OPTION UNIT PROGRAMMING MANUAL

FOR

MODEL ET-7626/7626F

(TYPE NAME:MR-1)

TABLE OF CONTENTS

(REMARK)
The contents of this manual are subject to change without prior notice.

I. INTRODUCTION

In the models ET-7626/7626F, following option units can be connected to the cash register by installing the Serial I/O Inteface Board.

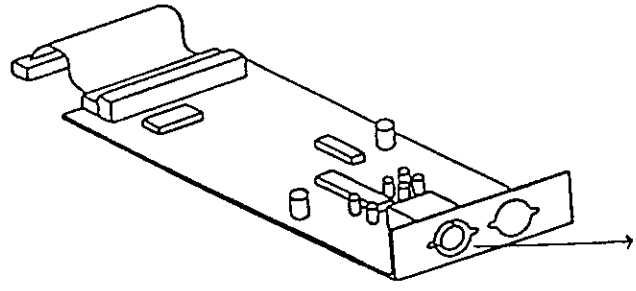
Option Units: Bar Code Reader Unit
Back Up Cassette
Personal Computer
80 Column Dot Printer etc.

II. SERIAL I/O INTERFACE BOARD

There are two types of the interface boards.
one is "Serail I/O Board #2" and another is "Serail I/O Board #1".

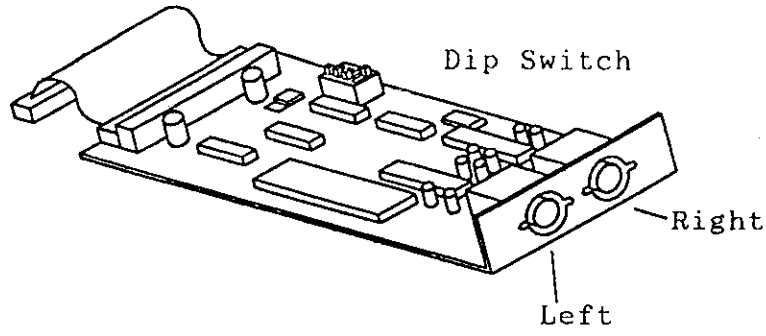
A) Serial I/O Board #2 (EA01-AZ001A)
1 pc. of this board (PCB: B-1069) is already installed in the cash register by the manufactuer and able to connect to one of these option units.

Setting Flag Numbers A : 85
B : 86

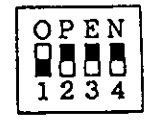


B) Serial I/O Board #1 (ZA100148)
This is used when more than 2 units of option units are connected to the cash register.
By using 1 pc. of this board, 2 units of option units can be connected to the cash register and Max. 3 pcs. of this board #1 can be installed in the cash register.

"ON" position of Dip Switch		1		2		3	
Connect position from behind the register		Left	Right	Left	Right	Left	Right
Setting Flag Numbers	A	87	89	91	93	95	97
	B	88	90	92	94	96	98



Dip Switch



II-I. BAR CODE READER UNIT (ZA100090)

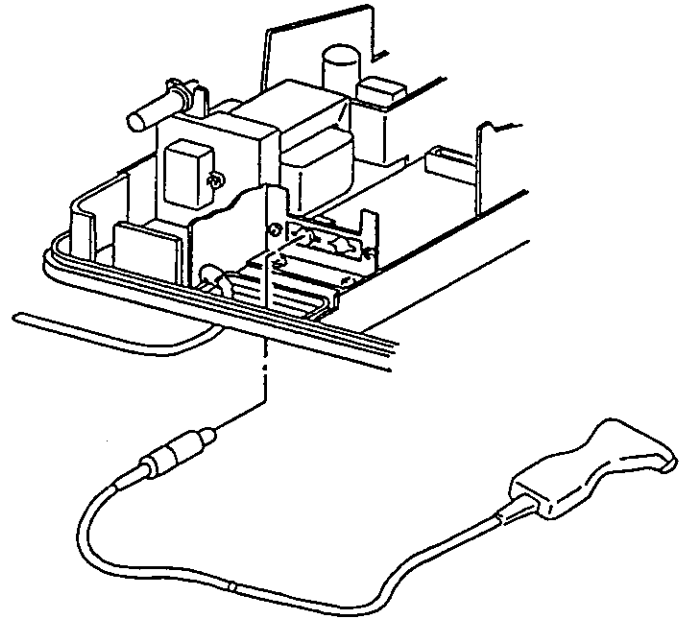
* Used to read bar code of the goods and transmit the datas to the cash register automatically.

II-1-1. Necessary parts and Parts number

Bar Code Reader	BP01-AD007A	1 pc.
Stand	BP01-AD008A	1 pc.
Core	Y-283	1 pc.
Tie Band	MY-15	

II-1-2. Connection

* Connect to the Serial I/O Board #1 or #2



II-1-3. Operation Procedure

A) Programming of Main Flag Control Lock: P2
(Programming overlay sheet is used)
EX. Serial I/O Board #2
Main Flag 1 Bit 7 and 8, Option 1

Step	Operation	Display
1)	[CLEAR] (1) [STRT]	MAIN FLAG
2)	[SLCT]	MAIN FLAG
3)	[INPUT]	1MAIN FLAG 00 0
4)	(1)(1)(0)(0)(0)(0)(0)(0)	1MAIN FLAG 00 11000000
5)	[INPUT]	2MAIN FLAG 00 0
	Set flag nmber A	
6)	(8)(5) [DSGN]	85MAIN FLAG 52
7)	(5)(1)	85MAIN FLAG 51
8)	[INPUT]	86MAIN FLAG 37 110111
	Set flag number B	
9)	(1)(0)(0)(1)(1)(1)	86MAIN FLAG 37 100111
10)	[INPUT]	87MAIN FLAG 0

After programmed, turn off and give an interval of about 5 seconds before power on

B) Programming of Bar Code for PLU

* Control lock: P1
(Programming overlay sheet is used)
Setting :

PLU Number	Name	Bar Code	Price
PLU 1	SILK CUT	27400403	$2.50
PLU 2	KENT	27400373	$2.50
PLU 3	SEVEN STAR	49400458	$2.50

1) Programming of Bar code

Step	Operation	Display
1)	[CLEAR] (3) [STRT]	PLU ?
2)	[SLCT]	CODE
3)	[INPUT]	1

* There are two ways to input.
a) Enter Bar code to the keyboard unit and press [INPUT] key.
b) Scan a bar code by Bar Code Reader

* In case of above item a)

4)	(2)(7)(4)(0)(0)(4)(0)(3)	27400403 1
5)	[INPUT]	2

* In case of above item b)

6)	Scan a bar code	3

* Same procedure is performed for other items.

2) Programming of Name (i.e. KENT)

Step	Operation	Display
1)	[CLEAR] (3) [STRT]	PLU ?
2)	[SLCT] [SLCT]	NAME
3)	[INPUT]	PLU00001 1
4)	Scan a Bar code	PLU00002 2
5)	[CPTL LETTER] (K)(E)(N)(T)	KENT 2
6)	[INPUT]	PLU00003 3

* Same procedure is performed for other items.

C) Temporary Programming of Non-Programmed Items during Registration

Step	Operation		Display
1)	Scan a non-programmed bar code		PRICE ?
			0
2)	Enter Unit Price		
	(1)(0)(0)	[PLU ENT]	DEPT ?
			100
3)	Enter Quantity, if multiple		
	(5)	[Q/F]	DEPT ?
			5
4)	Enter Department		
		[DEP 1]	DEPT 001
			500
5)		[CASH TEND]	CASH
			500

* If cancellation is requested after programming of abobe step 1), press [CLEAR] [RLS] [CLEAR] key.

* Print Confirmation
  Control Lock: P1 (Programming overlay is used)

  (3) (STRT) (SLCT) (F) (PRNT)

(Note)
In the model ET-7626F, program [PLU ENT] key in advance

II-2. BACK-UP CASSETTE UNIT

(ZA100143 [117V], ZA100144 [220V], ZA100145 [240V])

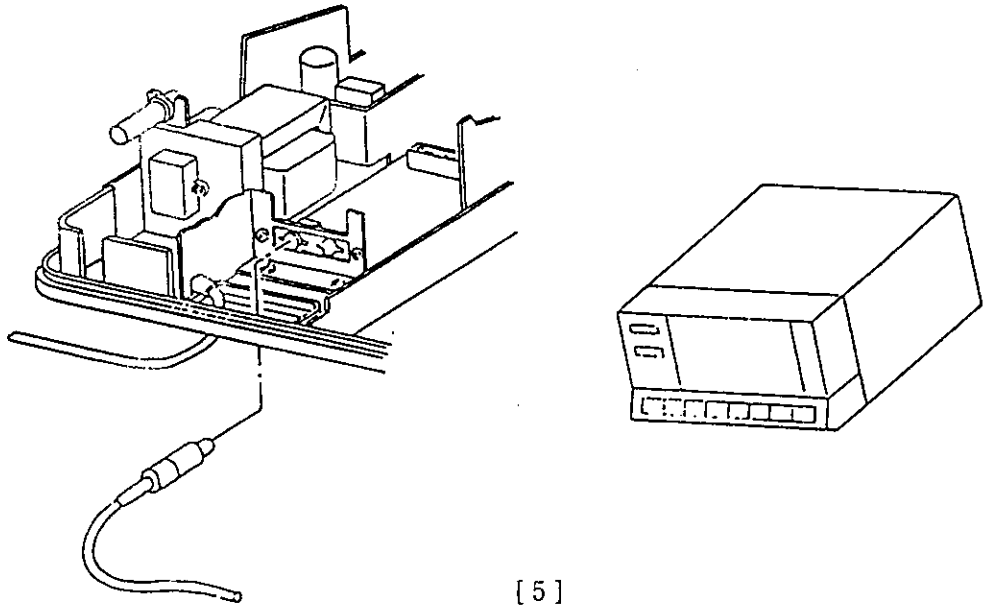
* Used to store programming data of department and PLU.
* Programming datas of the cash register is recovered at any time by using the back up cassette unit, when memories of the cash register have been lost.

