QT-6000

Touch Screen Smart Terminal

Reference Manual

Version 1.5 October 2006

CASIO®

Preface
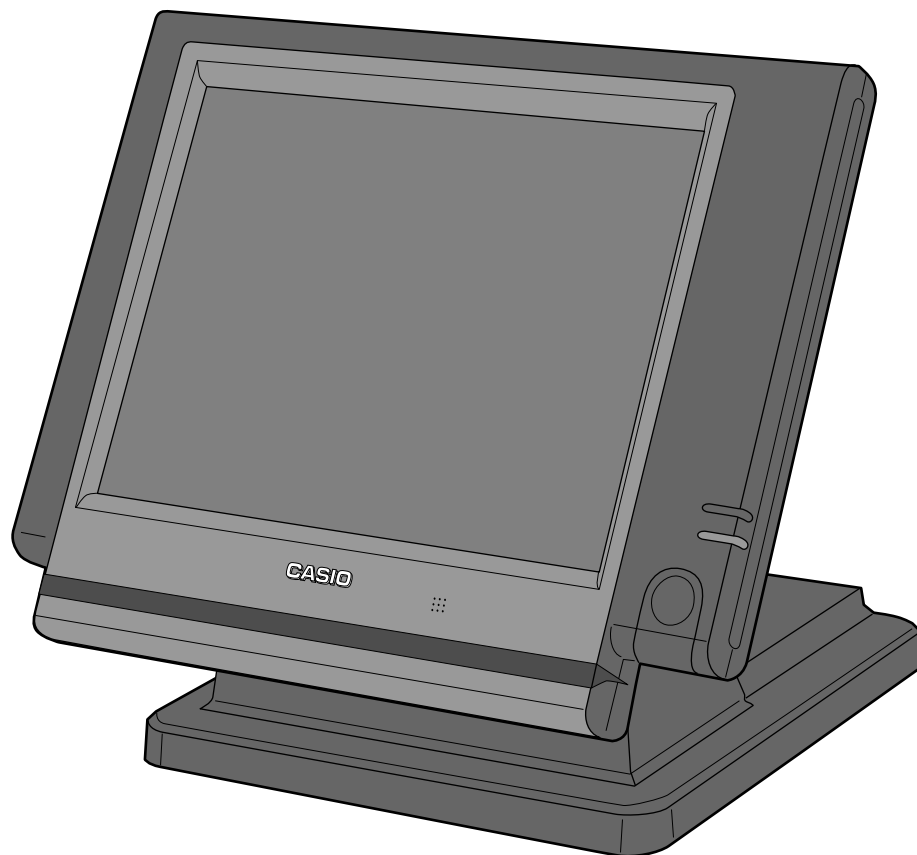
This manual is intended to be used as a reference to the QT-6000 system. It provides details to allow whole understanding of the system capabilities, its operation, and how it can be used to solve many problems within the retail outlet. This manual does not describe actual programming, which is covered in the QT-6000 programming manual.

This manual consists of the following chapters:

1. Introduction
   This chapter describes the concepts of development of the QT-6000 system.
2. Hardware configuration
   This chapter outlines the hardware, optional devices and configurations of QT-6000 system.
3. Application systems
   This chapter outlines the application system and overviews the function provided for the QT-6000 system.
4. Manager operation
   This chapter explains the manager operations to use QT-6000 system.
5. Registrations
   This chapter explains actual registration operations with example.
6. Refund mode operation
   This chapter explains registrations in the RF or REG– mode.
7. Read and reset
   This chapter explains detail of the read and reset operations and reports.
8. Appendices
   These chapters show the record format and descriptions of individual files, total calculation method, meaning of error messages, etc.
• System down and recovery (in the Installation and Down Recovery manual)
   This chapter explains actions to take and recovery methods when the system goes down.

Note: Casio reserves the right to change equipment and specifications without obligation and notification. The terms used in this manual may be different from those used in other manuals of Casio's product.

Printing history

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Revised points

2005.04.12.
Collecting mistake: page-209.
2005.07.14. (Version 1.3)
Modifying file format: page-188, 189, 191
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✍ Version 1.5

Introduction

The QT-6000 is a versatile intelligent terminal developed in accordance with the following concepts.

1) System concept

   Developing a high performance economical system by adopting the restaurant, bar, fast food system.

   – Shared check tracking

   The QT-6000 system has the capability of check tracking system.

   – Shared printer system

   All terminals in the cluster can share remote printer(s).

   – Collection, consolidation, and auto-program functions

   The QT-6000 system is equipped with these functions by utilizing high-speed in-line data transfer system.

   – Versatile terminal

   With the QT-6000 system, any terminal has the same function, and can be designated as the master terminal by programming.

2) Software concept

   A flexible application system for development, adopting the following methods:

   – Function classified application system

3) Terminal hardware concept

   Color LCD with touch panel

In addition to the above, the QT-6000 is also a terminal following characteristics:

   – Expandability

   The QT-6000 system can be connected to various peripheral devices (slip printer, modem, a personal computer, etc.)

   – Reliability

   The QT-6000 is provided with a self-diagnosis program so that the terminal can check the hardware. When a malfunction occurs during processing, an error report is logged into the system memory so that the error can quickly be corrected.

Contents

To prevent malfunctions caused by the weak batteries, charge the memory protection batteries for over 12-hours before installation or after a longtime vacation (over 30 days).
- Before installation, initialize the terminal and leave it turn on over 12-hours.
- After a longtime vacation, initialize the terminal and restore the program data if the terminal is in malfunction, and leave it turn on over 12-hours.
- Over 48-hours charging makes the batteries fully charged.

Contents

Contents

Hardware Configuration

1. Hardware configuration

This section outlines the hardware, optional devices, and configurations of the QT-6000 system.

1-1. General configuration

Front view

Touch screen panel

Display on/off key

Pilot lamp

i-Button key receiver
(only for QT-6000-DLS)

Microphone

Stand

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Card slot cover

Power switch cover

Panel fixing screw

Connector cover

Rear view

1-2. Hardware diagram

Card slot cover

CF card

Wireless LAN card

Speaker

Max. 95 key touch screen

800 x 600 dot color LCD

i-Button key i/f

CPU

Flash Memory 16MB

RAM 32MB

QT-6011DLS (except for QT-6000-DLS)

Microphone

MCR QT-6046MCR

Drawer 1 i/f

Drawer 2 i/f

Inline

RS-232C COM1

RS-232C COM2

RS-232C COM3

RS-232C COM4

RS-232C COM5

RS-232C COM6

Ext. microphone

Ext. speaker

Drawer

Drawer

AC Adptor ADP820A

CAT5 UTP cable

PRL-CB-2

MODEM or PC

Scanner HHS-15

PRT-CB-8C

QT-6061CB or QT-6062CB

PRT-CB-8A/-8B

PRT-CB-8A/-8B

PRT-CB-8A/-8B

Remote printer UP-360

Remote printer UP-250

Power supply

Power supply PS-180

HUB

Other terminals

Slip printer

SP-1300

Power supply AD31U/E

Remote display QT-6060D

Remote printer UP-250

Power supply PS-180

Note: Shadowed device and dot line indicate option devices.

Hardware Configuration

1-3. Keyboard

1-3-1. Standard keyboard

REG C01 31-10-04 12:34 PM 001234							PAGE UP	PLU010	PLU020	PLU030	PLU040	PLU050
							↑	PLU009	PLU019	PLU029	PLU039	PLU049
							HOME	PLU008	PLU018	PLU028	PLU038	PLU048
							↓	PLU007	PLU017	PLU027	PLU037	PLU047
				· 0.00			PAGE DOWN	PLU006	PLU016	PLU026	PLU036	PLU046
ESC/ SKIP	C	X	VOID	←	YES	NO	→	PLU005	PLU015	PLU025	PLU035	PLU045
CLK4	7	8	9	MODE	CLK#	COVERS	MENU	PLU004	PLU014	PLU024	PLU034	PLU044
CLK3	4	5	6	#/NS	FUNC LIST	SEP CHK	TBL TRANS	PLU003	PLU013	PLU023	PLU033	PLU043
CLK2	1	2	3	SUBTOTAL	FIN. LIST	NB		PLU002	PLU012	PLU022	PLU032	PLU042
CLK1	0	00	·	CASH/AMT /TEND	RECEIPT	NEW/OLD CHK		PLU001	PLU011	PLU021	PLU031	PLU041

1-3-2. Hard key code of keyboard

							045	055	065	075	085	095
							044	054	064	074	084	094
							043	053	063	073	083	093
							042	052	062	072	082	092
							041	051	061	071	081	091
005	010 (C)	015	020	025	030	035	040	050	060	070	080	090
004	009 (7)	014 (8)	019 (9)	024	029	034	039	049	059	069	079	089
003	008 (4)	013 (5)	018 (6)	023	028	033	038	048	058	068	078	088
002	007 (1)	012 (2)	017 (3)	022	027	032	037	047	057	067	077	087
001	006 (0)	011 (00)	016 (·)	021	026	031	036	046	056	066	076	086

- In case of assigning a double or quadruple key, the key code of the key is shadowed part of the key.
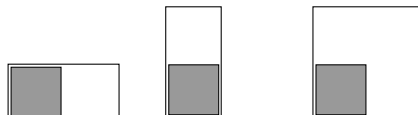
1-4. Display

1-4-1. Main display part

① Main display part: Used for displaying numeric entries, registration, subtotal amount, etc.
② Menu level display part: Used for displaying the current shift PLU, menu sheet and 2nd unit price level.
③ Keyboard part: Mainly used for keyboard (sometimes it is used for pop-up window)

			Shift PLU		Menu1			2nd@			
REG C01 31-10-04 12:34 001234				PAGE UP	PLU010	PLU020	PLU030	PLU040	PLU050		
				↑	PLU009	PLU019	PLU029	PLU039	PLU049		
①				HOME	PLU008	PLU018	PLU028	PLU038	PLU048		
				↓	PLU007	PLU017	PLU027	PLU037	PLU047		
·0.00				PAGE DOWN	PLU006	PLU016	PLU026	PLU036	PLU046		
ESC/SKIP	C	X	VOID	←	YES	NO	→	PLU005	PLU015	PLU025	PLU035	PLU045
CLK4	7	8	9	MODE	CLK#	COVERS	MENU	PLU004	PLU014	PLU024	PLU034	PLU044
CLK3	4	5	6	#/NS	FUN.LIST	EP CHK	TBL TRANS	PLU003	PLU013	PLU023	PLU033	PLU043
CLK2	1	2	3	SUBTOTAL	FIN.LIST	NB	PLU002	PLU012	PLU022	PLU032	PLU042	
CLK1	0	00	·	CASH/AMT/TEND	RECEIPT	NEW/OLD CHK	PLU001	PLU011	PLU021	PLU031	PLU041	

③

1-4-2. Main display part contents

Mode   Clerk   Date   Time   Consecutive number

```
REG  C01      01-01-01 12:34      001234
  1   Spagetti            ·20.00 T1 ↑
  1   Spagetti            ·20.00 T1
      7.5%
      %-                   -1.75 T1
  1   Coffee              ·8.00
  1   Hamburger           ·2.00 T1
      15%
      %-                   -0.30 T1
  1   Milk                ·2.00
  2   Apple Juice         ·5.00
  1   Coffee              ·8.00  ↓

Spagetti            ·20.00
 ⊐⌐  📄A    12      ·76.50
```

Scroll area

Current transaction amount/change

Status Icons   Items sold   Total amount

- Communication: ⊐⌐   • Receipt on: 📄
- Master/BM error: ⊗   • Character shift:
- Cut off Master or BM: ❗   Double size: A̅
                                    Standard size: A̲

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1-4-3. Menu level display part contents

SHIFT PLU 1	Menu shift 1	2nd@
Shift PLU level (1 ~ 8)	Menu sheet (1 ~ 15)	2nd unit Price level (1 ~ 2)
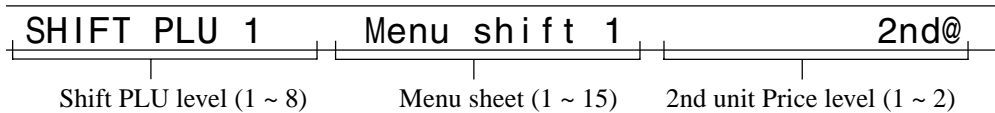
1-4-4. Main display brightness control
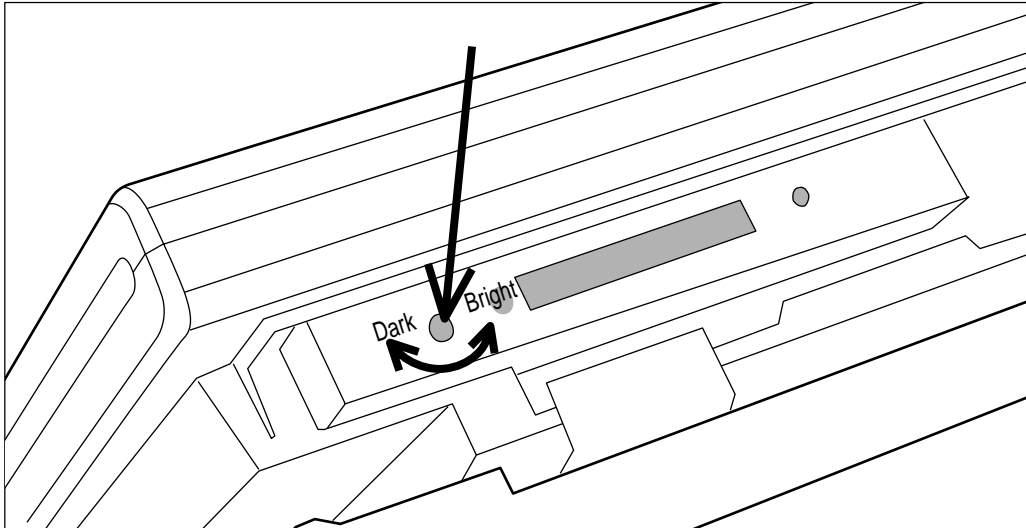
1-5. Cash drawer

In case of connecting drawer, follow the procedure below.

Connect the drawer.

1. Connect drawer connector (three color lead on drawer) to the terminal.
2. Connect frame drawer connector (green lead on drawer) to the terminal.

Mount the cash register.

1. Screw in 2 fixing screws bottom side of the terminal.
2. Mount the terminal on the top of the drawer, ensuring that the feet on the bottom of the terminal go into the holes on the drawer.
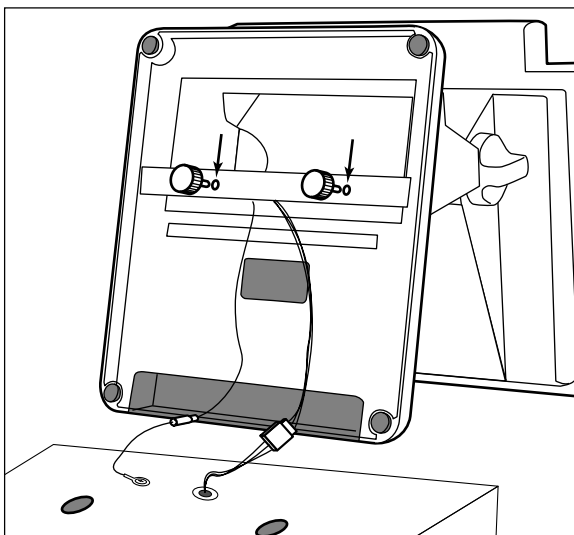
1-6.   Input/output connectors

Power switch

Main power switch is located in the power switch cover.

Power switch cover
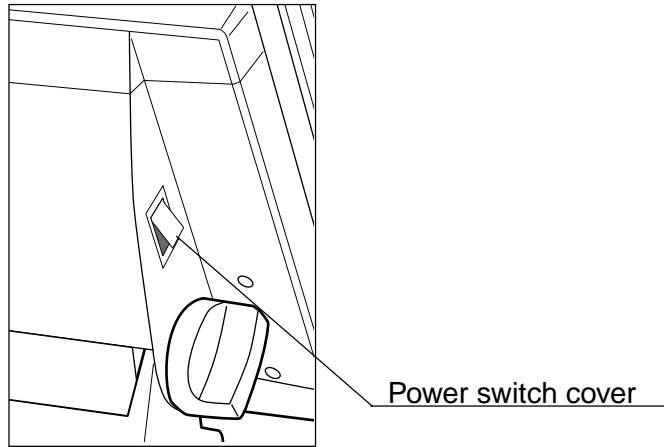
Input /output connectors

Inline connector, COM port, and drawer cable are located in the backside connector cover.

Inline (10/100Base-T)

Bottom side of the terminal

From the AC adaptor

LAN1   VOL

Sound
volume control

DC IN   PC/MODEM   SCANNER   DISPLAY   DRW1   DRW2

COM1   COM2   COM3

COM4   COM5   COM6   SPK   MIC

Drawer 2
Drawer 1

Ext. microphone
Ext. speaker

COM1   COM4   COM2   COM5   COM3   COM6
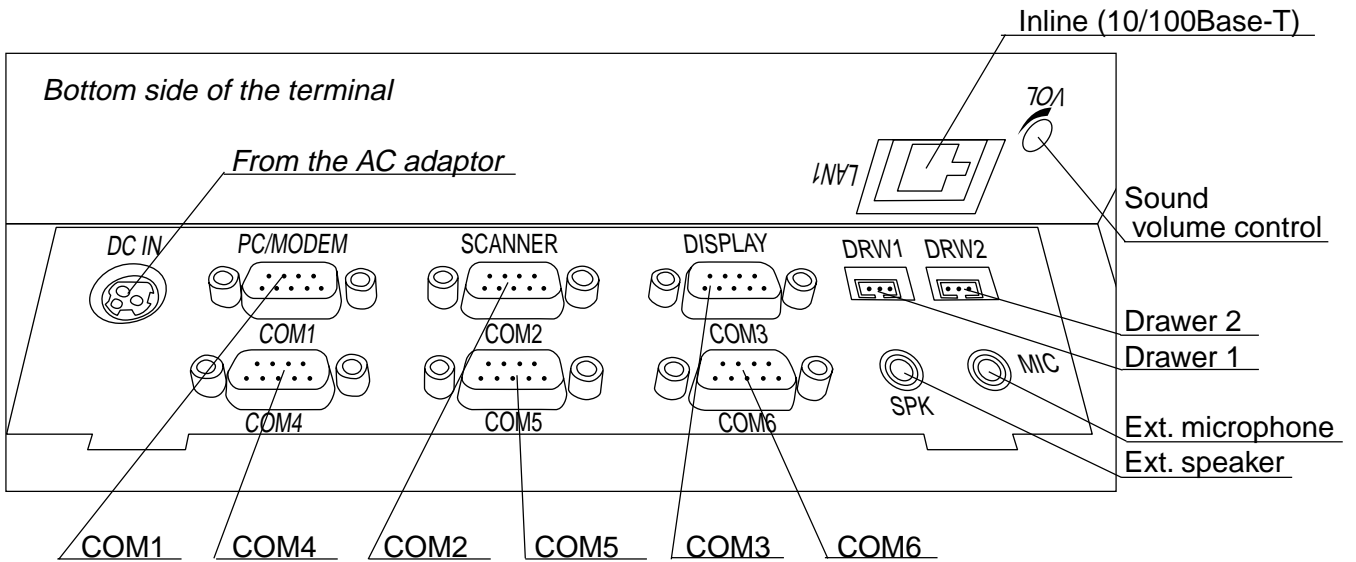
1-7. Optional peripherals

The following optional peripherals can be used by plugging them into the appropriate port.

1) Personal computer / MODEM: RS-232C COM 1 port

2) Scanner: RS-232C COM 2 port
   Hand-held scanner (HHS-15)

3) Slip printer: RS-232C COM 2 port
   SP-1300
   In case of installing both scanner and slip printer, connect slip to COM 4 port.
   If you connect the slip printer to COM 4 , the automatic detection during INIT does not performed. You muse program the I/O parameter manually.

4) Remote display: RS-232C COM 3 port
   QT-6060D

5) Remote printer (UP-350/360, UP-250): RS-232C COM 4 ~ 6 port
   The remote printer is used for reports/kitchen orders/receipts.

6) Inline: Inline port
   You can use CAT5 UTP cable.

7) Drawer: drawer port

8) CF card: CF card slot (in the card slot cover)

9) Wireless LAN card: PCMCIA interface (in the card slot cover)

1-8.   System configuration

This section represents the system configuration of the QT-6000. The QT-6000 have three different system configurations, such as shared check tracking / floating clerk interrupt system, Inline collection / consolidation system and Online collection / consolidation system.

Before detail explanation, we should define the words:

1) Check master:

Check master is the master server of shared check tracking system and floating clerk interrupt system. This terminal has check index and detail files and controls them.

2) Check backup master:

Check backup master is the backup server of shared check tracking system and floating clerk interrupt system. This terminal also has check index and detail files and update them at the same timing of master.

When the check master goes down, the backup master plays the role of check master.

3) Check self master:

Check self master has its check tracking system files and clerk interrupt files for itself.

4) Satellite:

The terminal which is not assigned to 1) ~ 3) above.

5) Remote printer:

Remote printer prints data sent from both its own terminal and other terminal of the system.

6) Local printer:

Local printer prints data sent from its own terminal.

1-9-1. Shared check tracking system/floating clerk interrupt system

System Recommendation

Up to 8 remote printers

Order Order   Order Order Order

PRN (1) PRN (2)   PRN (1) PRN (2) PRN(3)

inline (wire or wireless)

CHK/BM   CHK/M

Slip

Up to 12 QT-6000 terminals

Hardware Configuration

Up to 8 remote printers

Order | Order | Order | Order | Order
PRN (1) | PRN (2) | PRN(3) | PRN (1) | PRN (2)

Order | Order | Order
PRN (1) | PRN (2) | PRN(3)

CHK/BM

CHK/M Slip

3 terminals/system

Up to 6 remote printers

Order | Order | Order | Order | Order | Order
PRN (1) | PRN (2) | PRN(3) | PRN (1) | PRN (2) | PRN(3)

CHK/BM

CHK/M Slip

2 terminals/system

Available peripherals versus ECR definition

✓: Available

ECR definition	Peripherals		
	Remote printer	Slip printer	PC/ MODEM
Check master	✔	✔	✔
Check backup master	✔	✔	✔
Self master	✔	✔	✔
Satellite	✔	✔	✔

Available combinations ECR definition

✓: Available

ECR definition	Check master	Check backup master	Self master	Terminal w/ remote printer
Check master		×	×	✔
Check backup master	×		×	✔
Self master	×	×		✔
Terminal w/ remote printer	✔	✔	✔	

Note:

1) Please follow the system recommendation above. Otherwise the system performance may be slow down.

1-8-2. Inline collection/consolidation system

• Inline collection/consolidation and auto-programming for up to 32 terminals.

Note: Maximum 3 remote printers in the 1 terminal system, 6 remote printers / 2 terminal system, 8 remote printers in the 3 ~ 32 terminal can be defined.

Via COM 1 port of the master terminal
or Inline (wire or wireless)

Maximum 32 terminals
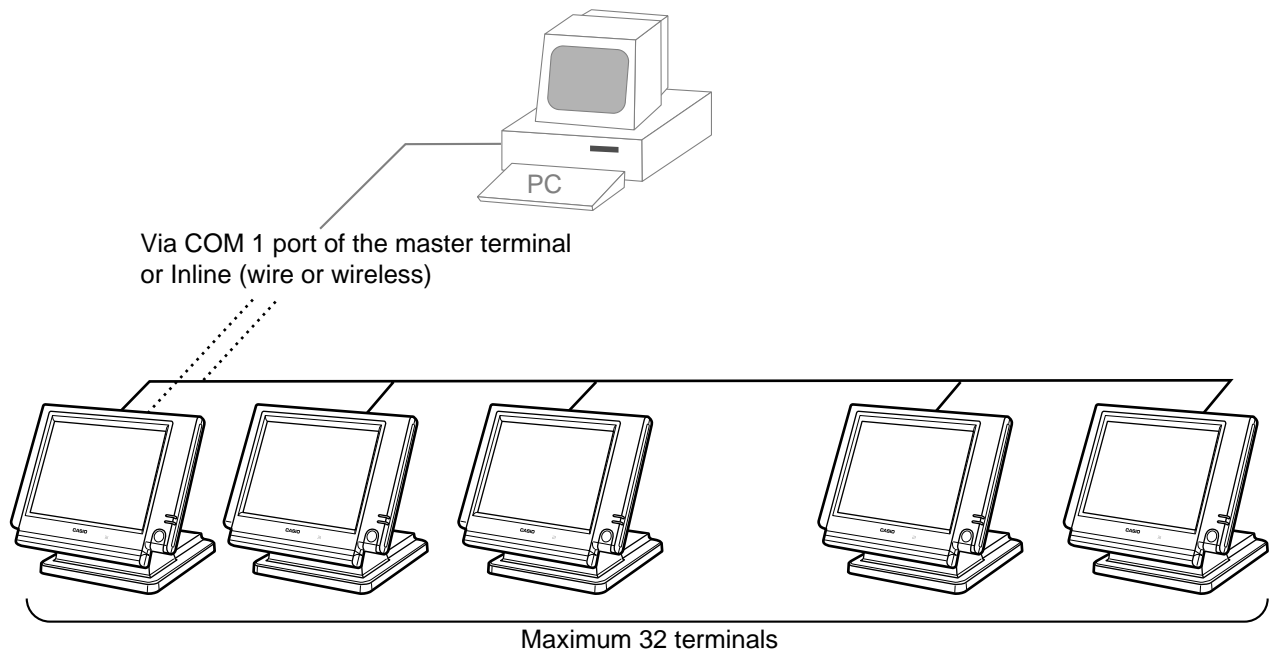
1-8-3. Online collection / consolidation system

• Online collection / consolidation and auto-programming for up to 32 terminals.

Note: Maximum 3 remote printers in the 1 terminal system, 6 remote printers / 2 terminal system, 8 remote printers in the 3 ~ 32 terminal can be defined.

Maximum 32 terminals

Application System

2. Application systems

This section describes the configuration of application system and their related setting with the QT-6000. Reading this section provides a general understanding of the overall system of the terminal.
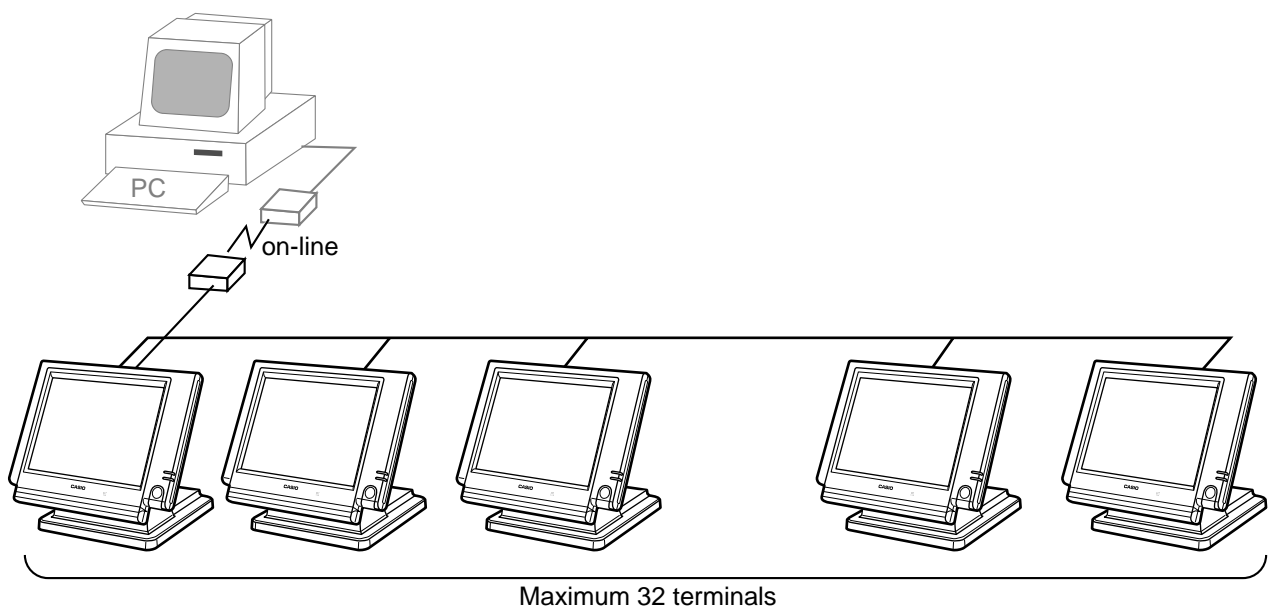
2-1. General description of application system

2-1-1. File concept

Programming data for each function, as well as registration data, are assigned and handled in the RAM of the terminal in data blocks called files. Each files identified by a 3-digit file number consists of multiple records.

Memory management on a file basis allows flexibility memory allocation in accordance with the application of a specific terminal. The number of records per file can be programmed, and a file can even be programmed for zero records.

There are three types of files:
– Terminal files:
   Terminal files include system work files, daily total files, periodic total 1, periodic total 2 files, buffer files, and program files. Periodic total files have only totalizer field, and totalize the same data which is accumulated to terminal files at the same time. The periodic total 1 files have 100 order file numbers, and the periodic total 2 files have 200 order file numbers.
   These files can be reset individually and separately from the terminal files. This provides access to weekly and monthly total data. The periodic total 1 files and 2 files have the same functions, and can accumulate data with different periods. The same number of records as the corresponding terminal file must be reserved for each periodic total files.
– Consolidation files:
   Consolidation files are work files for consolidation of daily total, periodic 1 total and periodic 2 total data from each terminal, and have 300, 400 and 500 order file numbers, respectively. The same number of records as the corresponding terminal files must be reserved for each file, on the master terminal.
– Consolidation work files:
   Consolidation work files are work files for collection/consolidation of daily, periodic 1/2 data from each terminal. The files have 600 order file numbers.
   The file number of records as the corresponding terminal file must be reserved for each consolidation file.

Each file requires an internal work area, so calculation of actual file size can be performed using the following formula:

Record length $\times$ Number of records + Work area = Actual file size

The table on the page 14 ~ 17 of the programming manual shows all the files available for the terminal. See the Appendix A-2 of this manual for detail formats of individual files.

2-1-2. Linkage of totalizers

Registered data is accumulated to totalizers which are reserved for each functions.
The QT-6000 has the following types of totalizers:

1) Fixed totalizers
   Registration data is accumulated for individual terminals.
2) Function key totalizers
   Data input by finalize or transaction keys is accumulated in totalizers for each key.
   Operation types, as well as data used in operation differ depending on the key.
3) Subdepartment totalizers
   Registration data is accumulated in totalizers for each subdepartment.
4) Department totalizers
   Registration data is accumulated in totalizers for each department.
5) Group totalizers
   Registration data is accumulated in totalizers for each group.
6) PLU totalizers
   Registration data is accumulated in totalizers for each PLU.
7) Clerk totalizers
   Registration data is accumulated for each relevant clerk. A clerk detail totalizer can be
   linked to a fix totalizer, finalize key, transaction key, or item totalizer (department /
   PLU / subdepartment / group), and accumulate data registered for the destination
   totalizer of each relevant clerk.
8) Other totalizer
   Functions for hourly sales, monthly sales void reason, table analysis, time attendance
   and hourly item also have totalizers.

Registration data flow
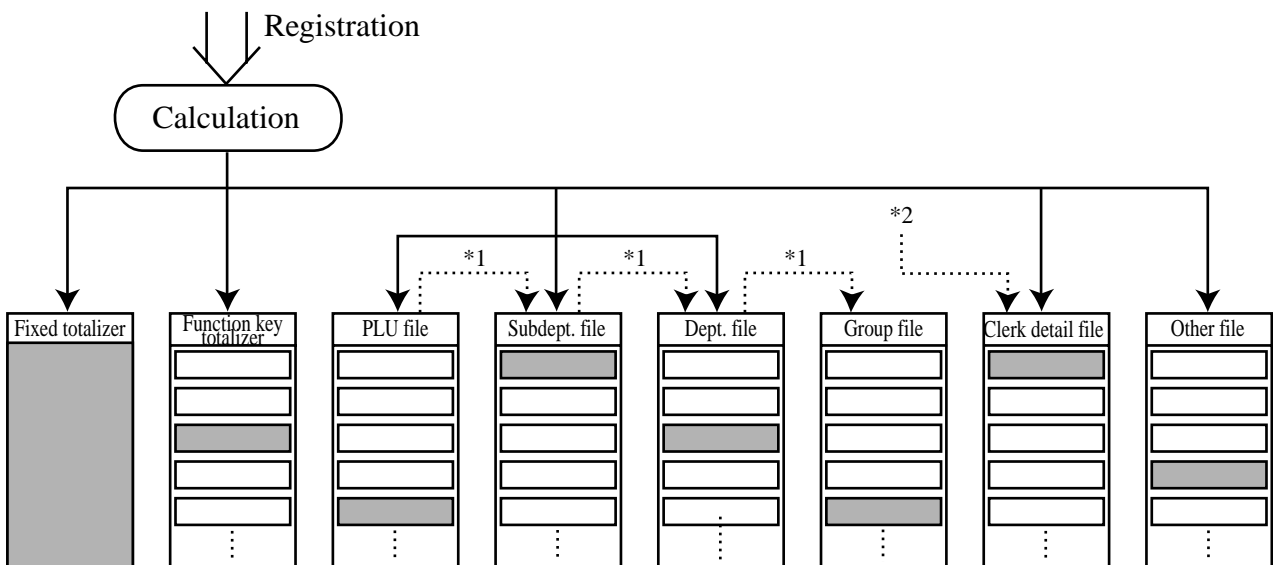
^{*1} Linking between PLUs, subdepartments, departments and groups can be programmed
to meet the needs of the retail environment.
PLUs can be programmed to link with subdepartments, departments or group, while
subdepartment can be programmed to link with department or group, and department
can be programmed to link with group.
When a PLU is programmed to link with a department, data registered for the PLU is
also accumulated to the department. In addition, when the department is programmed
to link with a group, data registered for the PLU is simultaneously reflected the
department totalizer and group totalizer.

^{*2} When data is registered to a totalizer which is preset in the clerk detail link table, the
data is also accumulated to the clerk detail totalizer reserved for each relevant clerk.

2-1-3. Function keys

The keys on the keyboard can be assigned various functions that are used for registration as required for the terminal. For convenience sake, these functions are called by function keys.
There are two types of function keys:

1) System keys
Numeric keys, clear key, home position key, left / right / up / down arrow keys, yes key, no key, mode selection keys, ESC/SKIP key, page up / down key are system keys.

2) Function keys
These function keys are used for finalize a transaction, to specify the functions for a registration or to specify the meaning of a entry. These function keys have programmable functions, which are set to the transaction key / department / subdepartment / PLU file.
Function keys include finalize key, transaction key, department key, subdepartment key and flat PLU key.

The list of all function keys is shown in the Program 4 chapter of the programming manual. General descriptions of individual function keys are found in the chapter 2-2.

2-1-4. Keyboard layout

Normally, the keyboard is assigned functions which are required for registration of transactions. The keyboard is also used for character input when entering descriptors or names during programming.
The QT-6000 automatically switches the keyboard to its character input function when it determines that character input is required for the operation sequence you are performing. This means that you can input characters without having to worry about manually changing the keyboard input mode.

The function key (except system keys) allocation is fully programmable to meet the specific needs of each terminal. The actual programming of key layouts can be performed in the PGM4 mode, and programmed data is written onto the key table (file 074/174).
The allocation can also be programmed when programming each function file for programming function keys such as finalize keys, transaction keys, department keys, subdepartment keys, and flat PLU keys.

Standard function key layout

Refer to the page 16 of the user's manual.

Character key layout

Refer to the page 104, 105 of the programming manual.

Application System

2-1-5. Mode control

With the QT-6000, each clerk can be programmed to enable or disable operations in the following modes:

– REF mode
– REG– mode
– REG mode
– X/Z mode
– Program 1 ~ 6 mode
– Manager mode
– Inline X/Z mode
– Inline auto program
– CF backup / restore mode

Also, each clerk can be programmed to enable or disable operations of every function key. Though the terminal has no actual REG 2 mode, on the page 48 in the Clerk Control function chapter of this manual, the manager control procedure is described.

Arrangement execution mode programmed in the arrangement key ignores the mode control program by the clerk.

Please note that if a clerk want to operate an arrangement, he / she should allow to operate arrangement function.

2-1-6. Operation prompt and error messages

The QT-6000 displays messages to indicate the status of the terminal being operated or programmed. These messages help to determine the status of the terminal or the required subsequent action.

2-1-6-1. Operation prompt

Refer to the page 201 of this manual for details. These messages cannot be added, modified or deleted.

2-1-6-2. Error messages

Refer to the page 198 ~ 200 of this manual for details. Error messages are displayed to indicate that an error has occurred and a compulsory operation must be performed. All error messages cannot be added, modified or deleted.

2-1-7. Printing control system

The following describes the control system for printing of receipts, the journal, validation, slips and X/Z reports.

