) (Enter date as an integer, eliminating a decimal point)

PRESET RATE: 0.01 ~ 9999.999

MRS = 0.000 (Foreign currency conversion by the setratio is prohibited when 0.000.)

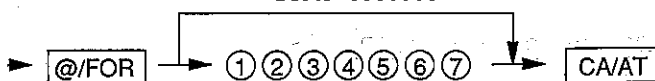
231 Assigning the tax status and plus or minus sign for the percent keys [%] or [%1], [%2], and ⊖ key.

① Tax 2	Non-taxable	0
	Taxable	1
② Tax 1	Non-taxable	0
	Taxable	1
③ Sign	Plus (+)	0
	Minus (-)	1

Note: In case of ⊖ key, only the minus (-) sign can be assigned. Even if you enter "0" (plus) in assigning the sign to the ⊖ key, "1" (minus) is set automatically.

- 232 Setting the high amount digit limitation for [TAX], [Θ], [PO] and [RA] keys.
- ① Setting the limit on the most significant digit.
Entry prohibition _____ 0
Value of the digit _____ 1 ~ 9
 - ② Setting the digit limitation
Entry prohibition _____ 0
Number of digits _____ 1 ~ 7
- 255 Setting the limit on the number of times of validation printing. (Only ER-2395S)
- ① Prohibition _____ 0
No. of times _____ 1 ~ 9 times
- 256 Enables or prohibits optional feature selection

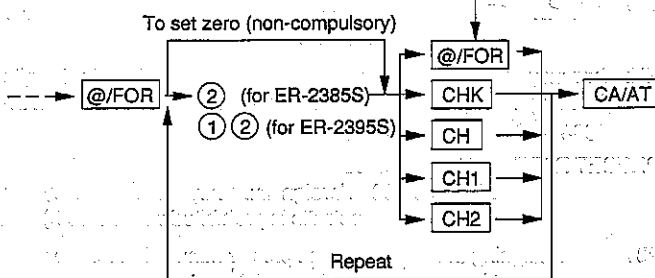
Set to "0000000"



	Function	Choice	Entry
①	Subtotal void in the REG mode	enable	0
		prohibit	1
②	Indirect void in the REG mode	enable	0
		prohibit	1
③	Direct void in the REG mode	enable	0
		prohibit	1
④	Refund registrations in the REG mode	enable	0
		prohibit	1
⑤	Receipt printing format	detailed	0
		summary	1
⑥	Journal printing format	detailed	0
		summary	1
⑦	Printing of transaction time	both receipt and journal	0
		journal only	1
		receipt only	2
		neither receipt nor journal	3

- 260 Setting the functions for the finalization keys ([CA/AT], [CHRG], [CH1], [CH2], [CHK])

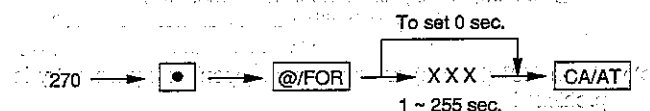
Press [@/FOR] key instead of [CA/AT] key.



	Function	Choice	Entry
①	Validation printing	Compulsory	1
		Non-compulsory	0
②	Amount-tendered entry	Compulsory	1
		Non-compulsory	0

Note: The preset of compulsory "Amount-tendered entry" for charge key(s) is not allowed.

- 261 Setting the limit on the amount of check change [CHK] key.
- ① Maximum of the most significant digit
Entry prohibition _____ 0
Value of digit _____ 1 ~ 9
 - ② Maximum number of entry digits
Entry prohibition _____ 0
Number of digits _____ 1 ~ 9
- 262 Setting the high amount limit for the [CHK] and [CHRG] or [CH1], [CH2] keys.
- ① Maximum of the most significant digit
Entry prohibition _____ 0
Value of digit _____ 1 ~ 9
 - ② Maximum number of entry digits
Entry prohibition _____ 0
Number of digits _____ 1 ~ 9
- 270 Setting the time limit for open drawer



OPEN DRAWER COUNT¹ (In REG or VOID modes)
If a drawer is opened by a normal operation² and is kept open more than the preset time interval³, a drawer open counter (corresponding to the cashier: ER-2395) is incremented by one.
For this purpose, the drawer open counter is provided for each cashier and a totalizer for the sum of the counter (ER-2395).
If the drawer is closed, or an effective key operation⁴ (permitted even with the drawer open) is performed before passage of the preset time interval, the timer stops and the counter does not increment. (The machine will not recognize that the drawer was open.)

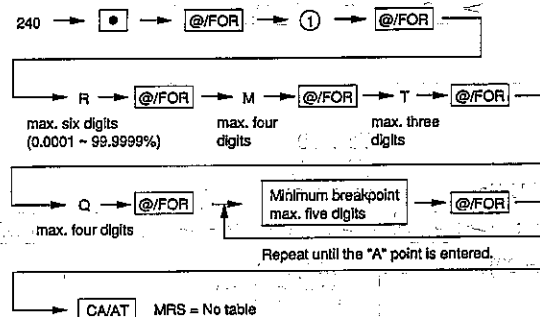
Note:

- ¹: This function does not work unless "drawer closing compulsory: SRV Job#904B" is programmed and "drawer open sensor: Service option" is installed for the machine.
- ²: If the drawer is opened irregularly such as manual open, this function will not work.
- ³: It ranges from 0 to 255 seconds.
- ⁴: Validation print, etc.

For TAX related function

- 240 Setting the tax table
144 breakpoints can be used for two tax tables. (Maximum 72 for each table.)
- ① Specifying the tax table kind
Tax table 1 _____ 1
Tax table 2 _____ 2

[Procedure]



Note: If you make an incorrect entry before entering the M programming a tax table, cancel it with the CL key; and if you make an error after entering the M, cancel it with the @/FOR key. Then program again from the beginning correctly.

CHK

(1) Programming the tax table

- ① For this example, refer to the New Jersey tax table below (column A) New Jersey tax table: 6% rate.

Tax.	A		B	C
	Minimum breakpoint	Minimum breakpoint	Breakpoint difference (\$)	
.00	.01	.10	—	Non-cyclic
.01 ← T	.11 ← Q	.22	10	
.02	.23	.38	12	
.03	.39	.56	16	Cyclic (I)
.04	.57	.72	18	
.05	.73	.88	16	
.06	.89	1.10	16	
.07	1.11 ← "A" point	1.22	22	
.08	1.23	1.38	12	Cyclic (II)
.09	1.39	1.56	16	
.10	1.57	1.72	18	
.11	1.73	1.88	16	
.12	1.89	2.10	16	
.13	2.11	2.22	22	

The information which must be supplied to the ECR for tax table oriented calculations include the following:

R: The Rate (R) is entered as a six-digit number (2-digit integer and 4-digit decimal). Thus, a 6% rate would be entered as 60000. If the rate is fractional (e.g. 4 3/8%), then the fractional portion (3/8) would be converted to its decimal equivalent (i.e. 3750) and the resulting rate of 43750 would be entered. Note that the nominal rate (R) is generally indicated on the tax table. The other values which must be entered for correct table-based tax calculations are as follows:

Q: The smallest amount for which tax must be collected. In some states, there are amounts which are not subject to tax (e.g. if amounts of \$0.01 to \$0.10 are not taxed, the value of Q — being the smallest taxable amount — would be \$0.11).

T: The amount of tax which is associated with the amount Q.

M: The value is associated with the cyclical nature of many tax tables. In fact, the need to support tax tables as opposed to the use of a straight percentage calculation is because there are amounts where the result of applying the percentage calculation does not result in a tax amount which is the same as the related table amount. The table must, therefore, be used to obtain the data (i.e. the value M) necessary for the register to obtain the correct tax amount. The procedures to obtain this value are as follows:

The tax table must be examined in order to find repeating cycles in terms of the breakpoint differences as indicated in the preceding tax table (Note that a 'breakpoint' is that amount at which a tax amount increment takes place).

As you can see from the table, the breakpoint differences indicated by Cycle I repeat in Cycle II. I indicates the tax table's cyclical pattern and thus the value for M is determined by adding the breakpoint difference amounts associated with I (i.e. for purposes of the sample table, this value is 100).

The value of M may be viewed as the taxable amount which is covered by the cycle. Thus, it can be determined by adding all of the breakpoint differences in a cycle or by simply taking the difference between the first breakpoint of the cycle and the first breakpoint of the next cycle.

Example: Programming the sample tax table shown below is tax table 1.

Key operation

240 [] [@/FOR]
1 [@/FOR]
R → 6000 [@/FOR]
M → 100 [@/FOR]
T → 1 [@/FOR]
Q → 11 [@/FOR]
23 [@/FOR]
39 [@/FOR]
57 [@/FOR]
73 [@/FOR]
89 [@/FOR]
"A" point → 111 [@/FOR]
[CA/AT]

241 Setting % Tax rate

- ① Specifying the tax table kind

TAX table 1 _____ 1
TAX table 2 _____ 2

Presettable TAX RATE range = 0.0001 – 99.9999%
Lowest taxation limit = 0 – \$99.99

241 → [] → [@/FOR] → ① → [@/FOR] → XXXXXX
1 or 2 (% TAX RATE)*

[@/FOR] → XXXX → [CA/AT]

Where first
penny of tax
starts.
MRS = 0

* No decimal point key is required.

7-6. Reading the program contents

At PGM mode;

- 1) 110 → **@/FOR** → **CA/AT** Program contents for departments.
- 2) 120 → **@/FOR** → **CA/AT** Program contents for PLUs.
- 3) 130 → **@/FOR** → **CA/AT** The other program contents.

Note: All the print samples shows initial presets after MRS. (Except Fig. 7-3)

00-00-00			Job#
110#			Setting for job#210 (Functional selection)
1	1097	0.00	Setting for job#212 (Digit limitation)
2	1097	0.00	Setting for job#110 (Unit price)
3	1097	0.00	
4	1097	0.00	
5	1097	0.00	
6	1097	0.00	
7	1097	0.00	
8	1097	0.00	
9	1097	0.00	
10	1097	0.00	
11	1097	0.00	
12	1097	0.00	Department No. (1 ~ 10 for ER2385S) (1 ~ 12 (max. 15) for ER2395S)
12-01			
000-0002A			Cashier code This will not be printed by ER-2385S

Fig. 7-1 Print sample for Job# 110

00-00-00		
120#		
PL	...	0
12-01		
000-0003A		

Note: If there is no presets stored in the memory all the contents are zero-skipped.

Open/PRESET PLU job#220

Fig. 7-2 Print sample for Job# 120 without presets

7-7. Validation printing function (For only ER-2395)**① TOTAL AMOUNT VALIDATION**

1. After the finalization of a registration by the **CA/AT**, **CHK**, **CH1**, **CH2** or **PO** key, insert a slip into the printer as shown below, and press the **PRINT** key.

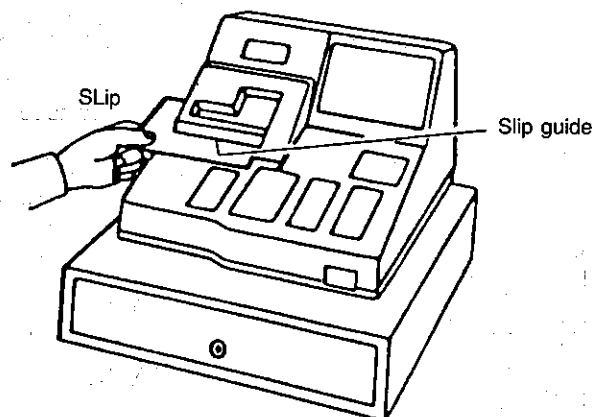


Fig. 7-5

2. Example of validation printing.

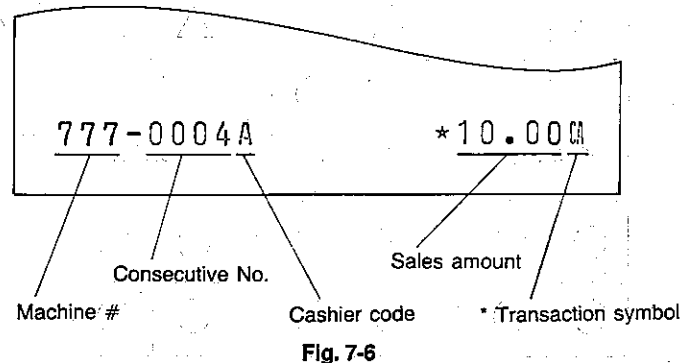


Fig. 7-6

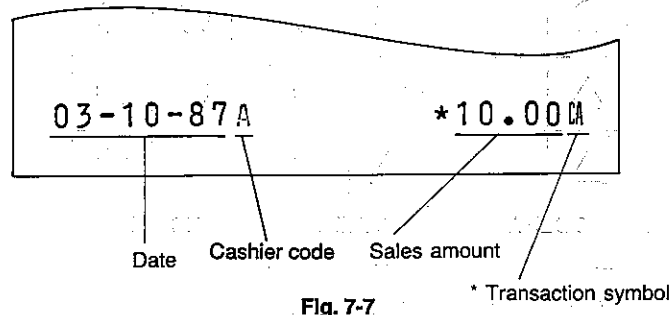


Fig. 7-7

As shown above, there are two validation formats which can be selected by SRV programming job #906-C. The format shown in Fig. 7-6 is the initial preset set at production line.

*** Transaction symbol**

	Registration	Symbol
1	Direct finalization by cash	CA
2	Cash tendering with change calculation	TL
3	Sale credit	CH
4	Check tendering	CK
5	Received-on-account	RA
6	Paid-out	PO

3. Validation slip specification

See Page 5 for validation slip specification.