II-2-1. Necessary parts and parts number

Cassette Unit (AIWA DR-150)	BP01-AD003A	1 pc.
Cross-Cable	J-2189	1 pc.

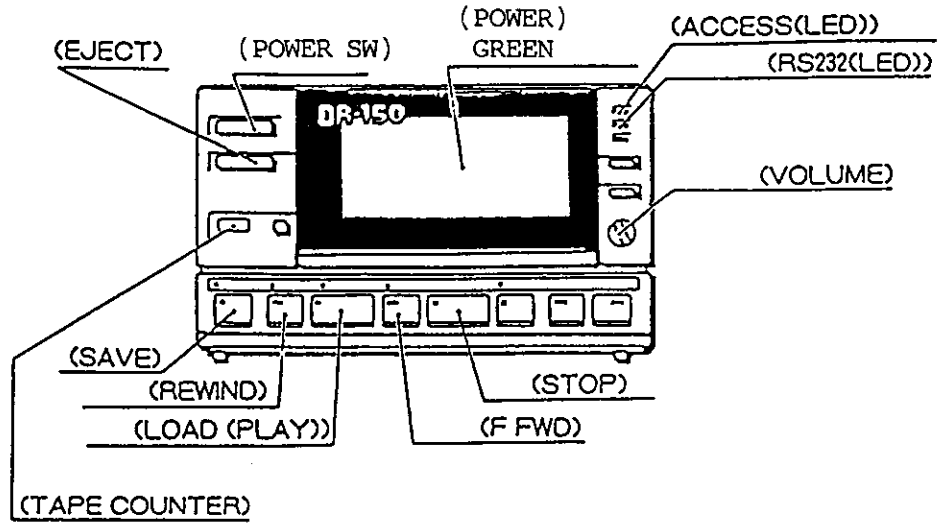
II-2-2. Connection

Connect to the Serial I/O Board #1 or #2



II-2-3. Operation

3-1 Setting of Cassette Unit



1) Connect the cross cable to the cash register
2) Plug-in the power cable of the cassette unit and turn on the power switch.
3) Insert a cassette tape into the cassette unit
4) Rewind the cassette tape for precaution
   Operation: press [STOP] and [REWIND] button
5) After rewinding, press [LOAD (PLAY)] button.
   ("READ" conditions is ready)

* When you want to make a "WRITING" condition, press [STOP] and [SAVE] button after rewinding.

3-2 Operation with cash register

A. Initial Programming
* Serial I/O Board #2 is used.
  (In case of S. I/O Board #1, refer page 1 item II-B.
* setting Flag Number A = 52
  B = 110111
* Control Lock: P2
* Programming overlay sheet is used

Step	Operation	Display
1)	[CLEAR] (1) [STRT]	MAIN FLAG
2)	[SLCT]	MAIN FLAG
3)	(8)(5) [DSGN]	85MAIN FLAG 52
4)	(5)(2)	85MAIN FLAG 52

5)	[INPUT]	86MAIN FLAG 37 110111
6)	(1)(1)(0)(1)(1)(1)	86MAIN FLAG 37 110111
7)	[INPUT]	87MAIN FLAG 0

* After programmed, turn off and give an interval of about 5 seconds before power on.

B. "WRITING" of Programming Data

Step Operation

1) Insert the cassette tape into the unit
2) After rewinding, be ready for "WRITING" condition
3) Set the control lock to "P2" position
4) put the programming overlay sheet on the keyboard unit and operate;
   [CLEAR](1)[STRT][SLCT][CMT][WRT]
5)
   a: When "WRITING" starts, message of [CMT WRITE START] is displayed.
   b: When "WRITING" ends, message of [CMT WRITE END] is displayed.
6) Rewind the cassette tape.
   Press [STOP] and [REWIND] button

C. "READ" of Programming Data

Step Operation

1) Insert the cassette tape into the unit
2) After rewinding, be ready for "READ" condition
3) Set the control lock to "P2" position
4) put the programming overlay sheet on the keyboard unit and operate;
   [CLEAR](1)[STRT][SLCT][CMT][READ]
5)
   a: When "READ" starts, message of [CMT READ START] is displayed.
   b: When "READ" ends, message of [CMT READ END] is displayed.
6) Rewind the cassette tape.
   Press [STOP] and [REWIND] button

D. "WRITING" of Periodical Sales Data, Invenory Data and Guest Data

* Used to recover datas when cash register is trouble.
* Saving (WRITING) is executed automatically while issuing the Full Z-Report by pressing [CASH TEND] key.
* Main Flag 4 is used for this programming.

Main Flag 4

Bit	8	7	6	5	4	3	2	1	
Option	0	0	0	0	1	1	0	0	(Standard)

Bit	Function	Option
8	Record Guest Data on Cassette Unit	0 = NO 1 = YES
7	Record Periodical Sales Data on Cassette Unit	0 = NO 1 = YES
5	Record Inventory Data on Cassette Unit	0 = NO 1 = YES

Operation Example (Control Lock: P2)

Main Flag 4

Bit	8	7	6	5	4	3	2	1
Option	0	1	0	1	1	1	0	0

Step	Operation	Display
1)	[CLEAR] (1) [STRT]	MAIN FLAG
2)	[SLCT]	MAIN FLAG
3)	(4) [DSGN]	4MAIN FLAG
		0C 1100
4)	(1)(0)(1)(1)(1)(0)(0)	4MAIN FLAG
		1011100
5)	[INPUT]	5MAIN FLAG
		10 10000

(REMARK)

1. Sales datas are transmitted to the cassette unit while printing out the sales reports, when [CASH TEND] key is pressed for reset of daily sales report.
2. Saving Time

Inventory Data	(PLU10000)	About 8 minutes
Perodical Sales Data	(PLU10000)	About 8 minutes
Guest Data	(500 guests)	About 20 minutes

3. Saving Capacity of cassette tape (one way) About 45 minutes

E. "READING" of Periodical Sales Data, Inventory Data and Guest Data

* Used to read datas when cash register is repaired.

Control Lock: P2

Step Operation

1) Perform system initialization.
2) Connect the cassette unit to the cash register
3) insert the "Cassette tape for Programming Data" into the unit
4) [CLEAR] (1) [STRT] [SLCT] [CMT] [READ]
5) After "READING", set the "Cassette tape for Sales Data" to the unit.
6) [CLEAR] (1) [STRT] [SLCT] [CMT] [READ]
7) Memories of the cash register have been recovered

II-3. PERSONAL COMPUTER (P.C.)

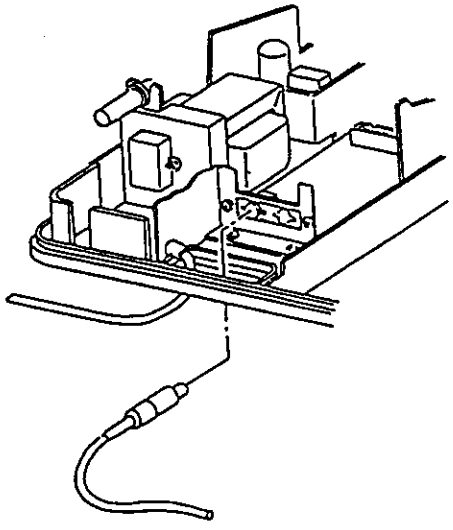
* Used to compile sales data, inventory data and guest data
* For this function, special soft ware is required.
  Please consult with our dealer for more details.

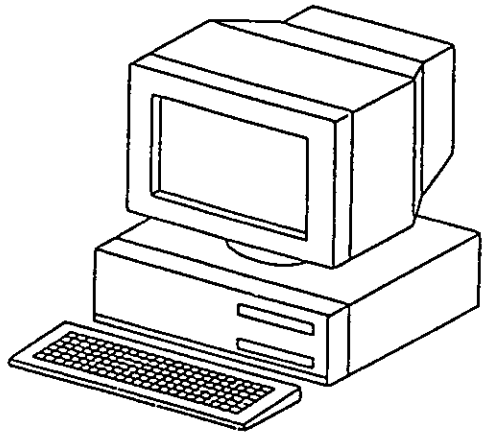
II-3-1. Necessary parts and parts name

Straight Cable J-2190 1 pc.