2-1-7-1. Receipt print control during normal registration

Normally, the receipt is printed to reflect the details of a registration as it is performed, with the receipt being issued with the finalize operation. By using the <RECEIPT ON/OFF> key, the receipt issuance status can be turned off to suspend printing and issuance of receipts when so desired. Pressing the <RECEIPT ON/OFF> key turns the receipt issuance status on or off, and when the receipt issuance status is On, the icon "RECEIPT ON" appears.

The following programming can be performed for receipt printing:

Description	Program location
Receipt "Item consolidation"	PGM3; Machine Control3 in General Feature
Receipt "Sort by group, department"	PGM3; Machine Control3 in General Feature
Print consecutive number on the receipt	PGM3; Machine Control3 in General Feature
Print date / time on the receipt	PGM3; Machine Control3 in General Feature
Vertical double character	PGM3; Machine Control3 in General Feature
Set menu detail on guest / slip	PGM3; Print Control in General Feature
Print PLU number	PGM3; Print Control in General Feature
Print finalized total	PGM3; Print Control in General Feature
Print taxable amount	PGM3; Print Control in General Feature
Print taxable status	PGM3; Print Control in General Feature
Print total number of item sold	PGM3; Print Control in General Feature
Print customer number (number of covers)	PGM3; Print Control in General Feature
One line feed after finalization	PGM3; Print Control in General Feature
Time format (24H / 12H)	PGM3; Print Control in General Feature

2-1-7-2. Validation print control

The QT-6000 allows use of the slip printer (SP-1300) for validation printing of item registrations, function registrations and sales totals. To perform validation printing, insert the validation paper into the slip printer, and then press the <VALIDATION> key (function code 037).

The following description shows the print format for validation performed using the slip printer.

There are three general types of validation printing:
1) Finalization validation
2) Transaction validation
3) Item validation

Finalization validation is performed following finalization operations with finalize keys. When a validation is performed following receipt issuance, the sales total or tendered amount is printed, while partial tendering, the tendered amount for the specified medium is printed.

Transaction validation is valid for the following function keys:
– Received on account, Paid out, finalization of Pick up or Loan, Check cashing, Minus, Plus, Discount, Premium, Void, Coupon, Coupon2, Tip, Deposit, Subtotal, Merchandise subtotal keys

You can program the allowable number of validation printings or multiple validation printing status for the above listed keys.
Also some of these keys can be programmed as validation compulsory, this means that registration is not permitted until the validation of the former registration has been performed.

Item validation is performed directly following an item registration listed below.
– Departments
– Subdepartments
– PLUs

You can program the multiple validation printing status for above items.

2-1-7-3. Slip print control

Connection of an optional slip printer (SP-1300) to the QT-6000 makes it possible to print transaction details on a slip.

To print a slip, insert a slip paper into the printer, and adjust paper position by entering the number of printed lines and pressing the <SLIP FEED/RELEASE> key (function code 056) or the <SLIP BACK FEED/RELEASE> key (function code 054) and then press the <SLIP PRINT> key (function code 055). Or it is possible to find the appropriate slip printing start line automatically.

After printing a slip, the paper is automatically released.

If the paper is not released for some reasons, press <SLIP FEED/RELEASE> or <SLIP BACK FEED/RELEASE> to release the paper.

Before using slip printer, you should program the maximum lines of slip.

The following two sections are other features to control slip printing format:

2-1-7-4. Endorsement message print control

The QT-6000 allows printing of endorsement messages on the slip printer (SP-1300) for check registrations. To perform endorsement message printing, insert the paper into the slip printer following finalization using the <CHECK> key or check cashing transaction using the <CHECK> key, and press the following key:

– Endorsement key (function code 039)

Check key and check cashing key can be programmed for compulsory endorsement print. The endorsement message contents should be programmed into the endorsement message file (file 033).

2-1-7-5. Check printing print control

The QT-6000 allows printing check tendered amount on a check inserted into the slip printer. To perform check printing, insert the paper into the slip printer following check finalization using the <CHECK> key, and press the following key:

– Check print key (function code 012)

Check key can be programmed for compulsory check print. The check printing format is controlled by the check print file (file 041).

2-1-7-6. X/Z report print control

The QT-6000 can output a report in the read (X) or reset (Z) mode. The following shows the programming for X/Z print controls:

Description	Program location
Items on the fixed totalizer report	PGM3; Report Control1 in General Feature
Items zero skip	PGM3; Report Control2 in General Feature
Average spend/item on monthly report	PGM3; Report Control2 in General Feature
PLU order (memory / random code)	PGM3; Report Control2 in General Feature
Print / Non print PLU No. on PLU report	PGM3; Report Control2 in General Feature
Print / Non print Sales ratio	PGM3; Report Control2 in General Feature
Print / Non print Z counter	PGM3; Report Control2 in General Feature
Print / Non print Item discount totalizer	PGM3; Report Control2 in General Feature
Print GT	PGM3; Report Control2 in General Feature

2-2. General description of individual function keys

This section describes individual function key that can be assigned to the keys on the keyboard of QT-6000.

2-2-1. System keys

The system key consist on a non-programmable function key.
The following system keys are available.

1) Numeric keys (0, 1 ~ 9, 00, 000, decimal point)

These keys are used for inputting numerical data such as PLU codes, amounts, quantities, etc. These keys must be allocated on the keyboard.

2) Clear key

This key is used for clearing numerical values after they have been input, and after incorrect function keys have been pressed. This key also can be used to clear errors. This key must be allocated on the keyboard.

3) Home position key

This key is used for returning cursor to the home position.

4) Left, right, up, down arrow keys

These keys are used for moving the cursor.

5) Yes key

This key is used for consenting the selection and proceeding steps.

6) No key

This key is used for cancelling the selection and proceeding steps.

7) Mode key

This key is used for changing modes of the terminal. This key shows the allowable mode keys in the mode pop-up window.

8) ESC/SKIP key

This key is used for terminating a programming sequence, X/Z sequence, and returning the former window. This key is also used for terminating a report being issued in PGM, X, and Z mode.

9) Display on/off key

This key is used for turning on / off the terminal.

10) Page up key

This key is used for turning the window forwards.

11) Page down key

This key is used for turning the window backwards.

Application System

2-2-2. Finalize keys

This section covers the general description of each finalize key, with its respective options. Finalize keys have programmable functions which may be used as required.

1) Tender key

This key is used for finalizing transactions. Up to six media in drawer totalizers are reserved in the fixed totalizer file, and cash key is linked to cash in drawer, charge key to charge in drawer, check key to check in drawer and credit key to credit in drawer, food stamp tender key to food stamp in drawer, EBT tender key to EBT in drawer.

When this key is pressed, the total amount of the transaction is calculated. Normally, a receipt is issued and the drawer opens at the same time. The total amount is added to the appropriate totalizers and counters, with consecutive numbers being increased by one. When an amount exceeding the sales amount is received, the change is calculated, displayed and printed on the receipt.

This key can also be used in combination with other finalize keys for partial tender and can also be used to specify the type of media during loan, pick up or media change operation.

Programmability: Refer to page 83, 84 of the programming manual.

2) New balance key

This key is used for adding the latest registered total amount to the previous balance to obtain a new balance.

When this key is pressed, the total amount of the transaction is calculated. Normally, a receipt is issued.

Programmability: Refer to page 84 of the programming manual.

2-2-3. Transaction keys

Each of the transaction keys have programmable functions which may be used as required. The general description of each transaction key, with individual options, is outlined on the following sections.

1) Price inquiry key (Function code 008)

This key is used to confirm the price and descriptors of PLU without registering.

2) Stock inquiry key (Function code 009)

This key is used to confirm the stock quantity and descriptors of PLU without registering.

3) Text recall key (Function code 010)

This key is used to recall characters.

Programmability: Refer to page 85 of the programming manual.

4) Text print key (Function code 011)

This key is used to print the entered characters.

Programmability: Refer to page 85 of the programming manual.

5) Check print key (Function code 012)

This key is used to print the check on the slip printer (SP-1300). Pressing this key allows the selection from the following list to print on a check.

1. Check amount in Arabic numerals (normal size / double size)
2. Date (normal size / double size)
3. Check print message in the check endorsement message file

This item noted above can be arranged into a check print format according to the needs of the store. Check printing using this key is valid only for the following operation of the check key.

Programmability: Refer to page 85 of the programming manual.

6) Clerk transfer key (Function code 013)

This key is used to transfer opened checks to another clerk.

Programmability: Refer to page 86 of the programming manual.

7) Table transfer key (Function code 014)

> This key is used to transfer the contents of a check to another check.
> Programmability: Refer to page 86 of the programming manual.

8) Tip key (Function code 015)

> This key is used to register tips.
> Programmability: Refer to page 87 of the programming manual.

9) Normal receipt key (Function code 016)

> This key is used to change the order status from Bon to normal and from single item sales to normal.

10) Loan key (Function code 019)

> This key inputs the amount of money provided for making change. This operation affects media totals, rather than sales totals.
> Loans are made for all types of money which can be specified by finalize keys.
> Programmability: Refer to page 87 of the programming manual.

11) Received on account key (Function code 020)

> This key is used to register amounts received for purposes other than sales transactions. This transaction affects media totals, rather than sales totals.
> Programmability: Refer to page 87 of the programming manual.

12) Paid out/Euro key (Function code 021)

> This key is used to register amounts of paid outs from the terminal. This transaction affects media totals, rather than sales totals. If the terminal has the file 099 (Euro program file), this key also works as "Euro" key. Euro key has the following features: (1) Converting the main currency to the sub currency, when registering a subtotal amount. (2) Specifying sub currency while entering an amount for payment.
> Programmability: Refer to page 87 of the programming manual.

13) Pick up key (Function code 022)

> When sales receipts are removed from the drawer or when the amount in-drawer exceeds the limit value (sentinel function), the manager performs a pick up operation. This key is used for this function. This operation affects media totals, rather than sales totals.
> Pick ups are made for all types of money which can be specified by finalize keys.
> Programmability: Refer to page 87 of the programming manual.

14) Coupon key (Function code 023)

> This key is used for registering coupons. This operation affects the coupon amount in the coupon totalizers. The registered coupon amounts is not deducted from the department, PLU or gross totalizers, but from the net totalizers only. (selecting GROSS specification)
> Programmability: Refer to page 88 of the programming manual.

15) Deposit key (Function code 025)

> This key is used to register deposits.
> Programmability: Refer to page 89 of the programming manual.

16) Minus key (Function code 027)

> This key is used to register subtraction. This operation affects the subtraction amount in the minus key totalizers. The registered amounts is not deducted from the department, PLU or gross totalizers, but from the net totalizers only. (selecting GROSS specification)
> Programmability: Refer to page 88 of the programming manual.

17) Discount key (Function code 028)

> This key applies a preset % or manual input % to obtain the discount amount for the last registered item or subtotal.
> Programmability: Refer to page 90 of the programming manual.

18) Plus key (Function code 029)

> This key is used for registering surcharge. This operation affects the surcharge amount in the plus key totalizers. The registered amounts is not added to the department, PLU or gross totalizers, but from the net totalizers only. (selecting GROSS specification)
> Programmability: Refer to page 88 of the programming manual.

19) Premium key (Function code 030)

> This key applies a preset % or manual input % to obtain the premium amount for the last registered item or subtotal.
> Programmability: Refer to page 90 of the programming manual.

20) Refund key (Function code 033)

> This key declares next input for a return money.
> Programmability: Refer to page 100 of the programming manual.

21) Error correct/Void key (Function code 034)

> This key is used to correct the last registered item, discount, premium, partial tendered, etc. This key also invalidates proceeding data registered for departments subdepartments, PLUs or set menus only.
> Programmability: Refer to page 89 of the programming manual.

22) Coupon 2 key (Function code 036)

> This key is used to register coupons. The registered coupon amounts is deducted from the department, subdepartment, PLU or gross totalizers and the net totalizers.

23) Validation key (Function code 037)

> This key validates item or transaction amounts on slips. Validation can be made compulsory for certain function keys. Multiple validation can be prohibited for certain function keys.

24) Receipt key (Function code 038)

> This key issues a receipt for the last transaction (post-finalization receipt) when the original receipt is not issued. This key also issues a guest receipt. The guest receipt can be designated by seat number.
> Programmability: Refer to page 91 of the programming manual.

25) Check endorsement key (Function code 039)

> This key is used to print a preset check endorsement using the slip printer.
> Programmability: Refer to page 89 of the programming manual.

26) Non-add key (Function code 040)

> This key prints reference numbers (personal check number, card number etc.)
> Programmability: Refer to page 91 of the programming manual.

27) Non-add / No sale key (Function code 041)

> This key prints reference numbers (personal check number, card number etc.)
> This key also opens the drawer between transaction.
> Programmability: Refer to page 91 of the programming manual.

28) No sale key (Function code 042)

> This key opens the drawer between transaction.

29) Number of customer key (Function code 043)

> This key registers the number of customers.
> Programmability: Refer to page 92 of the programming manual.

30) Arrangement key (Function code 044)

> This key is used to activate an arrangement program programmed in the arrangement file. Any operation that can be performed from the keyboard, as well as mode, can be programmed in an arrangement program, and can be performed merely by pressing this key.
> The mode control function of this key can be programmed for all modes.
> Programmability: Refer to page 92 of the programming manual.

31) Currency exchange key (Function code 045)

This key converts foreign currency to local currency or vice versa using the exchange rate preset for the key and displays the result.

This key is used for conversions of a home currency subtotal or merchandise subtotal to equivalent of another country's currency.

This key is also used for conversion of another country's currency payment to the equivalent of the home currency.

Programmability: Refer to page 93 of the programming manual.

32) VAT key (Function code 046)

This key is used to print VAT breakdowns.

33) Bill copy key (Function code 047)

This key is used to issue bill copy.

34) PLU key (Function code 048)

This key is used to enter PLU numbers.

35) Price key (Function code 049)

This key is used in the following transactions to enter a unit price.
– Department registration using the department number key
– Subdepartment registration using the subdepartment number key
– Open PLU registration

In case of the department or subdepartment registration mentioned above, the Price key is pressed after entering the unit price to override a unit price preset to the department or subdepartment. If the preset price is to be registered as it is, simply press the Price key.

36) Department key (Function code 051)

This key is used to register items for a department.

Programmability: Refer to page 80 of the programming manual.

37) Slip back feed / Release key (Function code 054)

This key is used to back feed slips inserted into the slip printer. This is done by specifying the number of feed lines. This key is also used to release the slip paper holder if numbers are not entered.

38) Slip print key (Function code 055)

This key is used to execute a slip batch printing on the slip printer. Pressing this key prints the sales details. Actual printing is performed following receipt issuance.

Programmability: Refer to page 93 of the programming manual.

39) Slip feed / Release key (Function code 056)

This key is used to feed slips inserted into the slip printer. This is done by specifying the number of feed lines. This key is also used to release the slip paper holder if numbers are not entered.

40) Tax status shift key (Function code 057)

This key activates tax table which is specified by the tax status programmed for this key. The tax status is programmed for the departments, subdepartments, PLUs, minus, plus, discount and premium keys. Pressing this key during registration converts taxable item to non taxable, and non taxable item to taxable.

Programmability: Refer to page 93 of the programming manual.

41) Table number key (Function code 058)

This key is used to input table numbers.

42) Food stamp status shift key (Function code 059)

The food stamp status is programmed for the departments, subdepartments, PLUs, minus, plus, discount and premium keys. Pressing this key during registration converts food stampable item to non stampable, and non stampable item to stampable.

43) Tax exempt key (Function code 062)

This key is used to change taxable amounts to nontaxable amounts. This key works adding on a tax system only.
Programmability: Refer to page 97 of the programming manual.

44) Flat PLU key (Function code 063)

This key is used to register items to flat PLU.
Programmability: Refer to page 78 of the programming manual.

45) Menu shift key (Function code 064)

This key is used to shift Flat PLU key to the n-th (n = 1 ~ 8) menu.
Programmability: Refer to page 99 of the programming manual.

46) Shift PLU key (Function code 065)

This key is used to shift a Flat PLU key to the n-th (n = 1 ~ 8) level.
Programmability: Refer to page 99 of the programming manual.

47) Open key (Function code 067)

This key is used to release the maximum amount limit or low digit limit (programmable) for an amount which exceeds the limit.
Programmability: Refer to page 94 of the programming manual.

48) Open 2 key (Function code 068)

This key is used to suspend the compulsory specifications listed below.
Programmability: Refer to page 94 of the programming manual.

49) First unit price key (Function code 069)

This key is used to register a specific item at the first unit price.

50) Second unit price key (Function code 070)

This key is used to register a specific item at the second unit price.

51) Clerk number key (Function code 072)

This key is used to assign a clerk's secret number.
Programmability: Refer to page 95 of the programming manual.

52) Operator read / reset key (Function code 073)

This key is used to issue a clerk's individual X/Z report.
Programmability: Refer to page 95 of the programming manual.

53) Tray total key (Function code 074)

This key is used to obtain the sectional subtotal amount.
Programmability: Refer to page 99 of the programming manual.

54) Subtotal key (Function code 075)

This key is used to obtain subtotal amount with add-on tax and previous balance.
Programmability: Refer to page 95 of the programming manual.

55) Receipt On / Off key (Function code 076)

This key is used to change the status "Receipt issue" or "No receipt."
– Receipt off / Receipt and journal off

56) Taxable amount subtotal key (Function code 077)

This key is used to obtain taxable amount subtotal.
Programmability: Refer to page 93 of the programming manual.

57) Operator number key (Function code 078)

This key is used to enter a clerk number during clerk transfer.

58) Merchandise subtotal key (Function code 080)

This key is used to obtain subtotal excluding the add-on tax amount and the previous balance.
Programmability: Refer to page 95 of the programming manual.

59) Food stamp subtotal key (Function code 081)

This key is used to obtain food stamp subtotal. This key should be pressed just before <FOOD STAMP> or <EBT> finalization.

60) Quantity / For key (Function code 083)

This key provides the same functions as the multiplication key. In addition, this key also has a split pricing function. The function is used to calculate the price per unit for particular items, which are sold in bulk in order to obtain the total amount for the number of units purchased.
Programmability: Refer to page 96 of the programming manual.

61) Square key (Function code 084)

This key provides the same functions as the multiplication key. In addition, this key also has a square multiplication function.
Programmability: Refer to page 96 of the programming manual.

62) Selective item subtotal key (Function code 085)

This key is used to obtain the selective item 1 / 2 subtotal amount.
In addition to the common programming, this key has the following option:
– Selective item status 1 / 2

63) Cube key (Function code 090)

This key provides the same functions as the multiplication key. In addition, this key also has a cube multiplication function.
Programmability: Refer to page 96 of the programming manual.

64) New check key (Function code 091)

This key is used in a check tracking system to input a new check number in order to open a new check under that number.
Programmability: Refer to page 98 of the programming manual.

65) Old check key (Function code 092)

This key is used in a check tracking system to input the number of an existing check (previously created by the New check key) whose details are stored in the check tracking memory. Existing checks are reopened to perform further registration or to finalize them.
Programmability: Refer to page 99 of the programming manual.

66) New / Old check key (Function code 093)

This key is used in a check tracking system to input check numbers in order to open new checks and to reopen existing checks. When the clerk inputs a check number, the terminal checks to see if that number already exists in the check tracking memory. If there is no matching number in the memory, a new check is opened under the input number. If the check number input matches a number already stored in the memory, that check is reopened for further registration or finalization.
Programmability: Refer to page 98 of the programming manual.

67) Add check key (Function code 094)

This key is used in a check tracking system to combine the details of more than one check into a single check.

68) Separate check key (Function code 095)

This key is used in a check tracking system to separate selected items or to separate by seat number from one check to another check.

69) OBR (Optical Barcode Reader) key (Function code 103)

This key is used to enter scanning PLU code manually.

70) Clock-in/out key (Function code 108)

This key is used to register the time when employees start/finish their job.
Programmability: Refer to page 97 of the programming manual.

71) Break-in / out key (Function code 109)

> This key is used to register the starting / finishing time when employees have a recess.
> Programmability: Refer to page 97 of the programming manual.

72) (future use)

73) Substitution key (Function code 111)

> Replaces group PLU with a PLU not preset in the pulldown menu.

74) Ketten Bon key (Function code 113)

> This key is used to enter quantities for multiplication. Multiplication by this key issues singular order prints.
> Programmability: Refer to page 96 of the programming manual.

75) House Bon key (Function code 114)

> This key is used to register items for in-store use.

76) Post entry key (Function code 115)

> This key is used in a check tracking or clerk interrupt system to indicate the reserved item of set menu and register it as a fixed item later on.
> – Enter post entry
>   Press this key while the window is opened, the key descriptor appears on the screen and it is registered as a reserved item.
> – Fix post entry
>   After finishing the set menu registration, move the cursor on to the reserved item, press this key again, then the appropriate window will be opened to fix it.

77) Round repeat key (Function code 116)

> This key is used to register the same items which were ordered just before.
> Programmability: Refer to page 98 of the programming manual.

78) Open check key (Function code 117)

> This key is used to issue an open check report of an assigned clerk.
> Programmability: Refer to page 96 of the programming manual.

79) Media change key (Function code 118)

> This key is used to change media in drawer amounts. Pressing this key enters media change operation.

80) Seat number key (Function code 119)

> This key is used to enter and print seat number.

81) Eat-in key (Function code 128)

> This key is used to specify if the customer eats in the restaurant. Before closing a transaction, press this key.
> Programmability: Refer to page 98 of the programming manual.

82) Takeout key (Function code 129)

> This key is used to specify if the customer takes out items. Before closing a transaction, press this key for the tax exemption.
> Programmability: Refer to page 98 of the programming manual.

83) Store key (Function code 130)

> This key is used for storing the check number of the registered items. Allocate this key to the terminal at the drive-through entrance. When this key is pressed, registered item data will be stored, and then these data will transfer to the youngest check number.
> Programmability: Refer to page 98 of the programming manual.

84) Recall key (Function code 131)

> This key is used for recalling the transferred check number by the store key. When you press this key, the check number will appear in order of the oldest record.
> Programmability: Refer to page 99 of the programming manual.

85) Subdepartment key (Function code 133)

> This key is used to register items for the subdepartment.
> Programmability: Refer to page 79 of the programming manual.

86) Subdepartment number key (Function code 134)

> This key is used to enter subdepartment numbers.

87) Department number key (Function code 135)

> This key is used to enter department numbers.

88) List key (Function code 136)

> This key is used to display menu lists.
> Programmability: Refer to page 96 of the programming manual.

89) List number key (Function code 137)

> This key is used to designate list number.

90) Dutch account key (Function code 140)

> This key is used to share the total payment by customer.
> Programmability: Refer to page 99 of the programming manual.

91) Customer ID number key (Function code 148)

> This key is used to enter customer ID number.

92) Payment key (Function code 149)

> This key is used to declare the following transactions as payment.

93) Electronic journal display key (Function code 207)

> This key is used to display the stored journal.

94) Display mode key (Function code 219)

> This key is used to change display modes (normal mode/item consolidation mode).

95) Cancel key (Function code 236)

> Invalidates all preceding data registered for departments, PLUs and set menus within a transaction. This key must be pressed before the transaction involving the data to be invalidated is finalized. It is also effective even after calculation of subtotal amount.
> Programmability: Refer to page 96 of the programming manual.

96) Item search key (Function code 246)

> Use this key to search an item by its name.
> Programmability: Refer to page 100 of the programming manual.

97) Order character change key (Function code 252)

> This key is used to change the order character. The order characters not only of the item but in the order character table can be printed.
> Programmability: Refer to page 100 of the programming manual.

98) Location change key (Function code 260)

> Use this key to select the pop-up window which shows the table layout of each floor/part of the restaurant.
> Programmability: Refer to page 100 of the programming manual.

99) Table sharing key (Function code 261)

> Use this key to assign one table to two or more customer groups.

Application System

2-3. Remote printer control

Up to eight printers for printing kitchen orders etc.

2-3-1. Remote printer system configuration

Please refer to page 17 for the system configuration.

Up to 8 remote printers

Order | Order
PRN (1) | PRN (2)

Order | Order | Order
PRN (1) | PRN (2) | PRN(3)

inline (wire or wireless)

CHK/BM   CHK/M   Slip

Up to 12 QT-6000 terminals
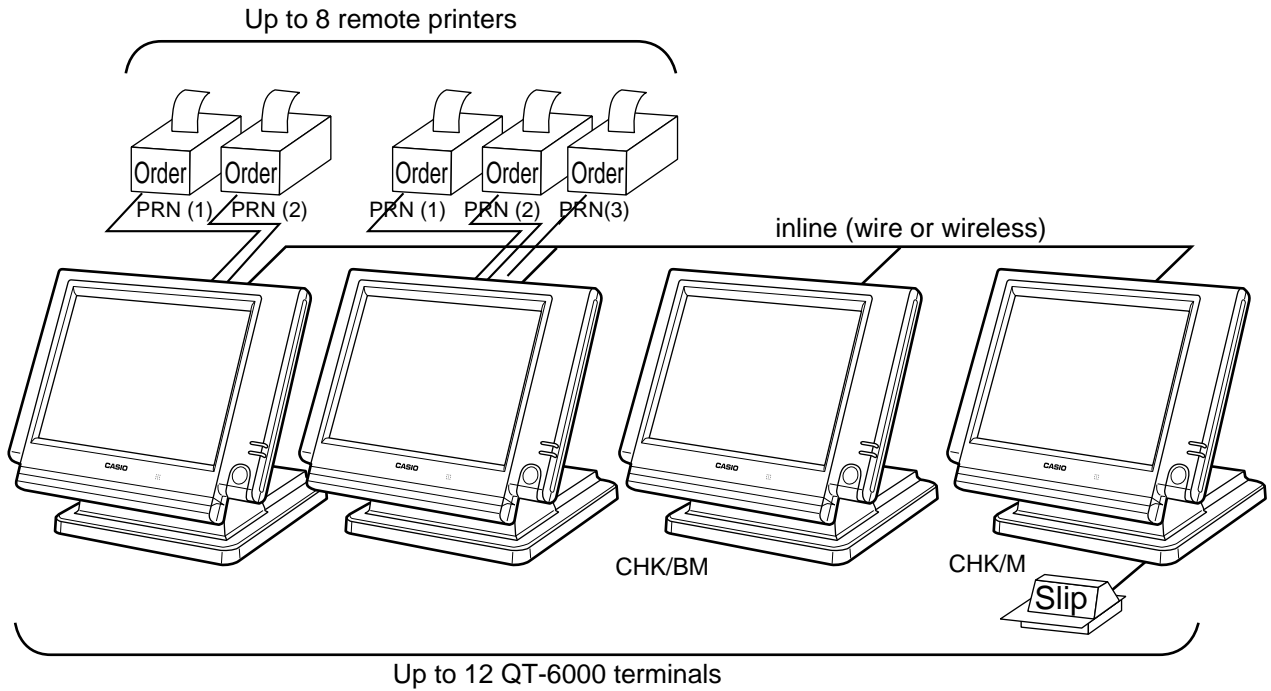
The printing processing of the remote printer is performed as shown in the figure below.

① QT-6000   QT-6000   QT-6000 Print buffer   Remote Printer
②   ③
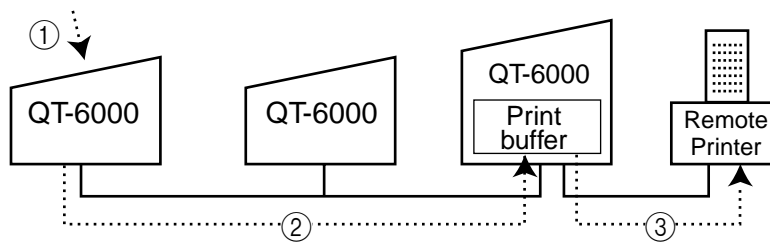
① A transaction is made at a terminal.
② The terminal sends printing data to the terminal with remote printer.
③ The terminal with remote printer sends data to the remote printer.

2-3-2. Remote printer control setting

Remote printer settings:

After changing the DIP switch configuration, remote printer initialization (power on by pressing the <LF> key) is necessary.

UP-350

SW No.		Function	ON	OFF
1	1	Data reception error	Ignored	Prints "?"
	2	Receive buffer capacity	45 bytes	4k bytes
	3	Handshaking	XON/XOFF	DTR/DSR
	4	Data word length	7 bits	8 bits
	5	Parity check	Yes	No
	6	Parity selection	Even	Odd
	7	Transmision speed	See transmission speed setting	
	8			
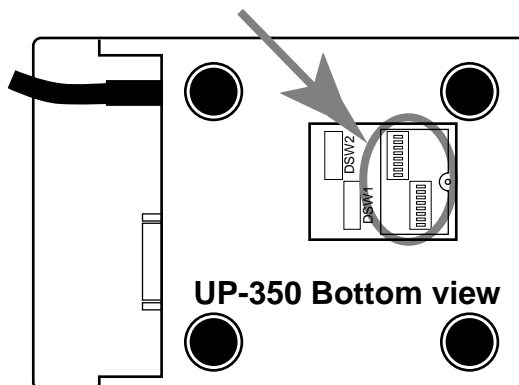
SW No.		Function	ON	OFF
2	1	Busy condition	Buffer full	Buffer full or Offline
	2	Reserved		Fixed
	3	Print density	See density setting	
	4			
	5	Reserved		Fixed
	6	Reserved		Fixed
	7	I/F 6 pin reset signal	Enabled	Disabled
	8	I/F 25 pin reset signal	Enabled	Disabled

UP-350 Bottom view

Transmission speed setting

	SW No.	
bps	7	8
2400	ON	ON
4800	OFF	ON
9600	ON	OFF
19200	OFF	OFF

Density setting

	SW No.	
	3	4
Light	ON	ON
↑	OFF	OFF
↓	ON	OFF
Dark	OFF	ON

UP-250

Dip switch is located at the bottom of the printer.

SW No.		Function	ON	OFF
1	1	Data reception error	Ignored	Prints "?"
	2	Receive buffer capacity	40 bytes	1k byte
	3	Handshaking	XON/XOFF	DTR/DSR
	4	Data word length	7 bits	8 bits
	5	Parity check	Yes	No
	6	Parity selection	Even	Odd
	7	Baud rate	4800 bps	9600 bps
	8	Busy condition	Buffer full	Buffer full or Offline

SW No.		Function	ON	OFF
2	1	No. of digits (7x9 font / 9x9 font)	42 / 35 digits	40 / 33 digits
	2	Internal use		
	3	#6 pin reset signal	Enabled	Disabled
	4	#25 pin reset signal	Enabled	Disabled

Select this option.

UP-360

Dip switch is located at the bottom of the printer.

SW No.		Function	ON	OFF
1	1	Reset by DTR	Yes	No
	2	reserved	---	fixed
	3	Protocol	DTR/DSR	XON/XOFF
	4	Transmission speed	See transmission speed setting	
	5			
	6	Parity	See paritysetting	
	7			
	8	undifined	---	---
	9	Low power comsumption	Yes	No
	10	undifined	---	---

UP-360 Bottom view

Transmission speed setting

	SW No.	
bps	4	5
4800	OFF	OFF
9600	OFF	ON
19200	ON	OFF
38400	ON	ON

Parity setting

	SW No.	
	6	7
Non	OFF	OFF
Even	OFF	ON
Odd	ON	OFF
Non	ON	ON

Memory allocation of files required when remote printers are connected

- Registration buffer (file 036)
- Printer buffer (file 035)

(Reallocate these files, if the file sizes are not enough.)

Other setting

- General machine features

2-3-3. Remote printer output control

The following print items are controlled by programming.
- 0 to 9 line feed above and below printing (only for "order")
- Dashed line print control (only for "order")
- Paper auto cut (only for "order")
- Data communication speed
- Backup remote printer specification
- Print color (normal / reverse or black / red) control: included in the item programming (only for "order")
- Output remote logical order number: included in the item programming (only for "order")
- Remote printer output in training mode (only for "order")
- Item amount printing (only for "order")
- Alert when remote printer is down

2-3-4. Remote printer backup processes

Remote printer error or terminal with remote printer error

In case of the backup printer is assigned, when the terminal which sends printing data to remote printer detects the remote printer or the terminal with remote printer abnormality, the remote printer cross backup (see the next section) is made. In case of no backup printer is assigned or the backup printer is also downed, the data will be able to print on the internal receipt / journal printer.

Remote printer cross backup

When there is more than one remote printer in the system, a setting can be made to enable remote printer cross backup.

Cross backup (example):

Remote printer 1 backup → Remote printer 2
Remote printer 2 backup → Remote printer 1
or
Remote printer 1 with terminal 1 backup → Remote printer 2 with terminal 2
Remote printer 2 with terminal 2 backup → Remote printer 3 with terminal 1

Note that remote printer backup extends a single level only. If remote printer 1 goes down in the above example, remote printer 2 performs backup printing. If remote printer 2 now goes down, remote printer 3 does not take over backup printing.

Remote printer print sample

1) Order printing (Normal receipt printing with amount)

```
        *Soft Drinks*              —— Order character

Check No.123456        MC #01      —— Check number / Machine ID
REG C01      15-12-2003 12:34   001230   —— Mode / Clerk / Date / Time / Consecutive No.

    1 Lemon Tea        •1.00      —— Order with amount
    2 Coffee           •2.00

-------------------------------------   —— Cut or print dot line
```

2) Order printing (Single bon/double bon)

```
        *Soft Drinks*              —— Single Bon

CHECK NO.123456        MC #01
REG C01      15-12-2003 12:34   001234

    1 Lemon Tea



-------------------------------------   —— Cut or print dot line
        *Soft Drinks*              —— Double Bon

CHECK No.123456        MC #01
REG C01      15-12-2003 12:34   001234

    2 Coffee



-------------------------------------
           *STUB*                  —— Double Bon message

        *Soft Drinks*              —— Order character

CHECK No.123456        MC #01      —— Check number/Machine ID
REG C01      15-12-2003 12:34   001234   —— Mode / Clerk / Date / Time / Consecutive No.

    2 Coffee



-------------------------------------
```

3) Order printing (Normal receipt printing without amount)

```
        *Soft Drinks*

CHECK No.123456        MC #01
REG C01      15-12-2003 12:34   001256

    1 Lemon Tea
    2 Coffee
    2 Coffee

-------------------------------------
```

Application System

4) **Order printing (Set menu/preparation/condiment)**

```
CHECK No.123456        MC #01
REG C01      15-12-2003 12:34   001267

  2 Steak Set                    — Set menu
  2  Medium                      — Detail item
  2  Salad



  1 Pizza                        — Main item
  1  Soft                        — Preparation
  1  Cheese                      — Condiment
  1  Tomato



  1 Pizza                        — Main item
     #123456                     — Main item PLU No.
  1  Soft                        — Preparation (with quantity / PLU No.)
     #000001
  1  Cheese                      — Condiment (with quantity / PLU No.)
     #000002
  1  Tomato
     #000003
```

2-4. Check tracking system

2-4-1. Shared check tracking system

Up to 12 terminals can be included in the cluster and check tracking can be performed for multiple terminals connected to inline. This means that any terminal can be used to recall a temporary closed check of one's cluster for additional registration or finalization.