② ITEM VALIDATION

1. After a registration by the "DEPT", "PLU", "DEPT RF", "PLU RF", "DEPT VOID", "PLU VOID" key operation, insert a slip into the printer as shown below, and press the **PRINT** key.

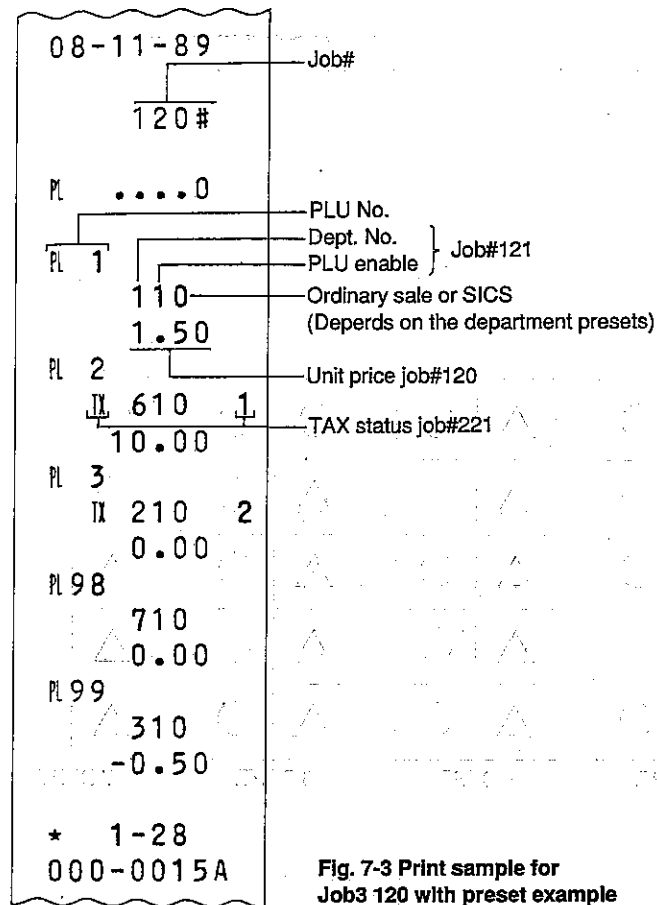


Fig. 7-3 Print sample for Job# 120 with preset example

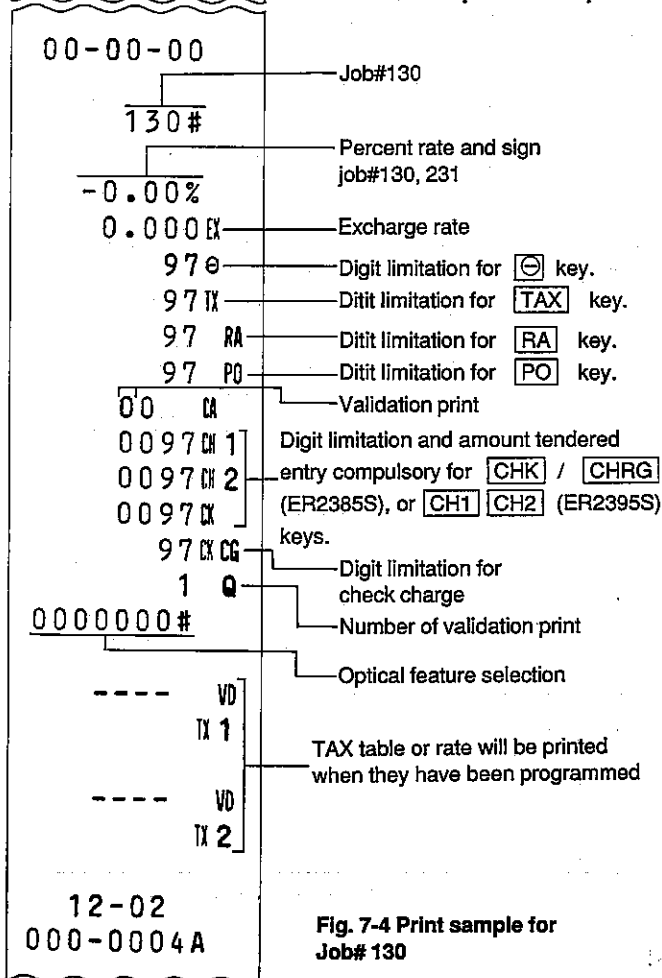


Fig. 7-4 Print sample for Job# 130

8. Installation of Options

8-1. Department Key Kit

1. Key and the components layout for 5 to 8 departments

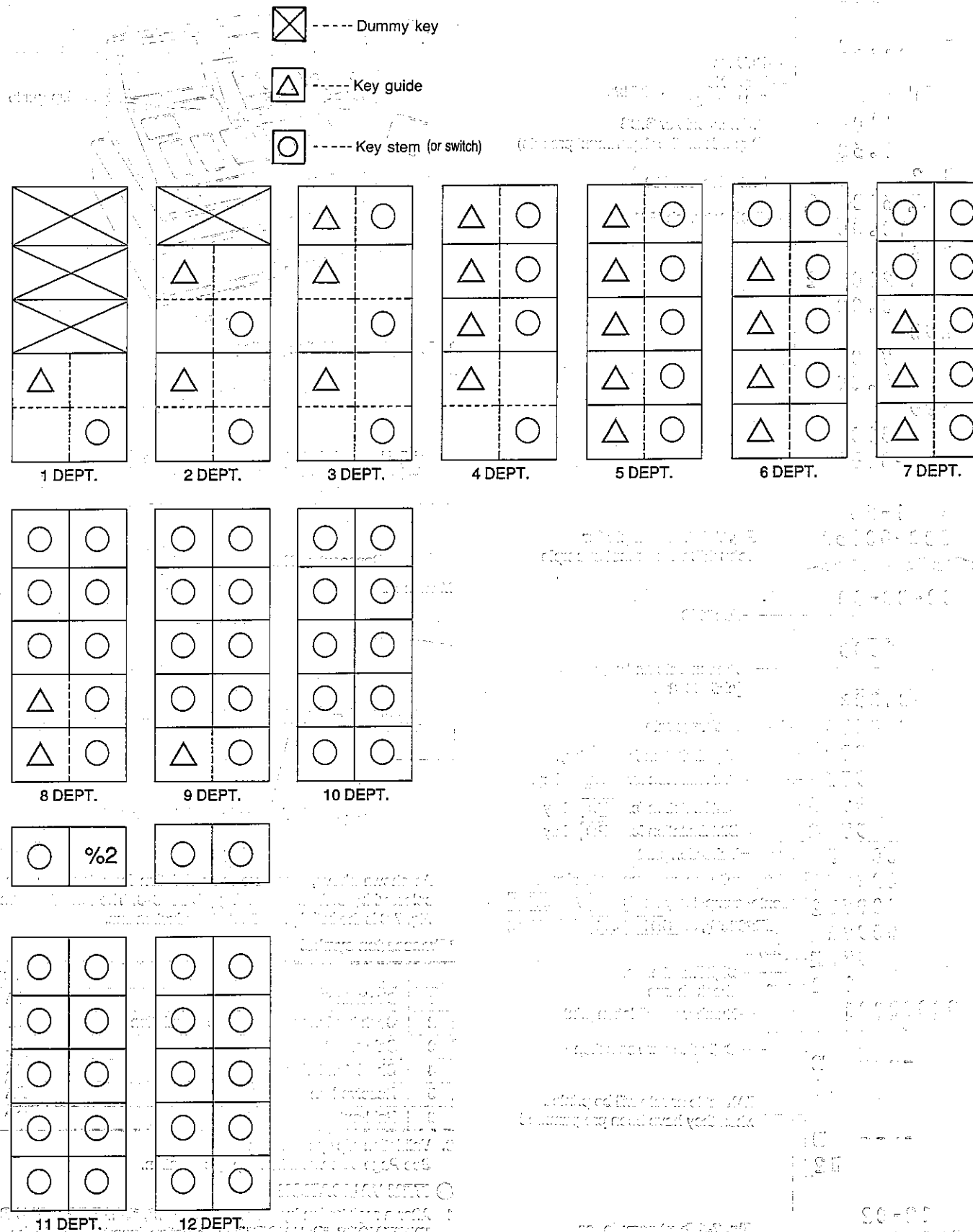


Fig. 8-1

2. Installation procedure

- (1) Remove every key-cap, key-top located within the area in which you want to change the key layout.
See Fig. 8-1 for the key layout and Fig. 8-2 ~ Fig. 8-3 for removing method.
- (2) Remove every key guide and stem required for new key layout.
 - ① Removing key-cap
 - ② Removing key-top
 - ③ Removing dummy key (Not applicable for ER-2385S)

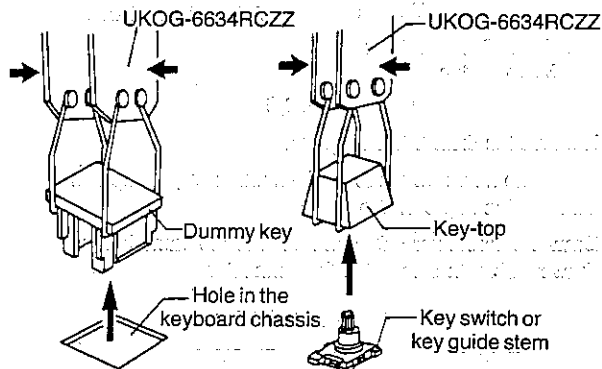


Fig. 8-2

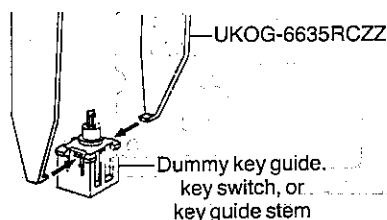


Fig. 8-3

- (3) Mount every desired key stem, key guide, and the mating key label and key-top.
(Refer to Fig. 8-1 key and the components layout)
- (4) SRV programming
After the installation of the department keys, change the preset value of Job #912 and Job #913D at SRV mode as follows. And all other department presets are set to same initial value as MRS for the expanded department key(s).

912-A, B 1. Number of department

Function	Key entry
Department function inhibited	0
1 depts	1
2 depts	2
3 depts	3
4 depts	4
5 depts	5
6 depts	6
7 depts	7
8 depts	8
9 depts	9
10 depts	10
*11 depts	11
*12 depts	12

* Function = 11 dept/12 dept is only for ER-2395S.

912-C 1. Selection of PO key or Dept. 14 key

Selection of PO key or Dept. 14 key	Key entry
Undefined (2385S)	0
PO key (2395S)	1
* Dept. 14 key (2395S)	2

* Only for ER-2395S

912-D 1. Selection of CONV, RA, and Dept. 13 key.

Selection of CONV, RA, and Dept. 13 key.	Key entry
CONV key (2385S)	0
RA key (2395S)	1
* Dept. 13 key (2395S)	2

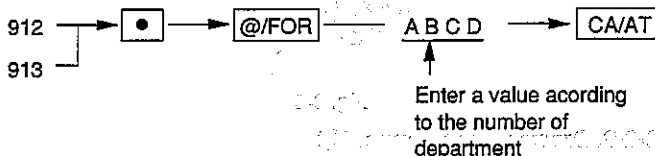
* Only for ER-2395S

913-D Selection of TAX2 SHIFT, CONV, Dept. 15, and %2 key.

Selection of TAX2 SHIFT, CONV, Dept. 15, and %2 key.	Key entry
TAX2 SHIFT key	0
CONV key	1
* Dept. 15 key	2
%2 key	3

* Only for ER-2395S

[Key operation]



8-2. Drawer Bell and Open Sensor Kit

8-2-1. Drawer Bell Kit

1) Parts list

DKIT-8324RCZZ

NO.	PART CODE	DESCRIPTION	PRICE RANK	Q'TY
1	0AGRAL202MKSS	Bell	AC	1
2	0AGMLF230MKSS	Hammer unit	AC	1
3	0AGXBD806406N	Screw M4 × 6	AA	1
4	0AGXBD801408W	Screw M4 × 8	AA	1

2) Installation procedure

- Remove the drawer bottom by unscrewing the 4-screws.
- Install each component 1 to 4 as illustrated in Fig. 8-4.

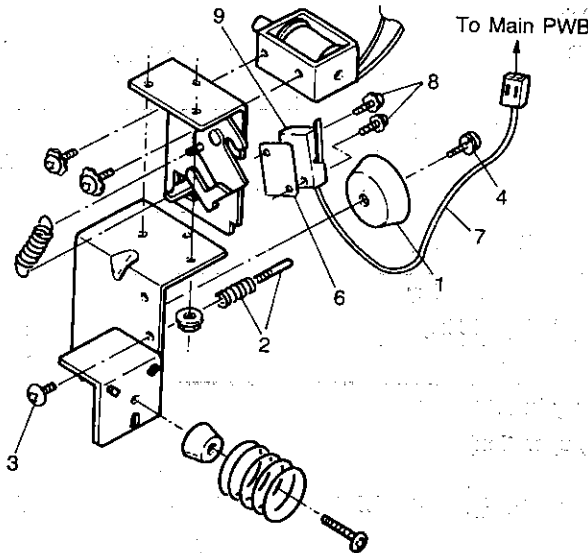


Fig. 8-4

8-2-2. Drawer Open Sensor Kit

1) Parts list

DKIT-8325RCZZ

NO.	PART CODE	DESCRIPTION	PRICE RANK	Q'TY
5	QCNCM5035BCZZ	2-pin connector	AB	1
6	0AGPSP200MKSS	Spacer	AB	1
7	0AGQCW230MKSS	2-pin connector with wire	AE	1
8	0AGXBD202314X	Screw M3 × 14	AA	2
9	0AGQSW201MKSS	Micro switch	AM	1

2) Installation procedure

- Remove the top cabinet.
- Remove the main P.W.B. and solder the 2-pin connector onto the Main PWB.