II-3-2. Connection

Connected to the Serial I/O Board #1 or #2





II-3-3. Programming of Main Flag

* Serial I/O Board #2 is used
  (In case of S.I/O Board #1, please refer page 1 item II-B)

EX.

1) Main Flag 85

Bit [-] [-]
A B

Bit	Function	Option	Note
A	Transmission Speed	0: 600 bps	(S.I/O #1 = 300 bps)
		1: 600 bps	
		2: 1200 bps	
		3: 2400 bps	
		4: 4800 bps	
		5: 9600 bps	
		6: 19200 bps	
B	Option Unit	1: Bar Code Reader	
		2: Back Up Cassette Unit	
		3: Personal Computer	

2) Main Flag 86

Bit	8	7	6	5	4	3	2	1
Option	0	0	1	1	0	1	1	1

Bit	Function	Option	Note
6&5	Character	00: 7 bit	(S.I/O #1 = 5 bit)
		01: 8 bit	(S.I/O #1 = 6 bit)
		10: 7 bit	
		11: 8 bit	
4&3	Stop Bit	00: 1 bit	
		01: 1 bit	
		10: 2 bit	(S/I/O #1 = 1.5 bit)
		11: 2 bit	
2	Parity Check	0: Odd	
		1: Even	
1	Parity	0: Disable	
		1: Enable	

* After programmed, turn off and give an interval of about 5 seconds before power on.

II-4. 80 COLUMN DOT PRINTER

* Used to print out full reports of departments and PLUs.

II-4-1. Necessary parts and parts number

Connector Cable	J-2190	1 pc..

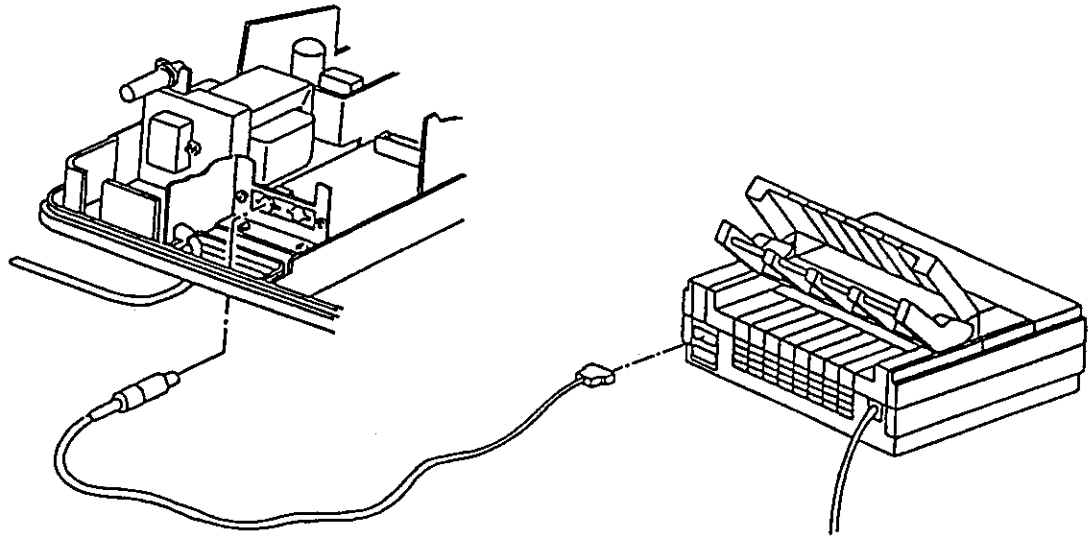
(Note): 80 Column dot printer with RS-232C interface board assy should be procured locally.

II-4-2. Initial programming

In case that 80 column printer connected through RS-232C is used, its BAUD RATE, CHARACTER LENGTH, STOP BIT, PARITY CHECK, etc., must be programmed correctly.
Please preset the printer appropriately in compliance with its users' manual.

II-4-3. Connection

Connect to the Serial I/O Board #1.
(Serial I/O Board #2 is not used)



II-4-4. Operation Example Control Lock: P2
(Programming overlay is used)

* "ON" Position of Dip Switch on Serial I/O Board #1 : 1
* Connect Position from behind the cash register : Left
* Setting Flag Number: Main flag 87 = 47
  Main flag 88 = 110010

Step	Operation	Display
1)	[CLEAR] (1) [STRT]	MAIN FLAG
2)	[SLCT]	MAIN FLAG
3)	(8)(7) [DSGN]	87MAIN FLAG 0
4)	(4)(7)	87MAIN FLAG 47
5)	[INPUT]	88MAIN FLAG 00 0
6)	(1)(1)(0)(0)(1)(0)	88MAIN FLAG 00 110010
7)	[INPUT]	89MAIN FLAG 0
8)	In order to operate 80 column dot printer, programm Main Flag 2, Bit 8 to Option 1	
	(2) [DSGN]	2MAIN FLAG 00 0
9)	Enter flag number (1)(0)(0)(0)(0)(0)(0)(0)	2MAIN FLAG 00 10000000
10)	[INPUT]	3MAIN FLAG 00 0

* After programmed, turn off and give an interval of about 5 seconds before power on.

II-5. MODEM

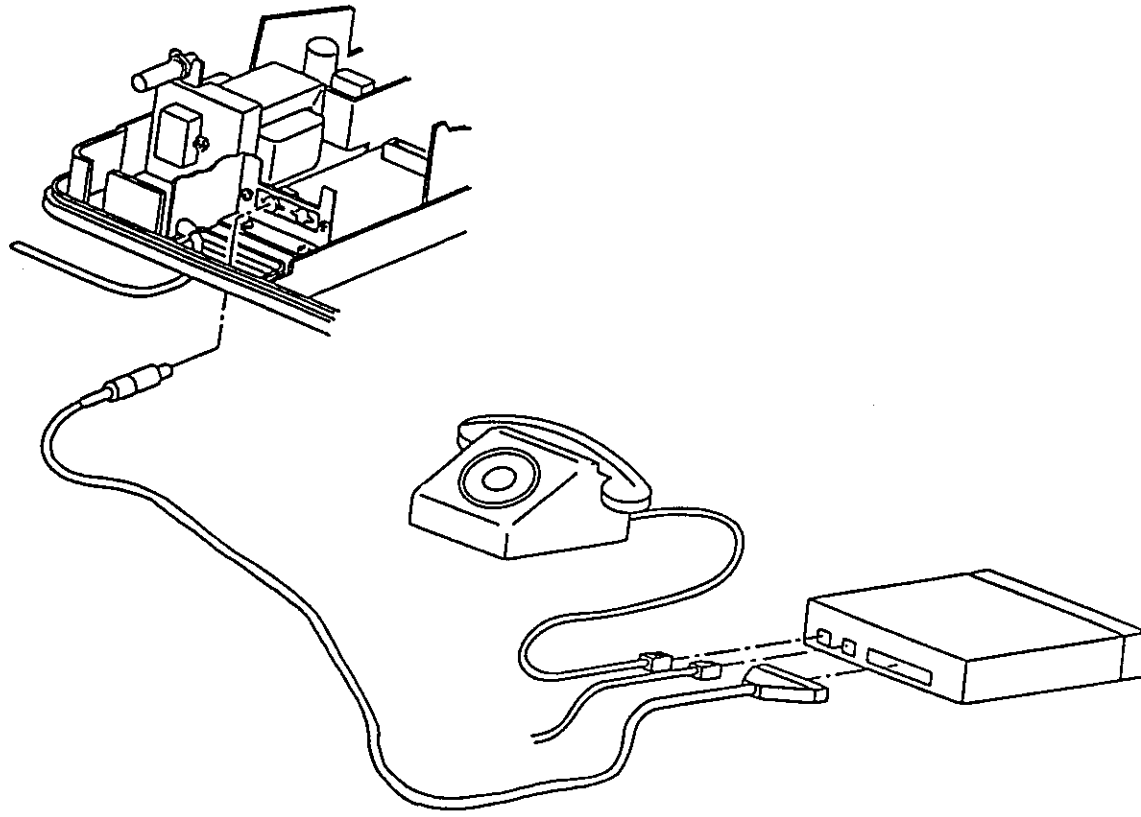
* Used to transmit sales datas to other places by using telephone number.
* Transmittable datas are:
  Sales and inventory datas of departments and PLUs.
  All transaction datas.
  Hourly net sales datas etc.

II-5-1. Necessary parts and parts number

Connector cable J-2261 (General purpose)
(NOTE): Modem unit should be procured locally.