System configuration (1 cluster system)

Up to 8 remote printers

Order Order   Order Order Order
PRN (1) PRN (2)   PRN (1) PRN (2) PRN(3)

inline (wire or wireless)

CHK/BM   CHK/M Slip

Up to 12 QT-6000 terminals
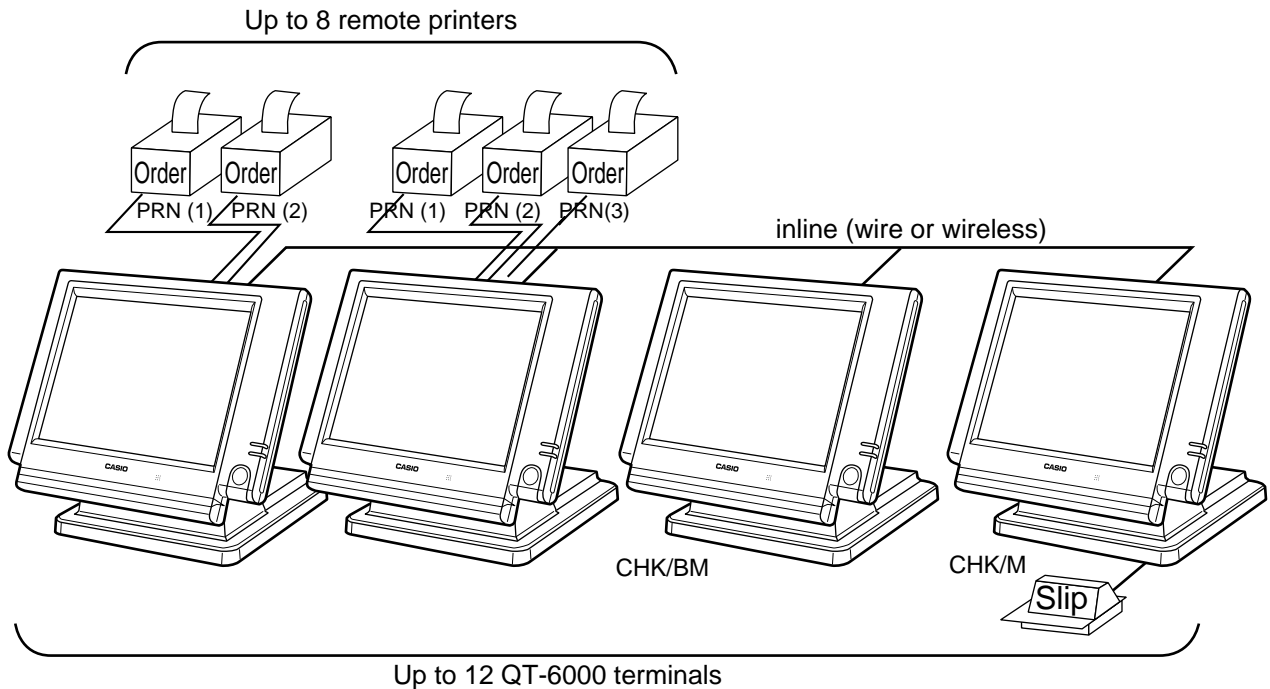
System configuration (multi cluster system)

Up to 8 remote printers/system (in all cluster)

Order Order   Order Order
PRN (1) PRN (2)   PRN (1) PRN (2)

CHK/BM   CHK/M Slip   CHK/BM   CHK/M Slip

Up to 12 QT-6000 terminals/cluster   Up to 12 QT-6000 terminals/cluster
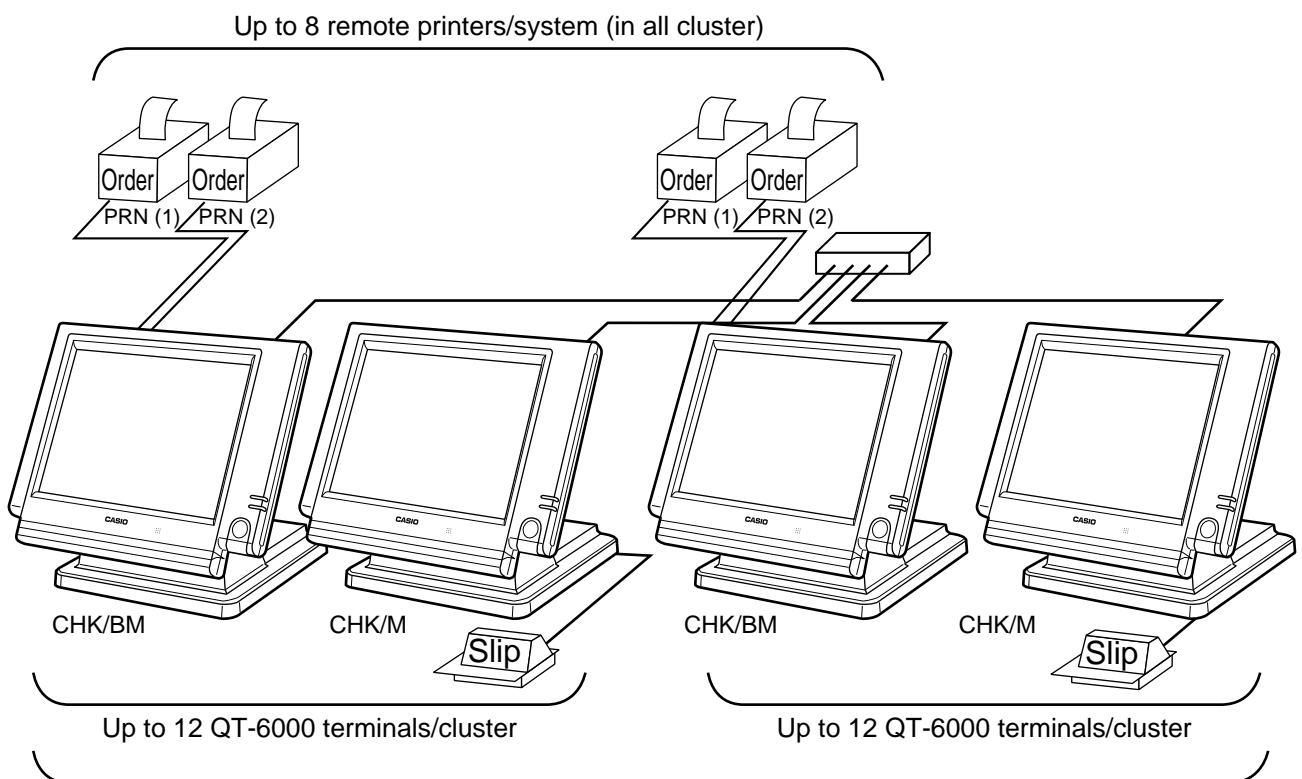
Up to 32 QT-6000 terminals/system (all cluster total)
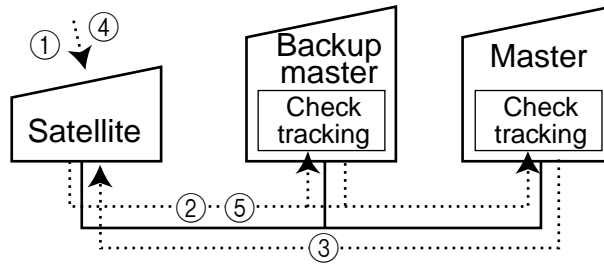
Shared check tracking processing in one cluster is performed as shown in the figure shown above.

① A shared check operation (such as "new check" or "old check" etc.) is made at a terminal.

② The terminal sends the check number to the check tracking master and the backup master. The master and backup master turn on the busy status.

③ The master sends back the check data (if the check number exists) or opens a new check number.

④ A shared check transaction is finalized (by "new balance" or other finalize key).

⑤ The terminal sends the check data to the master and the backup master. And the master/backup master clears the busy status of the check number.

2-4-2. Shared check tracking requirement

The following definition of memory allocation is required in each terminal before you can perform shared check tracking.

- Number of check tracking tables:

  For satellite, minimum one, for master, more than the number of estimated open checks should be defined.*

* In case of using the next block **, one more check tracking table is consumed.

- Number of items/tables (per one item block **):

  This is not the maximum number of items or functions but the number ordinarily registered items or functions per one table. If the number of items or functions exceeds this value during registration, the next block is used automatically for the following transactions.

** Number of item blocks:

  Ordinarily, the registration requires one item blocks—but in a party for example—more items are registered per one table. So it is necessary to define how many item blocks can be used.

  The maximum number of items or functions per one check is defined by the formula:
  = (Number of items / tables) × (Number of item blocks (1 ~ 10))

When memory near end and memory end happens during registration, an error occurs. See section A-5. Error messages of this manual.

2-4-3. Data backup when the master goes down

When the system has the backup master for the check tracking system, registered check tracking data are stored both master and backup master automatically.

As soon as the system detects master down, the backup master roles as master for the check tracking system.

(It is necessary to switch to backup master manually. See the "System down & Recovery" chapter on page 9 of the installation & down recovery manual.)

When the system has no backup master for the check tracking system or both master and backup master become down, no more check tracking operation and clerk interrupt operation can be made.

2-5. Other check tracking system control

2-5-1.   The timing to clear check detail and index file after finalization

There are two timings to clear detail and index files.

1. The check is cleared after printing finalized data on slip or guest check receipt, or the check is also cleared when the new or old check operation is made on the terminal finalized the transaction.
2. The check is cleared after printing finalized data on slip or guest check receipt, or the check is also cleared when the same finalized check number is assigned in new check operation.

This option is set on the page 40 of the programming manual.

2-5-2.   Table transfer

This function is used for transferring the contents of a check to another check.
The detail data can be excluded from the transferring check by programming (ST transfer).
There are two cases depends on the status of the transferring check.

1. If the transfer check is not used.
   The entered check number is written.
2. The check number is already used.
   Add the contents to the existing contents.

This option is set on the page 86 of the programming manual.

2-5-3.   Store and recall

These functions are used for the driving through purchase.
The check number used in store operation is defined by check No. range programming.

2-5-3-1 Store

This function is used for storing the check No. of the registered items. The Detail / Index at the drive-through entrance record the registered items and store it's check No., and then print out the temporary receipt. A customer receives this temporary receipt, and drives up to the exit with this to receive the ordered item. The stored data transfer to the check tracking master/backup master.

2-5-3-1 Recall

This function is used for recalling the transferred check No. to total the sum. The terminal at the drive-through exit recalls transferring check No. in order of the oldest record. A customer can receive the ordered items, and pay for them.

Entrance

Exit

Order receipt

Order

PRN (2) KITCHEN

Temporary receipt

R/J

Receipt

R/J

PRN (1)

Store

Recall

Press the <STORE> key →

Hamburger
French Fries
Hot Coffee
CHK No.100

Press the <STORE> key →

Cheese Burger
Orange Juice
CHK No.101
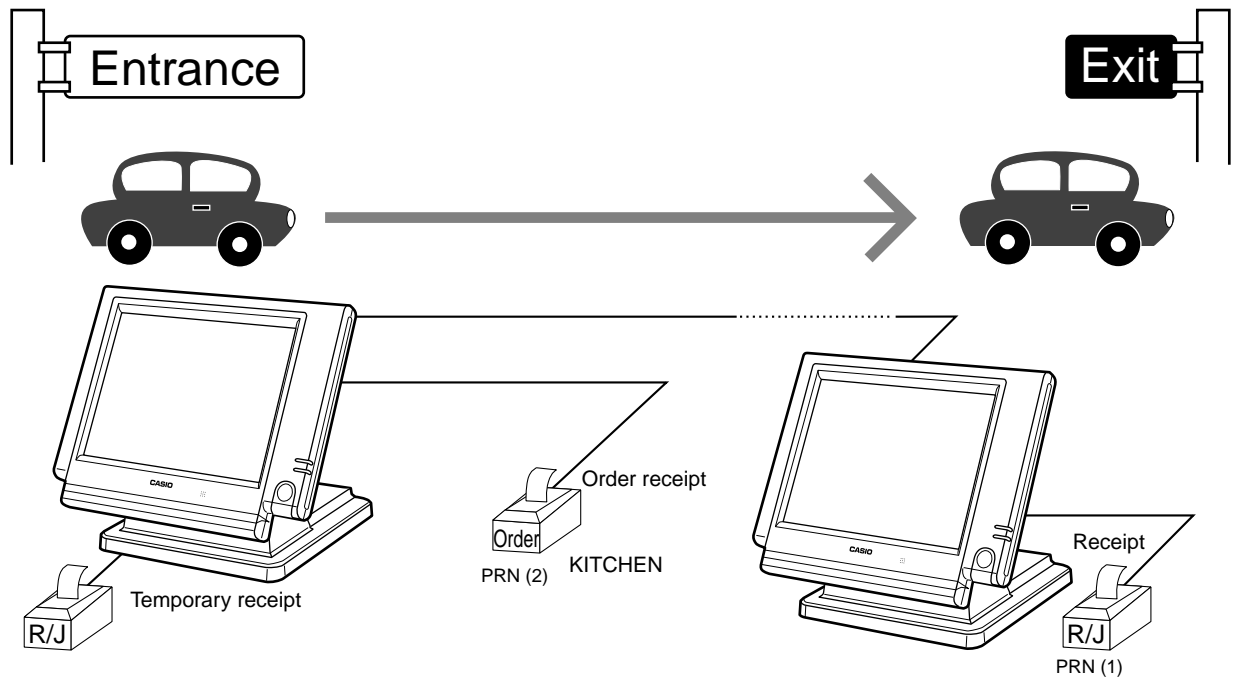
Press the <RECALL> key → CHK No.100

Hamburger
French Fries
Hot Coffee

Press the <RECALL> key → CHK No.101

Cheese Burger
Orange Juice

1. Without entering new check No., register items. After all ordered item have been registered, press the <STORE> key at the entrance to summarize the registered items. The check No. is issued automatically. The contents of these check No. transfer to the check tracking master / backup Master.

2. Press the <RECALL> key to recall the check at the exit.

Important

- A four-digit check No. should be used.
- When Open Check Z (All) report is printed out, the check No. range will be reset. After this operation, the next check No. by using Store function will be the range start.
- This function works with the option "Clearing CHK/TBL No. by using the same number again" to "Check number" only. (Refer to page 40 of the programming manual)

2-6. Clerk control function

2-6-1. Clerk interrupt

The terminal can be programmed to allow the clerk interrupt function, which makes it possible for multiple clerk to simultaneously use the same register. If a clerk starts registration of a transaction, another can be interrupt the original registration and begin a new one. The original clerk can later resume the interrupted original registration. You can use the clerk interrupt function with the check tracking function.

Clerk 1　　　　Clerk 2　　　　Clerk 3

Registration

　 Sign on clerk 2 (clerk 1 registration put on hold)

　　Registration

　 Sign on clerk 3 (clerk 2 registration put on hold)

　　　Registration

Sign on clerk 1.
Displays subtotal amount without add-on tax for clerk 1.

Registration
Finalization

Sign on clerk 2.
Displays subtotal amount without add-on tax for clerk 2.

　　Registration
　　Finalization

Sign on clerk 3.
Displays subtotal amount without add-on tax for clerk 3.

　　　Registration
　　　Finalization

Sign on clerk 1

Guest
receipt issuance

Sign on clerk 2

　　Guest
　　receipt issuance

Sign on clerk 3

　　　Guest
　　　receipt issuance

Notes

1) Error correct operation
   The error correct operation cannot be performed for registrations made before a clerk change. The error correct operation should be performed before clerk change.
2) Guest receipt
   A guest receipt can be issued following clerk change, and receipts can be issued separately for each clerk.
3) Cancel operation
   The cancel operation can affect the entire transaction (multiple receipts: complete cancellation) or only the same transaction (one receipt) by programming the <CANCEL> key.

2-6-2. Clerk detail memory

The terminal can summarize any daily / periodic total memory (such as fixed totalizer, department, PLU, etc.) clerk by clerk.

After initialization, clerks have 10 detail memories which are assigned to gross, net, and 4 media in drawers. If you want to set more detail memories to clerks, allocate clerk detail memory and detail link memory at the same time.

Clerk detail memory: File 011 / 111 / 211 / 311 / 411 / 511 / 611
Clerk detail link: File 030

2-6-3. Clerk training

Clerk training can be performed when employing new clerks or retraining clerks.
Training is normally performed during working hours, and the QT-6000 has the following training functions.

1) It is not necessary to remove one terminal from the system for training purpose during working hours.
2) Programming options, etc., are controlled exactly the same way as a working clerk.
3) Receipts are different from those normally used. The training receipts are filled with training filler ("*" default.)
4) Only the REG/REF/REG– mode can be used for training.

2-6-4. Manager mode control

There is no actual REG 2 mode on the terminal, but you can control some functions (you want) under manager control.

Preparation for this function:

1) Set "NO" to any functions you want to disable for CLERKS in the Allowed function 1 ~ 5 list in the clerk programming. (See page 71 ~ 73 of the programming manual.)
2) Set the type of operator to "Manager" for the manager. (See page 64 of the programming manual.)

Operation for this function:

```
REG  C01        10-10-01 12:34      000001
   1  PLU0001                    ·10.00
   1  PLU0002                    ·20.00
   1  PLU0003                    ·30.00

         Operator mistake



                    3        ·60.00
```
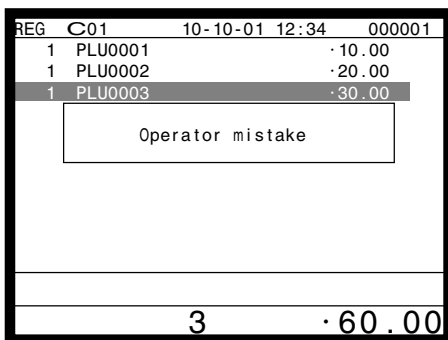
1. When the transaction is prohibited, the terminal displays error message and the clerk calls the manager.

```
REG  C01        10-10-01 12:34      000001
   1  PLU0001                    ·10.00
   1  PLU0002                    ·20.00
   1  PLU0003                    ·30.00

         Operator Code



                             - - - - -
                    3        ·60.00
```
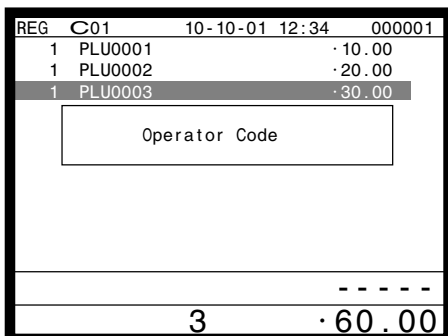
2. The manager enters "2" and press the <REG MODE> key.

```
REG  C01        10-10-01 12:34    000001
  1  PLU0001                    ·10.00
  1  PLU0002                    ·20.00
  1  PLU0003                    ·30.00

         REG2 Mode




                              0.00
            3              ·60.00
```

3. The manager enters his/her secret code and press the <YES> key. After this operation, the prohibited transaction can be registered.

```
REG  C01        10-10-01 12:34    000001
  1  PLU0001                    ·10.00
  1  PLU0002                    ·20.00






PLU0003                     -30.00
            2              ·30.00
```

4. Perform manager operation (in this example; void operation).

```
REG  C01        10-10-01 12:34    000001
  1  PLU0001                    ·10.00
  1  PLU0002                    ·20.00

         REG Mode




                              0.00
            2              ·30.00
```

5. Pressing the <REG MODE> key is required, when the manager returns his/her office.

2-7. Arrangement key function and scheduler

The arrangement key function provides a macro command function for the QT-6000 system. Any operation that can be performed using the keyboard of the QT-6000 can be programmed to the arrangement file (file 038 ~ 438). Any operation programmed to the arrangement file can be performed by pressing the arrangement key (function code 044). Multi operations can be programmed into one arrangement program, and also entry of a numeric parameter can be included anywhere in the arrangement program.

For example, when an arrangement program is programmed for executing fixed totalizer Z consolidation for all terminal and the program is linked to an arrangement key, that operation can be executed simply by pressing the arrangement key or attaching the i-Button key to the receiver.

The scheduler function is provided for scheduled execution of arrangement key operation. Execution of every specified time, as well as scheduled execution, can be performed using this function.

The scheduler file (file 062) must be reserved to use the scheduler function.

2-7-1. Arrangement key function

The arrangement file and arrangement keys must be reserved for the QT-6000 to use the arrangement key function.

The arrangement file is used to store the arrangement programs. An arrangement file record is 24 bytes long, and a maximum of 9999 records can be reserved. Arrangement programs are programmed using character data, and multiple arrangement programs can be programmed in the arrangement file.

Multiple arrangement keys can be preset on the keyboard, and each key can be linked to an arrangement program. The linked arrangement program is then called and executed by pressing the arrangement key.

The following table shows the command parameters of the arrangement key function that can be interpreted and executed by the QT-6000.

Command parameters can only be separated by spaces.

Note that spaces cannot be included within the command parameter.

Details of command parameters and their functions are explained next.

1) Number input

There are two methods to enter a number in an arrangement program.

– Constant number input

Preset a fixed number (constant value) enclosed in parentheses in the arrangement program.

Example: To enter "1234" → preset **(1234)**

– Input of a single number when the arrangement program is executed.

A single number can be entered using the arrangement key. The number entered can be used at any position and any time in the arrangement program.

Generally, an input number is temporarily stored in the work area (number entry buffer) reserved for data processing, and is cleared after the processing is performed. With the arrangement key function, a parameter save buffer is provided for saving the contents of the number entry buffer. When a "**%GET**" command is encountered in an arrangement program during processing, the data in the number entry buffer is saved to the parameter save buffer. Set "**%PUT**" command to use the data saved in the parameter buffer. The "**%PUT**" command can be used to load the data saved in the parameter save buffer into the numeric entry buffer. These commands may be included as often as necessary. The data in the parameter save buffer is changed only when a "**%GET**" command is processed.

Note:
- Set a "**%GET**" command, first, to use the number entered by the arrangement key later.
- When the "**%GET**" is programmed following constant number input, the constant number is saved to the parameter save buffer.
- Numbers input using a "**%PUT**" command or by "(**[number]**)" are entered to the number entry buffer in the same way as numbers input using the 10-key pad.

2) Key function specification

Any function key can be specified for an arrangement key function. :
[function code]:[record number] →   Used for ordinary function keys
The numbers can be specified for zero suppression.

Note:
The arrangement key itself, cannot be programmed for in an arrangement program.

3) Mode setting

Any mode key can be specified for an arrangement key function. :
[function code]:[mode definition]→   Used for mode keys

Note:

121:01	: REG mode
121:02	: REF mode
121:03	: REG– mode
122:01	: X/Z mode:
122:02	: MGR mode:
122:03	: Collection/Consolidation mode:
122:04	: Auto-program mode:
122:05	: CF card:
123:01	: PGM1 mode:
123:02	: PGM2 mode:
123:03	: PGM3 mode:
123:04	: PGM4 mode:
123:05	: PGM5 mode:
123:06	: PGM6 mode:

4) Print control

There are two commands for controlling the printer:

PON	: Output printout data.
POFF	: Not output printout data.

5) Controlling the flow of arrangement command execution

There are 31 commands for controlling the flow of arrangement command execution:

:Snnnn : This is a start mark of an arrangement. "nnnn" (4-digits code) are used for arrangement table number set to each arrangement key.

(nnnn) : "nnnn (no digit limitation)" means numeric entry.

NN:nnnn : "NN" is a function code which is executed in this arrangement, "nnnn" is the record No. of the function.

:[label] : Preset the label (name of specific position) to specify the jump destination point in the arrangement file. The actual data for labels can be freely designated.
Example: To specify "LABEL-1" as label → :LABEL-1

G:[label] : This is an absolute jump command. If the system encounters this command, command execution flow unconditionally jumps and continues from the point preset by the label.

I > ([number]):[label] : This is a conditional jump command. If the system encounters this commands, the value in the number entry buffer is compared with the specific number. If the value in the buffer is larger than the specified number, the command execution flow jumps and continues from the point preset by the label. If the condition is not match with the above-mentioned condition, the step advances to the next command.

I < ([number]):[label] : This is a conditional jump command. If the value in the number entry buffer is less than the specified number, the command execution flow jumps to the point preset by the label. If the condition is not match with the above-mentioned condition, the step advances to the next command.

I – ([number]):[label] : This is a conditional jump command. If the system encounters this command, the value in the numeric entry buffer is compared with the specific number. If the value in the buffer is equal to the specific number, the command execution flow jumps and continues from the point preset by the label. If the condition is not match with the above-mentioned condition, the step advances the next command.

KNO1 : This is a command to enter the <#-1> key.

KNO2 : This is a command to enter the <#-2> key.

NE : This is a command to wait for numeric entry. After entering numerics, press the <ARRANGEMENT> key to continue the arrangement program.

B:nn : This is a command to sound buzzer for nn (nn = 01 ~ 99) seconds.

?	:	Force to execute the arrangement even if an error occurred during the arrangement.

ANO	:	Disable clerk auto sign-off.
AYES	:	Enable clerk auto sign-off.

CFFMT	:	Format CF card.
CFSVnnn'mmmm'	:	Backup to CF card (nnn: command code, mmmm: file name).
CFLDnnn'mmmm'	:	Restore from CF card (nnn: command code, mmmm: file name).

JCL	:	Clear electronic journal older half data
JCLA	:	Clear all electronic journal data

CLPn	:	Set the default @ menu sheet number to "n" (n = 0 ~ 2) and "stay down @ menu sheet assignment" of all clerk.
CLMn	:	Set the default menu sheet number to "n" (n = 0 ~ 15) and "stay down menu sheet assignment" of all clerk.
CLSn	:	Set the default shift PLU level number to "n" (n = 0 ~ 8).

211:	:	Press the "ESC" key.
212:	:	Press the "YES" key.
213:	:	Press the "NO" key.

%GET	:	Read from key buffer.
%PUT	:	Write to key buffer.

CLL0n	:	Set the default clerk pop-up window number to "n" (n = 0 ~ 9).

PLY:nn	:	Play the 7nn (nn: 01 ~ 10) sound file.
!:sss	:	Wait the next step for "sss" (ss = 001 ~ 327) sec.

6) End of the arrangement programs

The end command "**E**" must be included at the end (exit) point of an arrangement program.

2-7-2. Arrangement program example

This section shows examples of arrangement programs.
The following example shows an arrangement program that executes X consolidation of the file set in the batch 1 ~ 9 files for all terminals.

Example:

Programming the following operation for the arrangement table 12
– Set the mode to Inline X/Z.
– Enter operation code "1111100000000".
– Wait for the numeric entries (batch number).
– Enter the <#-2> key.
– Enter the <ESC> key.

:S0012	; Designate the table number (mandatory)
122:03	; Set the mode to Inline X/Z.
NE	; Wait for the batch number
I<(0):ERR1	; If the input number is less than 1, the process jumps to the ERR1.
I>(9):ERR1	; If the input number is larger than 10, the process jumps to the ERR1.
%GET	; Save the entered number to the parameter save area.
202:0031	; Press "Clear" button.
(1111100000000)	; Input the operation code for system command
%PUT	; Pick up the entered number from the parameter save area.
KNO2	; Specify the <#-2> key for entering the operation code.
211:0045	; Specify the <ESC> key to execute this operation.
:ERR1	; When the input number is not 1 to 9, the following commands are processed.
E	; End the program (mandatory).

2-7-3. Scheduled execution of arrangement key function

An arrangement key function can be executed on a scheduled basis. In order to execute an arrangement key function on a scheduled basis, it is necessary to make appropriate settings in the scheduler file (file 062).

There are two functions for execution on a scheduled basis:

1) Execute an arrangement key function at the specified time.
2) Interval execution of an arrangement key function by setting start time, ending time, and the interval.

2-8. Making graphic logo

A graphic logo can be printed on internal receipt or UP-350 / UP-360 receipt. This graphic logo is stored in the graphic logo file (file 047 for UP-350 / UP-360), and printed at the top of the receipt instead of a normal logo message.
This graphic logo data cannot be made by the terminal program, it can be made only by PC and downloaded from PC.

2-8-1. About graphic logo

Graphic logo size: 432×104 or 432×208 pixels
Printing sample:

```
***************************************
* QT-6000 TERMINAL                    *
*                   GRAPHIC LOGO AREA *
***************************************

*******COMMERCIAL MESSAGE LINE 1*******
*******COMMERCIAL MESSAGE LINE 2*******
*******COMMERCIAL MESSAGE LINE 3*******
*******COMMERCIAL MESSAGE LINE 4*******
```

2-8-2. Making graphic logo procedure

Before following this procedure please allocate "Graphic logo" file (file 047) on the terminal.

1. Making a bit-map image file:
   (432×104 or 432×208 pixels; 1-bit color for UP-350 / UP-360).
2. Convert this bit-map file to the internal file by executing "CV-10."
   PC sends the converted data to the terminal via online automatically.
3. Select "Print Graphic" option in the message control of the general feature in the PGM 3 mode.
4. Turn off and on the terminal by the <DISP ON/OFF> button.

Application System

2-9. Hourly item

This function enables to memorize the detailed data of quantity and amount / price of each item dealt hourly.
It is possible to calculate the proceeds and record the hourly item in any totalizer, and also it is possible to print out as an hourly item report.

2-9-1. Programming necessary files before using hourly item function.

Hourly item function requires the following files to function properly, so they must be programmed before using it. See the programming manual for the details on format of individual files.

– Time zone file

This file is used to specify the time zone for the detail items individually. You can enter the starting time and the ending time of the time zone, moreover specify the cycle time that indicates an unit of the appropriate intervals.

– Hourly item link file

This file is used to record the Hourly item which links with the appropriate time zone. You can also specify the particular totalizer for each time zone.

– Hourly item

This file is used to store the contents of the quantity and amount of each registered item.

The following seven files enable to link the data for hourly item link file: fixed totalizer, function, subdepartment, PLU, department, group, void reason.

Hourly item report example

```
08:00->09:00
Hamburger          2      $2.00
French Fries       3      $1.50
--------------------------------------
                          $3.50

09:00->10:00
Cheese Burger      2      $3.00
Hot Coffee         2      $0.50
--------------------------------------
                          $3.50
              :
13:00->13:15
Apple Pie          1      $1.00
Hot Milk           1      $1.00
--------------------------------------
```

Time zone file

	Start Time	End Time	Cycle
Zone	08:00	12:00	01:00
	13:00	14:00	00:15
	•	•	•
	•	•	•

Hourly item link

REC No.	File No.
0001	004
0011	001
•	•
•	•
•	•
•	•
0005	012
0008	012
•	•
•	•
•	•

20 items

20 items

A maximum of 20 records corresponds to each time zone.

2-10. Time and attendance

This function allows shop owners to control his / her employees' working condition. Time & attendance require the following files.

– Employee file

This file is used to regulate the labor conditions.
You can program the type of job, the maximum work hours in a week or shift schedule of a day per employee.

– Job code file

This file is used to classify the types of job. You can program the general work pay and the overtime pay ratio per job file.
If some employees have a common job, you can divide the job code individually in case their pay ratio is different.

– Schedule file

This file is used to administrate the employees' schedule. You can assign a starting and an ending time, a grace period, break minutes allowed, and the default job code for the shift. It is possible to record maximum 21 shifts (3 shifts × 7 days) per employee for the schedule file.

Grace period – this is a period of time in minutes which allows an employee to clock-in / out before / after their scheduled times. Grace period works in conjunction with the schedule. If the scheduler is not being utilized then the grace period inputs indicated below become inactive.

Grace period before start time – this input indicates how many minutes an employee may clock-in before the scheduled clock-in time.

Grace period after start time – this input indicates how many minutes an employee may clock-in after the scheduled clock-in time.

Grace period before end time – this input indicates how many minutes an employee may clock-out before the scheduled clock-out time.

Grace period after end time – this input indicates how many minutes an employee may clock-out after the scheduled clock-out time.

(See "4-1-15. Programming time & attendance" for the programming manual.)

		Job Code	Start Time	End Time	Break Time	Grace Before Start	Grace After Start	Grace Before End	Grace After End
Monday	Shift	1	9:00	12:00	00:15	10	10	5	15
	Shift	5	13:00	15:00	00:15	10	10	5	15
	Shift	2	16:00	18:00	00:15	10	10	5	15
Tuesday	Shift	3	9:00	12:00	00:15	10	10	5	15
	Shift	2	13:00	15:00	00:15	10	10	5	15
	Shift	4	16:00	18:00	00:15	10	10	5	15
Sunday	•	•	•	•	•	•	•	•	•

Each employee can have 3 shifts per day. The schedule file can hold 7 days schedule.
So, totally 21 files can be registered in this file.

– Work time file

> This file is used to administrate each employees' weekly hourly wages, work hours, and proceeds.

– Time zone file

> This file is used to administrate the cycle time. You can specify the length of time zone.

2-10-1. Corresponding relations of the file

Employees' job assign

> This function is used to assign a job to each employee. Before assigning the job, be sure to program the details of the jobs. Every employee file can link to some job code files (maximum 4 jobs), so some employees may link to the same job code file. But be sure to make individual job files if the employees work under different hourly wages.
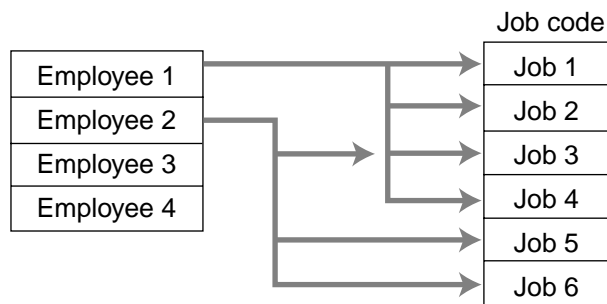
Employee's Schedule and total business results per week

Schedule

Employee 1	Monday	Shift 1
Employee 1	Monday	Shift 2
Employee 1	Monday	Shift 3
Employee 1	Tuesday	Shift 1
	•	
Employee 1	Sunday	Shift 3
Employee 2	Monday	Shift 1
Employee 2	Monday	Shift 2
Employee 2	Monday	Shift 3

Employee 1
Employee 2
Employee 3
Employee 4

Work time

Employee 1	First week	Monday	Shift 1
Employee 1	First week	Monday	Shift 2
Employee 1	First week	Monday	Shift 3
Employee 1	First week	Tuesday	Shift 1
		•	
Employee 1	First week	Sunday	Shift 3
Employee 1	Second week	Monday	Shift 1
Employee 1	Second week	Monday	Shift 2
Employee 1	Second week	Monday	Shift 3
		•	
Employee 1	Second week	Sunday	Shift 3
Employee 2	First week	Monday	Shift 1
Employee 2	First week	Monday	Shift 2
Employee 2	First week	Monday	Shift 3
Employee 2	First week	Tuesday	Shift 1
		•	
Employee 2	First week	Sunday	Shift 3
Employee 2	Second week	Monday	Shift 1
Employee 2	Second week	Monday	Shift 2
Employee 2	Second week	Monday	Shift 3

Calculating the total wages of the employees per hour

Time zone		Hourly/Labor
Zone 1 Cycle 1	→	Totalizer 1
Zone 1 Cycle 2	→	Totalizer 2
Zone 1 Cycle 3	→	Totalizer 3
Zone 2 Cycle 1	→	Totalizer 4
Zone 2 Cycle 2	→	Totalizer 5
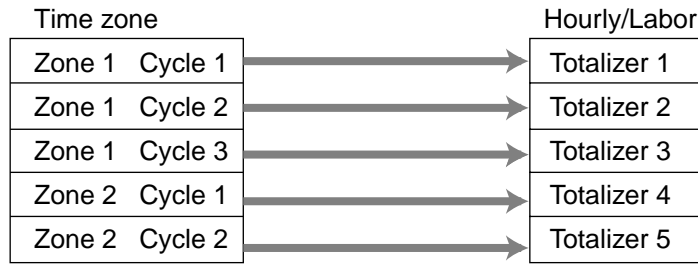
Flow of Time & Attendance operation

The following flow shows the order of time & Attendance function by pressing the specified keys: It is possible to specify one key as both <CLOCK-IN> and <CLOCK-OUT> function, or specify two keys separately. (Refer to "4-3-7-33 Worksheet for clock-in/clock-out" in the programming manual for details.)

CLOCK-IN → (BREAK-IN → BREAK-OUT) → CLOCK-OUT
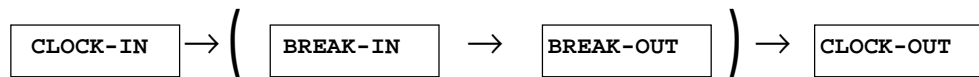
2-10-2. Clock-in operation

This function is used to register the Starting work time.

2-10-2-1. Clock-in operation (1)

Program: Not using the window and impossible to specify job code.
Allow to specify job code = NO, Display job code window = NO
(Refer to the page 54 of the programming manual.)

Operation

```
REG              10-10-01  11:59  AM  001234


   GLENN DEAL            11:59   AM

        Clock-in OK?




                          0.00
```
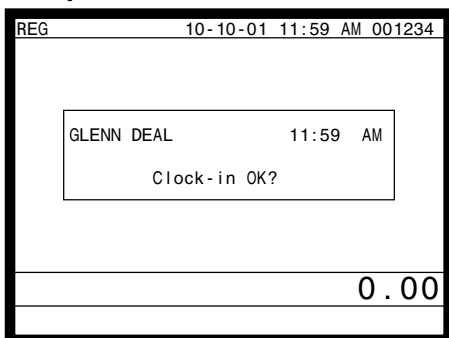
1. XXXXXX <CLOCK-IN>
   When this message appears, press the <YES> key to register the start of working hours.
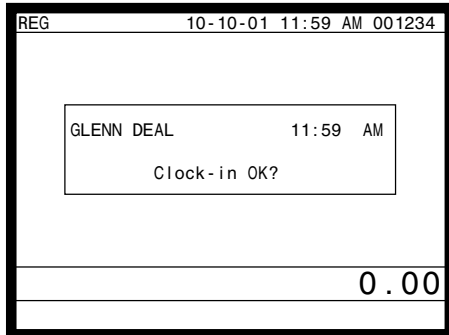
   XXXXXX
   Employee No.

2-10-2-2. Clock-in operation (2)

Program type:

Allow to specify job code = YES, Display job code window = NO

(Refer to the page 54 of the programming manual.)

Operation

```
REG            10-10-01 11:59 AM 001234




  GLENN DEAL              11:59   AM

         Clock-in OK?




                            0.00

```

1. XXXXXX . YY <CLOCK-IN>
   When this message appears, press the <YES> key to register the start of working hours.
   Enter the employee No. (within 6 digits), "."(decimal point), and the job code (2 digits).

$$\underbrace{XXXXXX}_{\textit{Employee No.}} . \underbrace{YY}_{\textit{Job code}}$$

2-10-2-3. Clock-in operation (3)
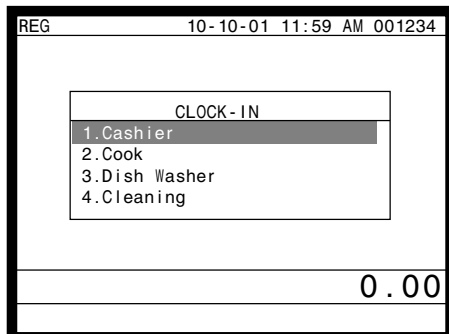
Program type:

Display job code window = YES

Allow to clock-in with non-preset job-code = NO

(Refer to the page 54 of the programming manual.)