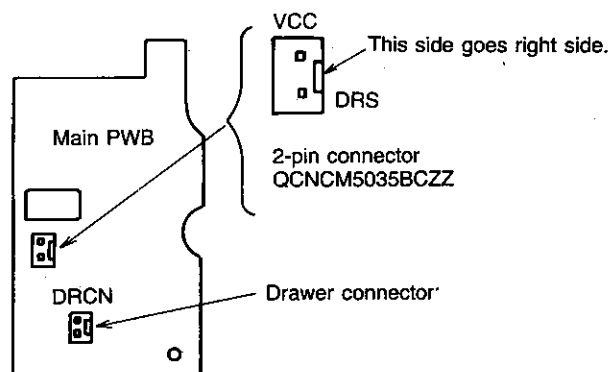


Fig. 8-5

- Replace the main PWB.

- Solder the 2-pin connector cable (0AGQCW230MKSS) to the micro switch as shown in Fig. 8-6.

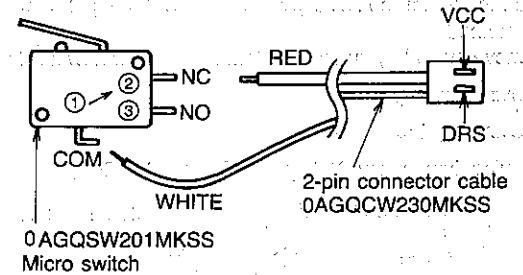


Fig. 8-6

- Remove the drawer bottom plate.
- Mount the micro switch to the lock unit using the spacer and top screws. See Fig. 8-4. (No.6 ~ 9)
- Draw the connector cable and put into the same hole used for the drawer cable, then insert to the connector.

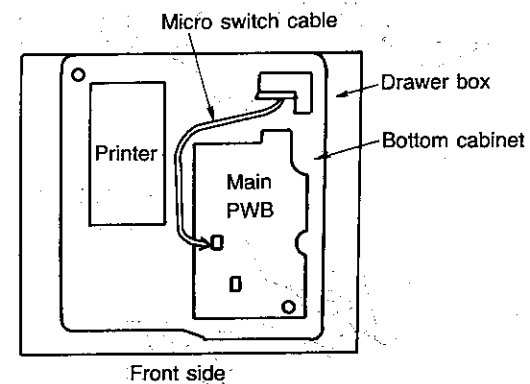


Fig. 8-7

- Replace the drawer bottom plate and the top cabinet.

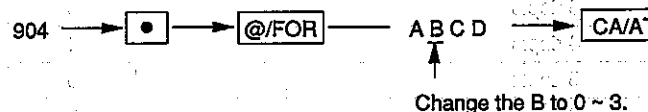
- SRV programming (Job #904-B)

Change the service preset value as it requires at SRV mode.

- 904-B**
- Drawer (Till) open count function
 - Drawer closing at the operation

1. Drawer open count	2. Drawer closing	Key entry
Disable	Non-compulsory	0
	Compulsory	1
Enable	Non-compulsory	2
	Compulsory	3

[Key operation]



8-3. Remote Drawer Kit and Remote Drawer (Only ER-2395S)

1) Components Parts list

DKIT-8323RCZZ

NO.	PART CODE	DESCRIPTION	PRICE RANK	Q'TY
1	CPWBF7055RC01	Drawer sub-PWB	AT	1
2	PSHEF6714RCZZ	Cover	AC	1
3	PSPAY6643RCZZ	Spacer	AD	1
4	QCNCM6865RC0D	4-pin connector	AB	1
5	QCNCM6865RC0E	5-pin connector	AB	1
6	XUPSD30P25000	Screw M3 x 25	AA	1

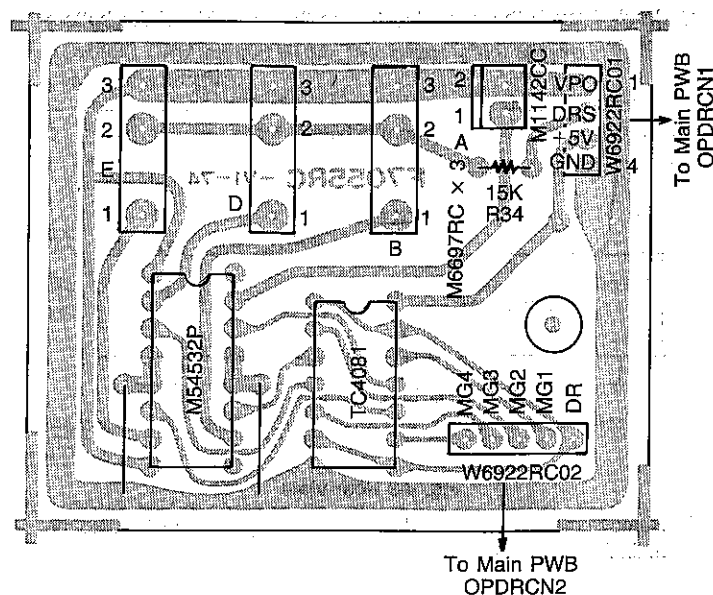
In addition to the above parts, two tapping screw (M3 x 8) shown below are required per one remote drawer to mount the cable holder.

NO.	PART CODE	DESCRIPTION	PRICE RANK	Q'TY
1	XUBSD30P08000	Screw M3 x 8	AA	6

Remote Drawer (Service option)

NO.	PART CODE	DESCRIPTION	PRICE RANK
1	GBOXD6907RCZZ	Drawer box (5B/5C) U.S.A.	BS
2	GBOXD6908RCZZ	Drawer box (4B/5C) Canada	BS
3	GBOXD6909RCZZ	Drawer box (4B/5C) South Africa	BS

2) Remote drawer control sub PWB parts layout [from April 1987 production]



[Circuit diagram after the installation of drawer open sensor and drawer control sub-PWB]

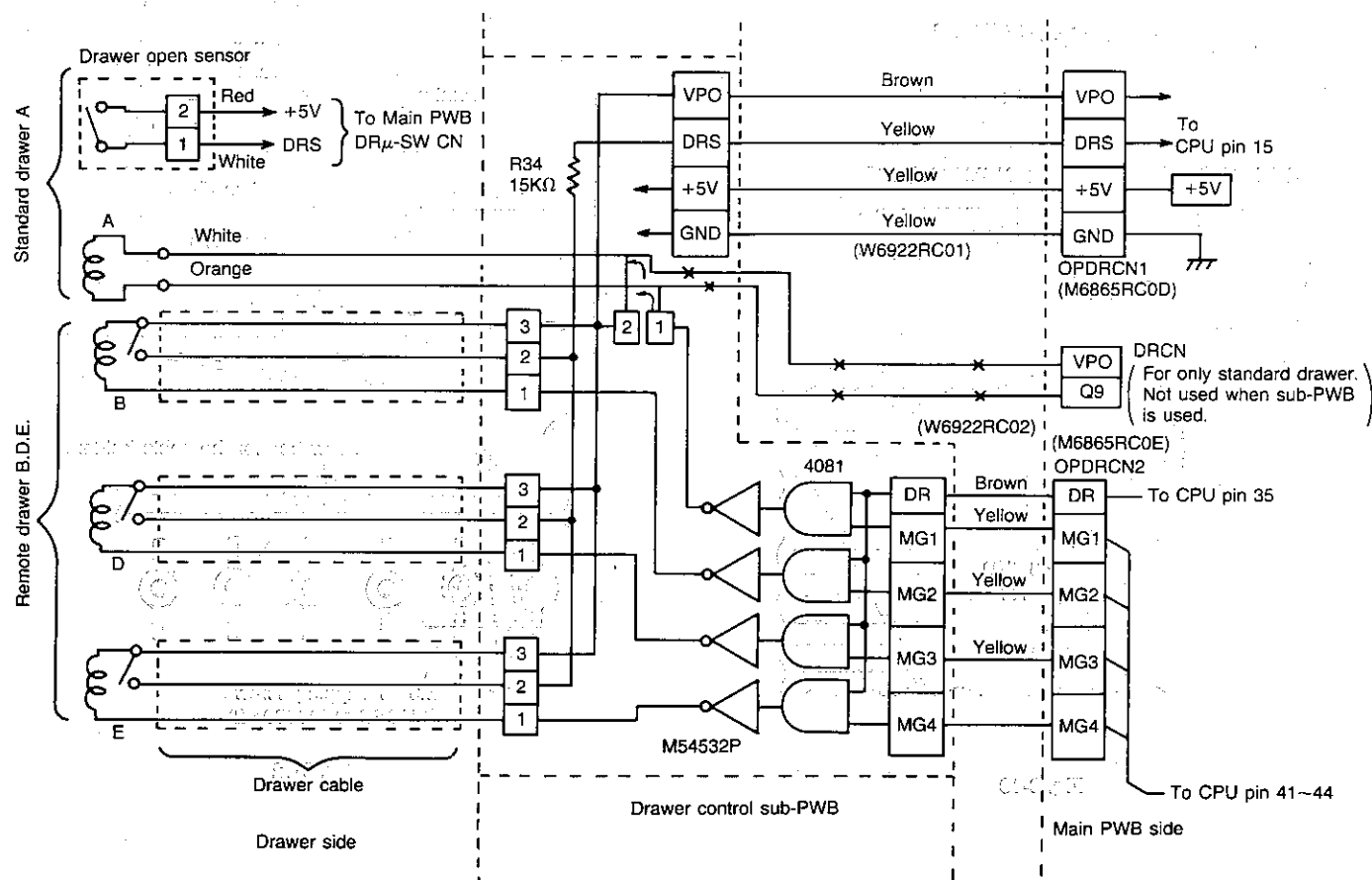


Fig. 8-8

3) Installation procedure

- ① Remove the top cabinet from the bottom cabinet. (unfasten 4 screws)
- ② Break through the cover located on the rear side of the bottom cabinet.

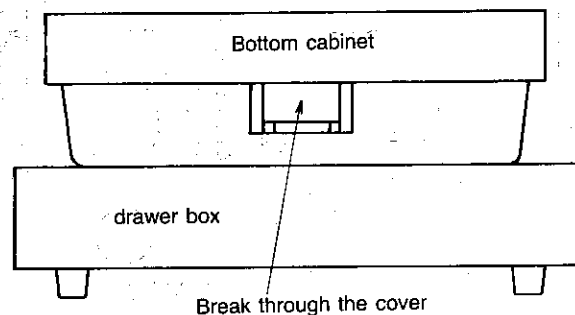


Fig. 8-9 Rear view

- ③ Remove main PWB and solder 4-pin and 5-pin connector onto the main PWB.

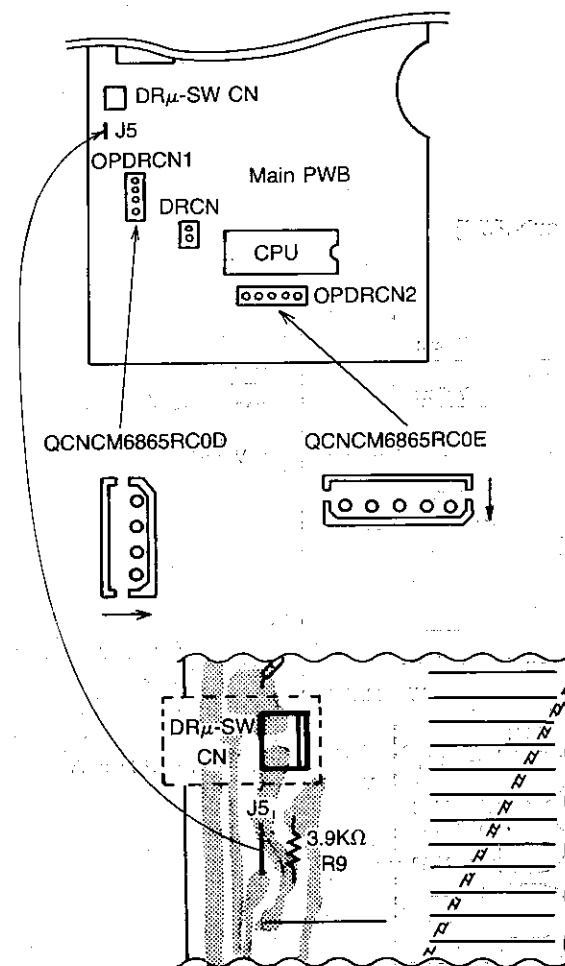


Fig. 8-10

- ④ Solder a jumper wire (J5) onto the main PWB. (See Fig. 8-10) then replace the main PWB.
- ⑤ Mount the drawer control sub-PWB above the main PWB using spacer and screw as shown below.

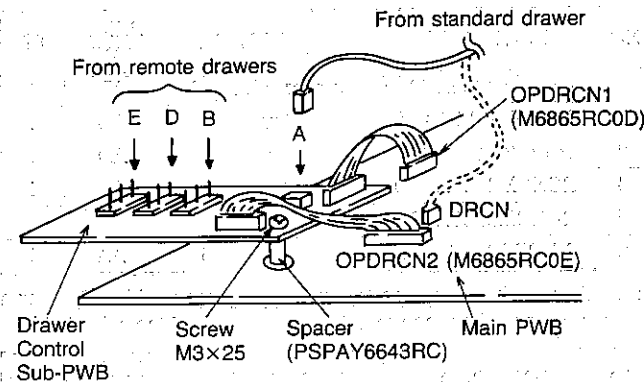


Fig. 8-11

- ⑥ Disconnect the standard drawer cable from DRCN connector on the main PWB, and connector it to the 2-pin connector A on the drawer control sub-PWB. (See Fig. 8-11)
And lead the cable of the remote drawer to the sub-PWB, then connect it to 3-pin connector B, D or E as shown in Fig. 8-11 and 8-15.
With the drawer control sub-PWB, the standard drawer A is no longer driven by the sub-PWB, therefore the DRCN on the main PWB no longer used.