II-5-2. Connection

Connect to Serial I/O Board #1
(Serial I/O Board #2 is not used)



II-5-3. Operation Example Control Lock: P2

3-1 Programming of Main Flag
(Programming overlay sheet is used)

"ON" position of Dip Switch on S.I/O #1 : 1
Connect position from behind the cash register: Left
Setting Flag Number : Main Flag 87 = 35
Main Flag 88 = 110110

Step	Operation	Display
1)	[CLEAR] (1) [STRT]	MAIN FLAG
2)	[SLCT]	MAIN FLAG
3)	(8)(7) [DSGN]	87MAIN FLAG 0
4)	(3)(5)	87MAIN FLAG 35
5)	[INPUT]	88MAIN FLAG 00 0
6)	(1)(1)(0)(1)(0)(0)	88MAIN FLAG 00 110100
7)	[INPUT]	89MAIN FLAG 0

In order to transmitt the sales datas, programm Main Flag 31, Bit 3 & 1 to Option 1

8)	(3)(1) [DSGN]	31MAIN FLAG	00 0
9)	(1)(0)(1)	31MAIN FLAG	00 101
10)	[INPUT]	32MAIN FLAG	02 10

* After programmed, turn off and give an interval of about 5 seconds before power on.

3-2 Initial programming for Modem
1) Connect the modem to the cash register with cable
2) Power on the switch of modem and cash register in that order
3) Lamp of "AA", "2400", "DTR" lights on first and lamp of "DCD", "TXD", "RXD" lights off later
(Programming is over)

3-3 Programming of Modem Control Control Lock: P2
(Programming overlay is used)

Step	Operation	Display
1)	[CLEAR] (6) [STRT]	MODEM CONTROL
2)	[SLCT]	MODEM
3)	[INPUT]	&F
4)	[INPUT]	OK &F
		EO
5)	[INPUT]	OK EO
		SO=2

6)	[INPUT]	OK	SO=2
7)	[INPUT]	OK	&C1 &C1
8)	[INPUT]	OK	&D2 &D2
9)	[INPUT]	OK	&M4 &M4
10)	[INPUT]	OK	&W &W

3-4 Stores of Modem Memory

* In order to send sales data to the modem unit, the sales data must be once stored in the "Modem Memory" of the cash register.
* In order to store in the "Modem Memory", Maximum value of the PLU and guest must be programmed in advance to meet the following formula.
* Addtional expansion memory must be installed to meet the formula.
* Maximum memory capacity is 1,081,344

$$1{,}081{,}344 \geqq (A \times 99) + (B \times C) + 36{,}510$$

A : PLU Number
B : Guest Number
C : Memory of details of guests 65 = NO
                                 75 = YES

i.e.
In case of memorizing of PLU number only.

$$1{,}081{,}344 \geqq (A \times 99) + (0 \times 0) + 36{,}510 \quad \text{----->}$$
$$1{,}081{,}344 - 36{,}510 \geqq (A \times 99) \quad \text{----->}$$
$$1{,}044{,}834 \geqq (A \times 99) \quad \text{----->} \quad 1{,}044{,}834 \quad 99 \geqq A$$
$$\text{----->} \quad 10{,}553.87.. \geqq A$$

As the result, Max. 10,553 PLUs are able to use.

3-5 Operation

A. Sales datas which can be transmitted to the modem unit are:
   1. Data of all departments and transactions
   2. Data of Hourly net sales
   3. Data of Parties
   4. Data of all PLUs

Item 1)2)3) can be transmitted at the same time with one operation

B. Operation procedure
Following three operations are required.

a) Memory operation to the modem memory
Memorize sending datas in the modem memory by the sender.
(in case of master/slave connection, it also shall be memorized in the master unit)
b) Read operation
Read sending datas by the receiver.
c) Report operation
Print out the sending datas by the receiver.

1) Memory operation to the modem memory
Control Lock: X2

* In case of Master/Slave connection

EX.
1-1. Data of departments and transactions / data of hourly net sales / data of parties.

[RLS] [R/A] [P/O] [CASH TEND]

1-2. Data of all PLUs

[RLS] [R/A] [P/O] [PLU]

2) Read operation
Control Lock: X2

EX.
2-1. Data of departments and transactions / data of hourly net sales / data of parties.

[HOLD] (enter telephone number of the receiver) [CASH TEND]

2-2. Data of all PLUs

[HOLD] (enter telephone number of the receiver) [PLU]

** telephone number shall be entered on the keyboard of the cash register

2-3. Redial

You can enter "0" instead of telephone number from 2nd time for the same receiver.

[HOLD] (0) [PLU]

3) Report operation
Control Lock: X1

EX. Print out of the data of PLUs

[RETURN] [RLS] [PLU]

* When read operation does not end or want to interrupt on half way, press:
"DATA" switch of the modem unit.

II-6. FLAT BED SCANNER SET

* used to scan bar code with bar code reader and transmitt the data to cash register automatically.

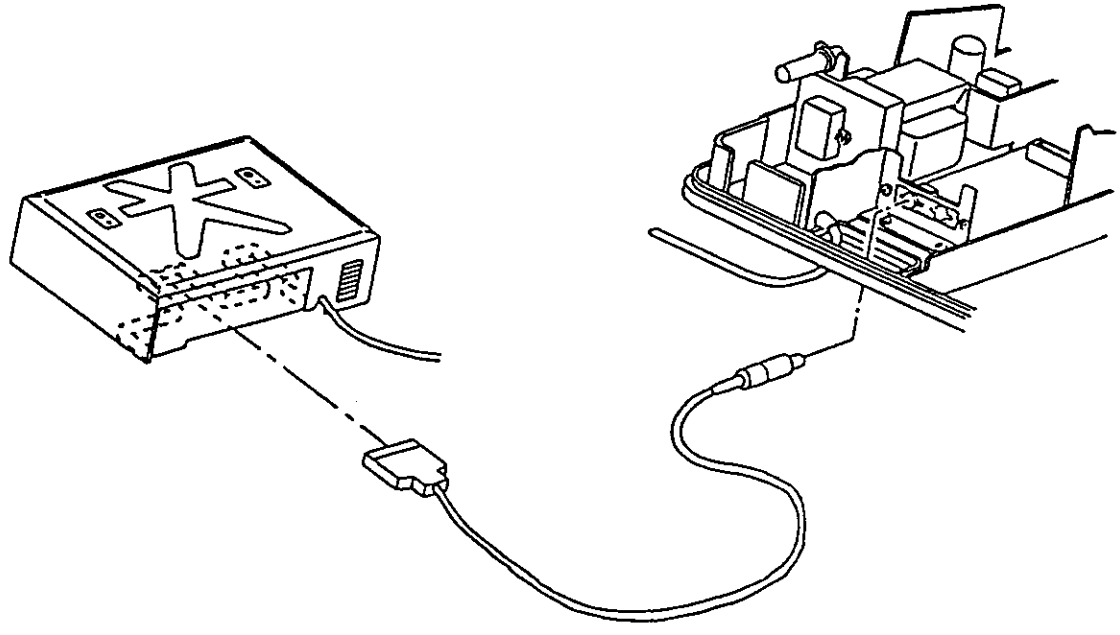
II-6-1. Necessary parts and parts number

Connector cable (General purpose) J-2261 1 pc.

(NOTE): Flat bed scanner should be procured locally.

II-6-2. Connection

Connect to the Serial I/O Board #1



II-6-3. Programming of Main Flag

Set Main Flag 1, Bit 7 and 8 to Option 1.

Control lock: P2

Programming overlay sheet is used.

Step	Operation	Display
1)	[CLEAR] (1) [STRT]	MAIN FLAG
2)	[SLCT]	MAIN FLAG
3)	[INPUT]	1MAIN FLAG 00 0
4)	(1)(1)(0)(0)(0)(0)(0)(0)	1MAIN FLAG 00 11000000
5)	[INPUT]	2MAIN FLAG 00 0

* Set the flag number
(Ex. Serial I/O Board #1 is used)
"ON" position of dip switch : 1
Connect position from behind
the cash register : Left
Setting flag number Main Flag 87: 56
Main Flag 88: 110111

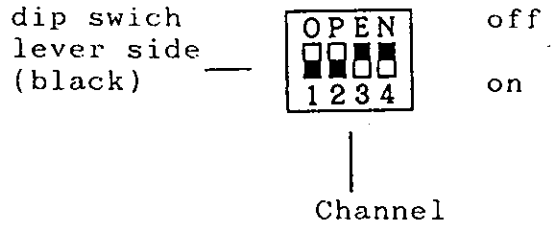
6)	(8)(7)	[DSGN]	87MAIN FLAG 0
7)	(5)(6)		87MAIN FLAG 56
8)		[INPUT]	88MAIN FLAG 00 0
9)	(1)(1)(0)(1)(1)(1)		88MAIN FLAG 00 110111
10)		[INPUT]	89MAIN FLAG 0

* After programmed, turn off and give an interval of about 5 seconds before power on.