Operation

```
REG            10-10-01 11:59 AM 001234


             CLOCK-IN
       1.Cashier
       2.Cook
       3.Dish Washer
       4.Cleaning


                            0.00

```

1. XXXXXX <CLOCK-IN>
2. Choose the appropriate Job Code from the CLOCK-IN menu, and press the <YES> key to register the start of working hours.
→ Job codes that are programmed in Employee file are displayed.

$$\underbrace{XXXXXX}_{\textit{Employee No.}}$$

Application System

2-10-2-4. Clock-in operation (4)

Program type: Display job code window = YES
                    Allow to clock-in with non-preset job code = YES
                    (Refer to the page 54 of the programming manual.)
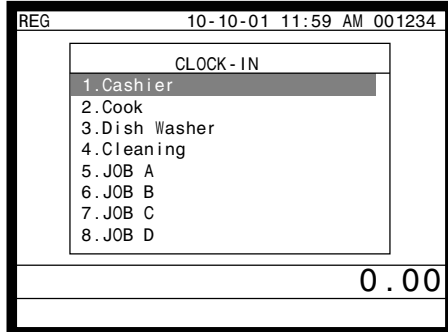
Operation

```
REG                10-10-01 11:59 AM 001234

            ┌─────────────────────────────┐
            │          CLOCK-IN           │
            │ 1.Cashier                   │
            │ 2.Cook                      │
            │ 3.Dish Washer               │
            │ 4.Cleaning                  │
            │ 5.JOB A                     │
            │ 6.JOB B                     │
            │ 7.JOB C                     │
            │ 8.JOB D                     │
            └─────────────────────────────┘

                                0.00
```

1. XXXXXX <CLOCK-IN>
2. Choose the appropriate Job Code from the CLOCK-IN menu, and press the <YES> key to register the start of working hours.

→ All job codes that are programmed in job code file are displayed.

<u>XXXXXX</u>
Employee No.

Receipt sample

```
                        MC #01          ── Header
REG C01      12-31-2005 11:59 AM 001234

    Harrison                            ── Employee character (16 digits)
    CLOCK-IN                  11:59 AM  ── Special character (REC #29), time
    JOB         Dish Washier            ── Special character (REC #33), job character
```

If you want to change these special characters, refer to the page 112 of the programming manual.

2-10-3. Clock-out operation

This function is used to register the ending work time.

2-10-3-1. Clock-out operation (1)

Operation

```
REG          10-10-01 11:59 AM 001234



  GLENN DEAL            11:59  AM

        Clock-out OK?



                         0.00

```

1. XXXXXX <CLOCK-OUT>.
2. When this message appears, press the <YES> key to register the end of working hours.

2-10-3-2. Clock-out operation (2)

Program: Tip declaration compulsory (refer to the page 53 of the programming manual.)

Operation

```
REG          10-10-01 11:59 AM 001234


  Enter cash tip amount and
  press <YES> key.



                         0.00

```

1. XXXXXX <CLOCK-OUT>.
2. When this message appears, the employee should enter the cash tip amount, if not, it is impossible to close the accounts

Receipt sample

```
                        MC #01          ── Header
REG C01      12-31-2005 11:59 AM 001234

    Harrison                            ── Employee character (16 digits)
     CLOCK-IN                  11:59 AM ── Special character (REC #29), time
     JOB         Dish Washier           ── Special character (REC #33), job character
     CLOCK-OUT                 01:59 PM ── Special character (REC #30), time

     WORK TIME        02:45             ── Special character (REC #34), working hours
     BREAK TIME       00:45             ── Special character (REC #35), recess
     CASH TIP        $12.34             ── Special character (REC #36), cash tip amount
```

If you want to change these special characters, refer to the page 112 of the programming manual.

2-10-3-3. Break-in operation

This function is used for the employees to register a recess.

Operation

```
REG              10-10-01 11:59 AM 001234


   ┌─────────────────────────────────┐
   │ GLENN DEAL           11:59  AM  │
   │                                 │
   │      Break-in OK?               │
   └─────────────────────────────────┘


                            0.00

```

1. XXXXXX <BREAK-IN>.
2. When this message appears, press the <YES> key to register the start of a recess.
   The receipt is not printed out, except electronic journal.

2-10-3-4. Break-out operation

This function is used for the employees to register the end of a recess.

Operation

```
REG              10-10-01 11:59 AM 001234


   ┌─────────────────────────────────┐
   │ GLENN DEAL           11:59  AM  │
   │                                 │
   │      Break-out OK?              │
   └─────────────────────────────────┘


                            0.00

```

1. XXXXXX <BREAK-OUT>.
2. When this message appears, press the <YES> key to register the end of a recess.
   The receipt is not printed out, except electronic journal.

2-10-3-5. Manager operation

When the manager operate CLOCK-IN after signing on, the manager can operate and modify any employee's record despite of corresponding employee number.
Following operations are possible to operate by the manager:

Specify the job code / CLOCK-IN / CLOCK-OUT / BREAK-IN / BREAK-OUT

Operating Flow

| Manager sign on | → | CLOCK-IN/OUT operation, BREAK-IN/OUT operation | → | Sign off |
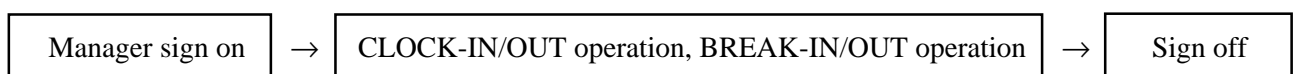
2-11.   Sign on control

This function is used to prohibit the sign-on operation by an employee who has not CLOCK-IN. The following conditions should be fixed.

- Use only one terminal (master terminal) for the CLOCK-IN/OUT operation. This terminal should be connected inline to the satellite terminals. But the time and attendance work file (file 806) should be allocated to all terminals.
- The clerk file's information should be common among all the terminals.
- Be sure there is a clerk who is specified as "Manager" in the clerk file. If no manager, it may be locked to operate.

2-11-1. Sign on

1. When an employee normally operate CLOCK-IN/OUT, BREAK-IN/OUT, the employee's attendance information is sent from the main terminal to the satellite terminals.

```
                                    ┌──────────────────────┐
                                    │  CLK#1 information    │
                                    ├──────────────────────┤
                                    │  CLK#2 information    │
┌────────────────────┐             ├──────────────────────┤
│  CLK# information   │ ─────────▶  │  CLK#3 information    │
└────────────────────┘             ├──────────────────────┤
                                    │          •            │
                                    │          •            │
                                    ├──────────────────────┤
                                    │  CLK#99 information   │
                                    └──────────────────────┘
```

Flow of sign on

```
┌────────────────┐
│  Sign on by    │ ─────▶  ┌──────────────────┐
│  Manager       │         │   Sign on OK     │
└────────────────┘         └──────────────────┘

                                                 ┌────────────────────────┐        ┌──────────────────┐
                                          ┌────▶ │ He/she is NOT in the   │ ─────▶ │   Sign on OK     │
                                          │      │ middle of BREAK-IN     │        └──────────────────┘
                          ┌────────────┐  │      └────────────────────────┘
                   ┌────▶ │  CLOCK-IN  │ ─┤
                   │      └────────────┘  │      ┌────────────────────────┐        ┌────────────────────────────┐
┌────────────────┐ │                      └────▶ │ He/she is in the       │ ─────▶ │ Unable to Sign on          │
│  Sign on by    │ │                             │ middle of BREAK-IN     │        │ (E175 Error message appears)│
│  Clerk         │ ┤                             └────────────────────────┘        └────────────────────────────┘
└────────────────┘ │
                   │      ┌────────────────────┐        ┌────────────────────────────┐
                   └────▶ │ CLOCK-IN unfinished│ ─────▶ │ Unable to Sign on          │
                          └────────────────────┘        │ (E175 Error message appears)│
                                                         └────────────────────────────┘
```
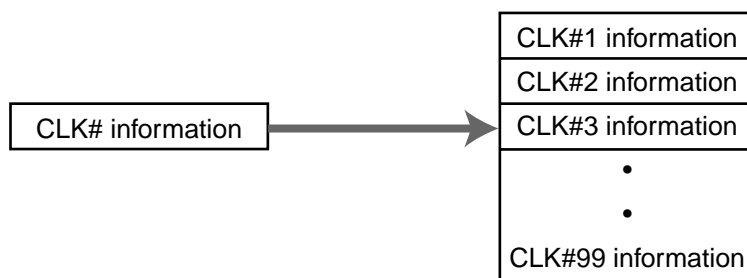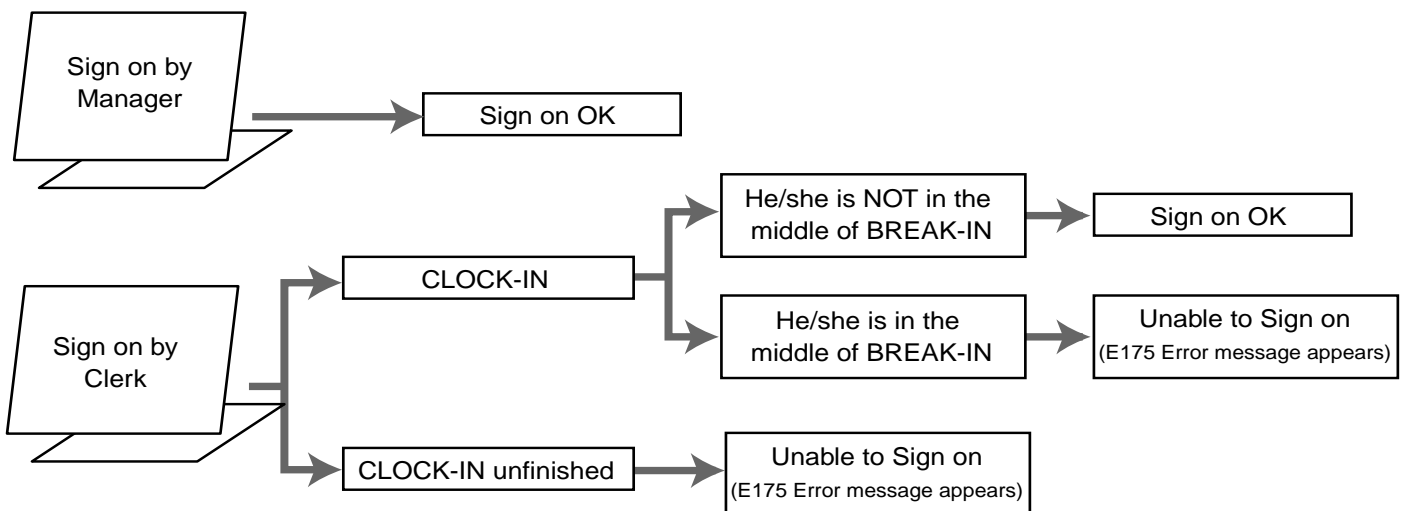
2-11-2. Solution to abnormality of master terminal

When the satellite terminals cannot receive any information from the master terminal, the master terminal shows the error message on the window and prints out the receipt with terminal IDs that failed to communicate the data.
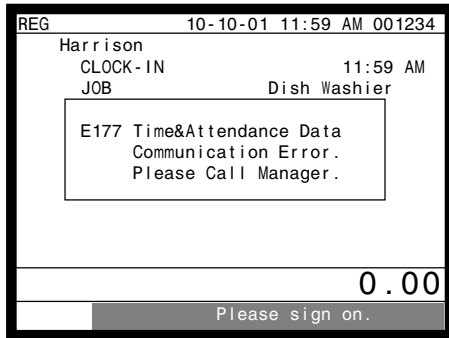
```
REG           10-10-01 11:59 AM 001234
  Harrison
   CLOCK-IN                    11:59 AM
   JOB                 Dish Washier

   E177 Time&Attendance Data
        Communication Error.
        Please Call Manager.


                               0.00
              Please sign on.
```

Receipt image

```
                          MC #01          ── Header
REG C01      12-31-2005 11:59 AM 001234

Communication Error                       ── Fixed message
               MC#01            XXXX       ── Machine ID, Error code
               MC#03            XXXX       ── Machine ID, Error code
```

- The error message and receipt will appear whenever the sign-on is failed. If you cannot solve the inline data communication problem, program the system connection again, and remove the uncommunicative terminal.

2-11-3. Solution to abnormality of satellite terminal

- When the satellite terminal cannot receive any information from the master terminal, the default CLOCK-IN/OUT information remain.
  In this case, only manager can sign on.
- When the satellite terminal could receive the CLOCK-IN/OUT information from the master terminal only once, but failed to receive after then, the CLOCK-IN/OUT information in each satellite terminal has left in the last received condition. In such case, the last received information control employees' sign on/off. (Manager can always sign on.)

2-11-4. Sign on compulsory

When the satellite terminal cannot receive the information in spite of normal CLOCK-IN operation on the master terminal, an employee may not sign on for some reason.
In such case, the manager needs the following operation.

1. Sign on by the manager (normal sign on operation.)
2. 99 xxxx <CLK#> (xxxx: the secret code of the corresponding employee, 4-digit.)
3. Sign off by the manager and the corresponding employee can sign on.

Note:

When the error message appeared under the employee's CLOCK-IN operation, manager should operate above steps.

2-12. IDC (Item Data Capture)

This function is used for capturing all the registered item data by the REG / REF / REG– modes. IDC file stores these captured items. If there is no record to capture item data, the new data are not captured to the IDC file.

2-12-1. Available capturing items

Select the appropriate items that should be captured, and program these items into the IDC link file. The available items and their contents are indicated below.

Items	Contents	File No.
PLU	• The index of the transaction. • The report of the items/functions, or all the detailed statements.	004
Subdepartment		003
Department		005
Function		002
Pulldown group		026
Clerk	• The index of the transaction. • The report of all the detailed statements.	007

Application System

IDC function file

	Function		Code			Function		Code			Function		Code	
	NOP		000	–		Price		049	–		Substitution		111	–
●	Cash amount tendered		001	O	●	Department		051	O		Ketten Bon	*1	113	O
●	Charge		002	O		Slip back feed/Release		054	–		House Bon	*1	114	O
●	Check		003	O		Slip		055	–		Post entry		115	–
●	Credit		004	O		Slip feed/Release		056	–		Round repeat		116	–
●	Food stamp tender		005	O		Tax status shift	*1	057	O		Open check		117	–
●	New balance	*12	006	O		Table number	*5	058	O	●	Media change		118	O
●	EBT tender		007	O		Food stamp shift	*1	059	O		Seat number		119	–
	Price inquiry		008	–		Declaration		061	–		Display On/Off		120	–
	Stock inquiry		009	–	●	Tax exempt		062	O		Mode		124	–
●	Text recall	*11	010	O	●	Flat PLU		063	O	●	Eat-in		128	O
●	Text print	*11	011	O		Menu shift		064	–	●	Takeout		129	O
	Check print		012	–		Shift PLU	*1	065	O	●	Store		130	O
	Clerk transfer		013	–		Open		067	–		Recall		131	–
●	Table transfer	*10	014	O		Open 2		068	–	●	Subdepartment		133	O
●	Tip		015	O		First unit price	*1	069	O		Subdepartment number	*7	134	–
	Normal receipt		016	O		Second unit price	*7	070	O		Department number	*7	135	–
●	Loan		019	O		Clerk number	*5	072	O		List	*7	136	–
●	Received on account		020	O		Operator read/reset		073	–		List number	*7	137	–
●	Paid out		021	O	●	Tray total	*13	074	O		Dutch account		140	–
●	Pick up		022	O	●	Subtotal	*8	075	O		Customer No.	*5	148	O
●	Coupon		023	O		Receipt On/Off		076	–		Payment	*5	149	O
●	Deposit		025	O		Taxable amount subtotal		077	–		Numerics (0 ~ 9)		201	–
●	Minus		027	O		Operator number		078	–		Clear		202	–
●	Discount		028	O		Merchandise subtotal	*8	080	O		Reverse display		206	–
●	Plus		029	O		Food stamp subtotal		081	–		Electronic journal display		207	–
●	Premium		030	O		Multiplication	*1	082	O		Escape		211	–
	Refund	*1	033	O		Quantity/For	*1	083	O		Yes		212	–
●	Error correct/Void	*3	034	O		Square	*1	084	O		No		213	–
	Coupon 2	*1	036	O		Selective item subtotal	*2	085	O		Left arrow (←)		214	–
	Validation		037	–		Cube	*1	090	O		Right arrow (→)		215	–
	Receipt		038	–		New check		091	–		Up arrow (↑)		216	–
	Check endorsement		039	–		Old check		092	–		Down arrow (↓)		217	–
●	Non-add	*11	040	O		New/Old check		093	–		Home		218	–
●	Non-add/No sale	*4/11	041	O		Add check	*9	094	–		Display mode		219	–
	No sale		042	–		Separate check	*9	095	–		Page down		220	–
	No. of customer	*5	043	O		Two zero (00)		096	–		Page up		221	–
	Arrangement	*6	044	O		Three zero (000)		097	–	●	Cancel		236	O
	Currency exchange	*1	045	O		Decimal point		098	–		Item search		248	–
	VAT		046	–		OBR	*7	103	–		Order character change		252	–
	Bill		047	–		Clock-in/out		108	–		Location change		260	–
	PLU	*7	048	–		Break-in/out		109	–		Table sharing		261	–

● : Available items to be programmed as target for IDC.

O : IDC target

– : Out of target

*1   This function itself is not captured. But it is captured with the captured items or functions.

*2   Selective item subtotal is captured with selective item discount or premium.

*3   1. Error correct is not captured.
     2. This function itself is not captured. But it is captured with voided items.
     3. Void reason is also captured.

*4   No sale is not captured.

*5   These functions (items) are captured in header record.

*6   This function itself is not captured. But the functions that are executed by this function are captured.

*7   This function is not captured. But item itself might be an IDC target.

*8   When the option (printed when the key is pressed) is selected, it is captured.

*9   Transferred items by the add check and the separate check are not captured.

*10 ST transfer is not captured.

*11 This function is captured only in the sales registration.

*12 This function is captured only in the check tracking registration.
     During clerk interrupt operation, this is not captured.

*13 Tray total is captured when it is pressed twice.

Application System

2-12-2. Set up the IDC start / end

Specify IDC Start or IDC End in manager mode. IDC does not start if you not allocate necessary files for IDC.

- When IDC function is stopped, you can restart IDC by performing FC or INIT 2 (Refer to the page 10 of the programming manual.)

Operation

```
┌─────────────────────────────┐
│      Item Data Capture       │
├─────────────────────────────┤
│ Item Data Capture      YES   │
│                              │
│                              │
│                              │
│                              │
│                              │
│                              │
│─────────────────────────────│
│                        0.00  │
│                              │
└─────────────────────────────┘
```
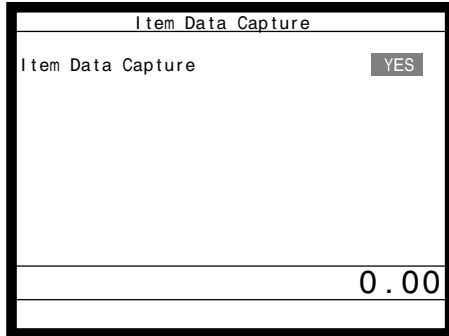
Note:

1. If you stop the IDC when the IDC file is full of items, you can stop the error sound without clearing any registered data.
2. The necessary files for IDC
   - File 036 (Registration buffer)
   - File 063 (IDC buffer)
   - File 057~ 059 (IDC file)
   - File 804 (IDC link file)

2-12-3. How to memorize the captured items

Flow of the transferring data

1. Program: "Store data = Whole transaction" (refer to the page 56 of the programming manual.)

Example

PLU 0001————> Memorized all the transaction into the IDC file (1)

PLU 0002————> Memorized into IDC file (2)

PLU 0003————> Memorized into IDC file (2)

IDC Buffer	IDC file (1)
PLU 0001	Header PLU 0001
PLU 0002	Header PLU 0002
PLU 0003	Header PLU 0003
Total	Header Total

	IDC file (2)
	Header PLU 0002
	Header PLU 0003
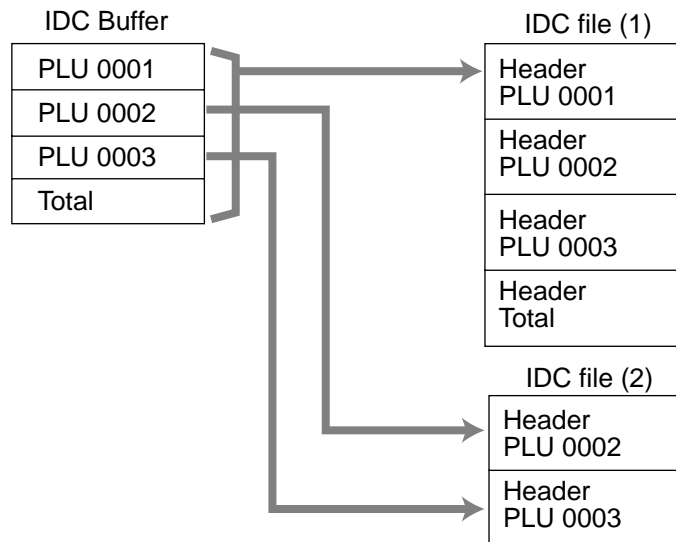
2. Program: "Store data = Item only" (refer to the page 56 of the programming manual.)
When an appropriate item is selected, this item and the header will be captured (see the illustration below).

Example

PLU 0001————> Memorized into IDC file (1)

PLU 0002————> Memorized into IDC file (2)

PLU 0003————> Memorized into IDC file (2)

IDC Buffer	IDC file (1)
PLU 0001	Header PLU 0001
PLU 0002	
PLU 0003	
Total	

	IDC file (2)
	Header PLU 0002
	Header PLU 0003
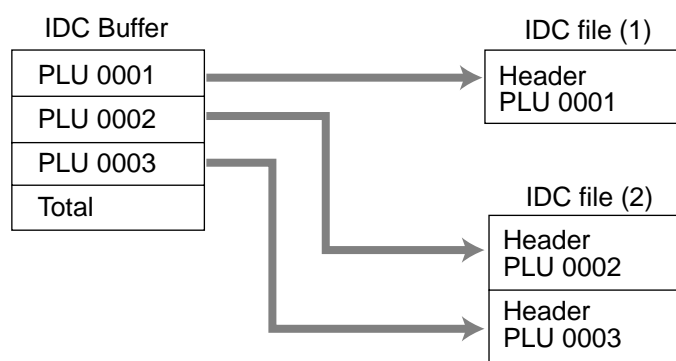
2-12-4. IDC data file structure

Top record (Top record of each IDC file)

0	12	24	50
Allocated record number	Used record number		

Header

0 1 2		8	11	13	16	19	21		26	31	36	41	47 48 50
Mc ID	01	Check-#	Consecutive No.	Mode	Clerk-#	Date	Time	Number of purchsed item	Net total	Subtotal without tax	Subtotal with tax	Customer-#	Payment / Not Used

Mode
D4:
D3: 01 = REG, 02 = REF, 03 = REG–
D2:
D1: 00 = Normal, 01 = Training

Clerk-#
D6:
D5: Clerk #; newly created this check
D4:
D3: Clerk #; last opened this check
D2:
D1: Clerk #; opening this check

Payment
D2:
D1: 00: Non-payment, 01: Payment

Item

Item (PLU / Subdepartment / Department)

0 1 2 3	5	7	9	11	13	18	23	28 30 32	35	50
Mc ID / 03 / Type *2	File-# *1	Rec-# *1	Tax status *3	Item status *4	Void reason	Quantity	Amount	Unit price	Pulldown group rec-# / Not Used / Random code	Not Used

Function

Cash, Charge, Check, Credit

0 1 2 3	5	7	9	14	19	24	29 30	50
Mc ID / 03 / Type	File-# *1	Rec-# *1	CE key Rec-#	Tendering amount in foreign currency	Tendering amount in local currency	Total Amount	Change Amount / Totaling Type	Not Used

Food stamp tender, EBT tender

0 1 2 3	5	7	12	17	22	27 28	50
Mc ID / 03 / Type	File-# *1	Rec-# *1	Tendering amount	Food stamp subtotal amount	Food stamp change amount (only for FS/TD)	Cash change Amount / Totaling Type	Not Used

Totaling Type
0: Total operation, 1: Change operation, 2: Partial tender operation

New balance

0 1 2 3	5	7	12	17	50
Mc ID / 03 / Type *2	File-# *1	Rec-# *1	Gross quantity	Gross amount	Not Used

*1 ~ *4: Refer to the last page of this section.

New balance fee

0	1	2	3	5	7	12	50
Mc ID	03	Type *2	File-# *1	Rec-# *1	New balance fee		Not Used

Cashing a check

0	1	2	3	5	7	14	19	24	29	50
Mc ID	03	Type *2	File-# *1	Rec-# *1	Not Used		Amount tendered	Cashing a check fee	Change amount	Not Used

Text print, Text recall

0	1	2	3	5	7	47	50
Mc ID	03	Type *2	File-# *1	Rec-# *1	Character		Not Used

Table transfer

0	1	2	3	5	7	12	18	24	50
Mc ID	03	Type *2	File-# *1	Rec-# *1	ST	Original check-#	New check-#	Not used	

Tip

0	1	2	3	5	7	12	50
Mc ID	03	Type *2	File-# *1	Rec-# *1	Amount		Not used

Loan / Pickup

0	1	2	3	5	7	12	50
Mc ID	03	Type *2	File-# *1	Rec-# *1	Amount		Not used

Received on account / Paid out / Deposit

0	1	2	3	5	7	12	50
Mc ID	03	Type *2	File-# *1	Rec-# *1	Amount		Not used

*1 ~ *4: Refer to the last page of this section.

+ / - / Coupon

0 1 2 3	5	7	9	11	16	21	26	50
Mc ID / 03 / Type *2	File-# *1	Rec-# *1	Tax status *3	Item status *4	No.	Amount	Price	Not Used

%+ / %-

0 1 2 3	5	7	9	11	16	21	26	31	50
Mc ID / 03 / Type *2	File-# *1	Rec-# *1	Tax status *3	Item status *4	No.	Amount	Price	Rate	Not Used

%+ / %- after selective item subtotal

0 1 2 3	5	7	9	16	21	26	31	50
Mc ID / 03 / Type *2	FIile-# *1	Rec-# *1	Selective item status-#	Not Used	Amount	Rate	Discount amount	Not Used

Selective item status-#
1: Selective item 1
2: Selective item 2

 # print (# or #/NS)

0 1 2 3	5	7	12	14	50
Mc ID / 03 / Type *2	File-# *1	Rec-# *1	Number	Figures	Not used

Tax exempt

0 1 2 3	5	7	9	14	19	24	29	34	39	44	50
Mc ID / 03 / Type *2	File-# *1	Rec-# *1	Tax status *3	Taxble amount 1	Taxable amount 2	Taxable amount 3	Taxable amount 4	Taxable amount 5	Taxable amount 6	TAxable amount 7	Not Used

Field name \ Tax system	Taxable amount 1	Taxable amount 2	Taxable amount 3	Taxable amount 4	Taxable amount 5	Taxable amount 6	Taxable amount 7
VAT	TA1	TA2	TA3	TA4	TA5	TA6	TA7
U.S.	TA1	TA2	TA3	--	--	--	--
Canada	TA1	TA2	TA1 & 2	TA3	TA1 & 3	TA4	TA1 & 4
Singapore	TA1	TA1 & 3	TA2	TA 2 & 3	TA3	--	--

ST / MDST

0 1 2 3	5	7	12	17	22	24	50
Mc ID / 03 / Type *2	File-# *1	Rec-# *1	Subtotal amount	Printed subtotal amount	Subtotal amount after CE	CE key rec-#	Not Used

*1 ~ *4: Refer to the last page of this section.

Media change / Tray total

0 1 2 3	5	7		50
Mc ID	03	Type *2	File-# *1 / Rec-# *1	Not Used

Store

0 1 2 3	5	7	12	18	24	50
Mc ID / 03 / Type *2 / File-# *1 / Rec-# *1	Subtotal amount	Not Used	Check-#	Not Used

Eat-in / Takeout

0 1 2 3	5	7	12	50
MC ID / 03 / Type *2 / File-# *1 / Rec-# *1	Amount	Not Used

Cancel

0 1 2 3	5	7	12	50
MC ID / 03 / Type *2 / File-# *1 / Rec-# *1	Amount	Not Used

Loyalty discount

0 1 2 3	7	9	16	21	26	31	50
Mc ID / 03 / Type *2	Not Used	Selective item status-#	Not Used	Amount	Rate	Discount amount	Not Used

Selective item status-#
   0: ST %-
   1: Selective item 1 %-
   2: Selective item 2 %-

*1 File-#, Rec-#:
   These are stored in Hexa-decimal. If the data is "ABCD", it means "CDAB".
*2 Type:
   It means record type, refer to 2-12-5 IDC data type section of this manual.
*3 Tax status:
   • Single tax/VAT
      b1: T/S1, b2: T/S2, b3: T/S3, b4: T/S4, b5: T/S5, b6: T/S6, b7: T/S7, b8: T/S8, b9: T/S9, b10: T/S10
   • U.S. or Singapore
      b1: T/S1, b2: T/S2, b3: T/S3, b4: F/S
   • Canada
      b1: T/S1, b2: T/S2, b3: T/S3, b4: T/S4, b9: Donuts tax
*4 Item status:
   b6~: not used, b5: 2nd@registration, b4: house Bon registration,
   b3: <COUPON2> registration, b2: <REFUND> registration, b1: <VOID> registration

2-12-5. IDC data type

Type of data	Type	Capture item
DTLTYPE_SDEPT	0A	Main item : Subdepartment
DTLTYPE_DEPT	0F	Main item : Department
DTLTYPE_PLU	14	Main item : PLU
DTLTYPE_SET_FIX	19	Dependent item : Set-menu/child (fixed)
DTLTYPE_SET_SEL	1E	Dependent item : Set-menu/child (option)
DTLTYPE_COND	23	Dependent item : Condiment *
DTLTYPE_PREP	28	Dependent item : Preparation
DTLTYPE_ITEM_PLUS	3C	Dependent item (discount) : item +
DTLTYPE_ITEM_MINUS	3D	Dependent item (discount) : item -
DTLTYPE_ITEM_CPN	3E	Dependent item (discount) : item CPN
DTLTYPE_ITEM_P_PLUS	3F	Dependent item (discount) : item %+
DTLTYPE_ITEM_P_MINUS	40	Dependent item (discount) : item %-
DTLTYPE_CASH	47	Finalize : Cash
DTLTYPE_CHARGE	48	Finalize : Charge
DTLTYPE_CHECK	49	Finalize : Check
DTLTYPE_CREDIT	4A	Finalize : Credit
DTLTYPE_NBCHKTRC	50	NB (check tracking) operation
DTLTYPE_NBTBLTR	52	NB (table transferring) operation
DTLTYPE_CANCEL	55	Cancel
DTLTYPE_TBLTR	56	Table transfer
DTLTYPE_NBFEE	57	NB fee
DTLTYPE_STORE	58	Store
DTLTYPE_ST_PLUS	64	ST +
DTLTYPE_ST_MINUS	65	ST -
DTLTYPE_ST_CPN	66	ST CPN
DTLTYPE_ST_P_PLUS	67	ST %+
DTLTYPE_ST_P_MINUS	68	ST %-
DTLTYPE_SIST_PERCENT_PLUS	69	SIST +
DTLTYPE_SIST_PERCENT_MINUS	6A	SIST -
DTLTYPE_ST	6F	ST
DTLTYPE_MDST	70	MDST
DTLTYPE_PRT_CHAR	71	PRINT CHAR
DTLTYPE_SHARP	73	# Print
DTLTYPE_TIP	74	Tip
DTLTYPE_DEPO	75	Deposit
DTLTYPE_TXEX	76	Tax exempt
DTLTYPE_EATIN	77	Eat-in
DTLTYPE_TAKEOUT	78	Takeout
DTLTYPE_TRAYTTL	79	Tray total
DTLTYPE_RC	96	RC
DTLTYPE_PD	97	PD
DTLTYPE_MEDIA_CHG	98	Medial change
DTLTYPE_GET_MONEY	99	Media change (get)
DTLTYPE_PUT_MONEY	9A	Media change (put)
DTLTYPE_LOAN	9B	Loan
DTLTYPE_PICKUP	9C	Pick up
DTLTYPE_FIN_LOANPICKUP	9D	Finalize loan/pick up
DTLTYPE_AMOUNT_EXCHANGE	9E	Currency exchange
DTLTYPE_CASH_IN_CHECK	9F	Cashing a check
DTLTYPE_CUST_DISCOUNT	AA	Loyalty discount

* Includes the item registered as a child PLU

2-12-6. Transferring IDC

It is possible to do collection of IDC files through inline system. Refer to the terminal structure as below.

Via COM 1 port of the master terminal (direct/Modem)
or Inline (Ethernet)

| Collection Master | Satellite | Satellite | Satellite | Satellite |
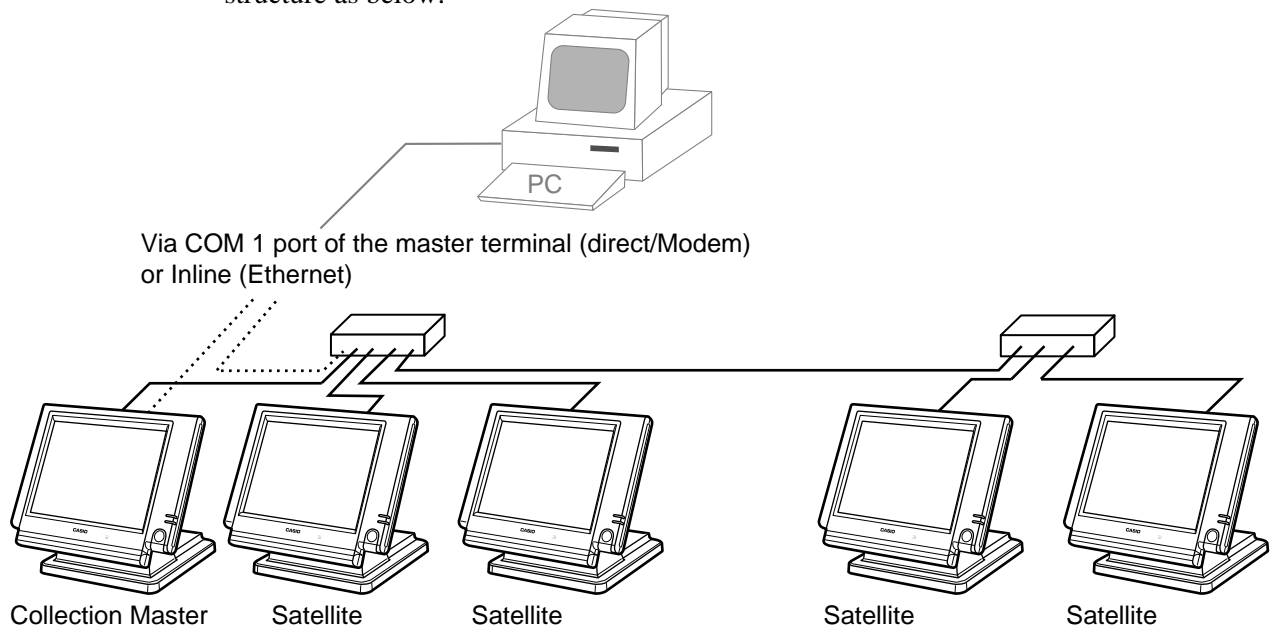
Flow of the transferring IDC

1. PC sends Z-lock command by using job command to collection master.
   PC enables to check the Z-lock confirmation.
2. PC sends the consolidation command by using Job command to collect IDC files from all satellite terminals.
3. Collection master receives the IDC data from each satellite in order.
   PC enables to check whether the collection master has finished the job.
4. PC sends the Z-command or X-command to the collection master.
5. PC receives the collection data from consolidation file. If the Z-command has issued at step 4, consolidation file in the collection master are all reset.

Data transferring flow

IDC data in each terminal totalizer is appended to the consolidation file individually.

Consolidation file (in Collection Master)

Master file	Copy →	Data from Master Totalizer
Satellite (1) file	Append →	Data from Satellite (1)
Satellite (2) file	Append →	Data from Satelite (2)
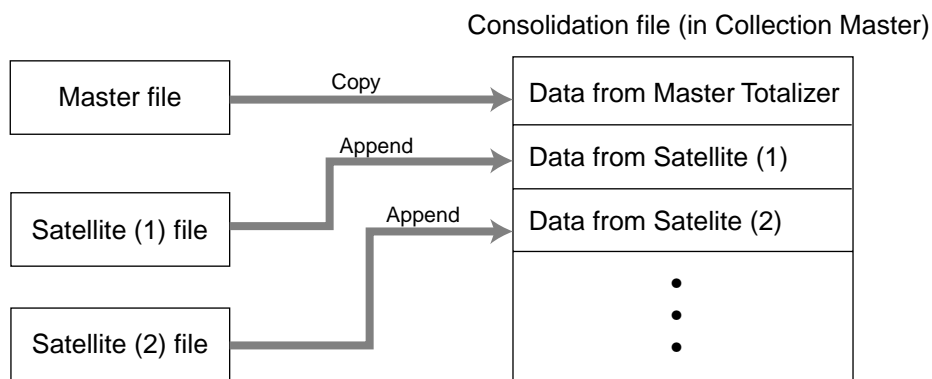
Notes:

- Just after IDC starts, the total file is cleared to receive new data.
- Just after the receiving is over, the data is remained in the consolidation file. To clear this data, send the Z-command or the file-clear command to the collection master from the PC. (Set "No", to "Reset consolidation total after inline consolidation" in the programming the communication in the machine feature programming.
- In case of collection Z, all of the IDC files in the satellite terminals are cleared.