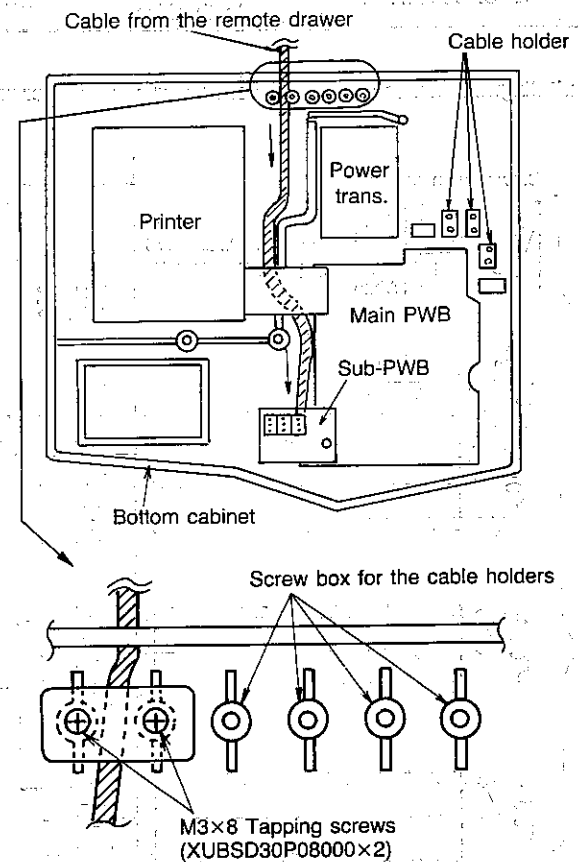


Fig. 8-12

Fig. 8-10),

B using a

er

RCN1
35RC0D)

E)

=

Inspector on
r A on thePWB, then
. 8-11 andr A is now
in PWB is

older

Fig. 8-11)

ers

- ⑦ Tear off one of the blocks as the cable holder, and secure the remote drawer cable in between the screw boxes using two tapping screws (M3 × 8) and the cable holder as shown in Fig. 8-12.
- ⑧ Ensure that the cable is firmly fixed on the bottom cabinet, then attach the cover (PSHEF6714RC) to the inner wall at the cable inlet to shield the rest of open space as shown in Fig. 8-13.

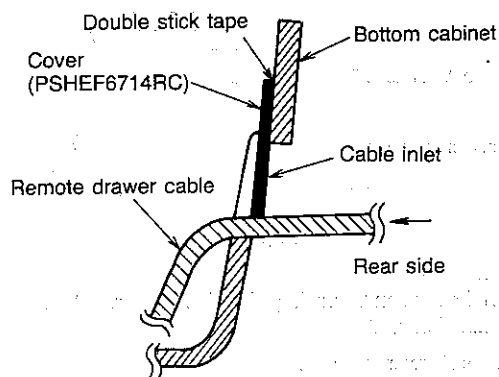


Fig. 8-13

- ⑨ Replace the top cabinet.
- ⑩ SRV programming (Job #902-C).
When one or more remote drawers are connected and to operate the drawer(s), the preset value in Job #904 must be changed as follows;

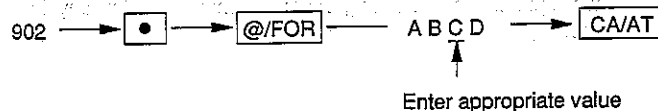
902-C Number of drawers.

The cashier A, B, D and E are assigned to a drawer by a fixed relation which automatically by the number of drawers used for an ECR.

Number of drawer	(Cashier) drawer #	Key Entry
0	No drawer	0
1	(A, B, D, E)1	1
2	(A, B)1, (D, E)2	2
2	(A)1, (B, D, E)2	3
3	(A)1, (B)2, (D, E)3	4
4	(A)1, (B)2, (D)3, (E)4	5

Drawer #1 = Standard fixed drawer

Drawer #2 - 4 = Optional remote drawers

[Key operation]**9. Test functions (ER-2385S/2395S)****9-1. Prerequisite**

This test function operates when the test program stored in the SC1003C CPU internal ROM. The following are required in order to execute the function.

- a. The power supply to the logic circuit must be normal.
- b. Both the CPU input pins and CPU internal logic circuits are functioning normally and that the entire KDC (μPD7507), and its address and data buses are operating normally.

9-2. Start of test function

The following key operation is required in the SRV1 mode to start the test.

XXXX → CA/AT

Test command

Master reset is required when the system is to be started for the first time.

9-3. List of test commands

Test No.	Test Command	Test description
1	1	Clerk/Mode switch test
2	XXXX02 *1	Keyboard test
3	3	Display and buzzer test
4	4	Receipt ON/OFF switch test
5	5, 6, 7, 8	Drawer open test (The code 6 to 8 are for optional drawers)
6	9	Continuous print test
7	10, 11, 12	ROM test
8	13	RAM test
9	14	Key position code test
10	15	System clock test
11	16	Counter clock test
12	XXXX00 *1	Sequential test - 1
13	XXXX22 *1	Sequential test - 2 (drawer open sensor disregarded)
Note: *1XXXX:		Sum check data for ER-2385S → 977 standard key layout ER-2395S → 1142

NOTE-1: Test message is printed on both the receipt and journal.

NOTE-2: The contents of the totalizer and the preset values are not erased by the test.

NOTE-3: Clerk switch test is applicable only for the ER-2395S, ignore the test for the ER-2385S.

9-4. Test description

1) Test No.1: Clerk and mode switch test

① Key operation

Push the clerk switch → clerk switch E.

Then, push the clerk and mode switches in the following order.

Clerk and mode switch operation	Display
Clerk SW. A	↑ 01
Clerk SW. B	With clerk switch 02
Clerk SW. D	mode only. 04
Clerk SW. E	If not, skip this part. 08
	↓
Mode SW PGM	01
☐ or VOID	02
⏻ or OFF	
OPX/Z or TIME	03
REG	04
X1	05
Z1	06
X2/Z2	07
SRV1	0.00

② Description

As the clerk and mode switch position number is displayed, check the number.

③ Termination

The mode can be terminated when the mode switch is turned to the SRV1 side from other position.

Termination print at error ----- 01E

Termination print at normal end 01

NOTE: Though the display may sway during this test, it is not a malfunction.

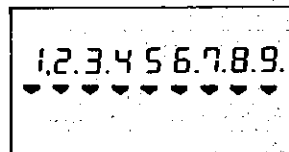
3) Test No.3: Display buzzer test

① Key operation

3 → CA/AT

② Description

Continuous beeps and display are tested.



State of display

Fig. 9-1

③ Termination

The beep stops with any key depression and the display returns to show 0.00.

Termination print

03

4) Test No.4: Receipt on/off switch test

① Key operation

4 → CA/AT

② Description

The following is displayed according to the location of receipt on/off switch.

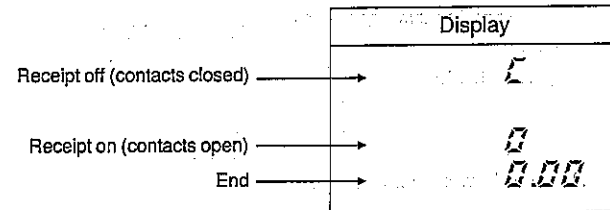


Fig. 7-5

③ Termination

With depression of any key, the display shows 0.00.

Termination print

04

5) Test No.5: Drawer open test

① Key operation

5 → CA/AT

② Description

With this test, the drawer opens and its state is displayed in the following manner:

Drawer open → 0

Drawer closed → C

"C" is displayed for the model that has no drawer sensor switch.

③ Termination

With depression of any key, the display shows 0.00.

Termination print

05

6) Test No.6: Continuous print test

① Key operation

9 → CA/AT

② Description

Receipt switch at OFF: Continuous printing is done.

Receipt switch at ON: After a cycle of printing, the operation terminates automatically.

③ Termination

When the receipt switch is turned from OFF to ON position while printing is continuing, the test termination after a cycle of printing.

- ② Description
Until the depression of the [CA/AT] key, the sum of key position codes is compared with the sum check data, except for the or [CA/AT] key.
- ③ Termination
The test terminates with the depression of the [CA/AT] key and the termination printout is produced.
- Termination printout ER-2385S: 097702
ER-2395S: 114202
- Termination printout with error ----- 02E

NOTE: Sum check data

The sum check data shown in the example is based on the standard key layout for the each model.
If the machine has a key layout other than the standard layout, the sum check must be calculated by adding all the key position codes to be depressed, then use the sum as its sum check data. (Refer to Fig. 7-1)

8) Test No.8: RAM test

- ① Key operation
13 → [CA/AT]
- ② Description
Though read/write test is conducted from the address 4000H to 5FFFH, the data are secured as they are saved before the test started.
- ③ Test results Termination print
- At normal end → 13
Error → ----- 13 E

9) Test No.9: Key position code read test

- ① Key operation
14 → [CA/AT]
- ② Description
Key position of a key on the keyboard is displayed when any key is depressed. (Hardware key contacts code)
The receipt and journal keys only feed paper without displaying, and the [CA/AT] key is used to terminate the test.
For key position codes displayed, refer to Fig. 7-1 to 7-3.
- ③ Termination
Push the [CA/AT] key.
Termination print 14

10) Test No.10: System clock test

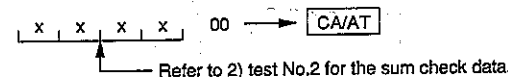
- ① Key operation
15 → [CA/AT]
- ② Description
Used for the adjustment of the KDC (μPD7505C) system clock. An 880 to 900μs pulse is generated from P21 (pin 30) of the KDC. The display becomes blanking.
For detail of adjustment, refer to the paragraph discussing circuit description.
- ③ Termination
Set the mode switch to the PGM side.
Termination print 15

11) Test No.11: Counter clock test

- ① Key operation
16 → [CA/AT]
- ② Description
For error adjustment, a 2048Hz pulse is issued from P21 (pin 3) of the KDC (μPD7507C). The display goes blank.
This test is for the factory adjustment only.
- ③ Termination
Set the mode switch to the PGM side.
Termination print 16

12) Test No. 12: Sequential test-1

① Key operation



② Description

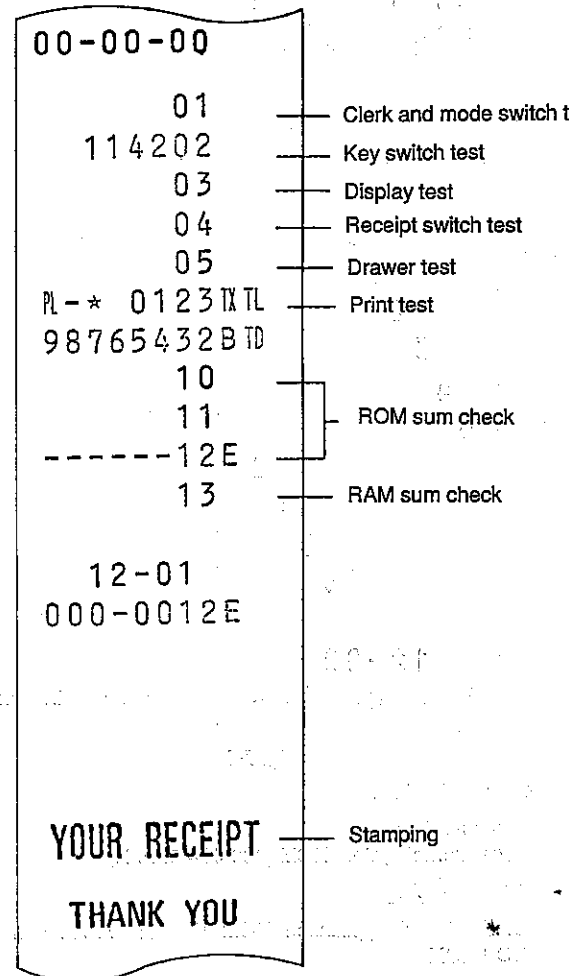
Within one second after the key operation, the test nos 1 through 8, are able to carry out continuously.

NOTE-1: If a drawer sensor is equipped for test NO.5, the control proceeds to a next step when the drawer is closed after it was opened. If the sensor is not equipped, the control jumps to a next step assuming it has no drawer is installed.

NOTE-2: Simple print is done for the continuous print test No.6.

NOTE-3: An error is always evoked, if the 27128 SOS ROM is not mounted or 27256 SOS ROM is mounted at test No.7-12.

[A print example after the test]



* The upper four digits shows the sum of key position codes which have been pressed in the key switch test.

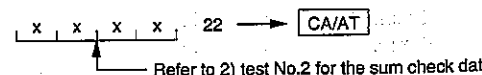
Fig. 7-7

③ Termination

All tests automatically terminate upon finishing the stamp test.