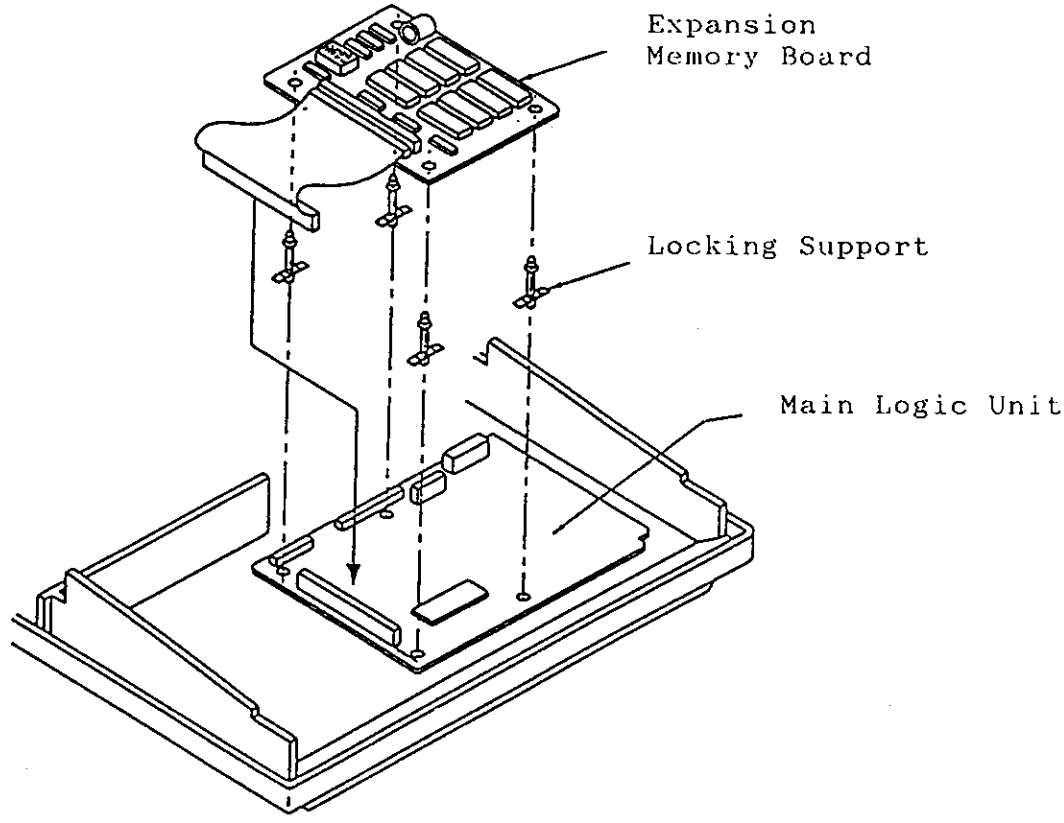
III. 1M BYTE EXPANSION MEMORY BOARD (ZA100142)

* Used to expand memory up to 1M byte.
* Shall be used when modem unit is used.
* Capacity of PLU programming : Max. 15000
  (Except for guest data and modem connection)

III-1. setting of dip switch on the memory board



III-2 Connection



(REMARK)
0.5M byte expansion memory board (ZA100141) is also available.

III-3. Operation

* Used to increase maximum number of PLUs and Guests.

Note: When expansion memory board is installed, "SYSTEM INITIALIZATION" must be executed.

Control Lock: P2
(Programming overlay sheet is used)

Example:

Maximum PLU number is changed to 10000.
Guest number without memory of the details is changed to 500.

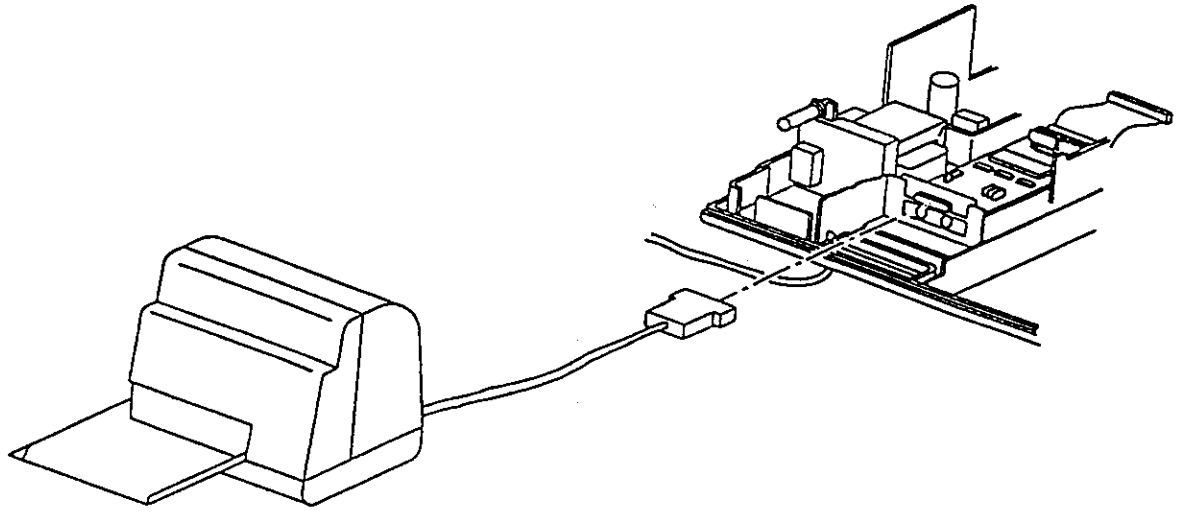
Step	Operation		Display	
1)	System initialize			
2)	[CLEAR] (4)	[STRT]	MAXIMUM	
3)		[SLCT]	DEPT	
4)		[INPUT]	DEPT	260
5)		[INPUT]	PLU	700
6)	(7)(0)(0)		PLU	700
7)		[INPUT]	SHIFT	0

* Above steps are operatted in order to clear the memory. (Guest datas are cleared)
* When guest datas are needed, operate above steps after saving the data.

8)	[CLEAR] (4)	[STRT]	MAXIMUM	
9)		[SLCT]	DEPT	
10)		[INPUT]	DEPT	260
11)		[INPUT]	PLU	700
12)	Enter PLU number (1)(0)(0)(0)(0)		PLU	10000
13)			SHIFT	0
14)		[INPUT]	CLK	50
15)		[INPUT]	GUEST	0
16)	Enter Guest number (5)(0)(0)		GUEST	500
17)		[INPUT]	DEPT	260

IV. SLIP PRINTER (ZA100146 for U.S.A., ZA100147 for Others)
* Used to issue wide receipt.

IV-1. Connection



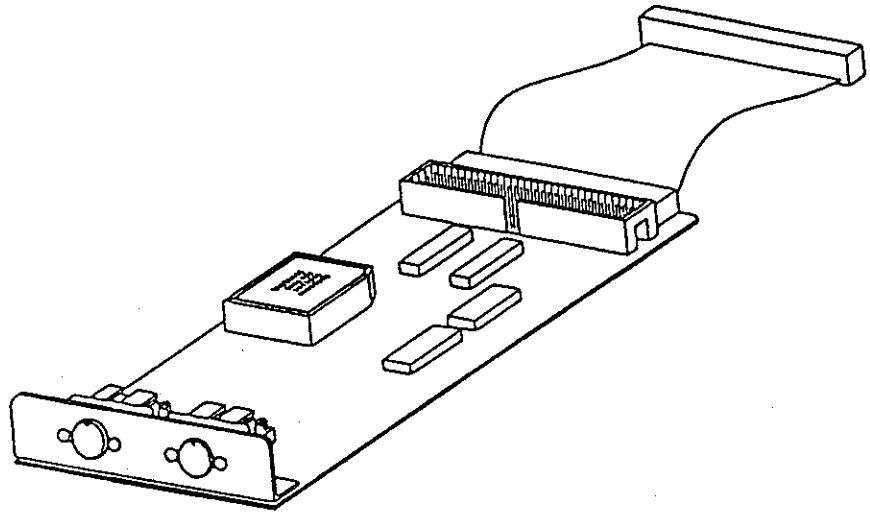
IV-2. Operation
Set Main Flag 2, Bit 6 to Option 1
Control Lock: P2
Programming overlay sheet is used.

Step	Operation		Dispaly	
1)	[CLEAR] (1)	[STRT]	MAIN FLAG	
2)		[SLCT]	MAIN LAG	
3)	(2)	[DSGN]	2MAIN FLAG	00
				0
4)	(1)(0)(0)(0)(0)(0)		2MAIN FLAG	
				100000
5)		[INPUT]	3MAIN FLAG	00
				0

(REMARK)
Wide receipt printer (Soft check printer) will be also available from around October, 1992 production.

V. IRC (INTER REGISTER COMMUNICATION) INTERFACE BOARD

* Used to connect master cash register with slave units such as slave ECR or remote printer.