2-13.   Electronic journal

There are two types of electronic journal. One is "normal" electronic journal, the other is "intelligent" electronic journal. The "normal" electronic journal stores all operations such as registration, report issuing and programming, but the "intelligent" electronic journal stores only registration. And the "intelligent" electronic journal stores one receipt when the transaction is finalized (not stored at new balance). You can select the "normal" or the "intelligent" electronic journal by allocating the "normal" electronic journal file (file-048 and -648) or the "intelligent" electronic journal file (file-050 and -650)

Electronic journal is stored in the terminal memory, so it is possible to print journal (electronic journal report) by date or by consecutive number.

And since the journal data is stored in the memory, you can collect journal data from all terminals in the system. Also, you can issue receipt and guest receipt from electronic journal.

2-13-1. Storing electronic journal

The electronic journal starts automatically and it ends if the journal memory becomes full. When the memory becomes full, the terminal alerts end error which you can select to alert or not to alert by programming. Refer to the page 38 of the programming manual.

Notes:

Even if the electronic journal memory is full, registrations are not disturbed.

2-13-2. Issuing electronic journal report

You can issue both type of the electronic journal read or reset report by date or by consecutive number.

Refer to the page 145 of this manual.

2-13-3. Displaying electronic journal and producing guest receipts after sales

Pressing the <EJ DISP> key shows the most recent transactions. You can go to older transactions by pressing the <PAGE UP> key while newer transactions by the <PAGE DOWN> key. And also you can move lines in a transaction by the <↑> or <↓> key.

During displaying an transaction, you can issue the post receipt of this transaction by pressing the <RECEIPT> key. If the guest receipt in the original transaction was issued you can get the copy of the guest receipt by pressing the <RECEIPT> key.

2-13-4. Transferring electronic journal memory

It is possible to do collection of electronic journal files through inline system.
Refer to the terminal structure illustrated below.

Via COM 1 port of the master terminal (direct/Modem)
or Inline (Ethernet)

Collection Master   Satellite   Satellite   Satellite   Satellite
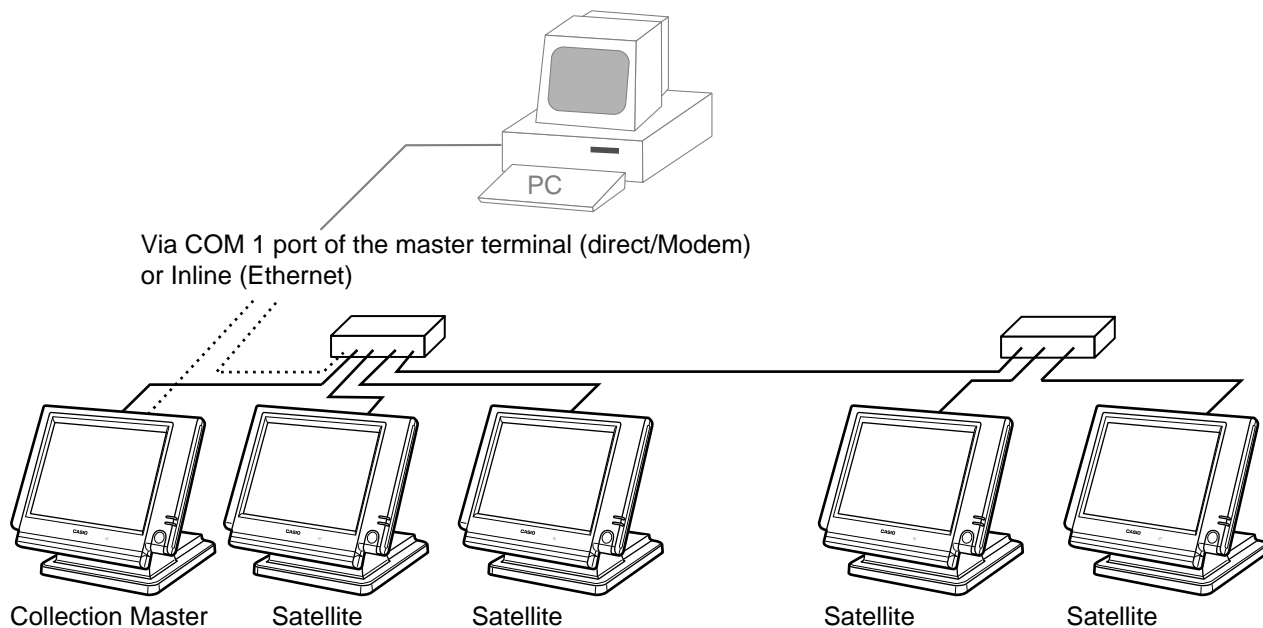
Flow of the transferring electronic journal

1. PC sends the collection command by using Job command to collect electronic journal file from a satellite terminal.
2. Collection master receives the electronic journal data from a satellite.
    PC enables to check whether the collection master has finished the job.
3. PC sends the data send command to the collection master for the collected electronic journal data.
4. PC receives the collection data from the master. If the Z-command has issued at step 3, electronic journal file in the satellite is all reset.
5. Repeat step 1 ~ 4 for all satellites.

Data transferring flow

Electronic journal data in each terminal is appended to the consolidation file individually.
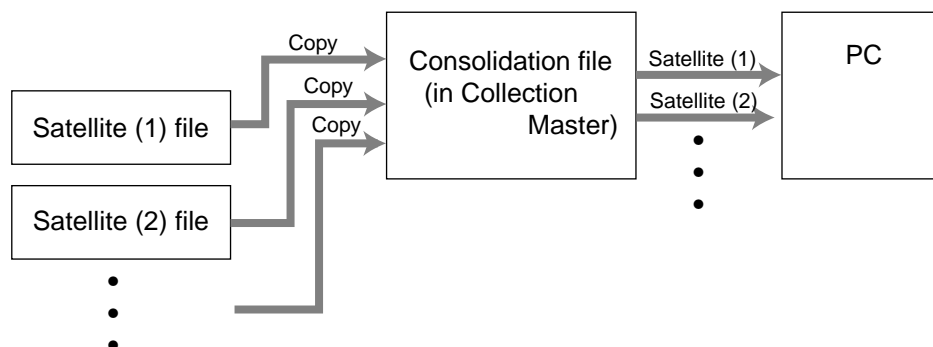
File 048 and 648 for "normal" electronic journal.
File 050 and 650 for "intelligent" electrionic journal.

3. Manager operation

This section describes manager operations (such as machine initialization, IPL, manager functions etc.) of QT-6000.

3-1. Machine initialization

There are three different types of initialization such as INIT, FC, and INIT2.

INIT; Machine initialization, all program and total data are reset.

FC; Flag clear, all program and total data are remained, only the current transaction data are reset.

INIT2; Machine initialization 2, all program data are remained, only total data are reset.

The procedures of machine initialization are described in the chapter 1 of the programming manual. The required passwords are listed below.

Operation	Password	Digit meaning
Init	00020000	for the U.S.
	00010000	for other area (default descriptors are initialized in English)
	00040000	for other area (default descriptors are initialized in German)
	00050000	for other area (default descriptors are initialized in French)
	00060000	for other area (default descriptors are initialized in Spanish)
	00080000	Arabic (default descriptors are initialized in English)
Flag clear	No need	
Init2	8888888888	

* See the "INIT code" section to notice the detail information of the last four digits.

3-1-1. INIT

Initialization process is as follows:
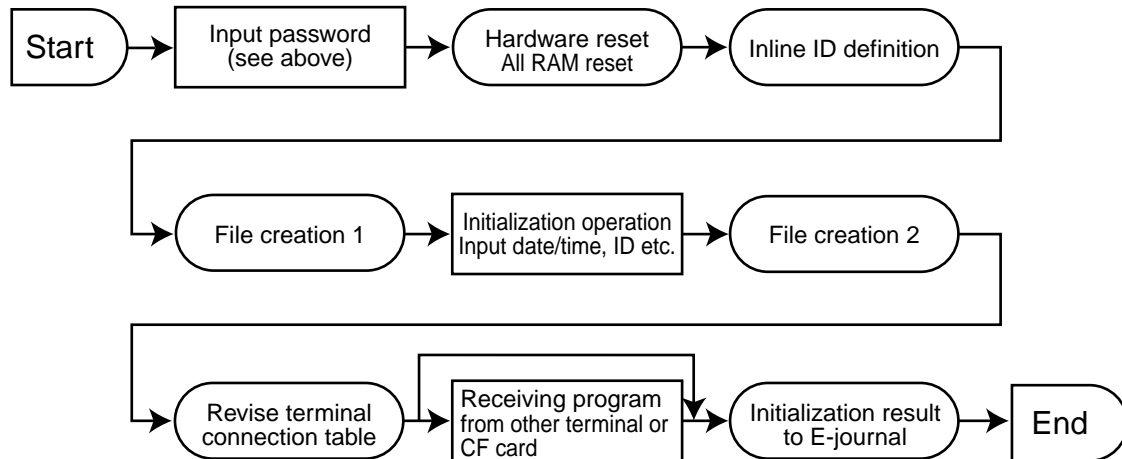
3-1-2. Flag clear

Flag clear process is as follows:

3-1-3. INIT 2

Initialization 2 process is as follows:

3-1-4. INIT code

Description	Choice	Program code

Area code:
U.S.   : 2
Other area (default descriptor in English) : 1
            (default descriptor in German) : 4
            (default descriptor in French) : 5
            (default descriptor in Spanish) : 6
            (using Arabic character table) : 8
	Significant number	D_5

COM 4 Use remote printer-1 : 0	Significant number	D_4
COM3 Use remote printer-2 : 0 Use remote display : 3	Significant number	D_3
COM 2 Use slip printer (SP-1300) : 0 Use hand held scanner (HHS-15) : 1	Significant number	D_2
COM 1 Use XMODEM : 0	Significant number	D_1

3-2. IPL (Initial Program Loading)

IPL should be made before initializing when the application software has been modified.

3-2-1. IPL

Initial program loading process is as follows: IPL code = 44449999

Manager Operation
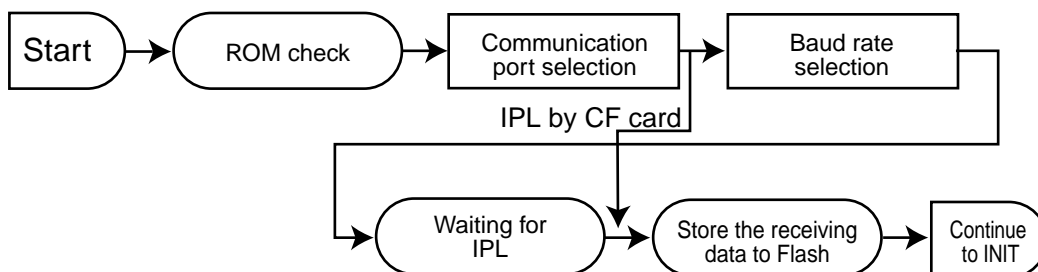
3-2-2. System configuration before IPL operation

Connect source terminal (cash register terminal/PC) and target terminals or insert the IPL CF card to the terminal.

IPL source

CF card

IPL Data

IPL target

CF card slot is located on the backside of the terminal.

IPL source

PC

IPL Data

IPL target

COM 1 port

R-84

3-2-3. IPL operation

```
xxxxxxx
xxxxxxx        ┌─────────────────┐
xxxxxxx        │ IPL : CF CARD   │
xxxxxxx        └─────────────────┘

xxxxxxx
xxxxxxx        ┌─────────────────┐
xxxxxxx        │ IPL : COM1 PORT │
xxxxxxx        └─────────────────┘
```
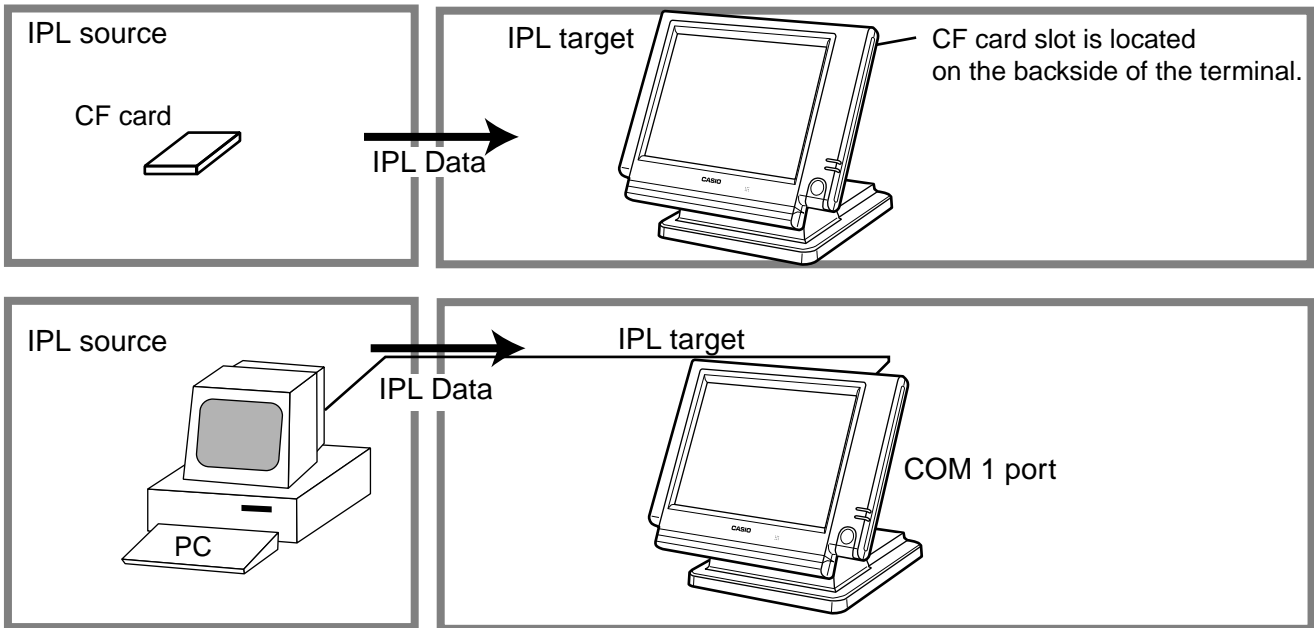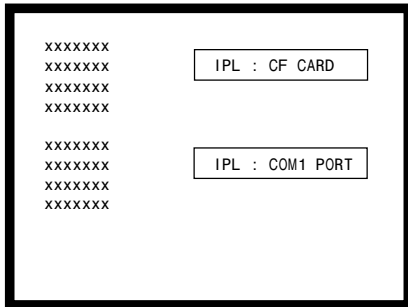
If you select "CF card", insert the CF card into the slot before this step.

1. Select the appropriate method to loading IPL data.

(using COM PORT)

```
xxxxxxx
xxxxxxx              ┌──────────────┐
xxxxxxx              │ 115200  bps  │
                     ├──────────────┤
                     │ 57600  bps   │
                     ├──────────────┤
                     │ 56000  bps   │
IPL : COM1 PORT      ├──────────────┤
                     │ 34800  bps   │
                     ├──────────────┤
                     │ 19200  bps   │
                     ├──────────────┤
                     │ 9600  bps    │
                     └──────────────┘

                      ┌──────────┐
                      │ CANCEL   │
                      └──────────┘
```
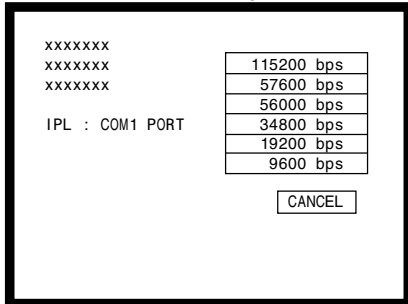
2. If you choose COM port or IN LINE port, select baud rate of the IPL source device.

```
xxxxxxx
xxxxxxx
xxxxxxx
xxxxxxx
xxxxxxx




                      ┌──────────┐
                      │ START    │
                      └──────────┘
                      ┌──────────┐
                      │ CANCEL   │
                      └──────────┘
```
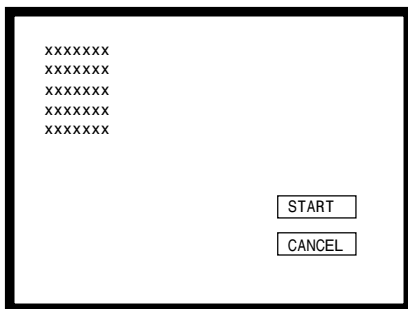
3. Press the <START> key to proceed, in case of downloading via inline, automatic ID definition is made by this timing. So press the <YES> key terminal by terminal.

4. After finishing IPL, machine initialization is necessary.

3-3. Manager function

Using the manager function makes it possible to control the terminal conditions. The contents of the manager function are as follows:

1. System connection check
2. Remote on
3. Remote off
4. Busy reset
5. Stock maintenance
6. Drawer for clerk
7. CHK# (Clerk interrupt)
8. Order ID change
9. Error log print
10. System re-configuration
11. Item Data Capture
12. EURO Change over.
13. Clerk window
14. Customer
15. Customer Busy Reset
16. Recording
17. Clerk number
18. Operation monitor

3-3-1.   System connection check

This command shows the connection status of terminals, and printers.

```
MGR   C01        10-10-01 12:34      000000

              Manager Mode
    1.System Connection Check
    2.Remote On
    3.Remote Off
    4.Busy Reset
    5.Stock Maintenance
    6.Drawer for Clerk
    7.CHK#(CLK Interrupt)
    8.Order ID Change            ↓

                               0 . 00

```
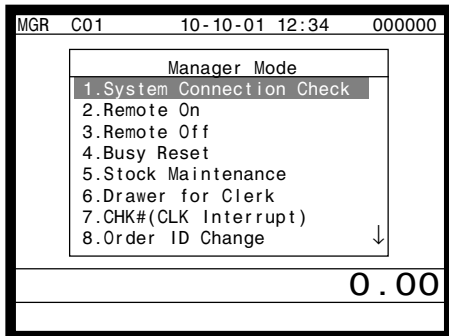
1. Sign on a clerk (if necessary).
2. Press <Manager> to assign manager mode.

3. Select "1. System Connection Check" and press the <YES> key.
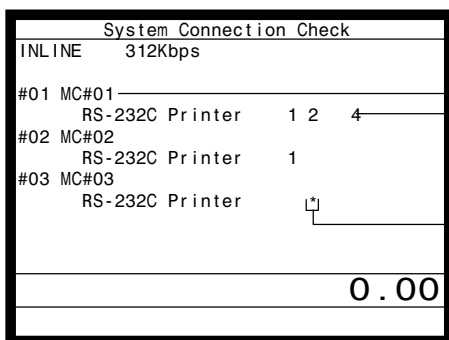
```
           System Connection Check
    INLINE      312Kbps

    #01 MC#01 ─────────────────────── Physical ID, Logical ID
          RS-232C Printer    1 2    4 ── RS-232C printer recognition (1: printer (1), 2: printer (2), 4: slip printer
    #02 MC#02
          RS-232C Printer    1
    #03 MC#03
          RS-232C Printer      ⌐*⌐
                                └───── Un recognized RS-232C printer

                               0 . 00

```

4. After checking the system connection, press the <ESC> key to return the previous menu.

Note:

If there is unrecognized terminal there it shows "*" as below.
example)   #04 ************

3-3-2. Remote on

This command is used to power on the terminals connected with the same inline.

```
MGR  C01      10-10-01 12:34      000000
         ┌─────────────────────────────┐
         │       Manager Mode          │
         │ 1.System Connection Check   │
         │ 2.Remote On                 │
         │ 3.Remote Off                │
         │ 4.Busy Reset                │
         │ 5.Stock Maintenance         │
         │ 6.Drawer for Clerk          │
         │ 7.CHK#(CLK Interrupt)       │
         │ 8.Order ID Change        ↓  │
         └─────────────────────────────┘
                              0.00
```
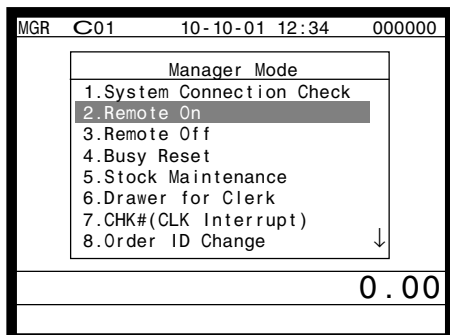
1. Sign on a clerk (if necessary).
2. Press <Manager> to assign manager mode.

3. Select "2. Remote On" and press the <YES> key.

```
┌─────────────────────────────────────┐
│              Remote On               │
│                                      │
│  Terminal          All               │
│                                      │
│  OK?               YES               │
│                                      │
│                                      │
│                                      │
│                              0.00    │
│                                      │
└─────────────────────────────────────┘
```
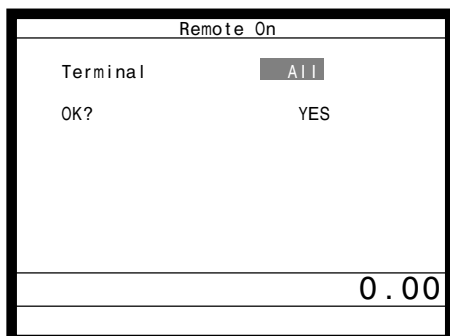
4. Select all terminals or individual terminal, select "YES" to execute this command.

3-3-3. Remote off

This command is used to power off the terminals connected with the same inline.

```
MGR  C01      10-10-01 12:34      000000
         ┌─────────────────────────────┐
         │       Manager Mode          │
         │ 1.System Connection Check   │
         │ 2.Remote On                 │
         │ 3.Remote Off                │
         │ 4.Busy Reset                │
         │ 5.Stock Maintenance         │
         │ 6.Drawer for Clerk          │
         │ 7.CHK#(CLK Interrupt)       │
         │ 8.Order ID Change        ↓  │
         └─────────────────────────────┘
                              0.00
```
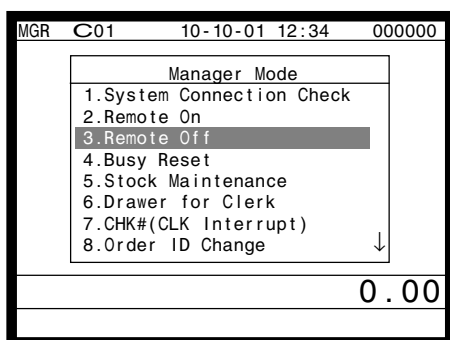
1. Sign on a clerk (if necessary).
2. Press <Manager> to assign manager mode.

3. Select "3. Remote Off" and press the <YES> key.
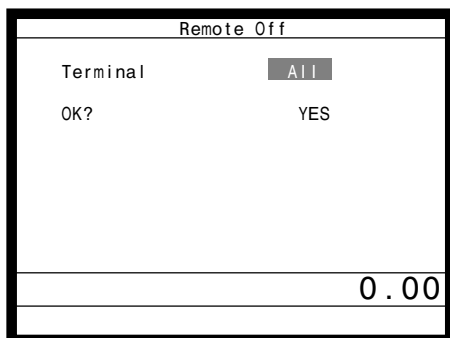
```
┌─────────────────────────────────────┐
│              Remote Off              │
│                                      │
│  Terminal          All               │
│                                      │
│  OK?               YES               │
│                                      │
│                                      │
│                                      │
│                              0.00    │
│                                      │
└─────────────────────────────────────┘
```

4. Select all terminals or individual terminal, select "YES" to execute this command.

Manager Operation

3-3-4. Busy reset

This command is used to release the busy flag of the check used by other dead terminal. Executing this command always releases this flag, so please be careful to perform this operation.

```
MGR  C01      10-10-01 12:34      000000
      ┌─────────────────────────────┐
      │        Manager Mode         │
      │1.System Connection Check    │
      │2.Remote On                  │
      │3.Remote Off                 │
      │4.Busy Reset                 │
      │5.Stock Maintenance          │
      │6.Drawer for Clerk           │
      │7.CHK#(CLK Interrupt)        │
      │8.Order ID Change          ↓ │
      └─────────────────────────────┘
                              0.00
```

1. Sign on a clerk (if necessary).
2. Press <Manager> to assign manager mode.

3. Select "4. Busy Reset" and press the <YES> key.

```
            Busy Reset

Check No.              12

OK?                   YES




                              0.00
```

4. Enter the appropriate check number, and then select "YES" to execute this command.

```
            Busy Reset

Check No.             12

OK?                  YES

             Normal End



                              0.00
```

3-3-5. Stock maintenance

This command is used to update PLU stock quantities brought by purchasing or inventory processing.

```
MGR  C01      10-10-01 12:34    000000

            Manager Mode
      1.System Connection Check
      2.Remote On
      3.Remote Off
      4.Busy Reset
      5.Stock Maintenance
      6.Drawer for Clerk
      7.CHK#(CLK Interrupt)
      8.Order ID Change          ↓

                            0.00

```
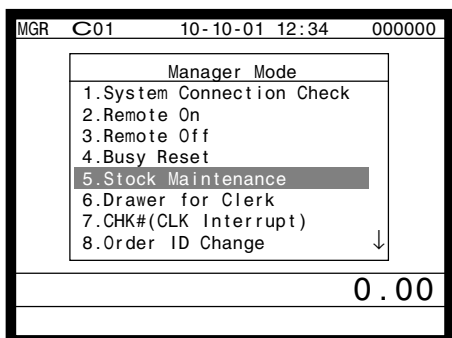
1. Sign on a clerk (if necessary).
2. Press <Manager> to assign manager mode.

3. Select "5. Stock Maintenance" and press the <YES> key.

```
         Stock Maintenance

              PLU
      1.PLU0001
      2.PLU0002
      3.PLU0003
      4.PLU0004
      5.PLU0005
      6.PLU0006
      7.PLU0007
      8.PLU0008             ↓

                            0.00

```
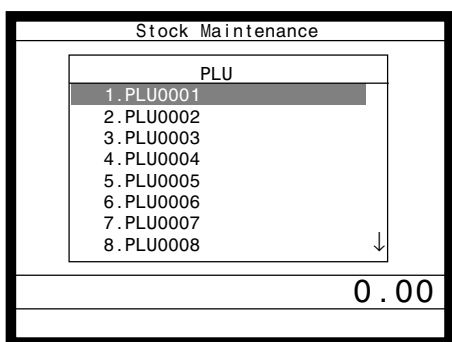
4. Select the appropriate PLU and press the <YES> key.

```
No.  Descriptor       Stock
  1  PLU0001              0.000
                         0.000

No.  Descriptor       Stock
  1  PLU0001           +100.000
                       100.000
  2  PLU0002             0.000
                         0.000




PLU0001        +100.000

```
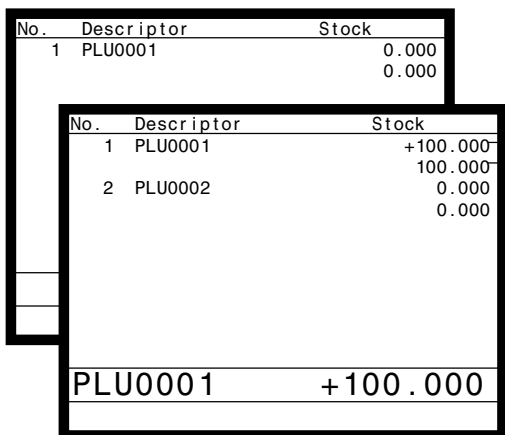
— Entered stock quantity
— Total stock quantity

5. Enter adjustment (adding) stock value and press the <YES> key. If you want to decrease stock value, press the <RF> key before entering the stock value.
   The next PLU appears on the screen.

6. Press the <ESC> key to terminate this sequence.
7. Press the <ESC> key to issue receipt.

RECEIPT

```
Stock Maintenance
No.    Descriptor      Stock
---------------------------------------
  1 PLU0001              +100.000
                         100.000
  2 PLU0002                0.000
                           0.000
```

3-3-6. Drawer for clerk

This command is used to designate the drawer 1 ~ 2.

```
MGR  C01      10-10-01 12:34      000000

          Manager Mode
       1.System Connection Check
       2.Remote On
       3.Remote Off
       4.Busy Reset
       5.Stock Maintenance
       6.Drawer for Clerk
       7.CHK#(CLK Interrupt)
       8.Order ID Change        ↓

                              0.00

```
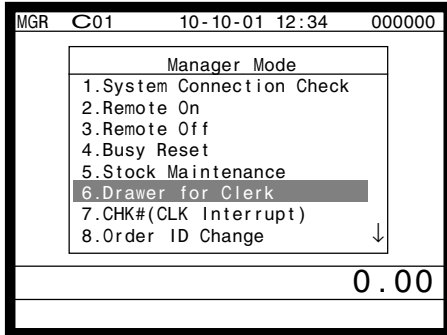
1. Sign on a clerk (if necessary).
2. Press <Manager> to assign manager mode.
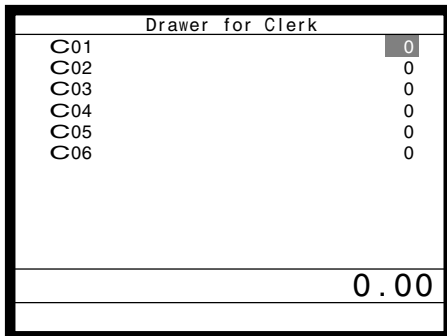
3. Select "6. Drawer for Clerk" and press the <YES> key. The display shows "Clerk name/Drawer No." list.
4. Select the drawer No. field of the appropriate clerk, enter the drawer number (1 or 2, "0" means drawer 1), and press the <YES> key.
5. Press the <ESC> key to return to the previous menu.

```
          Drawer for Clerk
       C01                        0
       C02                        0
       C03                        0
       C04                        0
       C05                        0
       C06                        0




                              0.00

```

3-3-7. CHK# (Clerk interrupt)

This command is used to designate the check number for clerk interrupt to each clerk.

```
MGR  C01      10-10-01 12:34      000000

          Manager Mode
       1.System Connection Check
       2.Remote On
       3.Remote Off
       4.Busy Reset
       5.Stock Maintenance
       6.Drawer for Clerk
       7.CHK#(CLK Interrupt)
       8.Order ID Change        ↓

                              0.00

```
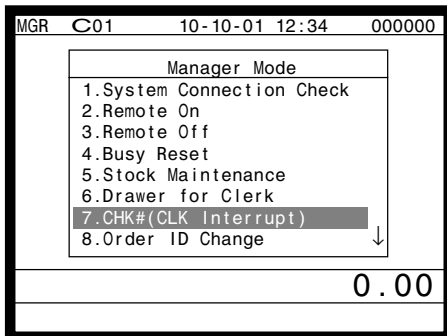
1. Sign on a clerk (if necessary).
2. Press <Manager> to assign manager mode.
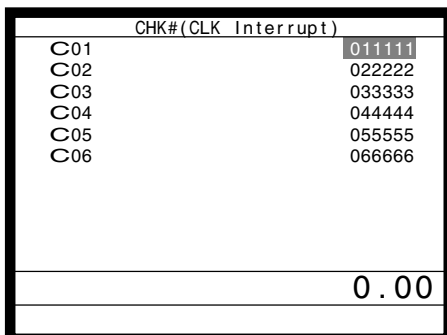
3. Select "7. CHK# (CLK Interrupt)" and press the <YES> key. The display shows "Clerk name / Check No." list.
4. Select the check No. field of the appropriate clerk, enter the check number (within 6-digits), and press the <YES> key.
5. Press the <ESC> key to return the previous menu.

```
          CHK#(CLK Interrupt)
       C01                   011111
       C02                   022222
       C03                   033333
       C04                   044444
       C05                   055555
       C06                   066666




                              0.00

```

3-3-8. Order ID change

This command is used to change the target printer of order temporarily.

```
MGR  C01      10-10-01 12:34      000000

           Manager Mode
    1.System Connection Check
    2.Remote On
    3.Remote Off
    4.Busy Reset
    5.Stock Maintenance
    6.Drawer for Clerk
    7.CHK#(CLK Interrupt)
    8.Order ID Change           ↓

                              0.00

```
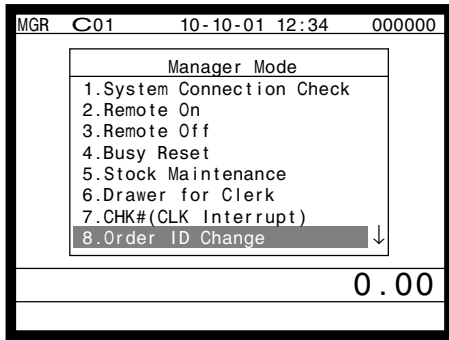
1. Sign on a clerk (if necessary).
2. Press <Manager> to assign manager mode.

3. Select "8. Order ID Change" and press the <YES> key.

```
           Order ID Change
Definition Enable              YES

    1.Order1                   103
    2.Order2                   202
    3.Order3                   203
    4.Order4                   104
    5.Order5                   000
    6.Order6                   000
    7.Order7                   000

      OK?                      YES
                              0.00

```
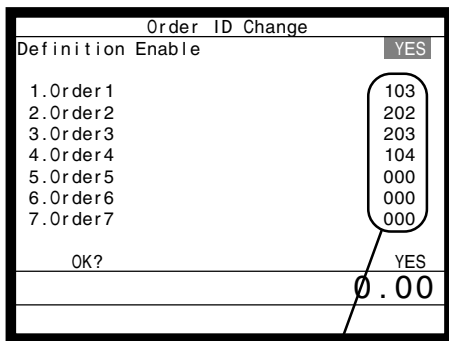
$D_3 D_2 D_1$

4. Select "YES" of the Definition Enable field, and enter an appropriate ID number of each order printer and press the <YES> key. Select "YES" of the last line to execute this command.

Note: D_3 D_2 D_1

In case of $D_3 = 1$, D_2 & D_1 defines the terminal physical ID that connect to printer-1.
In case of $D_3 = 2$, D_2 & D_1 defines the terminal physical ID that connect to printer-2.

3-3-9. Error log print

This command is used to display / print out the error log file.

```
MGR  C01      10-10-01 12:34    000000
        ┌──────────────────────────┐
        │     Manager  Mode        │
        │ 3.Remote off          ↑  │
        │ 4.Busy Reset             │
        │ 5.Stock Maintenance      │
        │ 6.Drawer for Clerk       │
        │ 7.CHK#(CLK Interrupt)    │
        │ 8.Order ID Change        │
        │ 9.Error Log Print        │
        │ 10.System Re-configuration ↓│
        └──────────────────────────┘
                          0.00
```
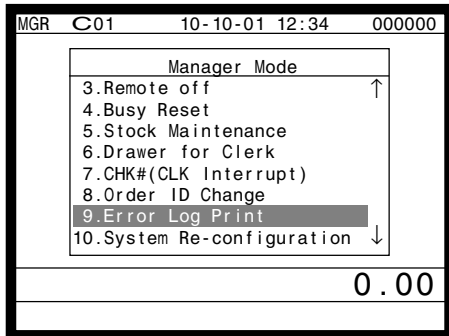
1. Sign on a clerk (if necessary).
2. Press <Manager> to assign manager mode.
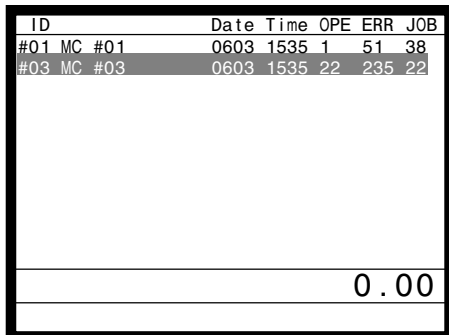
3. Select "9. Error Log Print" and press the <YES> key.

```
 ID              Date Time OPE ERR JOB
#01 MC #01       0603 1535  1   51  38
#03 MC #03       0603 1535 22  235  22




                          0.00
```
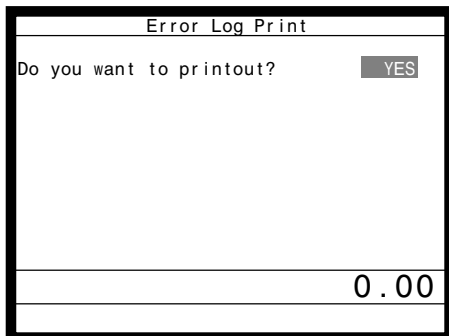
4. The display shows current error log.
   Then press the <ESC> key.

```
┌──────────────────────────────────┐
│        Error Log Print           │
│                                  │
│Do you want to printout?    YES   │
│                                  │
│                                  │
│                                  │
│                                  │
│                          0.00    │
│                                  │
└──────────────────────────────────┘
```

5. Press the <YES> key if you want to print error log.
   If you do not want to print error log, press the <ESC> key.

RECEIPT

```
Error Log Print

ID              Date Time OPE ERR JOB
----------------------------------------
#01 MC #01      0603 1535  1   51  38
#03 MC #03      0603 1535 22  235  22
#00             0000 0000  0    0   0
```

3-3-10. System re-configuration

This command is one procedure of down recovery. It backs the contents of the system connection table to the original value.