13) Test No. 13: Sequential test-2

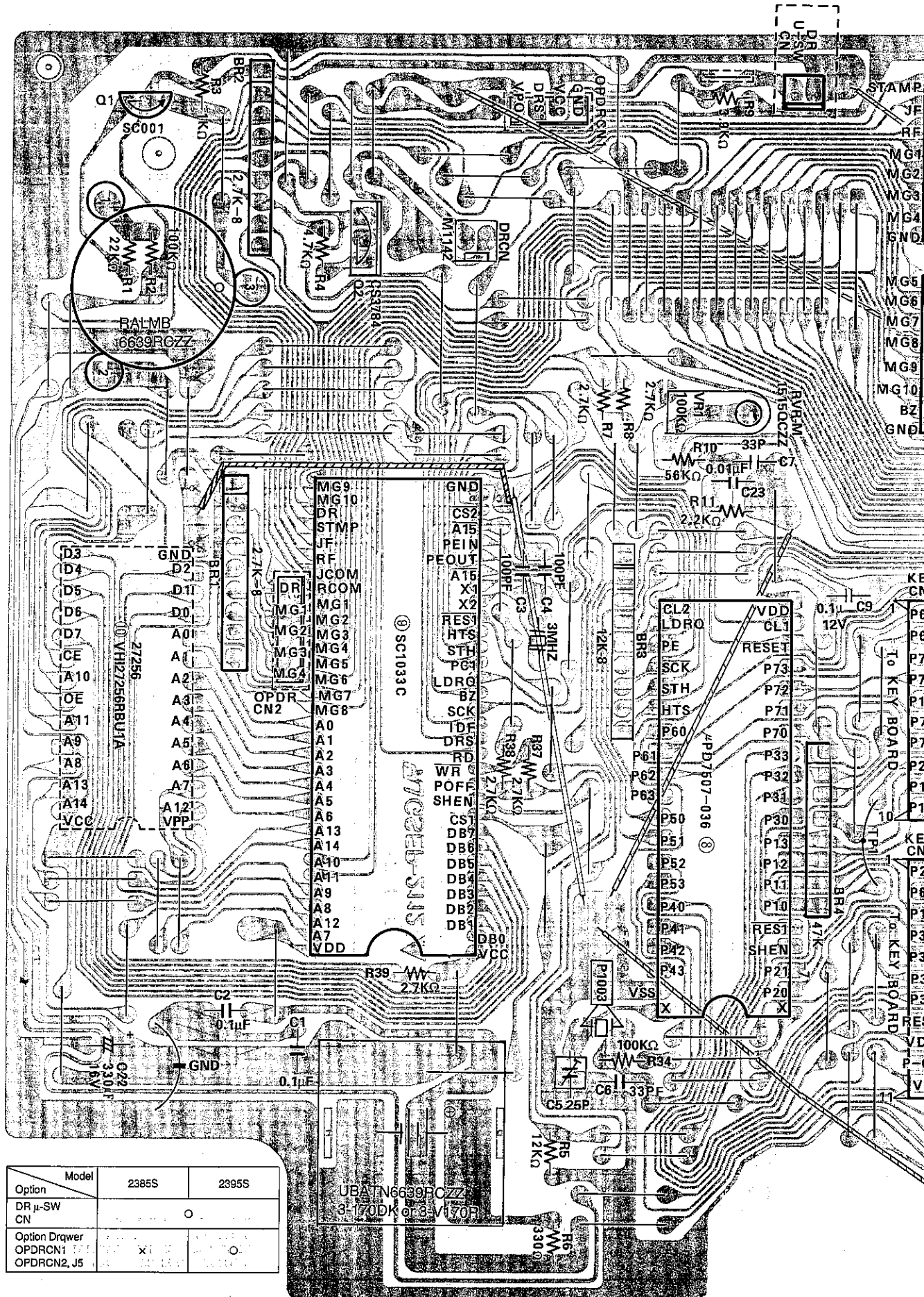
① Key operation



② Description

It is similar as the test No.12 except that it ignores the drawer open sensor of the test No.5.

11. MAIN PWB PARTS LAYOUT



SHARP PARTS GUIDE

CODE: 00ZER2385SDRI

REVISÉD

DRAWER BOX UNIT

FOR ER-2385S/2395S

1 Drawer box unit (SS 423 type)

[illegible]

SHARP PARTS GUIDE

ER-2385
MODEL ER-2395

CONTENTS

1. Exteriors
2. Printer, PWB etc.
3. Packing material & Accessories
4. Keyboard unit
5. Drawer box unit
6. Main PWB unit
7. Articles of consumptions
8. Service options for kits
- Index

Parts marked with "△" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

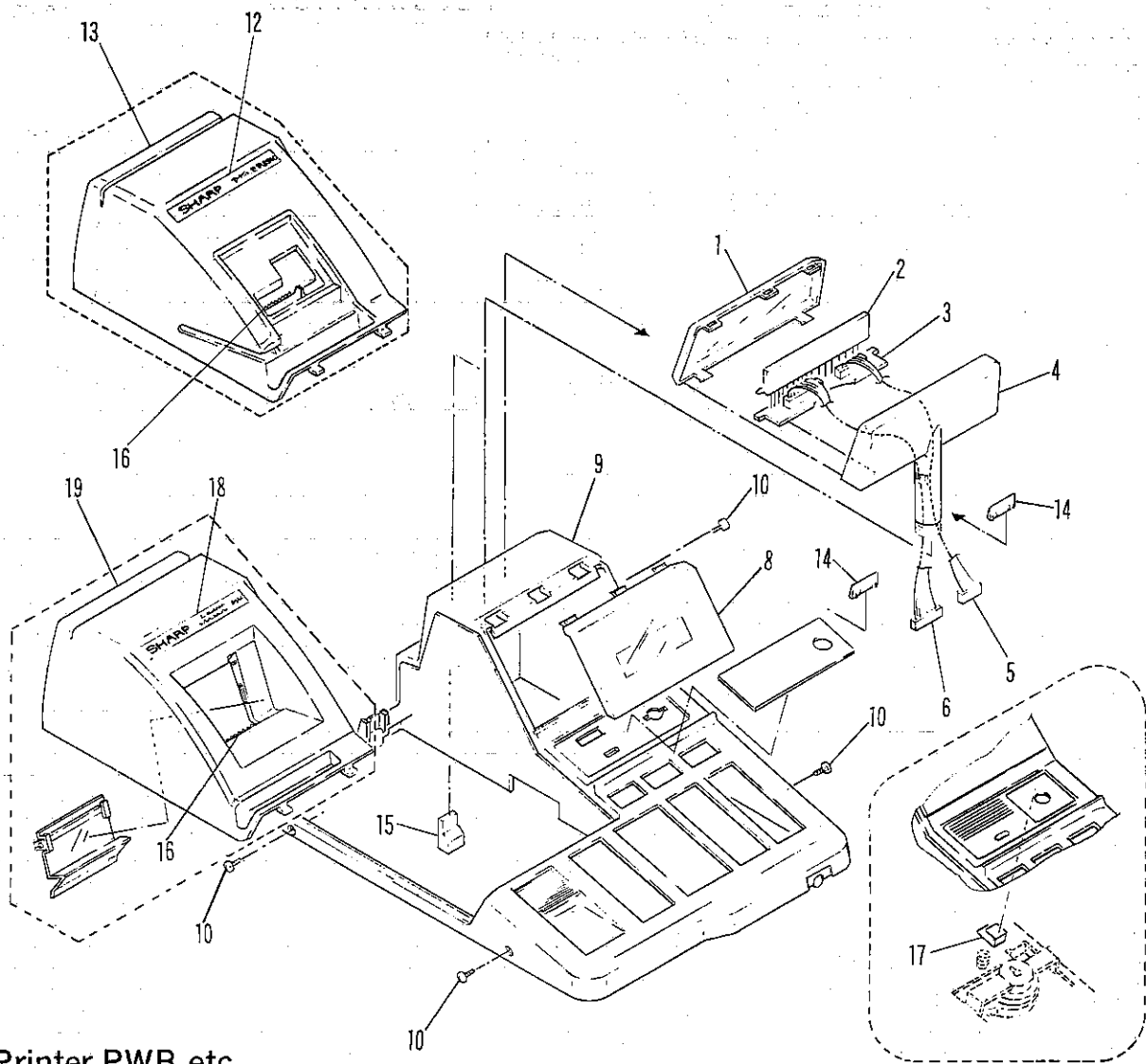
1 Exteriors

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION	ER 2385	ER 2395
1	PFI LW6853RCZZ	AG	N	C	Pop up filter	○	○
	PFI LW6855RCZZ	AG	N	C	Pop up filter	○	○
2	VVKH9MT10Z/-1	AY		B	Display tube (H9MT10Z)	○	○
3	QK iTF7051RCZZ	AH		C	Pop up PWB (Board only)	○	○
4	GCABF6927RCZZ	AH		D	Pop up cabinet	○	○
5	QCNCW6918RC09	AH		C	Connector with wires (9pin)	○	○
6	QCNCW6918RC11	AK		C	Connector with wires (11pin)	○	○
	HDECA6748RCZZ	AG		D	Decoration panel (without cashier hole) [U.S.A.]	○	○
	HDECA6750RCZZ	AG		D	Decoration panel (with cashier hole) [U.S.A.]	○	○
7	HDECA6791RCZZ	AG		D	Decoration panel [Canada]	○	○
	HDECA6792RCZZ	AG		D	Decoration panel [Canada]	○	○
8	PFI LW6852RCZZ	AH	N	C	Filter	○	○
	PFI LW6854RCZZ	AH	N	C	Filter	○	○
9	GCABB6925RCZZ	AV		D	Top cabinet [U.S.A.]	○	○
	GCABB7051RCZZ	AU		D	Top cabinet [Canada]	○	○
10	XBBSC30P12000	AA		C	Screw (3X12)	○	○
12	HBDGD6852RCZZ	AC	N	D	Model badge	○	○
	GCÖVA6887RCZA	AQ		D	Printer cover [U.S.A.]	○	○
13	GCÖVA6954RCZA	AL		D	Printer cover [Canada]	○	○
	GFTAB6712RCZZ	AC		D	Mask lid for pop up [U.S.A.]	○	○
14	GFTAB6738RCZZ	AC		D	Mask lid for pop up [Canada]	○	○
15	PGUMS6652RCZZ	AB		C	Cushion rubber	○	○
16	PCUT-1027CCZZ	AC		C	Paper cutter	○	○
17	PSHEZ6718RCZZ	AB		C	Sheet (aluminium)	○	○
18	HBDGD6853RCZZ	AC	N	D	Model badge	○	○
	GCÖVA6887RCZZ	AL		D	Printer cover [U.S.A.]	○	○
19	GCÖVA6954RCZZ	AL		D	Printer cover [Canada]	○	○
501	DUNTK8874RC01	BA		E	Pop up PWB unit (Include No.1~6)	○	○
502	DUNTK8875RC01	BA	N	E	Pop up PWB unit (Include No.1~6)	○	○

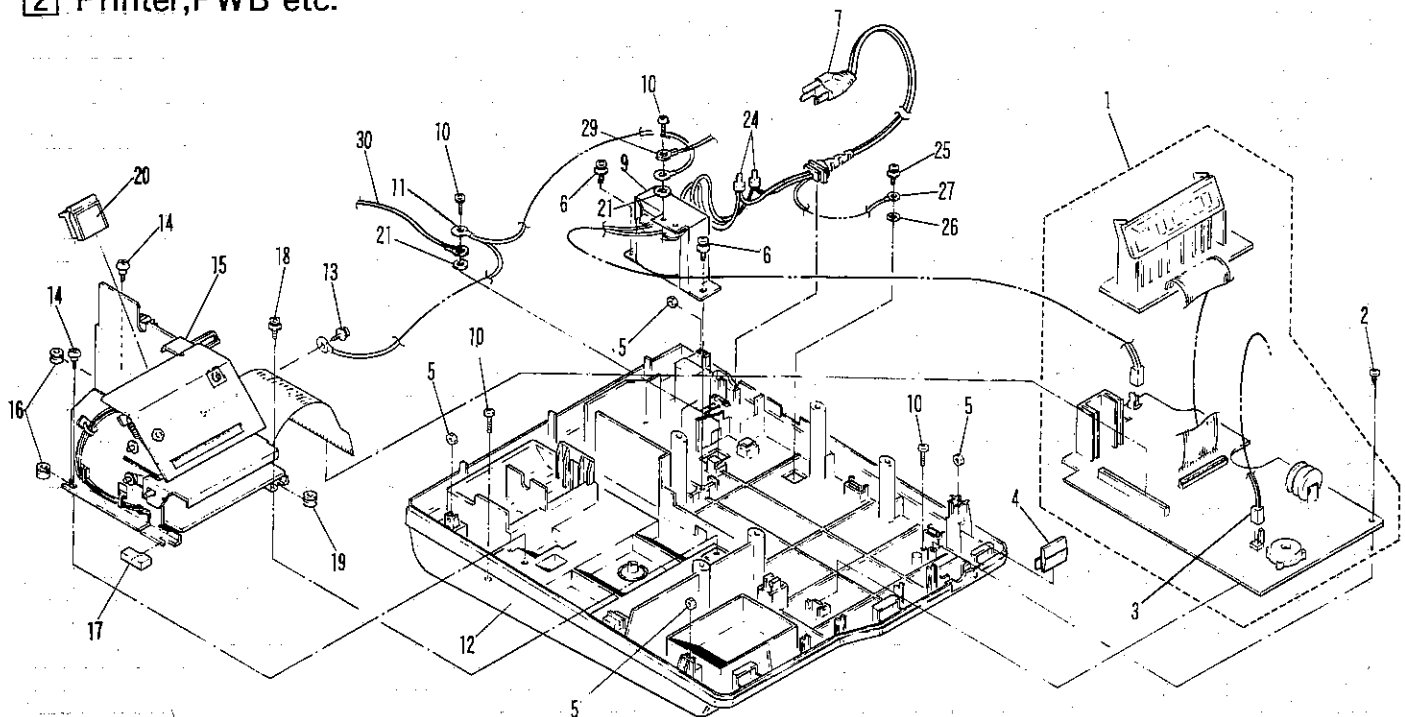
2 Printer,PWB etc.