V-I. Master/Slave connection

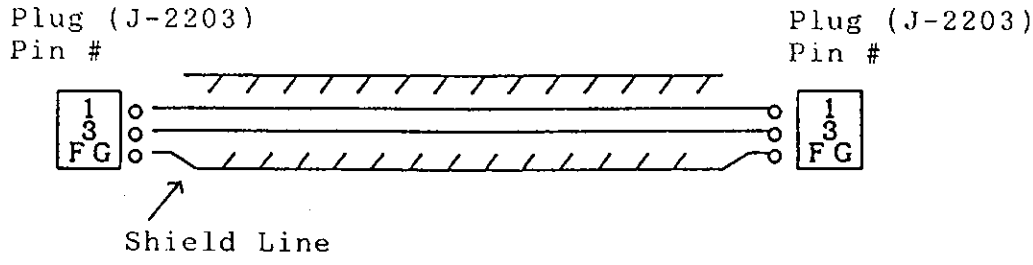
V-1-1 Function

* By connecting master cash register with slave units, master cash register can consolidate sales datas from Max. 8 slave units.
* With operation of previous balance, the same previous guest datas (credit sales datas) can be memorized in both master and slave units.
* sales datas of each slave unit and that of master cash register are consolidated in the master cash register. However, Sales /inventory datas of individual department and PLU in addition to the report of previous balance can not be consolidated in the master cash register.
* When operation of previous balance is performed in an IRC network, previous balance guest datas are automatically transmitted to the master cash register and other slave units after finalization of entry operation

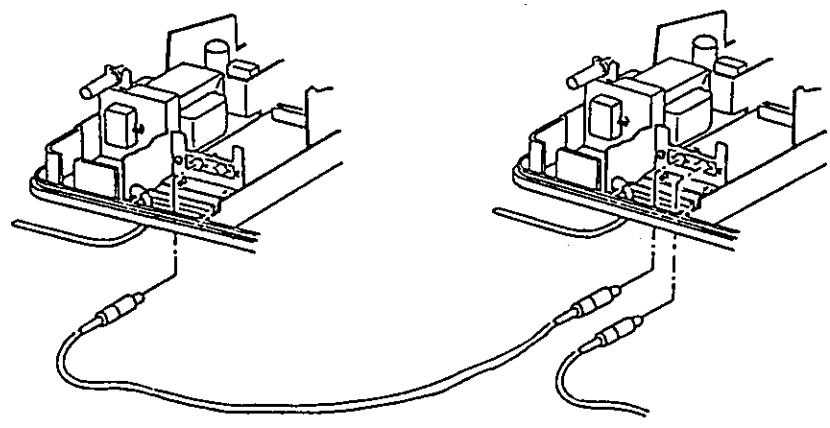
V-1-2 Necessary parts and parts number

* IRC Interface Set ZA100117
  (IRC interface board assy EA01-AZ005A 1 Pc.)
  (DIN 8P plug J-2203 2 pcs.)
* Connector Cable (shall be provided at your side)
  Specification : 1 single with 2 core stranded conductor shielded.
  size: AWG22
  Outer diameter: less than 7mm
  Length: Max. 1km

V-1-3 Cable connection with plug



V-1-4 Connection



V-1-5 Initial Setting

* In order to operate in IRC network, programming of flag and terminal number is required in each unit.

5-1 Programming of terminal number

* Used to distinguish the unit each other
* Terminal numbers are able to set from 1 to 9

Example : Terminal number is programmed as 1
Control Lock: P1
Programming ovelay sheet is used

step	Operation		display
1)	[CLEAR] (1)	[STRT]	DATE ?
2)	[SLCT][SLCT][SLCT]	[SLCT]	TERMINAL NO.
3)		[INPUT]	TERMINAL NO. 0
4)	(1)		TERMINAL NO 1
5)		[INPUT]	MACHINE NO. 0

* Same operation is performed for other terminal numbers.

5-2 Programming of main flag

* In accordance with programmed terminal number, program Main flags 29 & 30 for the connected units.

Main Flag 29

Bit	8	7	6	5	4	3	2	1
Option	-	-	-	-	-	-	-	-

Bit	Function	Option
8	ECR #8 is connected	0 = NO , 1 = YES
7	ECR #7 is connected	0 = NO , 1 = YES
6	ECR #6 is connected	0 = NO , 1 = YES
5	ECR #5 is connected	0 = NO , 1 = YES
4	ECR #4 is connected	0 = NO , 1 = YES
3	ECR #3 is connected	0 = NO , 1 = YES
2	ECR #2 is connected	0 = NO , 1 = YES
1	ECR #1 is connected	0 = NO , 1 = YES

Main Flag 30

Bit	8	7	6	5	4	3	2	1
Option	-	-	-	-	-	-	-	-

Bit	Function	Option
8	Always 0	
7	Always 0	
6	Always 0	
5	Always 0	
4	Alwasy 0	
3	Always 0	
2	Always 0	
1	ECR #9 is connected	0 = NO , 1 = YES

Example case:

#1, #2, #3 and #5 are programmed as terminal number
Control lock: P2 (Program overlay sheet is used)

Step	Operation	Display
1)	[CLEAR] (1) [STRT]	MAIN FLAG
2)	[SLCT]	MAIN FLAG
3)	(2)(9) [DSGN]	29MAIN FLAG 00 0
4)	(1)(0)(1)(1)(1)	29MAIN FLAG 00 10111
5)	[INPUT]	30MAIN FLAG 00 0

5-3 Programming of master flag
Control Lock: P2
(Programming overlay sheet is used)

Step	Operation		Display	
1)	[CLEAR] (1)	[STRT]	MAIN FLAG	
2)		[SLCT]	MAIN FLAG	
3)	(3)(1)	[DSGN]	31MAIN FLAG	00
				0
4)	(1)		31MAIN FLAG	00
				1
5)		[INPUT]	32MAIN FLAG	02
				10

5-4 Flag for Reset (clearance) after consolidation of sales datas

* When operation for consolidation is performed with control lock at "Reset (Z1)" or "Period Reset (Z2)" position of the master ECR, sales datas of the master and slave ECR can be reset to "0" automatically after consolidation. Set main flag 31, Bit 2, Option 1 to reset "0"

Main flag 31

Bit	Function	
2	Sales data of the master and slave unit shall reset to "0" after consolidation	0 = NO 1 = YES
1	This register is the master in an IRC network	0 = NO 1 = YES

EX.
Control Lock: P2
(Programming overlay sheet is used)

Step	Operation		Display	
1)	[CLEAR] (1)	[STRT]	MAIN FLAG	
2)		[SLCT]	MAIN FLAG	
3)	(3)(1)	[DSGN]	31MAIN FLAG	00
				0
4)	(1)(1)		31MAIN FLAG	00
				11
5)		[INPUT]	32MAIN FLAG	02
				10

*After programmed, turn off the power switch of master and slave ECR once and power on again

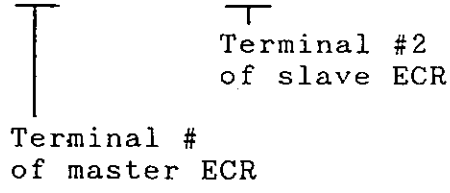
V-1-6. Consolidation of sales and inventory datas

* The following datas can be consolidated in IRC network.
  1) Data of sales and inventory for departments except for that of individual department
  2) Data of slaes and inventory for PLU excpt for that of individual PLU.
  3) Data of full departments and transactions
  4) Data of hourly net sales
  5) Sales data of all kinds of transactions
  6) Data of sales and numbers for parties
  7) Data of all cashier's sales
  8) Data of Cash in drawer

6-1 Operation for Consolidation

* In order to consolidate each sales reports from master and all slave ECRs, press;
  a) (RLS) (R/A] bottun
  b) operate for each report

* In case of consolidation of sales reports from master ECR and slave ECR #2;
  a) (1) [Q/F] (3) [Q/F] [R/A]



  b) operate for each report

EX.

1. consolidation of sales data for all departments (Check)

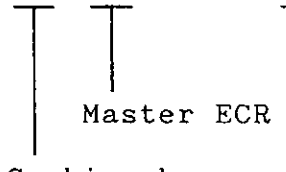
1-A) From Master and all slave ECRs

(A) [RLS] [R/A] [RLS] [DEPT]

Cashier key

1-B) From Master and slave ECR #2

(A) (1) [Q/F] (3) [Q/F] [R/A] [RLS] [DEPT]



* In case of inventory data, press cashier key (B) instead of (A)

2. Consolidation of sales data for all PLUs (Check, Reset)

2-A) From Master and all slave ECRs

(A) [RLS] [R/A] [RLS] [PLU]

Cashier key

2-B) From Master and slave ECR #2

(A) (1) [Q/F] (3) [Q/F] [R/A] [RLS] [PLU]

Slave ECR #2

Master ECR

Cashier key

* In case of inventory data, press cashier key (B) instead of (A)

3. Consolidation of sales data for all departments and transactions (Check and reset)

3-A) From Master and all slave ECRs

(A) [RLS] [R/A] [CASH TEND]

Cashier key

3-B) From Master and slave ECR #2

(A) (1) [Q/F] (3) [Q/F] [CASH TEND]

Slave ECR #2

Master ECR

Cashier key

* In case of inventory data, press cashier key (B) instead of (A)

6-2 When consolidation of inventory data is performed, please pay the following attention.

* enter quantity of stock, entry and delivery in the master ECR
* Quantity of stock, entry and delivery in the slave ECR must be "0", when operation starts.
* If sales is entered in the slave ECR, quantity of stock in the slave ECR will be negative (-).

V-1-7. Previous balance

* When operation of previous balance is performed in an IRC network, previous balance guest data which is entered in a slave ECR is automatically transmitted to the master ECR and all other slave ECRs after finalization of entry operation.

* Therefore, sales data of the previous balance guest (credit sale) can be stored in both master and salve ECRs.

* By using this function, payment of the guest at one place will be possible when the guest placed order at several places.