It should be executed under these conditions:

1) After issuing "Open check report".
2) All terminals are connected and work without any trouble. (Check by system connection check)
3) No terminal is in registration, collection, consolidation, sending/receiving programs.
4) Activate "System re-configuration" command at the terminal on which the "Cut-off" icon is lit.

1. Sign on a clerk (if necessary).
2. Press <Manager> to assign manager mode.

```
MGR  C01      10-10-01 12:34      000000

           Manager Mode
    3.Remote off                    ↑
    4.Busy Reset
    5.Stock Maintenance
    6.Drawer for Clerk
    7.CHK#(CLK Interrupt)
    8.Order ID Change
    9.Error Log Print
   10.System Re-configuration       ↓

                              0.00
    ▮
```
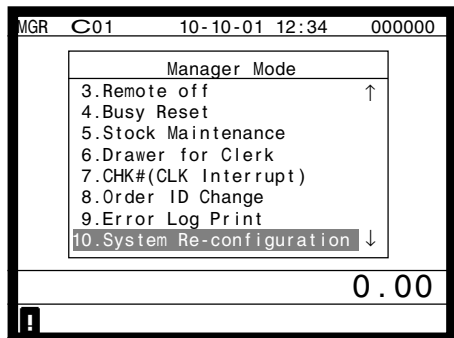
Cut-off Master or Backup master icon

3. Select "10. System Re-configuration" and press the <YES> key.

```
       System Re-configuration

System Re-configuration          NO

    OK?                          YES




                              0.00
    ▮
```
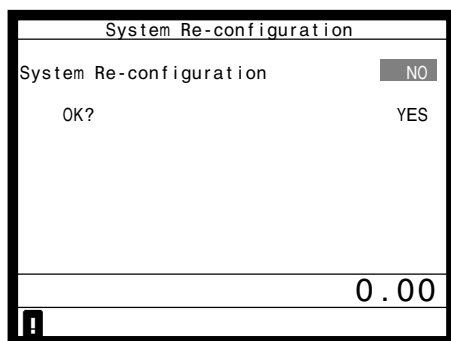
4. Choose the option "YES (Perform system re-configuration) / NO (Abort this procedure)" and press the <YES> key.

3-3-11. Item Data Capture

You can change the IDC status (capture transaction data or not) by the operation described below.

```
MGR  C01      10-10-01 12:34      000000
        ┌─────────────────────────┐
        │      Manager Mode        │
        │  9.Error Log Print      ↑│
        │ 10.System Re-configuration│
        │ 11.Item Data Capture     │
        │ 12.EURO Change over      │
        │ 13.Clerk Window          │
        │ 14.Customer              │
        │ 15.Customer Busy Reset   │
        │ 16.Recording             │
        └─────────────────────────┘
                              0.00
```
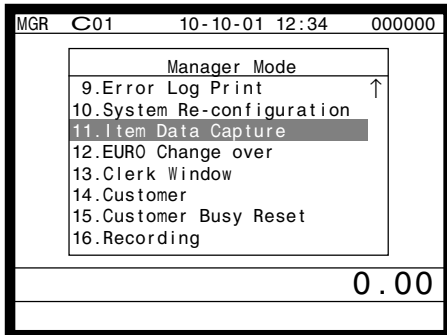
1. Sign on a clerk (if necessary).
2. Press <Manager> to assign manager mode.

3. Select "11. Item Data Capture" and press the <YES> key.

```
┌─────────────────────────────────┐
│        Item Data Capture         │
│                                  │
│ Item Data Capture          YES   │
│                                  │
│                                  │
│                                  │
│                                  │
│                                  │
│                           0.00   │
└─────────────────────────────────┘
```
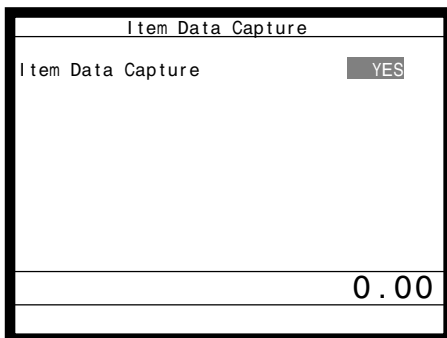
4. Choose the option "YES (capture item data) / NO (not capture item data)" and press the <ESC> key.

3-3-12. Euro change over

After this operation, the following subjects are made:
(1) The Euro is defined as main currency and the local is defined as sub currency.
(2) All totals and counts are reset.
(3) Unit prices (department, subdepartment, PLU, 2nd @, shift PLU) are converted in Euro.

Before "change over operation",
(1) Issue all reset report including open check report, if necessary.
(2) Sign off all cashier/clerk and stop all operations of all terminals of the system.

```
MGR  C01      10-10-01 12:34   000000
        ┌──────────────────────┐
        │      Manager Mode     │
        │  9.Error Log Print  ↑ │
        │ 10.System Re-configuration│
        │ 11.Item Data Capture  │
        │ 12.EURO Change over   │
        │ 13.Clerk Window       │
        │ 14.Customer           │
        │ 15.Customer Busy Reset│
        │ 16.Recording          │
        └──────────────────────┘
                          0.00
```
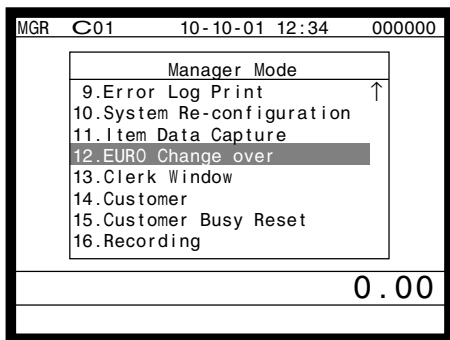
1. Sign on a clerk (if necessary).
2. Press <Manager> to assign manager mode.
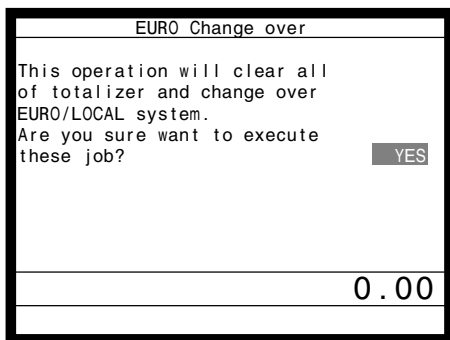
3. Select "12. EURO Change over" and press the <YES> key.

```
        ┌──────────────────────┐
        │    EURO Change over   │
        ├──────────────────────┤
        │This operation will clear all│
        │of totalizer and change over│
        │EURO/LOCAL system.     │
        │Are you sure want to execute│
        │these job?         YES │
        │                       │
        │                       │
        └──────────────────────┘
                          0.00
```
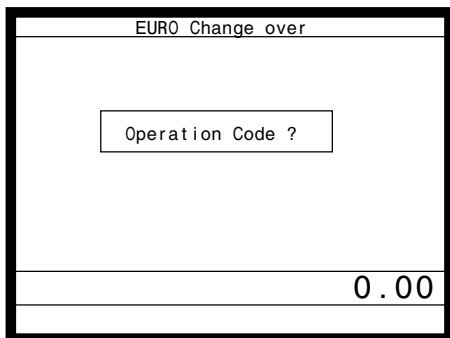
4. If you want to proceed this step, press the <YES> key. To abort this step, press the <NO> or <ESC> key.

```
        ┌──────────────────────┐
        │    EURO Change over   │
        ├──────────────────────┤
        │                       │
        │  ┌─────────────────┐  │
        │  │ Operation Code ? │  │
        │  └─────────────────┘  │
        │                       │
        │                       │
        └──────────────────────┘
                          0.00
```

5. If you want to proceed this step, enter "8888888888" and press the <YES> key. (It takes a few minutes.)
   To abort this step, press the <NO> or <ESC> key.

RECEIPT

```
EURO Change over

Done update EURO rate and
symbols.
Please check unit price and
fix totalizer euro-in-drawer
title character.
```

Perform the same operation of all the terminals of the system.

3-3-13. Clerk window

You can program clerk window contents in the MGR mode.

```
MGR  C01      10-10-01 12:34      000000
       Manager Mode
  9.Error Log Print              ↑
 10.System Re-configuration
 11.Item Data Capture
 12.EURO Change over
 13.Clerk Window
 14.Customer
 15.Customer Busy Reset
 16.Recording

                          0 . 0 0
```

1. Sign on a clerk (if necessary).
2. Press <Manager> to assign manager mode.

```
          Clerk Window
 Clerk Window           (Disable)




                          0 . 0 0
```
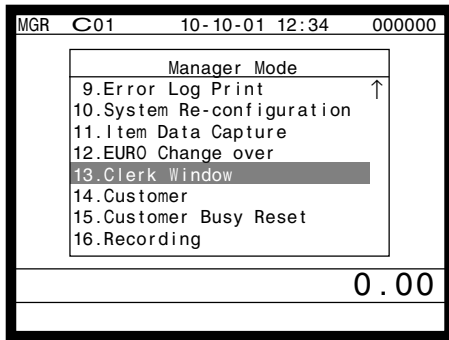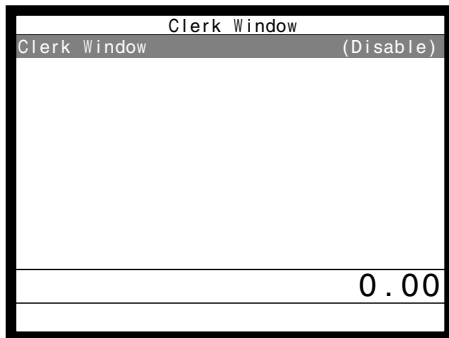
3. Select "13.Clerk Window" and press the <YES> key.

4. Press the <YES> key to continue.

```
          Clerk Window
          Clerk Window
  1.(Disable)
  2.Clerk window 1
  3.Clerk window 2
  4.Clerk window 3
  5.Clerk window 4
  6.Clerk window 5
  7.Clerk window 6
  8.Clerk window 7          ↓

                          0 . 0 0
```
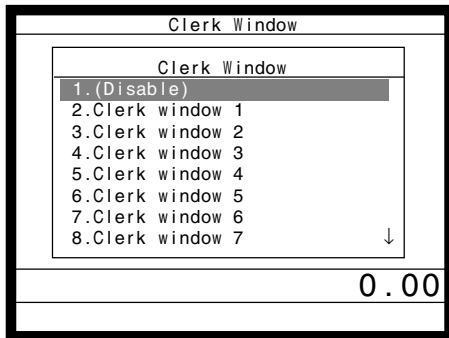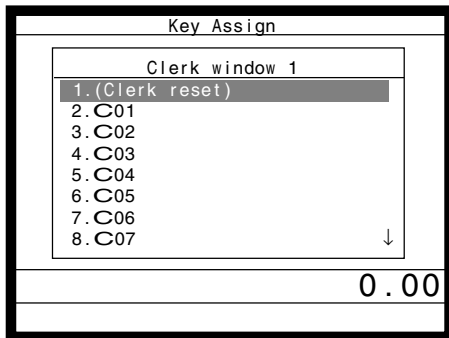
5. Select the clerk window. If you don't use clerk window, select "1.(Disable)".

```
          Key Assign
         Clerk window 1
  1.(Clerk reset)
  2.C01
  3.C02
  4.C03
  5.C04
  6.C05
  7.C06
  8.C07                     ↓

                          0 . 0 0
```
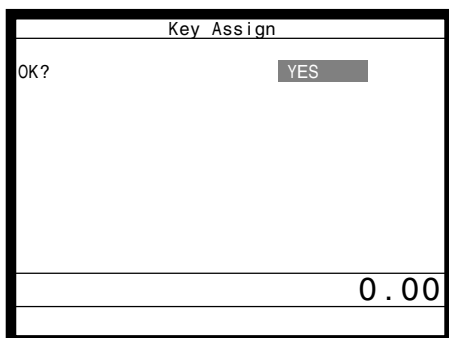
6. Select the clerk to allocate the clerk window. After this operation, select the appropriate key in the clerk window.

```
          Key Assign
 OK?                  YES




                          0 . 0 0
```

7. Press the <YES> key to set this program.

3-3-14. Customer

You can program (add / modify / delete) the customer (name, address etc.) in the MGR mode.

```
MGR  C01      10-10-01 12:34      000000

          Manager Mode
 9.Error Log Print              ↑
10.System Re-configuration
11.Item Data Capture
12.EURO Change over
13.Clerk Window
14.Customer
15.Customer Busy Reset
16.Recording

                          0.00

```
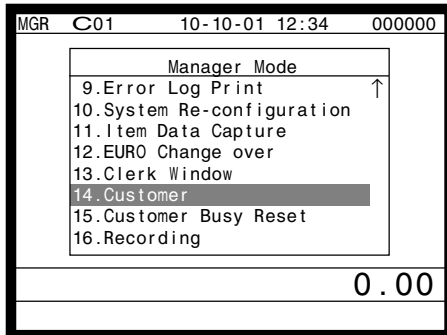
1. Sign on a clerk (if necessary).
2. Press <Manager> to assign manager mode.
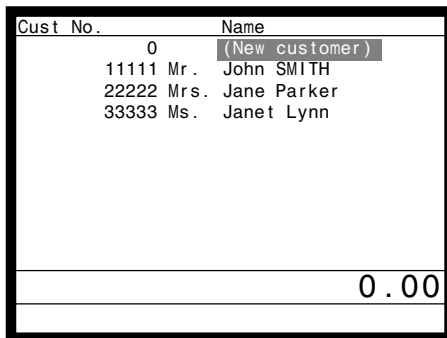
3. Select "14.Customer" and press the <YES> key.

```
Cust No.       Name
      0    (New customer)
  11111 Mr.  John SMITH
  22222 Mrs. Jane Parker
  33333 Ms.  Janet Lynn




                          0.00

```

4. **Add customer:** Select (New customer) and press the <YES>. Then input the customer No. and press the <YES> in the next screen.
   Modify customer: Select the appropriate customer and press the <YES>.
   Delete customer: Select the appropriate customer and press the <NO>.
• If you swipe a card at this timing, "add customer (new card)" or "modify customer (already programmed card) is performed.

```
Cust No.                    123456
Name
Title
Address(1)
Address(2)
Address(3)
Address(4)
Phone No.
Customer GP      Group01
New customer               YES


                          0.00

```
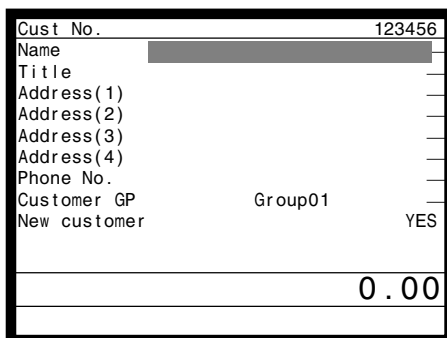
— Customer name (up to 24 characters)
— Customer title (select from sub menu)
— Customer address 1 (up to 24 characters)
— Customer address 2 (up to 24 characters)
— Customer address 3 (up to 24 characters)
— Customer address 4 (up to 24 characters)
— Customer phone No. (up to 12 digits)
— Customer group (select from sub menu)

5. Press the <ESC> to set and continue to program new customer.

3-3-15. Customer busy reset

This command is used to release the busy flag of the customer used by other dead terminal. Executing this command always releases this flag, so please be careful to perform this operation.

```
MGR  C01      10-10-01 12:34      000000

           Manager Mode
  9.Error Log Print              ↑
 10.System Re-configuration
 11.Item Data Capture
 12.EURO Change over
 13.Clerk Window
 14.Customer
 15.Customer Busy Reset
 16.Recording

                          0.00

```
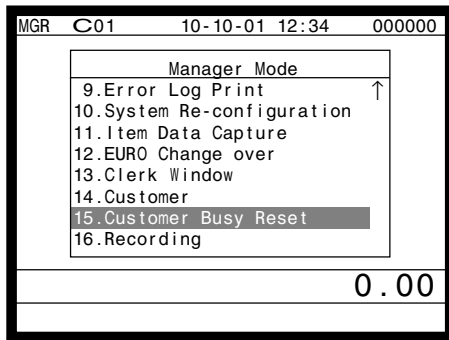
1. Sign on a clerk (if necessary).
2. Press <Manager> to assign manager mode.

3. Select "15. Customer Busy Reset" and press the <YES> key.

```
          Customer Busy Reset

 Cust No.            

 OK?                    YES




                          0.00

```

4. Enter the appropriate customer number, and then select "YES" to execute this command.
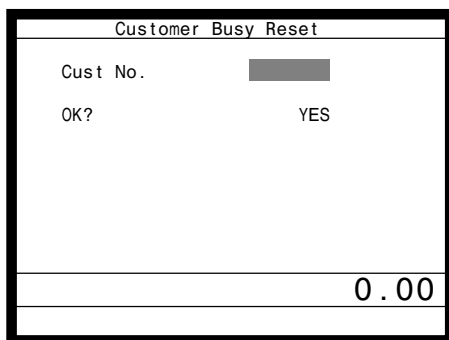
RECEIPT

```
 Busy Reset
 CUST No. 123456
 Dr.
 Big Scientist
  BALANCE              $45.90
  DISCOUNT              $3.23
```

3-3-16. Sound

This command is used to play the programmed sound file or to record to the sound file.

```
MGR  C01      10-10-01 12:34      000000

           Manager Mode
  9.Error Log Print              ↑
 10.System Re-configuration
 11.Item Data Capture
 12.EURO Change over
 13.Clerk Window
 14.Customer
 15.Customer Busy Reset
 16.Recording

                          0.00

```
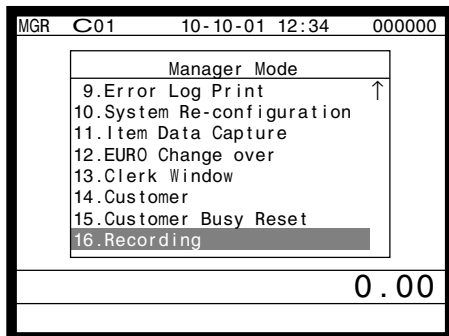
1. Sign on a clerk (if necessary).
2. Press <Manager> to assign manager mode.

3. Select "16. Recording" and press the <YES> key.

4. Enter the appropriate sound file, press <YES> to play, press <NO> to record.

```
            Recording

             WAV File
 1.Sound (1)
 2.Sound (2)
 3.Sound (3)
 4.Sound (4)
 5.Sound (5)
 6.Sound (6)
 7.Sound (7)
 8.Sound (8)                    ↓

                          0.00

```
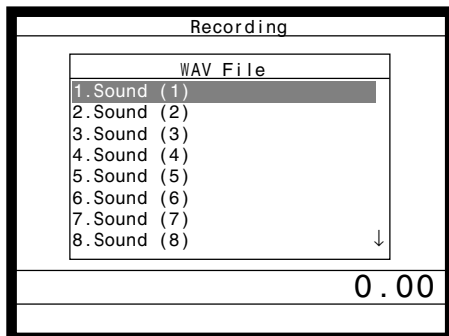
3-3-17. Clerk number

You can program clerk number directly to the <CLK#> key in the MGR mode.

```
MGR   C01       10-10-01 12:34      000000
001111 C01                             097
002222 C02                             098
003333 C03                             099
004444 C04                             100



          Hard key code



C04                                      0

```
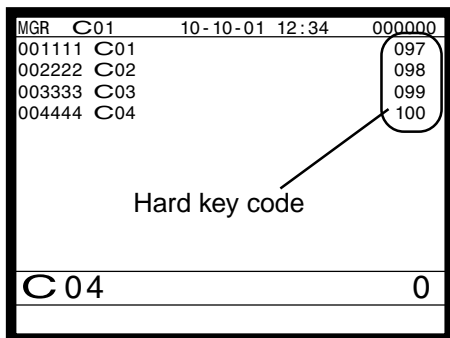
1. Sign on a clerk (if necessary).
2. Press <Manager> to assign manager mode.
3. Enter "00" and the clerk number you want to set and press the appropriate <CLK#> key.
   (Entering "000000" clears the clerk number program.)

4. To terminate this step, press the <ST> key.

3-3-18. Operation monitor

You can monitor a clerk's operation by monitoring display and receipt (in case of connecting printer).

```
MGR   C01       10-10-01 12:34      000000








Start...                            0.00

```
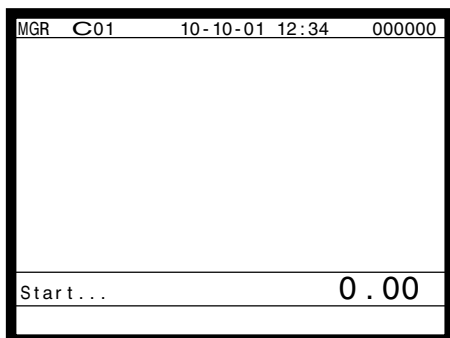
1. Sign on a clerk (if necessary).
2. Press <Manager> to assign manager mode.
3. Enter "99990000nn (nn: terminal ID No. to monitor)" and press the <ST> to start operation monitor.

Note: Do not designate the monitored or monitoring terminal.

The display shows the screen of the monitored terminal.
The receipt shows the printout of the monitored terminal.

4. Press <ESC> twice break the monitoring.

3-4. System command execution

System command functions are provided to perform nonregistration operations, such as collection / consolidation system control, backup / restore operation of files in the terminals, and remote power on / off control.

3-4-1. X/Z reporting

X/Z command execution

1. Issuing flash report
X/Z mode → <X>   or <X/FOR>, <XX>, <XXX>, <X/KETTEN>

2. Issuing other reports
X/Z mode → $D_7 D_6 D_5 D_4 D_3 D_2 D_1$ <#-1>

Meaning of the command data

Digit	Value	Meaning
D_7	0	No edition
	1	Editing by group
	2	Editing by department
	3	Editing by subdepartment
	4	Editing by order character
D_6	0	No extraction
	1	Inactive (Zero sales)
D_5	0	No extraction
	1	By Range
	3	Clerk individual
D_4	0	Execution in X mode
	1	Execution in Z mode
	2	Edit employee data
D_3	0	Issuing daily area
	1	Issuing periodic 1 area
	2	Issuing periodic 2 area
	3	Issuing daily consolidation area
	4	Issuing periodic 1 consolidation area
	5	Issuing periodic 2 consolidation area
$D_2 D_1$	71	Flash
	00 ~ 09	Batch report 1 ~ 10
	11	Fixed totalizer
	12	Transaction
	14	PLU
	64	PLU stock
	13	Subdepartment
	15	Department
	16	Group
	17	Clerk
	19	Time zone
	20	Monthly
	25	Open check
	28	Table analysis
	58	Electronic Journal
	91	Electronic journal (search by date and consecutive number)
	22	Void reason
	24	Hourly / Labor
	29	Employee
	29	Employee activity
	31	Hourly item
	52	Customer group
		(future use)
	67	IDC (1) clear
	68	IDC (2) clear
	69	IDC (3) clear

3-4-2. X/Z collection / consolidation

X/Z collection / consolidation execution

$$\text{Inline X/Z mode} \rightarrow D_{14}D_{13}D_{12}D_{11}D_{10}D_9D_8D_7D_6D_5D_4D_3D_2D_1 \text{<\#-2>} \rightarrow \text{<ESC>}$$

Meaning of the command data

Digit	Value	Meaning
$D_{14} \sim D_{10}$	11110	Collection
	11111	Consolidation
	11112	Collection and Consolidation
D_9D_8	00	Fixed
D_7	0	No edition
	1	Editing by group
	2	Editing by department
	3	Editing by subdepartment
	4	Editing by order character
D_6	0	No extraction
	1	Inactive (Zero sales)
D_5	0	No extraction
	1	By Range
D_4	0	Execution in X mode
	1	Execution in Z mode
D_3	0	Issuing daily area
	1	Issuing periodic 1 area
	2	Issuing periodic 2 area
D_2D_1	00 ~ 09	Batch report 1 ~ 10
	11	Fixed totalizer
	12	Transaction
	14	PLU
	64	PLU stock
	13	Subdepartment
	15	Department
	16	Group
	17	Clerk
	19	Time zone
	20	Monthly
	22	Void reason
	24	Hourly labor
	28	Table analysis
	31	Hourly item
	58	Electronic Journal
		(future use)

3-4-3. Remote power control

Remote power control execution

Manager mode $\rightarrow$ $D_4 D_3 D_2 D_1$ <#-2>

Meaning of the command data

Digit	Value	Meaning
$D_4 D_3$	00	All terminal
	01 ~ 32	Terminal ID of individual terminal
$D_2 D_1$	10	Remote power on
	11	Remote power off

3-5. Data communication system

The following details the inline and online data communication functions available with the QT-6000 system.

3-5-1. Inline / online connectors

With the QT-6000, there are the following inline / online connectors in the rear side of the body.

Inline	(Standard)	Ethernet
RS-232C COM1	(Standard)	For MODEM or PC direct connection
RS-232C COM2	(Standard)	For Hand held scanner, or Slip printer
RS-232C COM3	(Standard)	For Remote customer display
RS-232C COM4	(Standard)	For Remote printer or Slip printer
RS-232C COM5	(Standard)	For Remote printer
RS-232C COM6	(Standard)	For Remote printer

Manager Operation
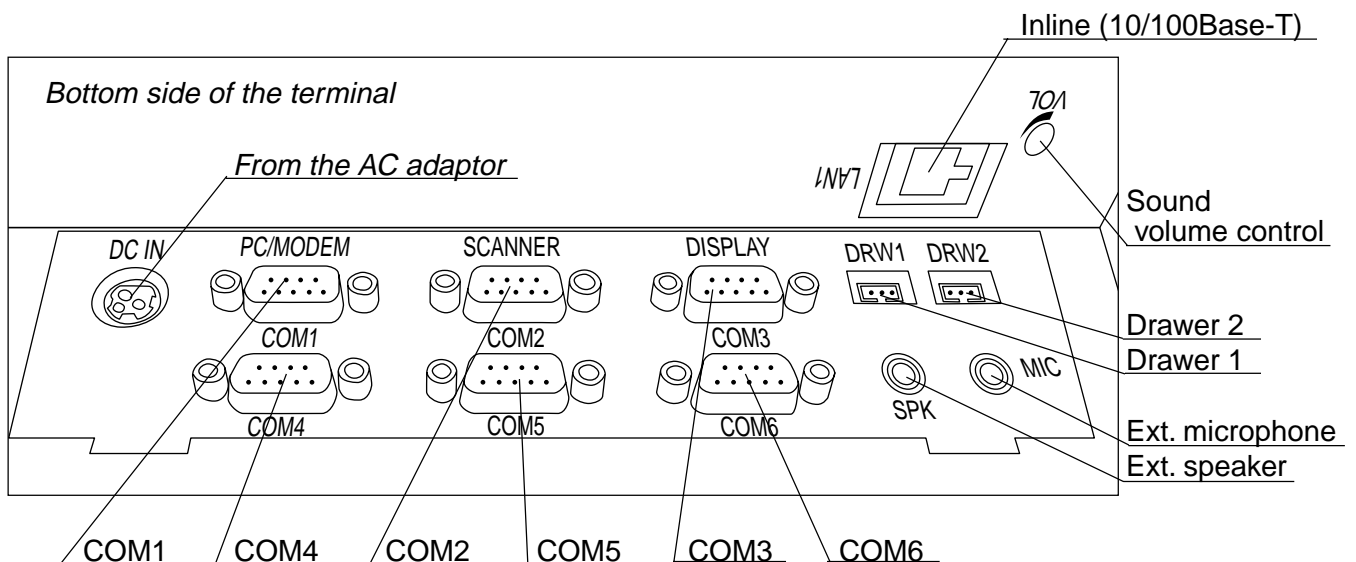
3-5-2. Hardware interface

3-5-2-1. Inline interface

The maximum inline cable length and the maximum connection unit will be varied by the inline communication speed as shown below figure.

- Using 10BASE-T
  Cable length: 100m (hub to terminal, hub to hub)
  Maximum 4 hubs in one cluster.
  Maximum cable length between terminal and terminal via hubs is 500m.
- Using 100Base-TX
  Cable length: 100m (hub to terminal, hub to hub)
  Maximum 2 hubs in one cluster.
  Maximum cable length between terminal and terminal via hubs is 300m.

Terminal to terminal
• 10BASE-T
• 100BASE-TX

Max.100m   Max.100m
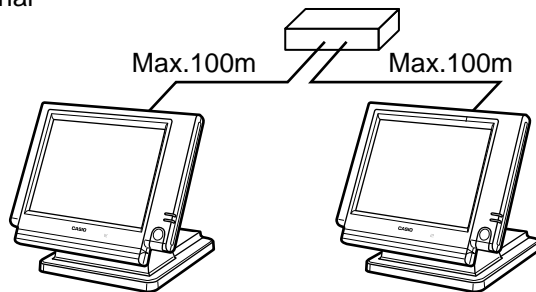
Configuration with Hub
• 10BASE-T

Max.100m   Max.100m   Max.100m   Max.100m   Max.100m

Max.500m

• 100BASE-TX

Max.100m   Max.100m   Max.100m

Max.300m
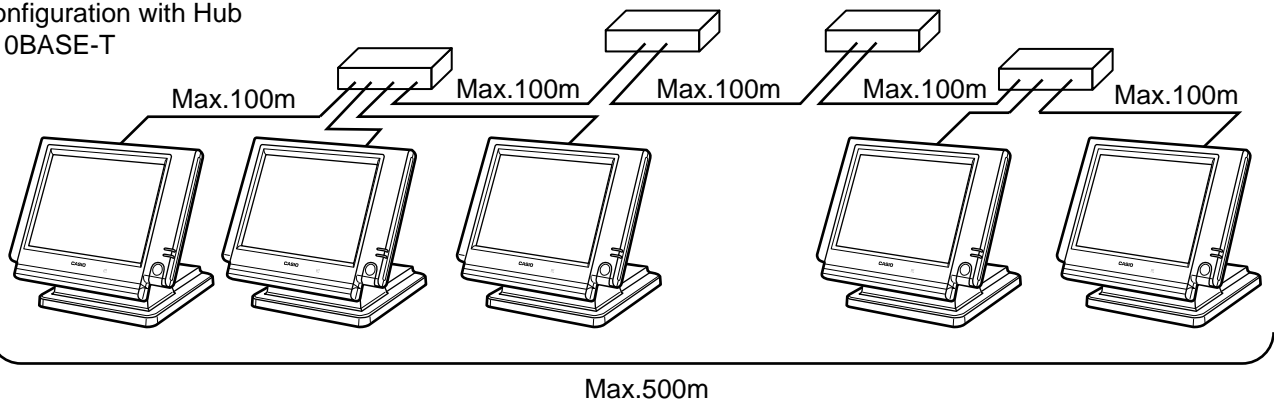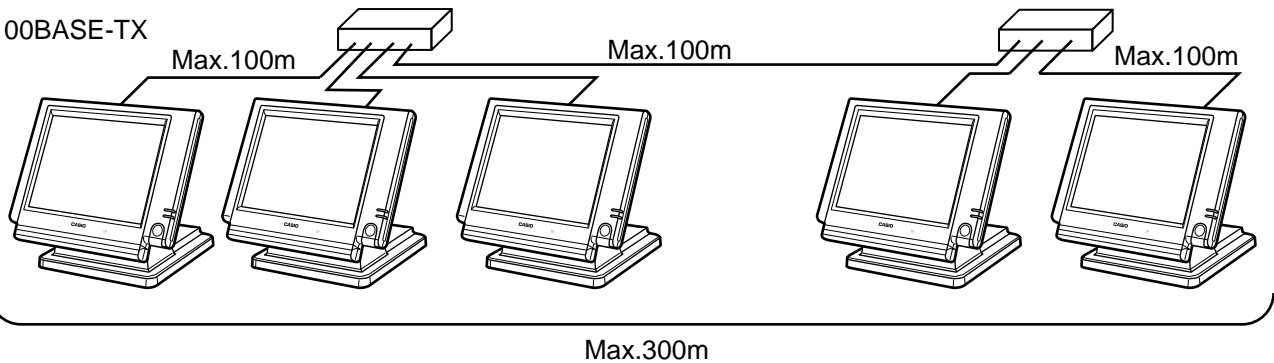
Wireless inline

Wireless inline system requires wireless LAN card installed in the QT-6000 terminal and access point.
Via access point and hub, wireless inline terminal can communicate with the wired inline terminal.
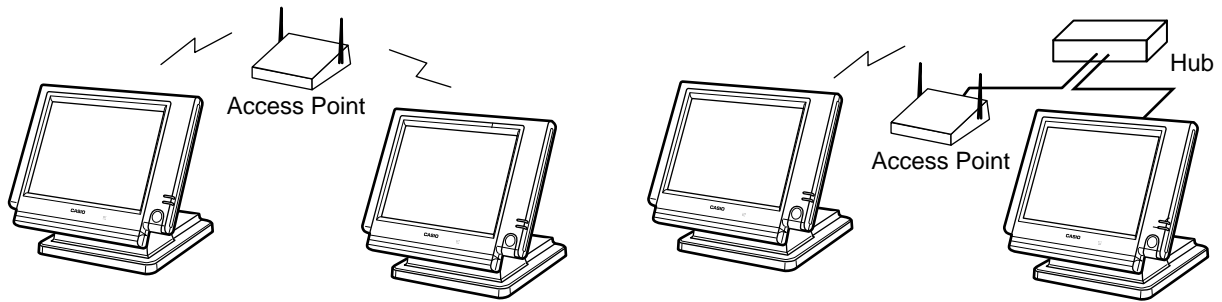
Note

Set unique ESS ID and WEP KEY character for your safety.

3-5-2-2. Online interface

Only the RS-232C COM 1 port can be connected with a modem or a personal computer.

1) Specification of RS-232C COM 1 port

Communication method:	Half duplex communication
Configuration of connection:	Point-to point
Line type:	Public lines / exclusive lines
Starting method:	Center (host computer) based start up
Protocol:	Async.
Communication speed:	2400 / 4800 / 9600 / 19200 / 38400 / 57600 / 115200 bps
Error control:	CRC-128 or CRC-1024
Text length:	128 or 1024 bytes

2) The cable diagram between the terminal and MODEM
3) The cable diagram between the terminal and PC

Terminal (COM 1)			MODEM			Terminal (COM 1)			PC		
Pin No.	Signal name		Signal name	Pin No.		Pin No.	Signal name		Signal name	Pin No.	Pin No.
3	SD/TDX	——————	SD	2		3	SD/TDX	✕	SD	3	2
2	RD/RXD	——————	RD	3		2	RD/RXD		RD	2	3
7	RS/RTS	——————	RS	4		7	RS/RTS		RS	7	4
8	CS/CTS	——————	CS	5		8	CS/CTS	✕	CS	8	5
1	CD/DCD	——————	CD	8		1	CD/DCD		CD	1	8
4	ER/DTR	——————	ER	20		4	ER/DTR	✕	ER	4	20
6	DR/DSR	——————	DR	6		6	DR/DSR		DR	6	6
9	CI/RI	——————	CI	22		9	CI/RI		CI		22
5	GND	——————	GND	7		5	GND	——————	GND	5	7
			(DSUB25)						(DSUB25)		
									(DSUB9)		

3-5-3. Inline / online functions

3-5-3-1. Inline functions

The list below shows the main functions available with the QT-6000 system. In case of these functions below are executed, the satellite terminal can receive these commands even if the satellite terminal is in OFF mode.

1) X/Z data collection for each terminal
2) X/Z data consolidation for each terminal
3) X/Z data collection / consolidation for each terminal
4) Program data copy and upload between terminals (auto-program function)

Functions 1), 2) and 3) can only be performed from a terminal that is programmed as master in which consolidation files are allocated.

3-5-3-2. Online functions

The QT-6000 can be controlled from the personal computer by connecting it to RS-232C port 1 (COM1).
In case of sending a command from PC, the terminal can receive this command even if the terminal is in OFF mode.

3-6. Collection / Consolidation system

This section provides the general description of the data collection / consolidation system of the QT-6000. The collection / consolidation system is managed by the master/satellite system using inline network. Installation of any special hardware devices is not required for collection / consolidation as inline interfaces are standard feature. Communication is possible with the connection of inline cable.

In this section, the term "master" means a terminal which collects or consolidates data registered on each terminal (called "satellite") connected the inline.

The differences between collection and consolidation are as follows.

– Collection

Outputs the data of the master and individual satellite terminals from the master terminal.

– Consolidation

Totals data from the master and satellites, and then output it to a specific device.

– Collection / Consolidation

Collection and consolidation are performed at the same time.

Types of totalizer files

There are following seven types of totalizer files:

– Daily total files

Daily total files accumulate registered data.

– Periodic total 1 files

These files accumulate registered data at the point of sale, and can be reset independently from the daily total files. Therefore, the total data within specific period can be accessed by using these files.

– Periodic total 2 files

These files have same functions as the periodic total 1 files, but can reset independently for getting the different periodic total data within different period.