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION	ER 2385	ER 2395
1	CPWBF7145RC01	BT	N	E	Main PWB unit	○	○
2	XUBSD30P08000	AA		C	Screw (3X8)	○	○
3	DAGQCW206MKSS	AE		B	Connector with wire (2pin)	○	○
4	GFTAB6714RCZZ	AB		D	Mask lid (Cashier switch cover) [U.S.A.]	○	○
	GFTAB6739RCZZ	AB		D	Mask lid [Canada]	○	○
5	XNESD30-24000	AA		C	Nut (3NS)	○	○
6	XBPSD30P08KS0	AA		C	Screw (3X8KS)	○	○
7	QACCD8411QCZZ	AN		B	AC cord	○	○
9	RTRNP6765RCZZ	AW		B	Power transformer (120V)	○	○
10	XFPSD30P08000	AA		C	Screw (3X8)	○	○
11	QCNCW-6919RCZZ	AC		C	Earth wire (G/Y)	○	○
	GCABA6926RCZZ	AW		D	Bottom cabinet [U.S.A.]	○	○
	GCABA7050RCZZ	AW		D	Bottom cabinet [Canada]	○	○
13	XBPSD40P06000	AA		C	Screw (4X6)	○	○
14	LX-BZ1007CCZZ	AB		C	Screw	○	○
15	Ki-ÖB6730RCZZ	CC	N	E	Printer unit (CR802A)	○	○
	Ki-ÖB6734RCZZ	BY	N	E	Printer unit (CR802)	○	○
16	PCUS-4101CCZZ	AB		C	Printer cushion	○	○
17	PGUMM6263RCZZ	AC		C	Printer cushion	○	○
18	XBPSD30P10KS0	AB		C	Screw (3X10KS)	○	○
19	PCUSG1220CCZZ	AB		C	Printer cushion	○	○
20	PSTM-6658RC01	AR		C	Stamp (YOUR RECEIPT THANK YOU)	○	○
21	LX-WZ6698RCZZ	AA		C	Washer	○	○
24	QTANP1094CCZZ	AA		C	Terminal	○	○
25	XBPBZ40P06K00	AA		C	Screw (4X6K)	○	○
26	LX-WZ0046FCZZ	AA		C	Washer	○	○
27	QTANP0004HCZZ	AB		C	Lug terminal (4φ)	○	○
29	QCNCW-7085RCZZ	AL		C	Earth wire with core (G/Y)	○	○
30	QCNCW-7079RCZZ	AC		C	Earth wire (to the keyboard)	○	○

1 Exteriors



2 Printer, PWB etc.

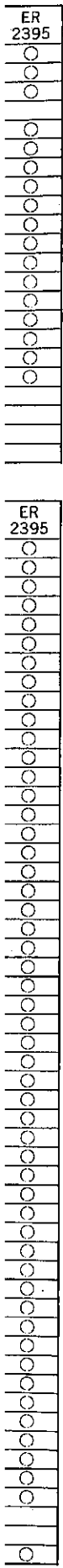
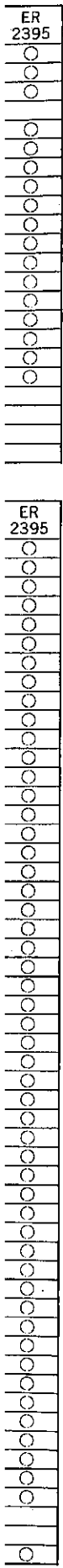


3 Packing material & Accessories

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION	ER 2385	ER 2395
1	SPAKA7605RCZZ	AM		D	Packing cushion (Right)	○	○
2	SPAKA7606RCZZ	AM		D	Packing cushion (Left)	○	○
3	PSHEP6681RCZZ	AC		C	Sheet	○	○
4	SPAKC7792RCZZ	AP	N	D	Packing case	○	○
	SPAKC7793RCZZ	AP	N	D	Packing case		○
5	SSAKH3015CCZZ	AA		D	Vinyl bag (260×360mm)	○	○
6	SSAKH3012CCZZ	AA		D	Vinyl bag (80×120mm)	○	○
101	UINK-1001CCZZ	AK		S	Ink (5cc)	○	○
102	SSAKA5004CCZZ	AA		D	Vinyl bag (100×300mm)(for AC cord)	○	○
103	TCADH6653RCZZ	AB		D	Caution card [U.S.A.]	○	○
	TCADH6654RCZZ	AB		D	Caution card [Canada]	○	○
104	TINSE7143RCZZ	AR	N	D	Instruction book [U.S.A.]	○	○
	TINSK7149RCZZ	AX	N	D	Instruction book [Canada]	○	○
105	UBNDA1008CCZZ	AA		C	AC cord band	○	○
106	TCAUS1150CCZZ	AA		D	UL caution label	○	○
107	TCADH6660RCZZ	AF		D	Card [Canada]	○	○
108	TCAUA6655RCZZ	AA		D	Battery caution label [Canada]	○	○
109	LKGI M7113RCZZ	AK		B	Service key (for mode switch) (SRV : Option)(1pc)	○	○

4 Keyboard unit

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION	ER 2385	ER 2395
1	JKNBZ6767RCZZ	AA		C	Key cap (1×1)	○	○
2	JKNBZ6771RCZZ	AC		C	Key cap (1×2)	○	○
3	JKNBZ6766RCZZ	AA		C	Key top (blank) (1×1)	○	○
4	JKNBZ6770RCZZ	AC		C	Key top (blank) (1×2)	○	○
	JKNBZ6751RCZZ	AB		C	Key top 1 (1×1)	○	○
	JKNBZ6752RCZZ	AB		C	Key top 2 (1×1)	○	○
	JKNBZ6753RCZZ	AB		C	Key top 3 (1×1)	○	○
	JKNBZ6754RCZZ	AB		C	Key top 4 (1×1)	○	○
	JKNBZ6755RCZZ	AB		C	Key top 5 (1×1)	○	○
	JKNBZ6756RCZZ	AB		C	Key top 6 (1×1)	○	○
	JKNBZ6757RCZZ	AB		C	Key top 7 (1×1)	○	○
	JKNBZ6758RCZZ	AB		C	Key top 8 (1×1)	○	○
	JKNBZ6759RCZZ	AB		C	Key top 9 (1×1)	○	○
	JKNBZ6777RCZZ	AB		C	Key top . (1×1)	○	○
	JKNBZ6778RCZZ	AB		C	Key top CL (1×1)	○	○
	JKNBZ6762RCZZ	AB		C	Key top 00 (1×1)	○	○
	JKNBZ6788RCZZ	AB		C	Key top @/FOR (1×1)	○	○
	JKNBZ6761RCZZ	AC		C	Key top "0" (1×2)	○	○
6	CFRM-6636RCZZ	AD		B	Key switch (J-F0432#01)(for 1×2 key)	○	○
7	PGIDM6680RCZZ	AD		B	Key guide (Dummy switch)(for 1×2 key)	○	○
8	CFRM-6632RCZZ	AD		B	Key switch (for 1×1 key)	○	○
9	0ALZ-D3008041	AA		C	Screw (for cashier switch)	○	○
10	0ALZ-B2004002	AA		C	Screw (2×4)	○	○
11	XUSSF30P06000	AA		C	Screw (3×6)	○	○
12	0AL501KBS-177	AX		C	Frame B (501KBS-177-90R)	○	○
13	0DUOPKEY00001	AG		B	Operator key (OP)	○	○
	0DUMakey00001	AG		B	Master key (MA)	○	○
14	0DUBODY000002	AP		B	Mode switch	○	○
15	0ALKBSE034805	AT		B	Cashier switch unit (KBS0101E034805)	○	○
16	0ALKBSE033804	AG		B	Slide switch unit (KBS0101E033804)	○	○
17	0AL523KBS-007	AB		C	Supporter (523KBS-007-02)	○	○
18	0ALKBSE033803	AX		E	PWB unit (KBS0101E033803)	○	○
19	0ALZ-D3020510	AA		C	Screw (Z-D3020-510)	○	○
20	0ALKBSE033801	AY		C	Element ass'y (KBS0101E033801)	○	○
21	0AL523KBS-009	AB		C	Supporter (523KBS-009-01)	○	○
22	LX-BZ6672RCZZ	AA		C	Screw with spacer	○	○
23	0AL207KBS-007	AK	N	C	Label set (207KAG-001-01R)	○	○
24	PSPAK2331RCZZ	AA		C	Spacer	○	○
25	LX-WZ6698RCZZ	AA		C	Washer	○	○
26	QCNW-7087RCZZ	AC		C	Earth wire for PWB	○	○
27	QCNW-7085RCZZ	AL		C	Earth wire with core	○	○
28	XNESD30-24000	AA		C	Nut	○	○
29	XBPSD30P08000	AA		C	Screw (3×8)	○	○
30	MSPRC6690RCZZ	AA		C	Spring	○	○
31	XWHNZ40-08100	AA		C	Washer	○	○
32	XBPRZ30P08000	AA		C	Screw (3×8)	○	○
33	QCNW-7079RCZZ	AC		C	Earth wire (to the drawer)	○	○
34	0AL453KBS-003	AL		C	Flat cable	○	○
101	LBNDJ0004UCZZ	AA		C	Band	○	○
102	UKOG-6635RCZZ	AX		C	Key stem (switch) remover	○	○
103	UKOG-6636RCZZ	AX		C	Key top remover	○	○
	(Unit)						
901	DUNT8872RCZZ	BQ	N	E	Keyboard unit	○	
	DUNT8873RCZZ	BR	N	E	Keyboard unit		○

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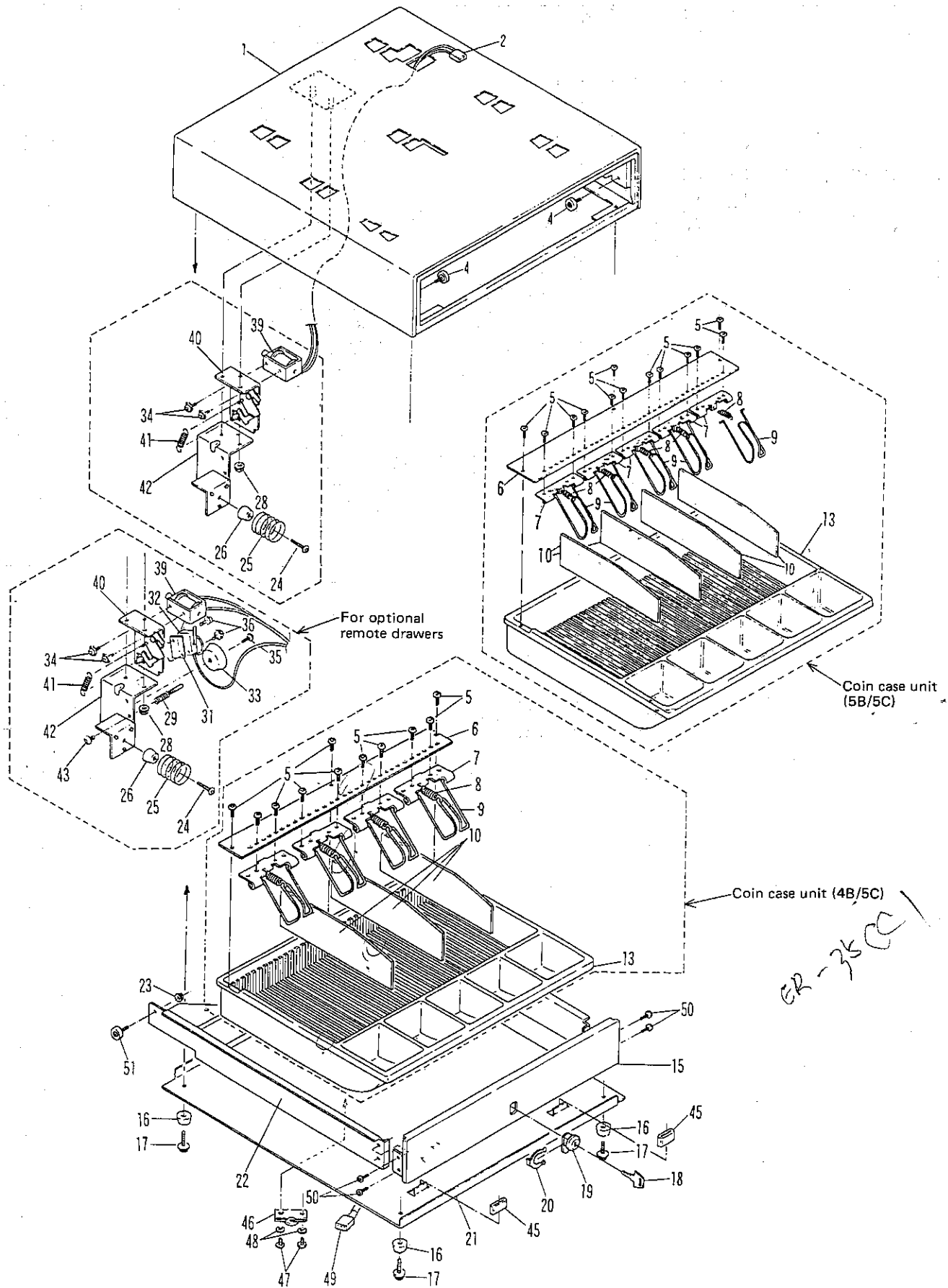
5 Drawer box unit