V-2. REMOTE (KITCHEN) PRINTER

V-2-1. Quantity and name of sales items which were registered in the cash register can be classified into four categories and transmitted to the corresponding remote printer. Therefore, max 4 units of remote printer can be connected to the cash register.
By setting the flag number for the department and PLU, sales datas are transmitted as follows:

Example:

1. Drinks	----	Remote printer	#1
2. Noodles	----	"	#2
3. Rices	----	"	#3
4. Breads	----	"	#4

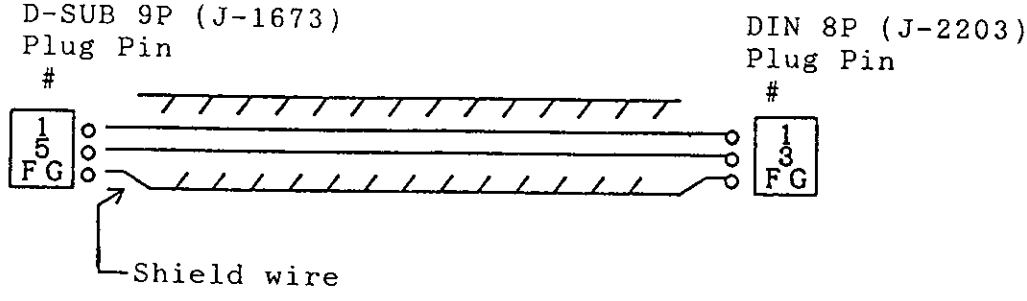
V-2-2. Necessary parts and parts name and connection

A) Connection of cash register with remote printer

1: Necessary parts and parts number

* Remote printer unit ZA100149 (117V) or ZA100150 (230V)
  (Remote printer CBM530 P-225 (117V) or P-226 (230V))
  (RS-232C Convertor Box ES01-AD001A)
  (Connector cable from remote printer to I/F board J-1801)
  (D-SUB 9P Plug J-1673)
  (D-SUB 9P Cover J-1674)
  (DIN 8P Plug J-2203)
* IRC interface board set ZA100117
* Cable (should be procured locally)
  Specification: 1 single with 2-core shieded conductor
  Size: AWG22
  Length: Max. 1.0km
  Outer diameter: Max. 7mm

2: Connection cable with plug

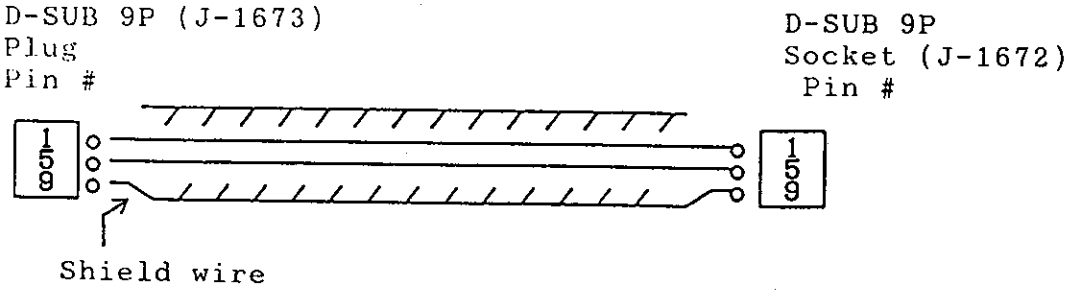


B) Connection of remote printer with another remote printer

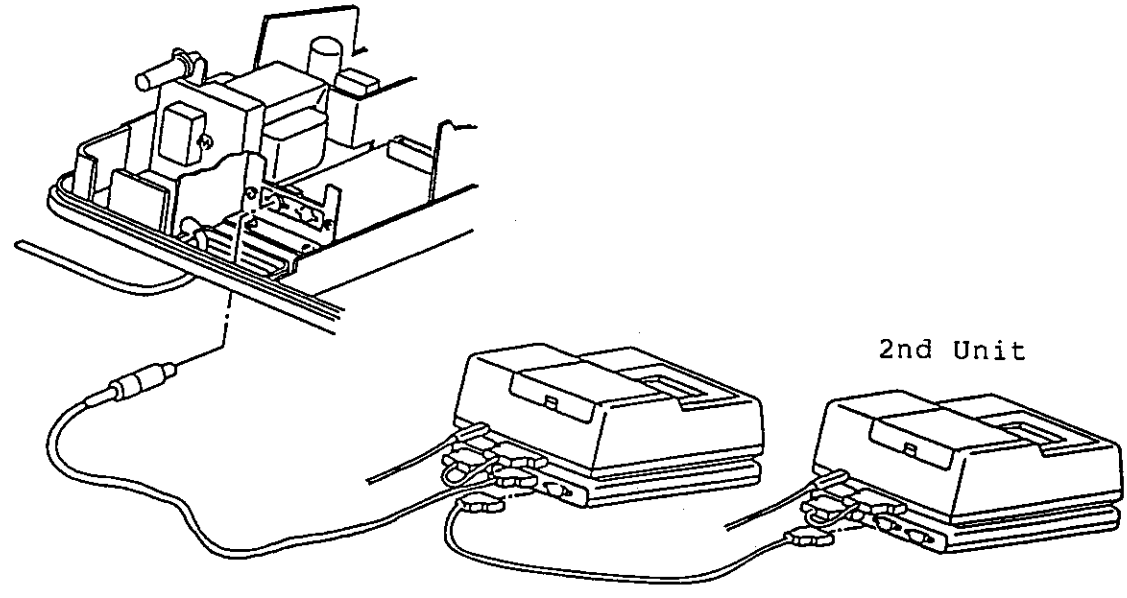
1: Necessary parts and parts number

* Remote printer CBM530 P-225 (117V) or P-226 (230V)
* RS-232C Convertor Box ES01-AD001A
* Connector cable from remote printer to I/F board J-1801
* D-SUB 9P socket J-1672
* D-SUB 9P plug J-1673
* D-SUB 9P cover J-1674
* IRC interface board set EA01-AZ005A
* Cable (shall be prepared at your side)
  Specification: 1 single with 2-core shieded conductor
  Size: AWG22
  Length: Max. 1.0km
  Outer diameter: Max. 7mm

2: Connection cable with plug

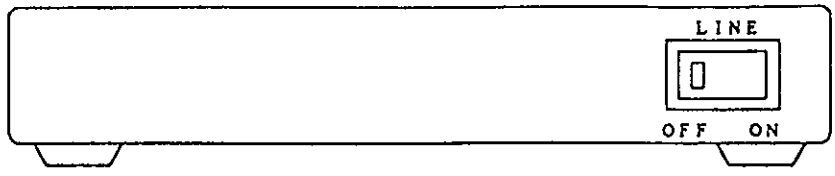


V-2-3. Connection

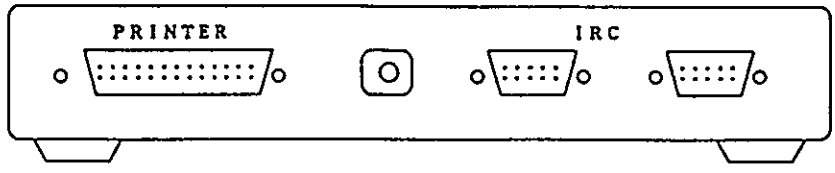


V-2-4. Remote printer convertor box

4-1 Line Switch
* Used to send signal from cash register to stop printing until replacement of roll paper is finished when the roll paper of the remote printer runs short.
* set "ON" position during normal operation
* set "OFF" position during replacement of roll paper

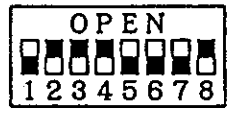


Convertor Box (Front side)



Convertor Box (Rear side)

4-2 Dip Switch
* Terminal number must be programmed for each remote printer and the number can be programmed by setting the dip switch in the convertor box.
* Dip switch setting position from manufacturer is as follows:



off

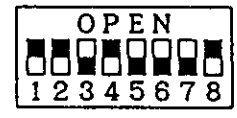
on

Lever side is ■ (black)

* When multiple remote printers are connected, set the dip switch as follows:

Remote Printer #2

Remote Printer #3



Remote Printer #4

V-2-5. Programming of main flag

EX. In case the connection of remote printer #1 with #2
Program "11" to main flag 2
Control lock: P2
Programming overlay sheet is used

step	Operation	Display
1)	[CLEAR] (1) [STRT]	MAIN FLAG
2)	[SLCT]	MAIN FLAG
3)	(2) [DSGN]	2MAIN FLAG 00 0
4)	(1)(1)	2MAIN FLAG 00 11
5)	[INPUT]	3MAIN FLAG 00 0

* After aprogrammed, turn off the power switch once and then power on again

V-2-6. Operation

* When power switch is turned on after IRC connection and programming, message is printted out on the remote printer as follows.