– Daily consolidation files

These are files to consolidate the daily data.

– Periodic total 1 consolidation files

These are files to consolidate the periodic 1 data.

– Periodic total 2 consolidation files

These are files to consolidate the periodic 2 data.

– Consolidation work files

These files are work files to collect or consolidate the data of daily total, periodic total 1 or periodic total 2 files.

The daily consolidation files, periodic total 1 consolidation files, periodic total 2 consolidation files and consolidation work files must be reserved as work files at the master terminal during collection / consolidation operations.

NOTE:

Only a file with the same number of records as the records of corresponding daily total files need to be reserved. For example, if the number of department is 50, then the same number, 50 records, should be reserved for department of other types.

File description and number list

File description	Terminal files			Consolidation files			Consolidation work
	Daily total	Periodic 1 total	Periodic 2 total	Daily consolidation	Periodic 1 consolidation	Periodic 2 consolidation	
Fixed totalizer	001	101	201	301	401	501	601
Transaction key	002	102	202	302	402	502	602
Subdepartment	003	103	203	303	403	503	603
PLU	004	104	204	304	404	504	604
Department	005	105	205	305	405	505	605
Group	006	106	206	306	406	506	606
Clerk detail	011	111	211	311	411	511	611
Hourly sales	009	109	209	309	409	509	609
Monthly sales	010	110	210	310	410	510	610
Void table	012	112	212	312	412	512	612
Table analysis	018	118	218	318	418	518	618
Grand total	020	120	220	320	420	520	620
Hourly item	021	121	221	321	421	521	621
Hourly labor	014	114	214	314	414	514	614
(future use)							
Customer group	042	142	242	342	442	542	642
Shift PLU	055	155	255	355	455	555	655

3-6-1. X/Z collection

This function is used to obtain the counters and totals of the individual terminals.
For collection results (normal end or error end), the satellite does not print it out on the receipt / journal during X collection. But the results of the Z collection are printed out in the journal during Z collection.

3-6-1-1. X collection processing

X collection processing is performed as the figure shown below.
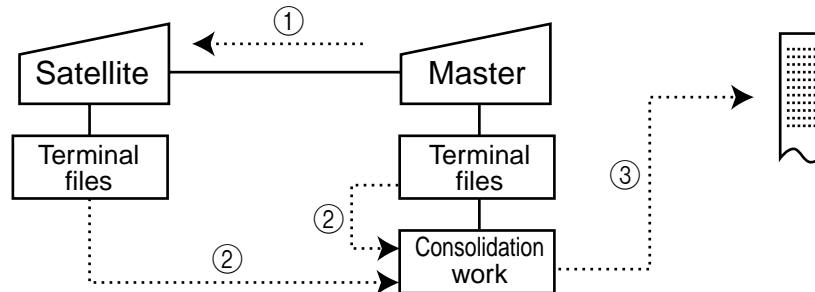
① An X collection command is started up from the master terminal.
② One objected terminal sends its report data to the consolidation work file of the master.
③ Report data from the objected terminal file are printed out on the master's R/J printer.
④ After processing of the master terminal completes, the same processes described in the item ① to ③ are executed for the other terminals. Data will be sent without the clerk noticing, even when the satellite in the process of registering.

3-6-1-2. Z collection processing

Z collection processing is performed as the figure shown below.
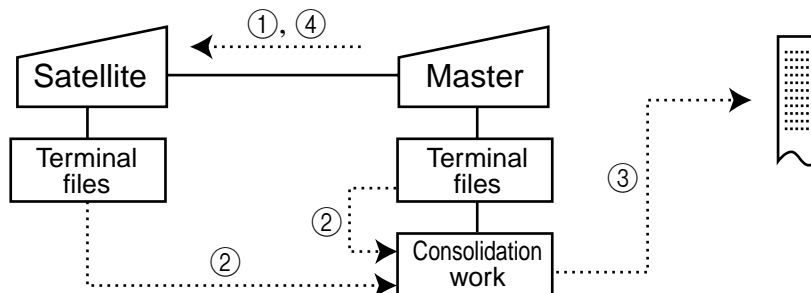
① When a Z collection command is started up from the master terminal, the master first locks one objected terminal. (Z lock)
② The objected terminal sends its report data to the consolidation work file of the master terminal.
③ Report data from the satellite terminal file are printed out on the master R/J printer.
④ The same processes described in the item ① to ③ are executed for the other terminals.
⑤ After the processing of the master terminal completes, the data of objected terminal file are cleared, and then the Z lock of the objected terminal is released.

NOTE:

- When a Z collection is performed, the consolidation data cannot be output. If output of consolidation data is desired, perform "collection/consolidation" processing described later.
- Even if an error is occurred, or if the processing is terminated, the data to be collected remains as they are, and Z lock statuses are automatically released.

3-6-1-3. X/Z collection command execution

```
X/Z  C01      10-10-01 12:34      000000


              Inline X/Z
        1.Collection
        2.Consolidation
        3.Collection & Consolidation



C01                        0.00

```

1. Sign on a clerk (if necessary).
2. Press <Inline>.

3. Select "1. Collection" and press the <YES> key.

```
              Collection

              Collection
        1.Daily        X
        2.Periodic(1) X
              Collection


              Daily X
        1.Batch
        2.Cashier/Clerk          00
        3.Customer Account
        4.Others


C01                        0.00

```

4. Select the types and kinds you want to collect.
   (Please refer to the X/Z report chapter about the report types and kinds.)

```
              Collection

            Target ECR
        1.All
        2.Terminal A    #01
        3.Terminal B    #02
        4.Terminal C    ---   ← Selected terminal
        5.Terminal D    #04
        6.Terminal E    #05
        7.Terminal F    #06
        8.Terminal G    #07

C01                        0.00

```

5. Select the target terminal(s).
   In case of selecting individual terminal(s), press the <ESC> key when you finish to designate terminal(s).

```
              Collection
Inline                      11110
Collection                      0
MC #01      12:30          0021 ← Reset counter
MC #02      12:32          0022
MC #03      Error End      0001 ← Error code
MC #04      12:40          0020




C01                        0.00

```

6. Press the <ESC> key twice to terminate this process.

NOTE:

- If money declaration compulsory is set, enter in drawer amount and press <#> (or <#/NS>) before issuing report.

3-6-2. X/Z consolidation

This function is used to obtain the sum of counters and totals of all objected terminals in the store.
After consolidating data from all objected terminals, the master prints the details on the receipt/journal printer.
Regardless of whether they are in the process of registration, the satellite terminals send data and do not print out the reports, when X consolidation is performed. But, during the Z consolidation, satellites are locked from registrations.

3-6-2-1. X consolidation processing

X consolidation processing is performed as the figure shown below.
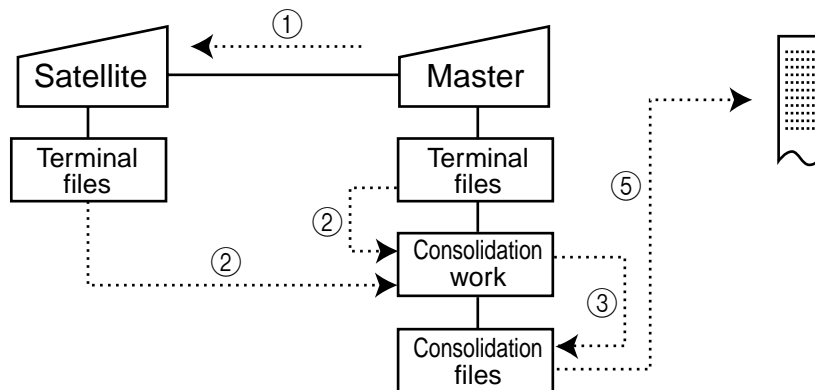
① An X consolidation command is started up from the master terminal.
② Data of the objected terminal file are sent to the master terminal, and are copied to the consolidation work file.
③ The data in the consolidation work file is added to the consolidation file.
④ The same process described in item ① to ③ is executed for other terminals.
⑤ After the above collection processing is completed for all objected terminals, the data accumulated in the consolidation work file are reported on the master's R/J printer.

3-6-2-2. Z consolidation processing

Z consolidation processing is performed as the figure shown below.
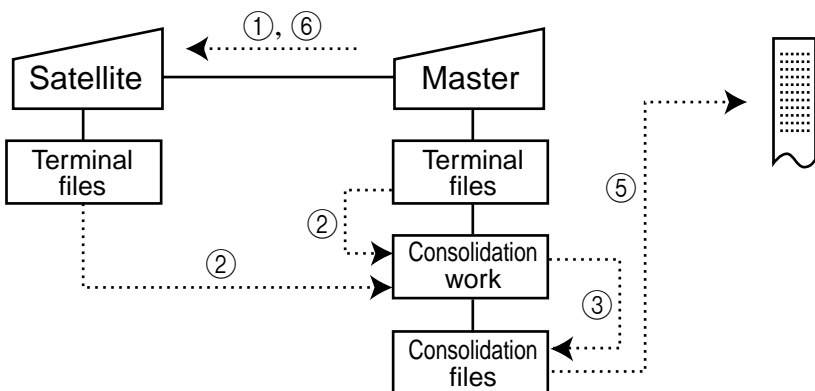
① A Z consolidation command is started up from the master terminal.
   The master first locks an objected terminal. (Z lock)
② Data of the objected terminal files are sent to the master terminal, and are copied to the consolidation work file.
③ The data in the consolidation work file is added to the consolidation file.
④ After the processing of the master terminal completes, the same processes described in item ① to ③ are executed for all other terminals.
⑤ The data accumulated in the consolidation file are reported on the master's R/J printer.
⑥ After the above collection processing completes for all objected terminals, the files of all objected terminals are cleared, and then satellite's Z lock statuses are released.

NOTE:

- Even if an error is occurred, or if the processing is terminated, the data to be collected remains as they are, and Z lock statuses are automatically released. Therefore, retrying the same operation can be performed.

3-6-2-3. X/Z consolidation command execution

```
X/Z  C01        10-10-01 12:34      000000



           Inline X/Z
       1.Collection
       2.Consolidation
       3.Collection & Consolidation




 C01                     0.00

```

1. Sign on a clerk (if necessary).
2. Press <Inline> to assign Inline X/Z.
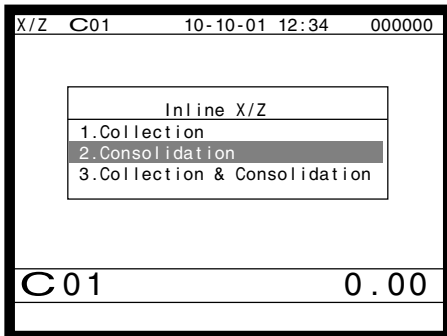
3. Select "2. Consolidation" and press the <YES> key.

```
         Consolidation


           Consolidation
       1.Daily       X
       2.Periodic(1) X
     Consolidation



           Daily X
       1.Batch
       2.Cashier/Clerk          00
       3.Customer Account
       4.Others



 C01                     0.00

```

4. Select the types and kinds you want to collect.
   (Please refer to the X/Z report chapter about the report types and kinds.)

```
         Consolidation

           Target ECR
       1.All
       2.Terminal A      #01
       3.Terminal B      #02
       4.Terminal C      ---   ← Selected terminal
       5.Terminal D      #04
       6.Terminal E      #05
       7.Terminal F      #06
       8.Terminal G      #07
 C01                     0.00

```

5. Select the target terminal.
   In case of selecting individual terminal(s), press the <ESC> key when you finish to designate terminal(s).

```
         Consolidation
 Inline                  11111
 Consolidation               0
 MC #01      12:30        0021 ← Reset counter
 MC #02      12:32        0022
 MC #03      Error End    0001 ← Error code
 MC #04      12:40        0020




 C01                     0.00

```

6. Press the <ESC> key twice to terminate this process.

NOTE:

- If money declaration compulsory is set, enter in drawer amount and press <#> (or <#/NS>) before issuing report.

3-6-3. X/Z collection / consolidation

This function is used to obtain the counters and totals of the individual terminals (collection) and of all objected terminals in the store (consolidation) by one procedure. After printing collection report on the master's receipt / journal printer, the master prints the consolidation report. Regardless whether they are in the process of registration, the satellite terminals are send data and do not print out the reports, when X collection / consolidation is performed. But, during the Z collection / consolidation, satellites are locked from registrations.

After consolidating data from all objected terminals, the master prints the details on the receipt / journal printer.

#### 3-6-2-1. X collection/consolidation processing

X collection/consolidation processing is performed as the figure shown below.
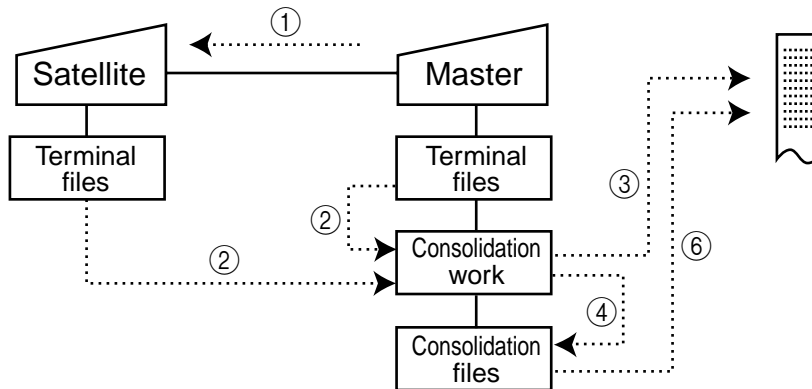
① An X collection / consolidation command is started up from the master terminal.
② Data of the objected terminal file are sent to the master terminal, and are copied to the consolidation work file.
③ The data in the consolidation work file is reported on the master's R/J printer.
④ The data in the consolidation work file is added to the consolidation file.
⑤ The same process described in item ① to ④ is executed for other terminals.
⑥ After the above collection processing is completed for all terminals, the data accumulated in the consolidation file are reported on the master's R/J printer.

3-6-3-2. Z collection / consolidation processing

Z collection/consolidation processing is performed as the figure shown below.
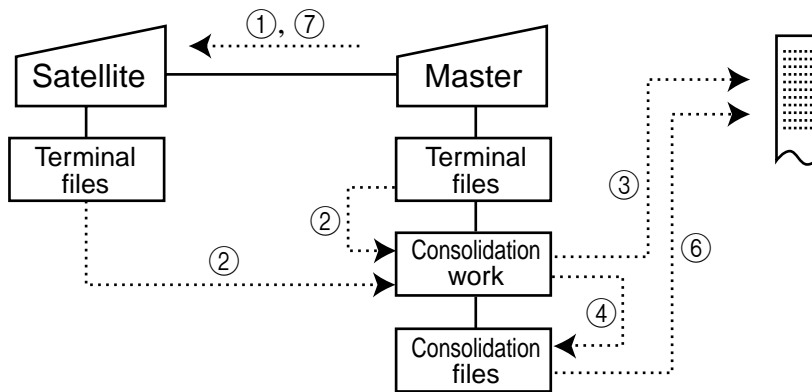
① A Z collection / consolidation command is started up from the master terminal.
The master first locks an objected terminal. (Z lock)

② Data of the objected terminal file are sent to the master terminal, and are copied to the consolidation work file.

③ The data in the consolidation work file are reported on the master's R/J printer.

④ The data in the consolidation work file is added to the consolidation file.

⑤ After the master terminal's processing completes, the same processes described in item ① to ④ are executed for all other terminals.

⑥ The data accumulated in the consolidation file are reported on the master's R/J printer.

⑦ After the above collection processing completes for all terminals, the files of all satellite terminals are cleared, and then satellite's Z lock statuses are released.
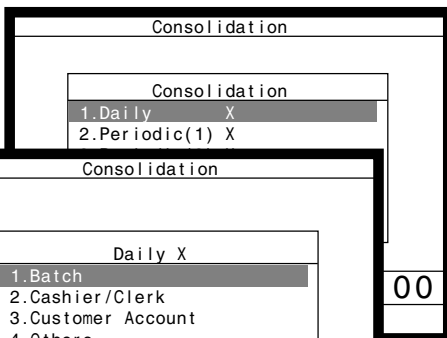
NOTE:

• Even if an error is occurred, or if the processing is terminated, the data to be collected remains as they are, and Z lock statuses are automatically released. Therefore, retrying the same operation can be performed.
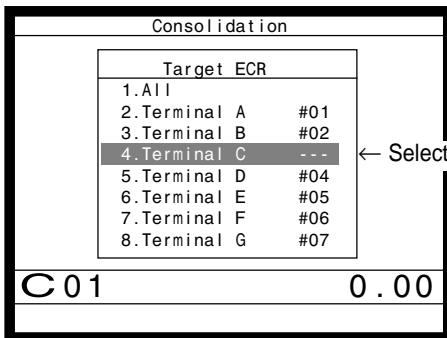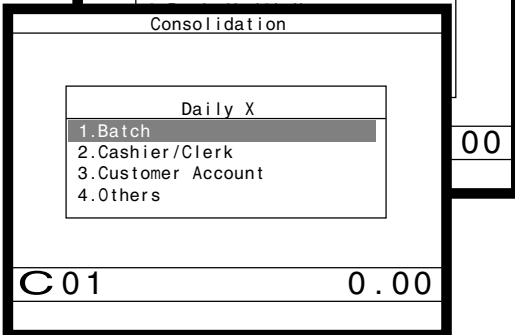
3-6-2-3. X/Z collection / consolidation command execution
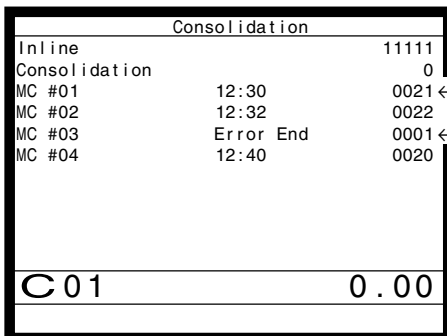
1. Sign on a clerk (if necessary).
2. Press the <Inline> key to assign Inline X/Z.

```
X/Z  C01        10-10-01 12:34      000000



          Inline X/Z
      1.Collection
      2.Consolidation
      3.Collection & Consolidation



 C01                    0 . 00
```
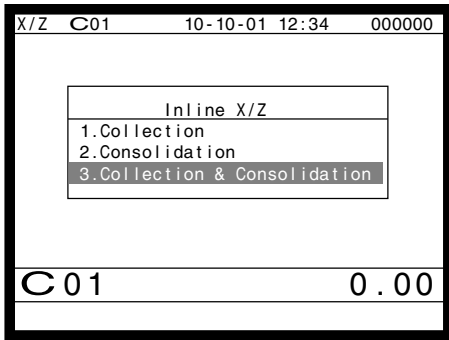
3. Select "3. Collection & Consolidation" and press the <YES> key.
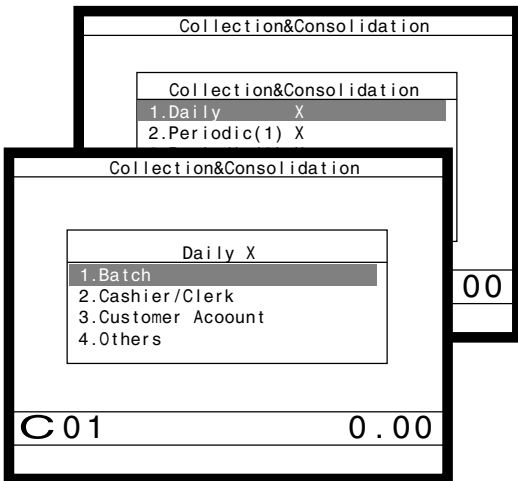
```
        Collection&Consolidation

        Collection&Consolidation
      1.Daily           X
      2.Periodic(1) X
    Collection&Consolidation


             Daily X
      1.Batch
      2.Cashier/Clerk
      3.Customer Acoount
      4.Others


 C01                    0 . 00
```

4. Select the types and kinds you want to collect.
   (Please refer to the X/Z report chapter about the report types and kinds.)

```
        Collection&Consolidation

          Target ECR
      1.All
      2.Terminal A      #01
      3.Terminal B      #02
      4.Terminal C      - - -    ← Selected terminal
      5.Terminal D      #04
      6.Terminal E      #05
      7.Terminal F      #06
      8.Terminal G      #07

 C01                    0 . 00
```

5. Select the target terminal.
   In case of selecting individual terminal(s), press the <ESC> key when you finish to designate terminal(s).

```
        Collection&Consolidation
 Inline                      11112
 Collection&Conso                0
 MC #01         12:30         0021  ← Reset counter
 MC #02         12:32         0022
 MC #03         Error End     0001  ← Error code
 MC #04         12:40         0020




 C01                    0 . 00
```
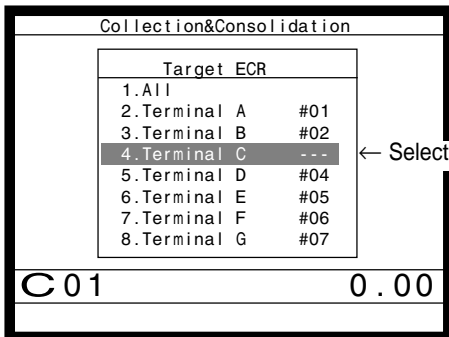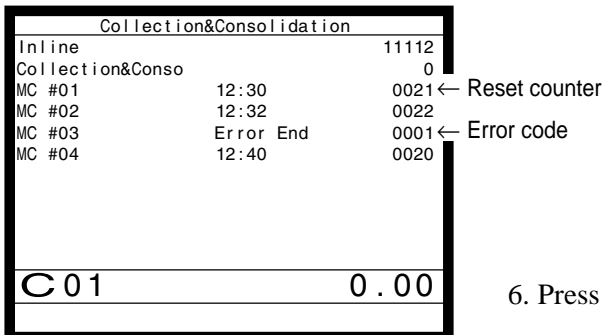
6. Press the <ESC> key twice to terminate this process.

NOTE:

• If money declaration compulsory is set, enter in drawer amount and press <#> (or <#/ NS>) before issuing report.

3-7. Auto-programming function

Using the auto programming function makes it possible to save and load the terminal program files. Methods available for saving the terminal program are as follows:

1) Saving another terminal connected through inline.
2) Saving onto a personal computer connected through online.
3) Saving onto a CF card inserted in the CF card slot.

To ensure quick recovery from a corrupted file resulting from user error or system failure, it is recommended that you maintain back up copies of current terminal programs on a file basis.

Terminal program files can be loaded using procedures opposite to those used for saving.

Note:

Data except for program data, such as data in totalizers, counters, and work area, cannot be saved by the auto programming function. (except for copying all terminal files)

Caution:

Do not remove or insert a CF card during sending / receiving data from/to it.

3-7-1. Auto-programming functions

The QT-6000 terminal is capable of saving and loading terminal program files. The terminal program file has the following transfer functions:

1) Copy all terminal files (send / receive)
   (send: activation by source terminal / receive: activation by target terminal)
   This function copies all terminal files (except terminal ID) with counters and totalizers.
   When a file is not reserved on the target terminal, that file is created automatically.

2) Copy all terminal program files (send / receive)
   This function copies all terminal files (except terminal ID) without counters and totalizers. When a file is not reserved on the target terminal, the processing for that file is skipped.

3) Copy individual terminal program files (send / receive)
   This function copies the specific terminal program file (except system work files) without counters and totalizers.

4) Copy unit price field of particular files (send / receive)
   This function copies the unit price field of specific files (i.e. PLU, PLU 2nd@).

3-7-2. Auto-program operation and CF card utilities

The procedures of auto program function

```
X/Z  C01      10-10-01 12:34     000000



           AUTO PGM
    1.Send
    2.Receive




                                    0.00

```
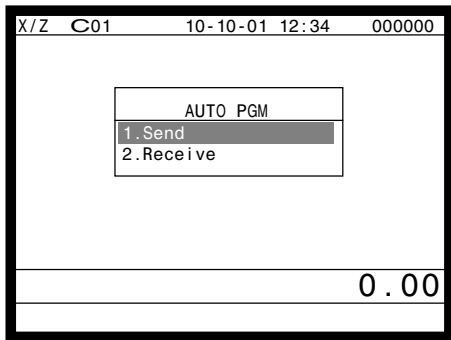
1. Sign on a clerk (if necessary)
2. Press the <Auto PGM> key to assign "AUTO PGM."

3. Select the appropriate menu you want by following the guidance. The hierarchy of the AUTO PGM menus are described below.

Auto-program menu hierarchy

Send / Receive

- **Copy All**
  - All Data
  - All PGM
- **Unit Price only**
  - PLU
  - PLU 2nd@
- **Range (Send only)**
  - PLU
  - PLU 2nd@
- **Individual Files**
  - Fixed Totalizer
  - Free Function
  - Sub Department
  - PLU
  - Department
  - Group Character
  - Cashier / Clerk
  - Void
  - Scanning PLU link
  - Table Analysis
  - GT Character
  - General Feature
  - Special Character
  - Report Header
  - Tax Table
  - Pulldown Group
  - Set Menu Table
  - Clerk key ID
  - Batch X / Z
  - Clerk Detail
  - Receipt / SLIP Msg
  - Endorse Message
  - ARG GP1
  - ARG GP2
  - ARG GP3
  - ARG GP4
  - ARG GP5
  - Text Recall
  - Check Print
  - Graphic Logo (EXT PRN)
  - PLU 2nd@
  - Shift PLU
  - Scheduler
  - Order Char Link
  - Keyboard
  - Character Keyboard
  - System Connection
  - I / O Parameter
  - Printer Connection
  - Hourly/Item Link
  - (future use)
  - Time Zone
  - Employee
  - Job Code
  - Schedule
  - IDC Link
  - Euro (Sub Currency) Prese
  - Auto Pgm control
  - LCD color
  - Customer
  - Customer GP
  - Customer Title
  - Menu Title
  - CF X/Z Conv
  - CHK Window
  - Clerk Window
  - Sound (1)
  - Sound (2)
  -        :
  - Sound (10)
  - Color Definition
  - Color Theme
  - BMP Picture
  - Wireless LAN

Manager Operation

The procedure of Data Backup to the CF card

```
X/Z  C01      10-10-01 12:34    000000



            CF Card
    1.Data Backup
    2.Data Restore
    3.Backup File List
    4.CF Card Format



                          0.00

```
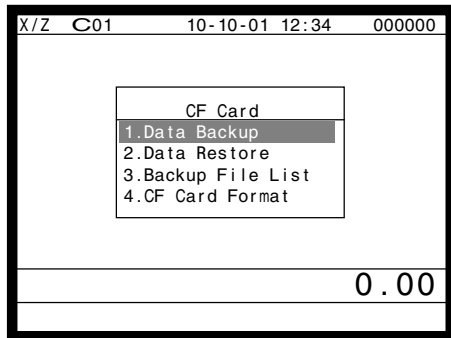
1. Sign on a clerk (if necessary)
2. Press the <CF CARD> key to assign "CF card."

3. Select the appropriate menu you want by following the guidance. Insert the CF card to the slot securely.
   The hierarchy of the Data Backup is described below.

Data Backup menu hierarchy

Backup — **Copy All** —— All Data / All PGM

— **Individual Files** —

Fixed Totalizer	Clerk Detail	Time Zone
Free Function	Receipt / SLIP Msg	Employee
Sub Department	Endorse Message	Job Code
PLU	ARG GP1	Schedule
Department	ARG GP2	IDC Link
Group Character	ARG GP3	Euro (Sub Currency) Preset
Cashier / Clerk	ARG GP4	Auto Pgm control
Void	ARG GP5	LCD color
Scanning PLU link	Text Recall	Customer
Table Analysis	Check Print	Customer GP
GT Character	Graphic Logo (EXT PRN)	Customer Title
General Feature	PLU 2nd@	Menu Title
Special Character	Shift PLU	CF X/Z Conv
Report Header	Scheduler	CHK Window
Tax Table	Order Char Link	Clerk Window
Pulldown Group	Keyboard	Sound (1)
Set Menu Table	Character Keyboard	Sound (2)
Clerk Key ID	System Connection	:
Batch X / Z	I / O Parameter	Sound (10)
	Printer Connection	Color Definition
	Hourly/Item Link	Color Theme
	(future use)	BMP Picture
		Wireless LAN

The procedure of Data Restore from the CF card
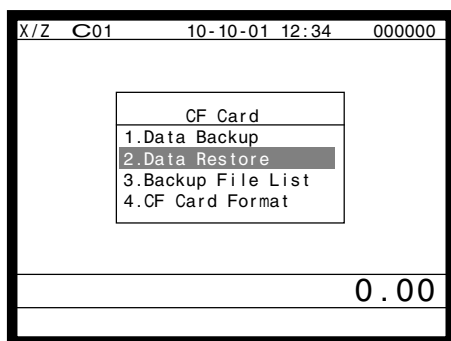
```
X/Z  C01      10-10-01 12:34    000000



            CF Card
    1.Data Backup
    2.Data Restore
    3.Backup File List
    4.CF Card Format



                          0.00

```

1. Sign on a clerk (if necessary)
2. Press the <CF CARD> key to assign "CF card."

3. Insert the CF card to the slot securely.
   Select "2. Data Restore" and press the <YES> key.

```
X/Z  C01      10-10-01 12:34    000000



          Data Restore
    1.FILE004P.004
    2.FILE090P.090
    3.FILE028P.028



                          0.00

```
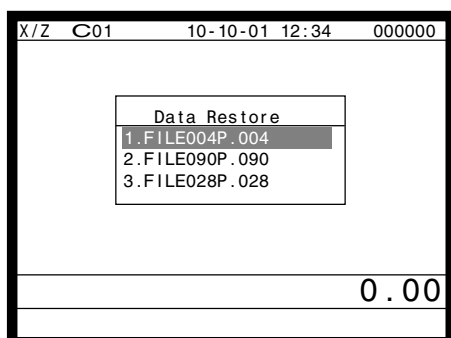
4. Select the appropriate file you want to restore.

The procedures of taking the file list of the CF card and deleting the file
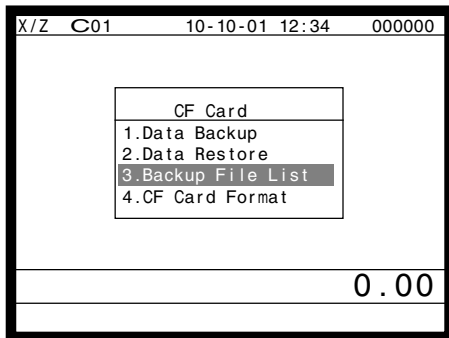
```
X/Z  C01        10-10-01 12:34      000000




              CF Card
          1.Data Backup
          2.Data Restore
          3.Backup File List
          4.CF Card Format



                           0.00

```

1. Sign on a clerk (if necessary)
2. Press the <CF CARD> key to assign "CF card."

3. Insert the CF card to the slot securely.
   Select "3. Backup File List" and press the <YES> key.

```
           Backup File List
FILE001P.001           10-10-01 10:00
FILE002P.002           10-10-01 10:01
FILE003P.003           10-10-01 10:02







                           0.00

```
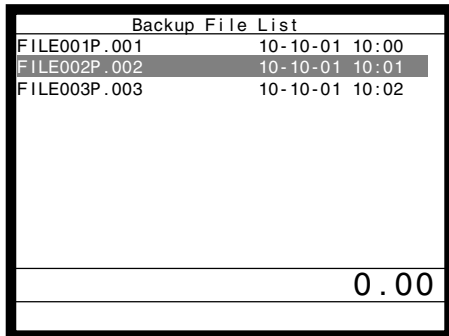
4. In case of deleting a file, select the appropriate file and press the <YES> key.

The procedures of formatting the CF card
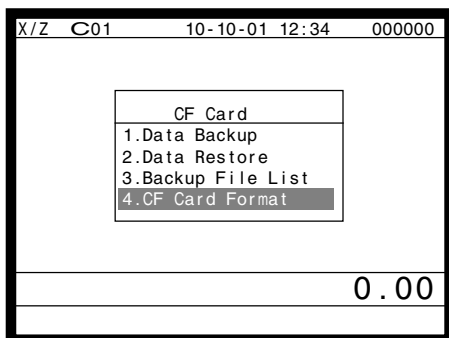
```
X/Z  C01        10-10-01 12:34      000000




              CF Card
          1.Data Backup
          2.Data Restore
          3.Backup File List
          4.CF Card Format



                           0.00

```

1. Sign on a clerk (if necessary)
2. Press the <CF CARD> key to assign "CF card."

3. Insert the CF card to the slot securely.
   Select "4. CF Card Format" and press the <YES> key.

```
X/Z  C01        10-10-01 12:34      000000




      This procedure deletes all
      data in the CF Card.
      Are you sure to format?




                           0.00

```
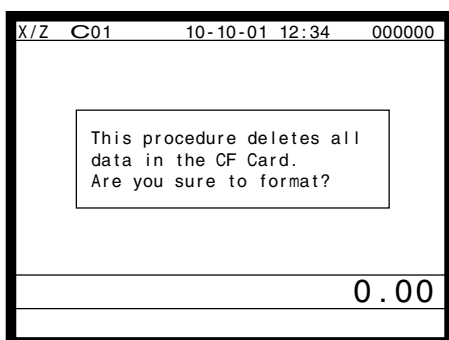
4. Press the <YES> key to continue formatting, <NO> means abortion.

4. Registrations

This section describes characteristic registrations of the QT-6000.
Key catch tone, error tone volume can be controlled by the <LEFT/RIGHT ARROW> key.

4-1. Clerk sign on / off operation

The following examples illustrate the clerk sign on / off operation.
- When an i-Button key is used, sign on operation can be performed by attaching the clerk key to the receiver by the appropriate i-Button key.

Note: After initialization, i-Button key ID should be set.

- When a clerk ID number is programmed for the clerk key, sign on operation can be performed by merely pressing the clerk key on the keyboard or in the clerk pop-up window.

It is the same procedure that even clerks are assigned as "clerk", "cashier" or "manager."

1) Clerk sign on operation (Clerk key has the clerk number setting.)

```
┌─────────────────────────────────────┐
│ REG  C01    10-10-01 12:34   000001  │
│                                      │
│                                      │
│        ┌───────────────┐             │
│        │  REG  Mode    │             │
│        └───────────────┘             │
│                                      │
│                                      │
│ C01                                  │
│                                      │
└─────────────────────────────────────┘
```

```
┌─────────────────────────────┐
│       Clerk window 1         │
│  ┌──────────┐ ┌──────────┐   │
│  │   C01    │ │   C02    │   │
│  └──────────┘ └──────────┘   │
│  ┌──────────┐ ┌──────────┐   │
│  │   C03    │ │   C04    │   │
│  └──────────┘ └──────────┘   │
│  ┌──────────┐ ┌──────────┐   │
│  │   C05    │ │   C06    │   │
│  └──────────┘ └──────────┘   │
│  ┌──────────┐ ┌──────────┐   │
│  │   C07    │ │   C08    │   │
│  └──────────┘ └──────────┘   │
│  ┌──────────┐ ┌──────────┐   │
│  │   C09    │ │   C10    │   │
│  └──────────┘ └──────────┘   │
│                              │
│  ┌──────┐ ┌──────┐           │
│  │ NEXT │ │ PREV │           │
│  └──────┘ └──────┘           │
└─────────────────────────────┘
```
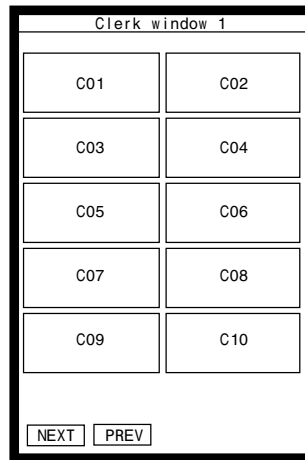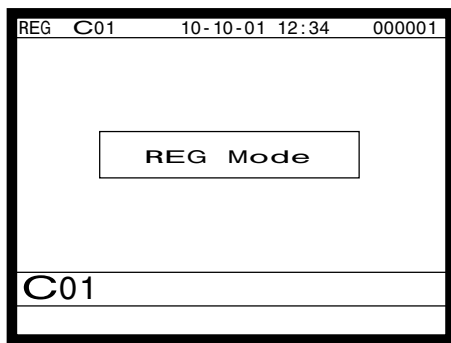
(clerk pop-up window)

1. Just press the appropriate <CLERK> key in the keyboard or in the clerk pop-up window.

2) Clerk sign on operation (Clerk key has no clerk number setting.)