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION	STD DW	SRV OP
1	0AGGCM100SS42	BD		D	Drawer cabinet [U.S.A.]	○	
	0AGGCM104SS42	BD		D	Drawer cabinet(without holes on the top surface) [U.S.A.]		○
2	0AGQCW206MKSS	AE		B	Connector with wire (2pin)	○	
4	0AGNRP19B2000	AE		C	Roller	○	○
5	0AGXBD805304N	AA		C	Screw (3×4) [U.S.A.]	○	○
6	0AGLBC602MKSS	AG		C	Bill pressure bracket [U.S.A.]	○	○
7	0AGLBC603MKSS	AD		C	Bill pressure sub angle [U.S.A.]	○	○
8	0AGMST601MKSB	AB		C	Bill pressure spring	○	○
9	0AGMLV602MKSS	AD		C	Bill pressure lever	○	○
10	0AGPSR606MKSS	AE		C	Separator	○	○
13	0AGGCP606MKSS	AW		C	Coin case [U.S.A.]	○	○
15	0AGGDW403S423	AP		D	Drawer (Front) [U.S.A.]	○	○
16	0AGGLG800K230	AB		C	Rubber foot	○	○
17	0AGXBD201415S	AA		C	Screw (4×15)	○	○
18	0AGLKMDC60A01	AH		B	Lock key (1PC) [U.S.A.]	○	○
19	0AGDC60A-010S	AP		B	Lock key (body) [U.S.A.]	○	○
20	0AGMSK801MKSS	AE		C	Lock key spring	○	○
21	0AGGIU100SS42	AT		D	Bottom plate [U.S.A.]	○	○
	0AGGIU101SS42	AT		D	Bottom plate [U.S.A.]		○
22	0AGGDW409S423	AX		C	Drawer case	○	○
23	0AGLXZ801M6SP	AA		C	Spring nut (6mm)	○	○
24	0AGXBD803315S	AA		C	Screw (3×15)	○	○
25	0AGMST806423A	AC		C	Push out spring	○	○
26	0AGGLG8022017	AB		C	Stopper rubber (Rear)(K2017)	○	○
28	0AGLXZ800M4SP	AA		C	Nut (4mm)	○	○
29	0AGMLF230MKSS	AC		C	Bell hammer unit		○
31	0AGPSP200MKSS	AB		C	Insulator sheet		○
32	0AGQSW201MKSS	AM		B	Micro switch		○
33	0AGRAL202MKSS	AC		C	Bell		○
34	0AGXBD201306X	AA		C	Screw with washer (3×6)	○	○
35	0AGXBD801408W	AA		C	Screw with spring washer (4×8)		○
36	0AGXBD202314X	AA		C	Screw (3×14)		○
39	0AGRLU208MKSS	AN		B	Plunger	○	○
40	0AGMKS210MKSS	AK		C	Lock unit	○	○
41	0AGMST800MKSB	AB		C	Lock spring	○	○
42	0AGLCS202MKSS	AH		C	Unit chassis	○	○
43	0AGXBD806406N	AA		C	Screw		○
45	0AGLSG200MKSS	AB		C	Stopper rubber(Front)	○	○
46	0AGLDW200MKSS	AD		C	Holder		○
47	0AGXBD20038C1	AA		C	Screw		○
48	0AGXWD8003050	AA		C	Washer (3mm)		○
49	0AGQCW209MKSS	AN		C	Connector with wires		○
50	0AGXBD500306S	AA		C	Screw (3×6)	○	○
51	0AGNRP19B0010	AE		C	Roller	○	○
501	0AGCCP6065500	BA		E	Coin case unit (5B/5C) [U.S.A.]	○	○
	(Unit)						
901	GB0XD6886RCZZ	BN		E	Drawer box unit (5B/5C) [U.S.A.]	○	
	GB0XD7009RCZZ	BM	N	E	Drawer box unit (4B/5C) [Canada]	○	
	GB0XD6907RCZZ	BS		E	Drawer box unit (5B/5C) [U.S.A.]		○

NOTE 1: STD: Standard parts

SRV OP: Optional parts as service route

5 Drawer box unit



6 Main PWB unit

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION	ER 2385	ER 2395
1	LHLDW6777RCZZ	AB		C	Display holder	○	○
2	LX-BZ6644RCZZ	AA		C	Screw (3.5X8S)	○	○
3	PRDAF1032CCZZ	AE		C	Heat sink	○	○
4	QCNCM1101CCZZ	AB		B	Connector (2pin)	○	○
5	QCNCM1142CCZZ	AC		B	Connector	○	○
6	QCNCM6865RC01	AC		C	Connector (9pin)	○	○
7	QCNCM6865RC1A	AD		C	Connector (11pin)	○	○
8	QCNW-7087RCZZ	AC		C	Earth wire	○	○
9	QCNW6854RC3A	AH		C	Connector (31pin)	○	○
10	QCNW6893RC1A	AC		C	Connector (11pin)	○	○
11	QCNW6893RC1J	AD		C	Connector (10pin)	○	○
12	QCNW-7043RC01	AD		C	Lead wire	○	○
13	QFS-B0331QCZZ	AE		A	Fuse (2A/125V)	○	○
14	QFSHA1002CCZZ	AB		C	Fuse holder (MINI TYPE)	○	○
15	RALMB6639RCZZ	AH		B	Alarm (OS621B)	○	○
16	RC-EZ1034CCZZ	AH		C	Capacitor (45WV 2200μF)	○	○
17	RC-KZ1018CCZZ	AE		C	Capacitor (250WV 25pF)	○	○
18	RCRSP1003CCZZ	AT		B	Crystal (32KHz)	○	○
19	RCRSP6631RCZZ	AE		B	Crystal (3.0MHz)	○	○
20	RMPTC7473QCKB	AD		B	Block resistor (47KΩ×7 1/8W ±10%)	○	○
21	RMPTC8123QCKB	AD		B	Block resistor (12KΩ×8 1/8W ±10%)	○	○
22	RMPTC8272QCKB	AD		B	Block resistor (2.7KΩ×8 1/8W ±10%)	○	○
23	RTRNH1766CCZZ	AN		B	Converter transformer	○	○
24	RVR-MF310QCZZ	AC		B	Variable resistor (6.8KΩ)	○	○
25	RVR-M1515QCZZ	AB		B	Variable resistor (100KΩ)	○	○
26	RC-Z1N104RCZZ	AA		C	Capacitor	○	○
27	UBATN6639RCZZ	AS		B	Battery (170MA 2.4V)	○	○
28	VCCCPU1HH330J	AB		C	Capacitor (50WV 33pF)	○	○
29	VCEAGU1CW106M	AA		C	Capacitor (16WV 10μF)	○	○
30	VCEAGU1CW337M	AC		C	Capacitor (16WV 330μF)	○	○
31	VCEAGU1EW107M	AB		C	Capacitor (25WV 100μF)	○	○
32	VCEAGU1HW106M	AB		C	Capacitor (50WV 10μF)	○	○
33	VCEAGU1HW226M	AB		C	Capacitor (50WV 22μF)	○	○
34	VCEAGU1HW335M	AA		C	Capacitor (50WV 3.3μF)	○	○
35	VCEAGU1HW474M	AA		C	Capacitor (50WV 0.47μF)	○	○
36	VCKYPU1HB101K	AA		C	Capacitor (50WV 100pF)	○	○
37	VCKYPU1HB222K	AA		C	Capacitor (50WV 2200pF)	○	○
38	VQYKU1HM333K	AB		C	Capacitor (50WV 0.033μF)	○	○
39	VTYPU1NX104M	AB		C	Capacitor (12WV 0.10μF)	○	○
40	VHDDSS133HV-1	AA		B	Diode (DSS133HV)	○	○
41	VHD1N4002G/-1	AA		B	Diode (1N4002G)	○	○
42	VHD1D4B42/-1	AD		B	Diode (104B42)	○	○
43	VHD1SR124-200	AB		B	Diode (1SR124-200)	○	○
44	VHD1SS41B/-1	AB		B	Diode (1SS41B)	○	○
45	VHEHZ15-2/-1	AB		B	Zener diode (HZ15-2)	○	○
46	VHERD10EL2/-1	AB		B	Zener diode (RD10EL2)	○	○
47	VHERD5.1EL1-1	AB		B	Zener diode (RD5.1EL1)	○	○
48	VHH5KD5/-1	AB		B	Thermistor (5KD5)	○	○
49	VHILB1234/-1	AG		B	IC (LB1234)	○	○
50	VHILB1292/-1	AL		B	IC (LB1292)	○	○
51	VHISC1033C10X	BD	N	B	IC (SC1033C10X)	○	○
52	VHIUPD7507036	BC		B	IC (UPD7507036)	○	○
53	VRD-HT2EY272J	AA		C	Resistor (1/4W 2.7KΩ ±5%)	○	○
54	VRD-HT2EY683J	AA		C	Resistor (1/4W 68KΩ ±5%)	○	○
55	VRD-RC2EY101J	AA		C	Resistor (1/4W 100Ω ±5%)	○	○
56	VRD-RC2EY102J	AA		C	Resistor (1/4W 1.0KΩ ±5%)	○	○
57	VRD-RC2EY103J	AA		C	Resistor (1/4W 10KΩ ±5%)	○	○
58	VRD-RC2EY104J	AA		C	Resistor (1/4W 100KΩ ±5%)	○	○
59	VRD-RC2EY123J	AA		C	Resistor (1/4W 12KΩ ±5%)	○	○
60	VRD-RC2EY154J	AA		C	Resistor (1/4W 150KΩ ±5%)	○	○
61	VRD-RC2EY222J	AA		C	Resistor (1/4W 2.2KΩ ±5%)	○	○
62	VRD-RC2EY223J	AA		C	Resistor (1/4W 22KΩ ±5%)	○	○
63	VRD-RC2EY272J	AA		C	Resistor (1/4W 2.7KΩ ±5%)	○	○
64	VRD-RC2EY331J	AA		C	Resistor (1/4W 330Ω ±5%)	○	○
65	VRD-RC2EY392J	AA		C	Resistor (1/4W 3.9KΩ ±5%)	○	○
66	VRD-RC2EY477J	AA		C	Resistor (1/4W 4.7Ω ±5%)	○	○
67	VRD-RC2EY471J	AA		C	Resistor (1/4W 470Ω ±5%)	○	○
68	VRD-RC2EY472J	AA		C	Resistor (1/4W 4.7KΩ ±5%)	○	○
69	VRD-RC2EY563J	AA		C	Resistor (1/4W 56KΩ ±5%)	○	○
70	VRS-PT3DB221J	AB		C	Resistor (2W 220Ω ±5%)	○	○
71	VSDSC001-A/BC	AA		B	Transistor (DSC001-A/BC)	○	○
72	VS2SB1005/-1	AG		B	Transistor (2SB1005)	○	○
73	VS2SB926-S/TC	AD		B	Transistor (2SB926-S/TC)	○	○
74	VS2SC1983/-1	AH		B	Transistor (2SC1983)	○	○
75	VS2SD1769/-1	AE		B	Transistor (2SD1769)	○	○
76	VS2SC3784/-1	AD		B	Transistor (2SC3784)	○	○
77	VVKH9MT10ZY-1	AW		B	Display tube	○	○
78	XBPSD30P04000	AA		C	Screw (3×4)	○	○
79	QLUGE0002WCZZ	AB		C	Lug terminal	○	○
80	VCQYNU1HM103K	AA		C	Capacitor (50WV 0.01μF)	○	○

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PARTS CODE	NO.	PRICE RANK	NEW MARK	PART RANK
[C]				
CFRM-6632RCZZ	4- 8	AD		B
CFRM-6636RCZZ	4- 6	AD		B
CPWBF7055RC01	8- 2	AT		E
CPWBF7145RC01	2- 1	BT	N	E
//	6- 901	BT	N	E
[D]				
DKIT-8323RCZZ	8- 1			
DKIT-8324RCZZ	8- 4			
DKIT-8325RCZZ	8- 6			
DKIT-8356RCZZ	8- 10			
DPAPR1006CSZZ	7- 3	AR		S
DUNTK8872RCZZ	4- 901	BQ	N	E
DUNTK8873RCZZ	4- 901	BR	N	E
DUNTK8874RC01	1- 501	BA		E
[G]				
GBOXD6886RCZZ	5- 901	BN		E
GBOXD6907RCZZ	5- 901	BS		E
//	8- 14	BS		E
GBOXD7009RCZZ	5- 901	BM	N	E
GCABA6926RCZZ	2- 12	AW		D
GCABA7050RCZZ	2- 12	AW		D
GCABB6925RCZZ	1- 9	AV		D
GCABB7051RCZZ	1- 9	AU		D
GCABF6927RCZZ	1- 4	AH		D
GCOVA6887RCZA	1- 13	AQ		D
GCOVA6887RCZZ	1- 19	AL		D
GCOVA6954RCZA	1- 13	AL		D
GCOVA6954RCZZ	1- 19	AL		D
GCOVB6882RCZZ	8- 11	AW		D
GCOVB6882RC02	8- 11	AW		D
GFTAB6712RCZZ	1- 14	AC		D
GFTAB6714RCZZ	2- 4	AB		D
GFTAB6738RCZZ	1- 14	AC		D
GFTAB6739RCZZ	2- 4	AB		D
[H]				
HBDGD6852RCZZ	1- 12	AC	N	D
HBDGD6853RCZZ	1- 18	AC	N	D
HDECA6748RCZZ	1- 7	AG		D
HDECA6750RCZZ	1- 7	AG		D
HDECA6791RCZZ	1- 7	AG		D
HDECA6792RCZZ	1- 7	AG		D
[J]				
JKNBZ6751RCZZ	4- 5	AB		C
JKNBZ6752RCZZ	4- 5	AB		C
JKNBZ6753RCZZ	4- 5	AB		C
JKNBZ6754RCZZ	4- 5	AB		C
JKNBZ6755RCZZ	4- 5	AB		C
JKNBZ6756RCZZ	4- 5	AB		C
JKNBZ6757RCZZ	4- 5	AB		C
JKNBZ6758RCZZ	4- 5	AB		C
JKNBZ6759RCZZ	4- 5	AB		C
JKNBZ6761RCZZ	4- 5	AC		C
JKNBZ6762RCZZ	4- 5	AB		C
JKNBZ6766RCZZ	4- 3	AA		C
JKNBZ6767RCZZ	4- 1	AA		C
JKNBZ6770RCZZ	4- 4	AC		C
JKNBZ6771RCZZ	4- 2	AC		C
JKNBZ6777RCZZ	4- 5	AB		C
JKNBZ6778RCZZ	4- 5	AB		C
JKNBZ6788RCZZ	4- 5	AB		C
[K]				
KI-0B6730RCZZ	2- 15	CC	N	E
KI-0B6734RCZZ	2- 15	BY	N	E
[L]				
LBNDJ0004UCZZ	4- 101	AA		C
LHLDW6777RCZZ	6- 1	AB		C
LKGM7113RCZZ	3- 109	AK		B
LX-BZ1007CCZZ	2- 14	AB		C
LX-BZ6644RCZZ	6- 2	AA		C
LX-BZ6672RCZZ	4- 22	AA		C
LX-WZ0046FCZZ	2- 26	AA		C
LX-WZ6698RCZZ	2- 21	AA		C
//	4- 25	AA		C
[M]				
MSPRC6690RCZZ	4- 30	AA		C
[N]				
NR0LR6638RCZZ	7- 2	AY		S
[P]				
PCUS-4101CCZZ	2- 16	AB		C