Remote Printer	Message
#1	"MY TERMINAL ADDRESS 71"
#2	"MY TERMINAL ADDRESS 72"
#3	"MY TERMINAL ADDRESS 73"
#4	"MY TERMINAL ADDRESS 74"

* If error message "DOUBLE TERMINAL ADDRESS ERROR 71" is displayed in red, Dip switch is set duplicately. please check the lever position on the dip switch. In this case, data can not be transmitted.
* When power switch of the cash register is turned on after connection with remote printer , terminal number of the cash register is printtd in red as follows. (in case of terminal number is #1)

  *** POWER ON 01# ***

* Power on the remote printer first when the printer is connected.

V-2-7. Programming for departments, PLUs and condiments

* Departments, PLUs and Condiments can be printted on the remote printer

1) Programming for departments and PLUs
 * This is controlled by flag 3

Bit	Function
5	Remote printer prints in red
4	Print on remote printer #4
3	Print on remote printer #3
2	Print on remote printer #2
1	Print on remote printer #1

Ex.

* If food is programmed in department 1, it prints on remote printer #1
* If drink is programmed in department 2, it prints on remote printer #2
* Control Lock: P1
  Programming overlay sheet is used

Step	Operation	Display	
1)	[CLEAR] (2) [STRT]	DEPT ?	
2)	[SLCT][SLCT][SLCT]	FLAG	
3)	[INPUT][INPUT][INPUT]	DEPT001	3
		00	0
4)	(1)	DEPT001	3
			1
5)	[INPUT][INPUT][INPUT]	DEPT002	3
		00	0
6)	(1)(0)	DEPT002	3
			10
7)	[INPUT]	DEPT003	1
		00	0

* PLU is also operated as same manner

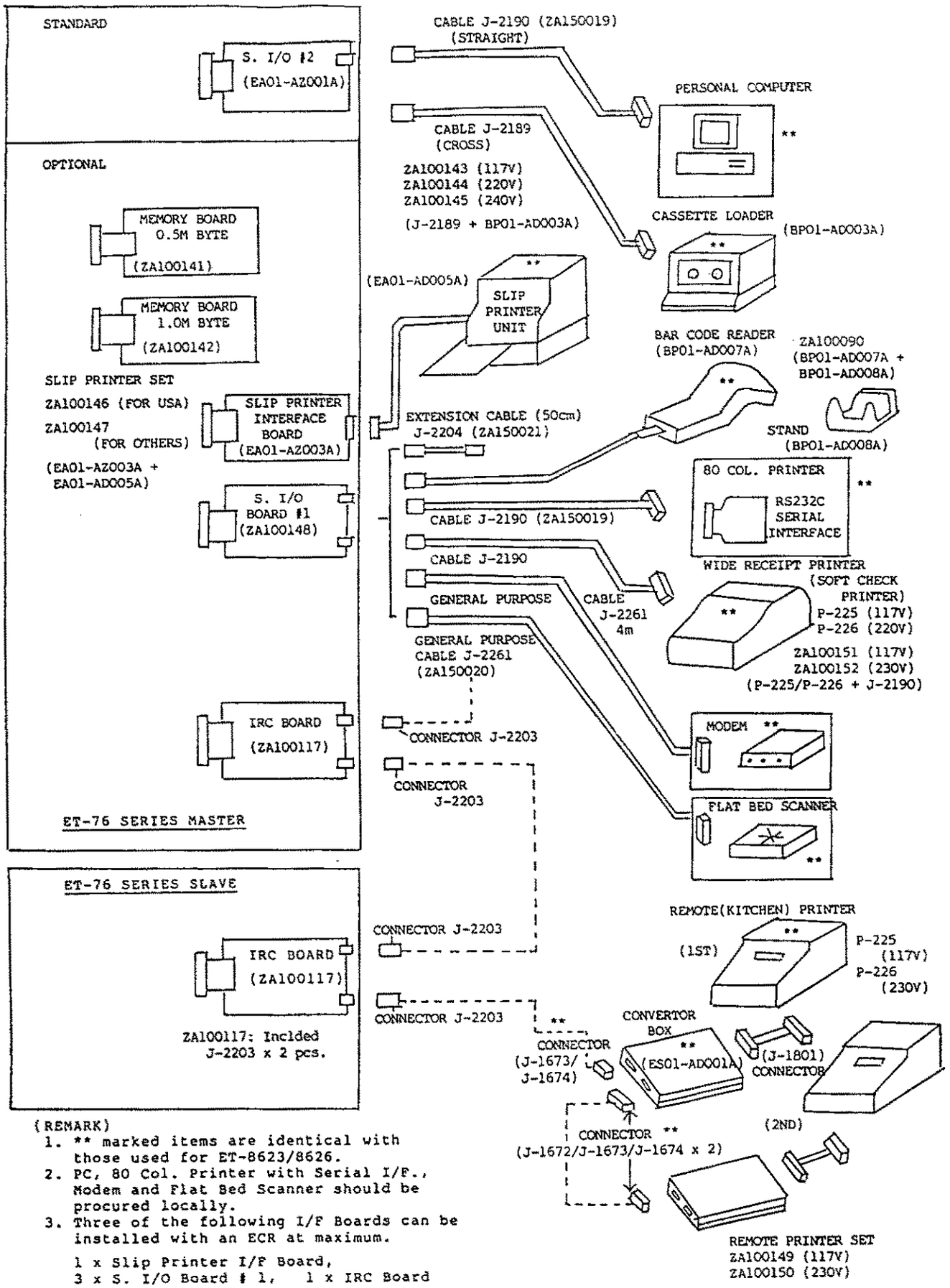
2) Programming for Condiments

* Max. 99 kinds of condiments can be programmed for departments and PLUs.
* Name of condiments can be distinguished by printing in colour.
* Flag of condiments

Bit	Function
5	Remote printer prints in red

Ex. Print in red for condiment #1
Control Lock: P1
Programming overlay sheet is used

Step	Operation		Display
1)	[CLEAR] (1)(3)	[STRT]	CONDIMENT?
2)		[SLCT]	FLAG
3)		[INPUT]	1COND 00 0
4)	(1)(0)(0)(0))0)		1COND 10000
5)		[INPUT]	2COND 00 0



(REMARK)

1. ** marked items are identical with those used for ET-8623/8626.
2. PC, 80 Col. Printer with Serial I/F., Modem and Flat Bed Scanner should be procured locally.
3. Three of the following I/F Boards can be installed with an ECR at maximum.

   1 x Slip Printer I/F Board,
   3 x S. I/O Board # 1, 1 x IRC Board

ET-7626/7626F OPTIONAL UNIT NO. LIST

OPTION NO.	Description	Memory Board 0.5M Byte with IC Socket EA01-AZ006A	Memory Board 1.0M Byte (w/o IC Socket) EA01-AZ004A	SIO #1 Board Assy EA01-AZ002A	Slip Printer Interface Board EA01-AZ003A	IRC Board EA01-AZ005A	Bar Code Reader Unit BP01-AD007A	Bar Code Reader Stand BP01-AD008A	Cassette Loader Unit BP01-AD003A	Cable for Cassette Loader J-2189	Slip Printer Unit EA01-AD005A	Cable for 80 columns Printer with RS232C Serial Interface J-2190	Connector for IRC J-2203 x 2	Kitchen Printer Unit P-225/226 (CBM-530)	Convertor Box for Kitchen Printer ES01-AD001A	Cable between Kitchen Printer and Convertor Box J-1801	Connector Cover for Convertor Box Side Connector --- J-1672/1673 COver ------ J-1674 x 2	General Purpose Cable (4 m) J-2261	Extension Cable (50 cm) J-2204	SIO#2 Board Assy for PC Interface EA01-AZ001A (Installed as standard)
ZA100141	1)Memory Board 0.5M Byte	O																		
ZA100142	2)Memory Board 1.0M Byte		O																	
ZA100090	3)Bar Code Reader			*(O)			O	O												O
ZA100143(117V) ZA100144(220V) ZA100145(240V)	4)Cassette Loader			*(O)					O	O										O
ZA100146(for U.S.A) ZA100147(others)	5)Slip Printer Set				O						O									
ZA150019	6) 80 Column Printer Interface Cable			(O)								O								
ZA100117	7)Inter Register Communication Unit					O							O							
ZA100149(117V) ZA100150(230V)	8)Kitchen Printer					(O)							(O)	O	O	O	O			
ZA150020	9)General Purpose Cable for Modem / Flat Bed Scanner			(O)														O		
ZA100151(117V) ZA100152(230V)	10)Wide Receipt Printer			(O)								O		O						
ZA150021	11)EXTENSION CABLE																		O	
ZA100148	12)SIO#1 BOARD			O																
ZA150019	13)PC Interface cable			*(O)								O								O

Remarks: 1. J-2661 (General Purpose Cable) is a sub-assemblied cable (can be connected only to the 13 pins DIN Connector side on the ECR.
2. In case J-2189 and J-2190 cables are too short, you can use J-2661 General purpose cable and can connect the ECR to the optional unit.
3. Three of the following optional interface boards can be installed with an ECR at maximum.
1 x Slip Printer I/F board, 3 x SIO#1 board, 1 x IRC board.
4. (O) marked items are not included in the option units, but required for connection of each option.
5. *(O) marked items can be connected to either standard SIO#2 board or optional SIO#1 board. In case you connect those options to SIO#1 board, you are requested to preset the ECR accordingly.