PARTS CODE	NO.	PRICE RANK	NEW MARK	PART RANK
PCUSG1220CCZZ	2- 19	AB		C
PCUT-1027CCZZ	1- 16	AC		C
PFILW6852RCZZ	1- 8	AH	N	C
PFILW6853RCZZ	1- 1	AG	N	C
PFILW6854RCZZ	1- 8	AH	N	C
PFILW6855RCZZ	1- 1	AG	N	C
PGIDM6680RCZZ	4- 7	AD		B
PGUMM6263RCZZ	2- 17	AC		C
PGUMS6652RCZZ	1- 15	AB		C
PRDAF1032CCZZ	6- 3	AE		C
PSHEP6714RCZZ	8- 2	AC		C
PSHEP6681RCZZ	3- 3	AC		C
PSHEZ6718RCZZ	1- 17	AB		C
PSPAK2331RCZZ	4- 24	AA		C
PSPAY6643RCZZ	8- 2	AD		C
PSTM-6658RC01	2- 20	AR		C
[Q]				
QACCD8411QCZZ	2- 7	AN		B
QCNCM1101CCZZ	6- 4	AB		B
QCNCM1142CCZZ	6- 5	AC		B
//	8- 3	AC		B
QCNCM6699RCZZ	8- 3	AC		B
QCNCM6865RC0D	8- 2	AB		C
QCNCM6865RC0E	8- 2	AB		C
QCNCM6865RC0I	6- 6	AC		C
QCNCM6865RC1A	6- 7	AD		C
QCNCW6854RC3A	6- 9	AH		C
QCNCW6893RC1A	6- 10	AC		C
QCNCW6893RC1J	6- 11	AD		C
QCNCW6918RC09	1- 5	AH		C
QCNCW6918RC11	1- 6	AK		C
QCNCW6922RC01	8- 3	AE		C
QCNCW6922RC02	8- 3	AF		C
QCNCW-6919RCZZ	2- 11	AC		C
QCNCW-7043RC01	6- 12	AD		C
QCNCW-7079RCZZ	2- 30	AC		C
//	4- 33	AC		C
QCNCW-7085RCZZ	2- 29	AL		C
//	4- 27	AL		C
QCNCW-7087RCZZ	4- 26	AC		C
//	6- 8	AC		C
QFS-B0331QCZZ	6- 13	AE		A
QFSHA1002CCZZ	6- 14	AB		C
QKITF7051RCZZ	1- 3	AH		C
QLUGE0002WCZZ	6- 79	AB		C
QS0CZ6428ACZZ	6- 82	AE		C
QTANP0004HCZZ	2- 27	AB		C
QTANP1094CCZZ	2- 24	AA		C
[R]				
RALMB6639RCZZ	6- 15	AH		B
RC-EZ1034CCZZ	6- 16	AH		C
RC-KZ1018CCZZ	6- 17	AE		C
RC-Z1N104RCZZ	6- 26	AA		C
RCRSP1003CCZZ	6- 18	AT		B
RCRSP6631RCZZ	6- 19	AE		B
RMPTC7473QCKB	6- 20	AD		B
RMPTC8123QCKB	6- 21	AD		B
RMPTC8272QCKB	6- 22	AD		B
RTRNH1766CCZZ	6- 23	AN		B
RTRNP6765RCZZ	2- 9	AW		B
RVR-MF310QCZZ	6- 24	AC		B
RVR-M1515QCZZ	6- 25	AB		B
[S]				
SPAKA7605RCZZ	3- 1	AM		D
SPAKA7606RCZZ	3- 2	AM		D
SPAKC7792RCZZ	3- 4	AP	N	D
SPAKC7793RCZZ	3- 4	AP	N	D
SSAKA5004CCZZ	3- 102	AA		D
SSAKH3012CCZZ	3- 6	AA		D
SSAKH3015CCZZ	3- 5	AA		D
[T]				
TCADH6653RCZZ	3- 103	AB		D
TCADH6654RCZZ	3- 103	AB		D
TCADH6660RCZZ	3- 107	AF		D
TCAUA6655RCZZ	3- 108	AA		D
TCAUS1150CCZZ	3- 106	AA		D
TINSE7143RCZZ	3- 104	AR	N	D
TINSK7149RCZZ	3- 104	AX	N	D
[U]				
UBATN6639RCZZ	6- 27	AS		B

PARTS CODE	NO.	PRICE RANK	NEW MARK	PART RANK
UBNDA1008CCZZ	3- 105	AA		C
UINK-1001CCZZ	3- 101	AK		S
//	7- 1	AK		S
UKOG-6635RCZZ	4- 102	AX		C
UKOG-6636RCZZ	4- 103	AX		C
[V]				
VCCCPU1HH330J	6- 28	AB		C
VCEAGU1CW106M	6- 29	AA		C
VCEAGU1CW337M	6- 30	AC		C
VCEAGU1EW107M	6- 31	AB		C
VCEAGU1HW106M	6- 32	AB		C
VCEAGU1HW226M	6- 33	AB		C
VCEAGU1HW335M	6- 34	AA		C
VCEAGU1HW474M	6- 35	AA		C
VCKYPU1HB101K	6- 36	AA		C
VCKYPU1HB222K	6- 37	AA		C
VQYKU1HM333K	6- 38	AB		C
VCQYNU1HM103K	6- 80	AA		C
VCTYPU1NX104M	6- 39	AB		C
VHDDSS133HV-1	6- 40	AA		B
VHD1D4B42//--1	6- 42	AD		B
VHD1N4002G/--1	6- 41	AA		B
VHD1SR124-200	6- 43	AB		B
VHD1SS41B//--1	6- 44	AB		B
VHEHZ15-2//--1	6- 45	AB		B
VHERD10EL2/--1	6- 46	AB		B
VHERD5.1EL1-1	6- 47	AB		B
VHH5KD5////--1	6- 48	AB		B
VHILB1234//--1	6- 49	AG		B
VHILB1292//--1	6- 50	AL		B
VHIM54532P/--1	8- 3	AU		B
VHISC1033C10X	6- 51	BD	N	B
VHITC4081BP-1	8- 3	AE		B
VHIULN2004A-1	6- 83	AL		B
VHIUPD7507036	6- 52	BC		B
VHI27256RBU1A	6- 81	BB	N	B
VRD-HT2EY104J	6- 84	AA		C
VRD-HT2EY272J	6- 53	AA		C
VRD-HT2EY683J	6- 54	AA		C
VRD-RC2EY101J	6- 55	AA		C
VRD-RC2EY102J	6- 56	AA		C
VRD-RC2EY103J	6- 57	AA		C
VRD-RC2EY104J	6- 58	AA		C
VRD-RC2EY123J	6- 59	AA		C
VRD-RC2EY153J	8- 3	AA		C
VRD-RC2EY154J	6- 60	AA		C
VRD-RC2EY222J	6- 61	AA		C
VRD-RC2EY223J	6- 62	AA		C
VRD-RC2EY272J	6- 63	AA		C
VRD-RC2EY331J	6- 64	AA		C
VRD-RC2EY392J	6- 65	AA		C
VRD-RC2EY4R7J	6- 66	AA		C
VRD-RC2EY471J	6- 67	AA		C
VRD-RC2EY472J	6- 68	AA		C
VRD-RC2EY563J	6- 69	AA		C
VRS-PT3DB221J	6- 70	AB		C
VSDSC001-A/BC	6- 71	AA		B
VS2SB1005--1	6- 72	AG		B
VS2SB926-S/TC	6- 73	AD		B
VS2SC1983//--1	6- 74	AH		B
VS2SC3784--1	6- 76	AD		B
VS2SD1769--1	6- 75	AE		B
VVKH9MT10Z/-1	1- 2	AY		B
VVKH9MT10ZY-1	6- 77	AW		B
[X]				
XBBSC30P12000	1- 10	AA		C
XBPBZ40P06K00	2- 25	AA		C
XBPRZ30P08000	4- 32	AA		C
XBPSD30P04000	6- 78	AA		C
XBPSD30P08KS0	2- 6	AA		C
XBPSD30P08000	4- 29	AA		C
XBPSD30P10KS0	2- 18	AB		C
XBPSD40P06000	2- 13	AA		C
XFPSD30P08000	2- 10	AA		C
XNESD30-24000	2- 5	AA		C
//	4- 28	AA		C
XUBSD30P08000	2- 2	AA		C
XUPSD30P25000	8- 2	AA		C
XUSSF30P06000	4- 11	AA		C
XWHNZ40-08100	4- 31	AA		C

PARTS CODE	NO.	PRICE RANK	NEW MARK	PART RANK
[0]				
0AGCCP6065500	5- 501	BA		E
0AGDC60A-010S	5- 19	AP		B
0AGGCM100SS42	5- 1	BD		D
0AGGCM104SS42	5- 1	BD		D
0AGGCP606MKSS	5- 13	AW		C
0AGGDW403S423	5- 15	AP		D
0AGGDW409S423	5- 22	AX		C
0AGGiU100SS42	5- 21	AT		D
0AGGiU101SS42	5- 21	AT		D
0AGGLG800K230	5- 16	AB		C
0AGGLG8022017	5- 26	AB		C
0AGLBC602MKSS	5- 6	AG		C
0AGLBC603MKSS	5- 7	AD		C
0AGLCS202MKSS	5- 42	AH		C
0AGLDW200MKSS	5- 46	AD		C
0AGLKMD60A01	5- 18	AH		B
0AGLSG200MKSS	5- 45	AB		C
0AGLXZ800M4SP	5- 28	AA		C
0AGLXZ801M6SP	5- 23	AA		C
0AGMKS210MKSS	5- 40	AK		C
0AGMLF230MKSS	5- 29	AC		C
//	8- 5	AC		C
0AGMLV602MKSS	5- 9	AD		C
0AGMSK801MKSS	5- 20	AE		C
0AGMST601MKSB	5- 8	AB		C
0AGMST800MKSB	5- 41	AB		C
0AGMST806423A	5- 25	AC		C
0AGNRP19B0010	5- 51	AE		C
0AGNRP19B2000	5- 4	AE		C
0AGPSP200MKSS	5- 31	AB		C
//	8- 7	AB		C
0AGPSR606MKSS	5- 10	AE		C
0AGQCW206MKSS	2- 3	AE		B
//	5- 2	AE		B
0AGQCW209MKSS	5- 49	AN		C
0AGQCW230MKSS	8- 7	AE		C
0AGQSW201MKSS	5- 32	AM		B
//	8- 7	AM		B
0AGRAL202MKSS	5- 33	AC		C
//	8- 5	AC		C
0AGRLU208MKSS	5- 39	AN		B
0AGXBD20038C1	5- 47	AA		C
0AGXBD201306X	5- 34	AA		C
0AGXBD201415S	5- 17	AA		C
0AGXBD202314X	5- 36	AA		C
//	8- 7	AA		C
0AGXBD500306S	5- 50	AA		C
0AGXBD801408W	5- 35	AA		C
//	8- 5	AA		C
0AGXBD803315S	5- 24	AA		C
0AGXBD805304N	5- 5	AA		C
0AGXBD806406N	5- 43	AA		C
//	8- 5	AA		C
0AGXWD8003050	5- 48	AA		C
0ALKBSE033801	4- 20	AY		C
0ALKBSE033803	4- 18	AX		E
0ALKBSE033804	4- 16	AG		B
0ALKBSE034805	4- 15	AT		B
0ALZ-B2004002	4- 10	AA		C
0ALZ-D3008041	4- 9	AA		C
0ALZ-D3020510	4- 19	AA		C
0AL207KBS-007	4- 23	AK	N	C
0AL453KBS-003	4- 34	AL		C
0AL501KBS-177	4- 12	AX		C
0AL523KBS-007	4- 17	AB		C
0AL523KBS-009	4- 21	AB		C
0DUBODY000002	4- 14	AP		B
0DUMAKEY00001	4- 13	AG		B
0DUOPKEY00001	4- 13	AG		B
[D]				
DUNT8875RC01	1- 502	BA	N	E