In case of the store has many clerks to control, you need not allocate all clerk keys on the keyboard but allocate a few clerk key and program no clerk number one of the clerk key.

```
┌─────────────────────────────────────┐
│ REG         10-10-01 12:34   000001  │
│                                      │
│                                      │
│                                      │
│                                      │
│                                      │
│                                      │
│ CLK#                     - - - -     │
│         Please sign on.              │
└─────────────────────────────────────┘
```
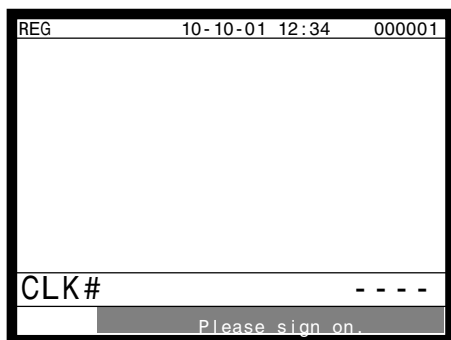
1. Press the <CLERK> key, if you want to display no clerk number entries.

```
REG              10-10-01 12:34      000001




CLK#                             - - * *
                Please sign on.
```

2. Enter the appropriate clerk number and press the <CLERK> key.

3)   Clerk sign off operation

```
REG  C01         10-10-01 12:34      000001




                                     0.00
                Please sign on.
```

1. Enter "0" and press the <CLERK> key.

4-2.   Voiding the last registered item (<VOID> key operation)

Use the <VOID> key to cancel a data that has just been registered using a function key. The <VOID> key can be used to cancel data registered using departments, subdepartments, PLUs, partial tenders, or the <PRICE>, <+>, <–>, <%+>, <%–>, <LOAN> or <PICKUP> key. You can only use the <VOID> key to cancel a registration if you have not yet started registration of the next item.

```
REG   C01        10-10-01 12:34      000001
  1  PLU0001                     ·1.00
     10%
     %-                          -0.10







%-                            - 0 . 10
                 1 ST          · 0 . 90
```

1. Wrong registration is made.

```
REG   C01        10-10-01 12:34      000001
  1  PLU0001                     ·1.00







VOID                          · 0 . 10
                 1 ST          · 1 . 00
```

2. Press the <VOID> key to cancel the data and reregister the transaction.

Registration

4-3. Voiding the previous registered item (<VOID> key operation)

If data has been registered using a function key and registration of the next item has begun, use the <VOID> key to cancel previous registered data. Entries using departments, subdepartments or PLUs can be cancelled using the <VOID> key.

```
REG   C01      10-10-01 12:34      000001
   1  PLU0001                    ·1.00
   1  PLU0002                    ·2.00
   3  PLU0003                    ·9.00
   1  PLU0004                    ·4.00




PLU0004                       ·4.00
                    6       ·16.00
```

1. Wrong registration is made.

```
REG   C01      10-10-01 12:34      000001
   1  PLU0001                    ·1.00
   1  PLU0002                    ·2.00
   3  PLU0003                    ·9.00
   1  PLU0004                    ·4.00




PLU0004                       ·4.00
                    6       ·16.00
```

2. Press the <UP ARROW> or <DOWN ARROW> key to designate the item registration.

```
REG   C01      10-10-01 12:34      000001
   1  PLU0001                    ·1.00
   1  PLU0002                    ·2.00
   1  PLU0004                    ·4.00




PLU0003                      -9.00
                    3  ST    ·7.00
```

3. Press the <VOID> key to cancel the item and reregister the transaction.

4-4. Cancelling of all data registered during the transaction

Press the <CANCEL> key to cancel all data registered (except partial tendering) during the transaction. This operation lets you clear registered data and restart from the beginning. The cancel operation must be performed before the transaction is finalized.

```
REG   C01      10-10-01 12:34      000001
   1  PLU0001                    ·1.00
   1  PLU0002                    ·2.00
   3  PLU0003                    ·9.00
   1  PLU0004                    ·4.00




PLU0004                       ·4.00
                    6       ·16.00
```

1. Wrong registration is made.

```
REG   C01        10-10-01 12:34      000001
  1   PLU0001                         ·1.00
  1   PLU0002                         ·2.00
  3   PLU0003                         ·9.00
  1   ┌─────────────────────────┐
      │       Cancel OK?        │
      └─────────────────────────┘



PLU0004                      ·4.00
              6        ·16.00
```

2. Press the \<CANCEL\> key.

```
REG   C01        10-10-01 12:34      000001
  1   PLU0001                         ·1.00
  1   PLU0002                         ·2.00
  3   PLU0003                         ·9.00
  1   PLU0004                         ·4.00
      CANCEL            · · · · · · · · · · · ·




CANCEL                        0.00
            Please sign on.
```

3. Press the \<YES\> key to cancel the transaction.

4-5. Using the list function

<LIST> or No. <LIST-#>
↓

PLU 1	← Select one of these.
PLU 2	←
PLU 3	←

Before using the LIST function, the following programs are necessary to use this function.

1) Allocating the <LIST> key or the <LIST-#> key (page 20 of the programming manual)
   In case of using the <LIST> key, <LIST> key(s) should be allocated on the keyboard before step 2.
2) Programming pulldown group (page 28 of the programming manual)
3) Programming item price (page 118 of the programming manual)

Normal registration by using the <LIST> and <LIST-#> key

```
LIST01          0/3-1

  PLU001      PLU002

  PLU003      PLU004

  PLU005      PLU006

  PLU007      PLU008

  PLU009      PLU010
```

(List pop-up window)

1. Press the <LIST> key or enter the list No. and press the <LIST-#> key. Then the List pop-up window is opened on the keyboard.

```
REG  C01      10-10-01 12:34    000001
  1  PLU0001                    ·10.00




PLU0001              ·10.00
            1        ·10.00
```

2. Select the appropriate item.

Direct selection by using the <LIST> key

```
REG  C01      10-10-01 12:34    000001
  1  PLU0001                    ·10.00




PLU0001              ·10.00
            1        ·10.00
```

1. Press the appropriate record number and press the <LIST> key brings direct selection of the item.

4-6. Using the set menu function and pulldown group function

4-6-1. Using the Set Menu function

Before using the set menu function, the following programs are necessary to use this function.

1) Programming set menu table (page 29 of the programming manual)
2) Programming PLU "Set menu table linking" (page 78 of the programming manual)
3) Programming item prices (page 118 of the programming manual)

```
REG   C01        10-10-01 12:34      000001
  1   PLU0001                        ·10.00
        PLU0002
        PLU0003  } Set Menu linked to PLU0001
        PLU0004  
        
        (select "set menu breakdown printing"




PLU0001              ·10.00
              1      ·10.00
```

1. Registering a PLU linked to a set menu.

4-6-2. Using the Pulldown group function

PLU (Parent) registration
↓

```
Child PLU 1  ← Select one of these.
Child PLU 2  ←
Child PLU 3  ←
```

Before using the pulldown group function, the following programs are necessary to use this function.

1) Programming pulldown group table (page 28 of the programming manual)
2) Programming PLU "List Link No." (page 78 of the programming manual)
3) Programming item prices (page 118 of the programming manual)

```
REG   C01        10-10-01 12:34      000001
  1   PLU0001                        ·10.00




PLU0001              ·10.
              1      ·10.
```
```
LIST02            0/3-1

  PLU010      PLU011

  PLU012      PLU013

(List pop-up window)
```

```
REG   C01        10-10-01 12:34      000001
  1   PLU0001                        ·10.00
  1   PLU0012                        ·1.00




PLU0001              ·10.
              2      ·11.
```
```
LIST10            0/3-1

  PLU014      PLU015

  PLU016      PLU017

(List pop-up window)
```

```
REG   C01        10-10-01 12:34      000001
  1   PLU0001                        ·10.00
  1   PLU0012                        ·1.00
  1     PLU0015




PLU0001              ·10.00
              2      ·11.00
```
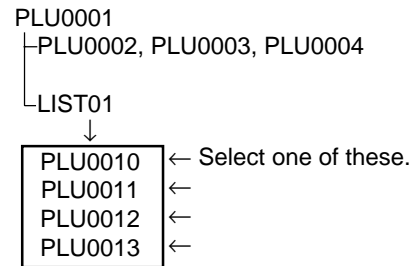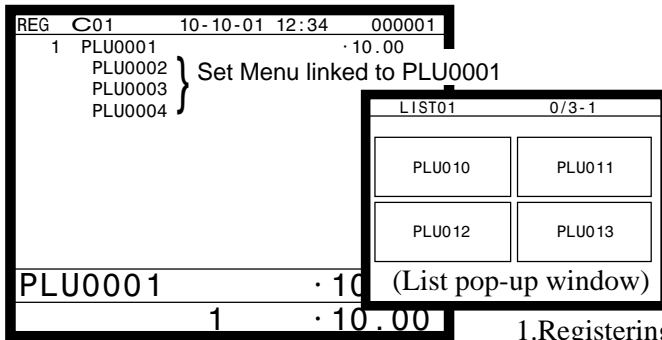
1. Register the parent (main) PLU. The list linked appears.
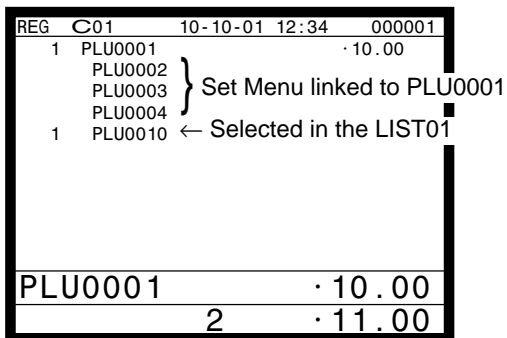2. Select the appropriate (child/grandchild) PLU and press the <YES> key.

4-6-3. Using the set menu and pulldown group function

Before using the set menu and pulldown group function, the following programs are necessary to use this function.

1) Programming set menu table (page 29 of the programming manual)
2) Programming pulldown group table (page 28 of the programming manual)
3) Allocate the pulldown menu key, if you want to use. (page 20 of the programming manual)
4) Programming PLU "Set menu table linking" and "List Link No." (page 78 of the programming manual)
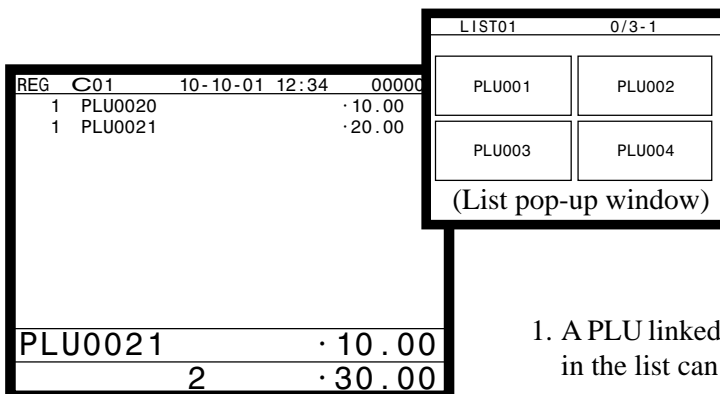5) Programming item prices (page 118 of the programming manual)

```
PLU0001
 ┌PLU0002, PLU0003, PLU0004
 │
 └LIST01
     ↓
  ┌─────────┐
  │PLU0010  │ ← Select one of these.
  │PLU0011  │ ←
  │PLU0012  │ ←
  │PLU0013  │ ←
  └─────────┘
```

```
REG  C01      10-10-01 12:34    000001
  1  PLU0001                    ·10.00
     PLU0002  ⎫
     PLU0003  ⎬ Set Menu linked to PLU0001
     PLU0004  ⎭
              ┌────────────────────────┐
              │ LIST01        0/3-1     │
              │  ┌───────┐  ┌───────┐   │
              │  │PLU010 │  │PLU011 │   │
              │  └───────┘  └───────┘   │
              │  ┌───────┐  ┌───────┐   │
              │  │PLU012 │  │PLU013 │   │
              │  └───────┘  └───────┘   │
PLU0001      ·10          (List pop-up window)
              1          ·10.00
```

1.Registering a PLU linked to a set menu and pulldown group.

```
REG  C01      10-10-01 12:34    000001
  1  PLU0001                    ·10.00
     PLU0002  ⎫
     PLU0003  ⎬ Set Menu linked to PLU0001
     PLU0004  ⎭
  1  PLU0010  ← Selected in the LIST01



PLU0001                  ·10.00
              2          ·11.00
```

2. Select the appropriate item and press the <YES> key.
If there are more pulldown groups linked to the PLU, next pulldown group appears on the screen.
You can also select items directly by using the pulldown key.

4-6-4. Using the substitution key

Normally, you can select item(s) in a pulldown group. If the customer requires to take an item from another set menu/pulldown group, the <SUBSTITUTION> key should be used.

```
              ┌────────────────────────┐
              │ LIST01        0/3-1     │
REG  C01      10-10-01 12:34    00000│  │
  1  PLU0020                   ·10.00 │  ┌───────┐  ┌───────┐
  1  PLU0021                   ·20.00 │  │PLU001 │  │PLU002 │
              │  └───────┘  └───────┘   │
              │  ┌───────┐  ┌───────┐   │
              │  │PLU003 │  │PLU004 │   │
              │  └───────┘  └───────┘   │
              │  (List pop-up window)   │
              └────────────────────────┘

PLU0021                  ·10.00
              2          ·30.00
```

1. A PLU linked to a pulldown group is registered, but no items in the list can be selected.

```
 ┌─────────────────────┐
 │ LIST01      0/3-1   │
┌──────────────────────┼─────────────────────┐
│REG  C01   10-10-01 12:34   0000             │
│  1  PLU0020            ·10.00  ┌─────────┐ ┌─────────┐│
│  1  PLU0021            ·20.00  │ PLU001  │ │ PLU002  ││
│                                └─────────┘ └─────────┘│
│                                ┌─────────┐ ┌─────────┐│
│                                │ PLU003  │ │ PLU004  ││
│                                └─────────┘ └─────────┘│
│                                (List pop-up window)   │
├─────────────────────┴─────────────────────┘
│SUBST.                 0.00  │
│             2        ·30.00 │
└─────────────────────────────┘
```

2. Press the <SUBSTITUTION> key.

```
┌─────────────────────────────┐
│REG  C01   10-10-01 12:34   000001│
│  1  PLU0020            ·10.00 │
│  1  PLU0021            ·20.00 │
│  1  PLU0050            ·50.00 ──────┐
│                              │      │
│                              │      │
│                              │      │
│                              │      │
│                              │      │
│PLU0050               ·50.00  │      │
│             3        ·80.00  │      │
└─────────────────────────────┘      │
```
└─── 3. Register the appropriate item.

4-6-5.   Inner multiplication

Normally, the quantity of list linked PLU or set menu child PLU follows the same quantity as main PLU. But it is possible to register a different number of list linked PLU or child PLU from the number of main PLU.
Before using the inner multiplication, the following program is necessary in addition to the Pulldown Group or Set Menu Table to use this function.

Note) Program"Fast food" in the "Set Menu / Condiment" program (page 39 of the programming manual)

```
 ┌─────────────────────┐
 │ LIST01      0/3-1   │
┌──────────────────────┼─────────────────────┐
│REG  C01   10-10-01 12:34   0000             │
│  3  PLU0001            ·30.00  ┌─────────┐ ┌─────────┐│
│                                │ PLU010  │ │ PLU011  ││
│                                └─────────┘ └─────────┘│
│                                ┌─────────┐ ┌─────────┐│
│                                │ PLU012  │ │ PLU013  ││
│                                └─────────┘ └─────────┘│
│                                (List pop-up window)   │
│PLU0001               ·30.00  │
│             3        ·30.00  │
└─────────────────────────────┘
```

1. An multiplication of a PLU is made.

```
 ┌─────────────────────┐
 │ LIST01      0/3-1   │
┌──────────────────────┼─────────────────────┐
│REG  C01   10-10-01 12:34   00000            │
│  3  PLU0001            ·30.00  ┌─────────┐ ┌─────────┐│
│                                │ PLU010  │ │ PLU011  ││
│                                └─────────┘ └─────────┘│
│                                ┌─────────┐ ┌─────────┐│
│                                │ PLU012  │ │ PLU013  ││
│                                └─────────┘ └─────────┘│
│                                (List pop-up window)   │
│X                         2   │
│             3        ·30.00  │
└─────────────────────────────┘
```

2. Enter appropriate quantity and press the <X> key.

```
                          LIST01        0/3-1
 REG  C01      10-10-01 12:34    000
    3  PLU0001              ·30.00    PLU010      PLU011
    2  PLU0010              ·2.00
                                      PLU012      PLU013

                                   (List pop-up window)



                                         3. Select the appropriate PLU (in case of pulldown group.)
 PLU0010              ·2.00
             5      ·32.00
```

4-7.   Post entry

Post entry is used to suspend the selectable item in the pulldown window of a set menu and register the selected item. For example, it is used to register dessert which is included in a set menu. (This function is only effective in check tracking operation.)

4-7-1.   To suspend the selection

```
                           Dessert       0/3-1
 REG  C01      10-10-01 12:34   00000
    1  Lunch menu          ·12.00     Of the day   Cheese cake
        Soup
         Chicken
          with pepper                 A la carte    Beverage
         Sirloin
          Rare                     (List pop-up window)
         French
         Pea



                    0.00
            1      ·12.00
```

1. Enter the <POST ENTRY> key to suspend the selection.

```
 REG  C01      10-10-01 12:34   000001
    1  Lunch menu          ·12.00
        Soup
         Chicken
          with pepper
         Sirloin
          Rare
         French
         Pea
         POST ENTRY ← the suspended item



                    0.00
            1      ·12.00
```

2. The key descriptor shows the suspended item.

4-7-2.   To register the suspended item

```
 REG  C01      10-10-01 12:34   000001
    1  Lunch menu          ·12.00
        Soup
         Chicken
          with pepper
         Sirloin
          Rare
         French
         Pea
         POST ENTRY



                    0.00
            1      ·12.00
```

1. Open the check and designate "POST ENTRY" by ↑ , ↓ . Pressing the <POST ENTRY> key recalls the pulldown menu screen to select items.

4-8. Separate check

Separate check is used to transfer the registered items in the original check to the other check or pick up the registered items in the original check to finalize them.

```
REG  C01        10-10-01 12:34      000001
CHECK No.222222



NEW/OLD              222222
```

1. Enter the check number to which the registered items are transferred and press the <NEW/OLD CHK> key.

```
 #123456                           1
 1   PLU0001
            ·1.00     PAGE
                      UP
 1   PLU0002
            ·2.00
 1   PLU0003            ↑
            ·3.00
 1   PLU0004            ↓
            ·4.00
 1   PLU0005
            ·5.00     PAGE
                      DOWN
            ·15.00                        ·0.00
                                   OK       CANCEL
```

2. Press the <SEPARATE CHECK> key and select the original check in the check No. pop-up window. Then the separate check window is opened.

```
 #123456                           1
 1   PLU0001
            ·1.00     PAGE
                      UP
                                1   PLU0002
                                           ·2.00
 1   PLU0003            ↑
            ·3.00
                       ↓        1   PLU0004
                                           ·4.00
 1   PLU0005
            ·5.00     PAGE
                      DOWN
            ·9.00                          ·6.00
                                   OK       CANCEL
```

3. Select the transferring items in the original check column (it is transferred to the other check column).

```
REG  C01        10-10-01 12:34      000001
CHECK No.222222
  1   PLU0002                  ·2.00
  1   PLU0004                  ·4.00
      ST                       ·6.00




                                    0.00
                          2  ST   ·6.00
```

4. After selecting items, press the <OK> key in the separate check window to terminate. The selected items are transferred to other check.

4-9.   Open check

To display or print out the opened check report of the signed on operator.

```
REG  C01        10-10-01 12:34     000001




                              0.01
```

1. Enter the record number of the signed on clerk.
2. Press the <OPEN CHK> key.
3. The open check report is issued or displayed (depends on the program).

```
REG  C01      15-12-03 12:34      000001
X     0000025   OPEN CHK
                             MC #01
REG  C01       15-12-03 12:50    001190
CHECK No. 1328
                         ·100.35
                             MC #01
REG  C01       15-12-03 12:55    001195
CHECK No. 1330
                             MC #01
REG  C01       15-12-03 12:58    001205
CHECK No. 1363
                          0.01
```

4-9.   Dutch account

This key is used to share the total payment by customer.
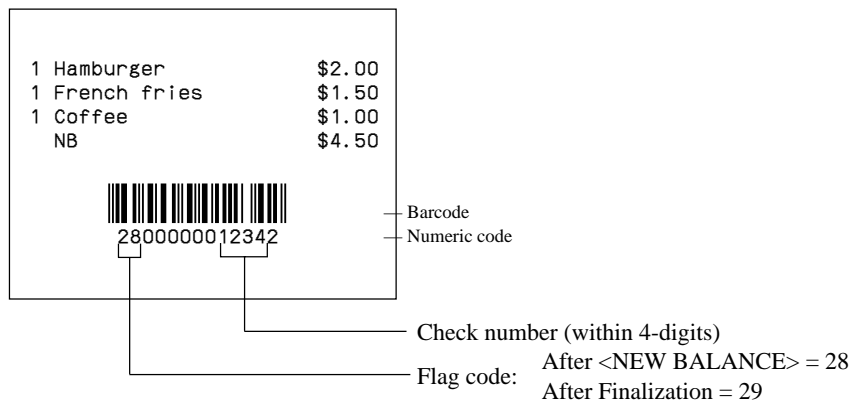
```
REG  C01        10-10-01 12:34     000001
  1  PLU0001              ·12.00
  1  PLU0002              ·15.00
  2  PLU0003              ·10.00
     TL              ·37.00
     CASH              ·37.00




DUTCH                        3
```

1. After finalizing a receipt, enter the number of customer (within 2-digits) and press the <DUTCH ACCOUNT> key.
2. Issue shared total receipts per customer.

```
                MC #01
REG C01      12-31-2003 12:34 000123
    DUTCH              ·12.34
    TL            ·12.34
    CASH             ·12.34
```

Receipt for the last customer

```
                MC #01
REG C01      12-31-2003 12:34 000123
    DUTCH              ·12.33
    TL            ·12.33
    CASH             ·12.33
```

Receipt for other customers

Note: The fractions are included in the last customer.

4-10. Media change

This key is used to change media in drawer amounts. Pressing this key begins media change operation.

```
REG  C01      10-10-01 12:34    000001




 MEDIA  CHG
```

1. First press the <MEDIA CHANGE> key.

```
REG  C01      10-10-01 12:34    000001
     MEDIA  CHG      ············
     CASH                  -10.00




 CASH            -10.00
                  ·10.00
```

2. Enter the in drawer amount to be changed and press the media key to be changed.

```
REG  C01      10-10-01 12:34    000001
     MEDIA  CHG      ············
     CASH                  -10.00
     CHECK                  ·2.00




 CHECK            ·2.00
                  ·8.00
```

3. Enter the amount to change and press the media to change, until the change amount equals to the changed amount.

```
REG  C01      10-10-01 12:34    000001
     MEDIA  CHG      ············
     CASH                  -10.00
     CHECK                  ·2.00
     CREDIT                 ·8.00




 CREDIT           ·8.00
```

4-11. Eat-in / Takeout

This function is used for specifying if the customer eat in the restaurant or takeout.
When the <EAT-IN> or <TAKEOUT> key is pressed before finalization, tax exemption will be applied.
After registering one of these keys, it is impossible to register items except void, cancel, subtotal, finalize and partial payment (including subtotal according to the currency conversion.) If you want to release the compulsory, press the <OPEN 2> key.
Be sure to program before using this function.

Example of receipt image

```
1 Hamburger          ·2.00
1 French fries       ·1.50
1 Coffee             ·1.00
  TAKE-OUT
```

4-12. Scanning PLU

This function is used for registering PLU items by scanner or OBR code <OBR>.
Before using this function, you should allocate the scanning PLU link file (file no. 16), program the start record number of scanning PLU link (page 33 of the programming manual) and OBR code to the scanning PLU link file. Applicable OBR codes are EAN-13, EAN-8 and UPC-A.

To register a scanning PLU item

```
REG  C01      10-10-01 12:34      000001
 1  PLU0100                       ·1.00




PLU0100                   ·1.00
              1   ST      ·1.00
```

1. Just scan the item PLU0100.

```
REG  C01      10-10-01 12:34      000001
 1  PLU0100                       ·1.00
 1  PLU0101                       ·2.00




PLU0101                   ·2.00
              2   ST      ·3.00
```

2. Enter the OBR code on the label and press the <OBR> key.

4-13. Shift PLU

This key is used to shift a flat PLU key to the n-th (n = 1 ~ 8) level.
Before using this function, you should allocate the shift PLU file (file-055), allocate the <SHIFT PLU> keys, and program the shift level (1 ~ 8) to each <SHIFT PLU> key. Since the shift PLU file has 7 (level 2 ~ 8) unit prices, counters and totalizers, you can see the sales quantity / amount of an item by size (S, M, L), quantity etc.
Shift PLU and 2nd @ are incompatible.

Registration example

```
REG   C01        10-10-01 12:34     000001
   1   PLU0001                       ·1.00
   1   PLU0001                       ·2.00
   1   PLU0001                       ·3.00




CASH                      ·6.00
```

	OPERATION
1. Register <PLU0001>	<PLU0001>
level-2 200 <PLU0001>	<SHIFT PLU (level2)>
	200 <PLU0001>
level-3 <PLU0001>	<SHIFT PLU (level3)>
	<PLU0001>
	<CASH>

4-14. Printing barcode on receipts (UP-350 and UP-360)

This function is used for registering old check by scanning the barcode on the new balance receipt or issuing guest receipt by scanning the barcode on the finalizing receipt.

Example of receipt image

```
1 Hamburger          $2.00
1 French fries       $1.50
1 Coffee             $1.00
  NB                 $4.50

  |||||||||||||||||||||||
  2800000012342
```

Barcode
Numeric code

Check number (within 4-digits)

Flag code: After <NEW BALANCE> = 28
            After Finalization = 29

4-15.   Round repeat function

This function is used for repeating registered items of the last receipt finalized by <NEW BALANCE> key in check tracking system or clerk interrupt operation.

```
REG  C01      10-10-01 12:34     000001
CHECK No. 1 1 1 1
    1  PLU0001                   ·1.00
    1  PLU0002                   ·2.00
    1  PLU0003                   ·3.00
       SRVC TL            · 6 . 0 0


SRVC TL                  ·6.00
```

1. To issue the original receipt.
   1111 <NEW/OLD>
   <PLU0001>
   <PLU0002>
   <PLU0003>
   <NEW BALANCE>

```
REG  C01      10-10-01 12:34     000001
CHECK No. 1 1 1 1
    1  PLU0001                   ·1.00
    1  PLU0002                   ·2.00
    1  PLU0003                   ·3.00
- - - - - - - - - - - - - - - - - - - - - - - - - -


NEW/OLD                    1111
              3 ST     ·6.00
```

2. Enter the check number of this receipt and press the <NEW/OLD> key.

```
REG  C01      10-10-01 12:34     000001
CHECK No. 1 1 1 1
    1  PLU0001                   ·1.00
    1  PLU0002                   ·2.00
    1  PLU0003                   ·3.00
- - - - - - - - - - - - - - - - - - - - - - - - - -
    1  PLU0001                   ·1.00
    1  PLU0002                   ·2.00
    1  PLU0003                   ·3.00
       SRVC TL                  ·12.00

SRVC TL                 ·12.00
```

3. Press <ROUND REPEAT> to recall the last receipt.

4-16. **(future use)**

Registration

4-17. Customer

Before using the customer function, the following programs are necessary to use this function.

1) Allocating customer file (File-037), customer group file (File-042)
   Check index file and check detail file are also necessary.
2) Allocating customer ID number key (148), payment key (149), table transfer key (014), deposit key (025): if necessary.
3) Program "Customer Control", and "Customer Group", refer to the page 61 of the programming manual.
3) Program customer No., name, title, address, etc to the customer file, refer to the page 97 of the reference manual.

Item registration

```
REG  C01      10-10-01 12:34    000001
   1  PLU0001                 ·1.00
   1  PLU0002                 ·2.00
   1  PLU0003                 ·3.00
      DISC                    -0.60
      TBL TRANS             ·5.40




 TBL  TRANS                     1

```

1. Enter customer No. and press the <CUST# > (customer ID No.) key.
2. Perform item registration.
   (You can re-enter the customer ID No.)
   <PLU0001>
   <PLU0002>
   <PLU0003>
3. Press the <TABLE TRANSFER> key to finalize the transaction.

Payment (by <DEPOSIT> key)

```
REG  C01      10-10-01 12:34    000001
   1  PLU0001                 ·1.00
   1  PLU0002                 ·2.00
   1  PLU0003                 ·3.00
      DEPOSTT                 -5.00
      DISC                    -0.10
      TBL TRANS             ·0.90




 TBL  TRANS                     1

```

1. Enter customer No. and press the <CUST#> (customer ID No.) key.
2. Perform item registration.
3. Enter tendered amount and press the <DEPOSIT-> key.
4. Press the <TABLE TRANSFER> key to finalize the transaction.

Payment (by <PAYMENT> key)

```
REG  C01      10-10-01 12:34    000001
CUST0001                    1CT
   1  PLU0001                 ·1.00
   1  PLU0002                 ·2.00
   1  PLU0003                 ·3.00
      DISC                    -0.60
- - - - - - - - - - - - - - - - - - - - - - - -
      TL                   ·0.90
      CASH                    ·6.00
      CG                      ·0.60


 CG                        ·0.60

```

1. Press the <PAYMENT> key.
2. Enter customer No. and press the <CUST#> (customer ID No.) key.
3. Perform a finalize operation.

Note:

Pressing the <CUST#> directly shows customer No. and name window to specify the customer. Also you can enter a new customer data here in case of allowing to create a new customer.

4-18. Table sharing

Before using the table sharing function, the following programs are necessary to use this function.
1) Allocating table sharing key (261).
2) Program to enable table sharing function (refer to the page 40 of the programming manual.)

```
REG  C01      10-10-01 12:34      000001
CHECK No. 01123456




NEW  CHK          01123456

```

1. In case of designating the same table (check) No. which has already been occupied, the terminal add the branch No. to the table No. and open this check as a new check.
   (The branch No. (01 ~ 99) is added to prefix to the original table No.)
   01: branch No.
   123456: original table (check) No.

4-19. Order character change

Before using this function, the following programs are necessary.
1) Allocating order character file (File-065).
2) Allocating order character change key (252).
3) Linking order character record No.: if necessary

```
REG  C01      10-10-01 12:34      000001

        ORDER  CHAR
   1.ORDER CHAR01
   2.ORDER CHAR02
   3.ORDER CHAR03
   4.ORDER CHAR04
   5.ORDER CHAR05
   6.ORDER CHAR06
   7.ORDER CHAR07
   8.ORDER CHAR08        ↓

                        0.00

```

1. By pressing <ORDER CHARACTER CHANGE> key, the order character window appears in the screen.
   You can change the appropriate order character in the window.
   (If the linking order character record No. is set, the order character is changed to the linking character automatically.)

4-20. Item search

Before using this function, the following programs are necessary.
1) Allocating item search key (246).
2) Searching range: By group / subdepartment / department and its record No.

```
REG  C01      10-10-01 12:34      000001

   Found Items
     1.PLU001
     2.PLU002
     3.PLU003
     4.PLU004
     5.PLU005
     6.PLU006
     7.PLU007
     8.PLU008            ↓

                        0.00

```

1. By pressing <ITEM SEARCH> key, the character program keyboard appears on the screen.
2. You can search the item by entering the item descriptor.

Registration

5. Refund mode operation

The general procedure for entering the REF or REG– mode is as follows.

5-1. Selecting REF or REG– mode

After sign on operation, press the <MODE> key and select the <RF> or <REG-> key to turn that mode.
Refund registration or register minus (REG–) registration starts with this operation.

```
REG  C01        10-10-01 12:34      000001




              ┌────────────────┐
              │  REG  Mode     │
              └────────────────┘




 C01

```

```
RF C01         10-10-01 12:34      000001




           ┌──────────────────────┐
           │   REFUND  Mode       │
           └──────────────────────┘



 C01

```

```
R - C01        10-10-01 12:34      000001




              ┌────────────────┐
              │  REG-  Mode    │
              └────────────────┘



 C01

```

Note: Key operations are similar to that in the register mode.

To avoid miss-registration in the REF or REG– mode, return the mode to the former one immediately.

6. Read and reset operations

By setting the mode to the X or Z, the contents of totalizers and counters are enabled to read. The X mode allows report at any time during business hours. The Z mode is only performed at the end of the business day, since it clears the data stored to the totalizers and counters.

6-1. The procedures of reading or resetting

```
X/Z  C01      15-12-96 12:34      000000


           X/Z Report
   1.Daily          X
   2.Periodic(1) X
   3.Periodic(2) X
   4.Daily          Z
   5.Periodic(1) Z
   6.Periodic(2) Z
   7.Time&Attendance

                          0.00

```

1. Sign on a clerk (if necessary).
2. Press <X/Z MODE> to assign X/Z report.

3. Select the appropriate menu you want by following the guidances. The hierarchy of the X/Z menus are described below.

Refer to page 100 of this manual for X/Z command.

```
X/Z Report ─── Daily X ─── Batch ──────────── Batch 1 ~ n: n = 1 ~ 10
                        ├─ Cashier/Clerk ───┬─ Individual
                        │                   └─ All clerk
                        ├─ Open Check ──────┬─ Individual
                        │                   ├─ Clerk
                        │                   ├─ All
                        │                   ├─ Only total (X only)
                        │                   └─ All Information (X only)
                        ├─ E-Journal ───────┬─ All
                        │                   ├─ Date & Consecutive number (X only)
                        │                   └─ Reset only (Z only)
                        ├─ Customer Account ─┬─ Customer ·············· (Daily X/Z only)
                        │                    └─ Customer Group
                        └─ Others ──────────┬─ Individual key ········· (Daily X/Z only)
                                            ├─ Flash ················· (Daily X only)
                                            ├─ Fixed totalizer
                                            ├─ Free Function
                                            ├─ PLU
                                            ├─ PLU stock ············· (Daily X/Z only)
                                            ├─ Sub Department
                                            ├─ Department
                                            ├─ Group
                                            ├─ Hourly sales
                                            ├─ Monthly sales
                                            ├─ Table analysis
                                            ├─ Void
                                            ├─ Hourly product
                                            ├─ (future use)
                                            └─ IDC ── IDC (n) clear (Z only): n = 1 ~ 3

            ├─ Periodic 1 X ─┬─ Batch ·················· Same as Daily X
            │                ├─ Cashier/Clerk ·········· Same as Daily X
            │                ├─ Customer Account ········ Same as Daily X
            │                └─ Others ·················· Same as Daily X
            ├─ Periodic 2 X ························· Same as Periodic 1 X
            ├─ Daily Z ····························· Same as Daily X
            ├─ Periodic 1 Z ························· Same as Periodic 1 X
            ├─ Periodic 2 Z ························· Same as Periodic 2 X
            └─ Time & Attendance ───────────┬─ Employee activity
                                            ├─ Employee
                                            ├─ Employee edit
                                            └─ Hourly Labor
```

6-2. Report sample

Cashier / clerk report

```
Z    0001017  CASHIER/CLERK       123 ── Mode / Report code / Report title / Z No. (Z only)

C01                  · · · · · · · · · · · · · · · · · · · · · ·1 ── Clerk name / Drawer No.
GROSS            35       ·38.00 ── Gross title / Counter / Totalizer
NET       No    10       ·38.00 ── Net title / totalizer
CAID                     ·35.00 ── Cash in drawer title / Cash in drawer
CHID                      ·3.00 ── Charge in drawer title / Charge in drawer
CKID                      ·0.00 ── Check in drawer title / Check in drawer
CRID                      ·0.00 ── Credit in drawer title / Credit in drawer
CASH      No    10       ·35.00 ── Cash key title / Counter / Totalizer
```
── Manager report

```
C03                  · · · · · · · · · · · · · · · · · · · · · ·1
GROSS            21       ·45.00
NET       No     5       ·40.00
CAID                     ·35.00
CHID                      ·3.00
CKID                      ·0.00
CRID                      ·0.00
CASH      No    10       ·35.00
```
── Cashier report

```
C10                  · · · · · · · · · · · · · · · · · · · · · ·1
GROSS            10       ·18.00
NET       No     8       ·18.00
CAID                     ·15.00
CHID                      ·3.00
CKID                      ·0.00
CRID                      ·0.00
CASH      No     5       ·15.00
```
── Clerk report

Individual key

```
Z    0001095                      ── Mode / Report code

CASH      No    11       ·38.00 ── Function key descriptor / Counter / Totalizer
CHECK     No     0        ·0.00
CREDIT    No     1       ·12.00
ADD CHK   No     0
----------------------------------
TL              12       ·50.00 ── TL descriptor / Counter / Totalizer
```

Flash

```
X    0000071  FLASH               ── Mode / Report code / Report title

NET       No    11       ·38.00 ── Net sales title / Counter /Totalizer
CAID                     ·35.00 ── Cash in drawer title / Cash in drawer
CHID                      ·0.00 ── Charge in drawer title / Charge in drawer
CKID                      ·0.00 ── Check in drawer title / Check in drawer
CRID                      ·0.00 ── Credit in drawer title / Credit in drawer
```

Fixed totalizer

```
Z    0001011  FIXED TTL          123 ── Mode / Report code / Report title / Z No. (Z only)

GROSS           35       ·38.00 ── Gross sales title / Counter / Totalizer
NET        No   11       ·38.00 ── Net sales title / Counter / Totalizer
CAID                     ·35.00 ── Cash in drawer title / Cash in drawer
CHID                      ·0.00 ── Charge in drawer title / Charge in drawer
CKID                      ·0.00 ── Check in drawer title / Check in drawer
CRID                      ·0.00 ── Credit in drawer title / Credit in drawer
RF         No    2        ·8.00 ── Refund mode descriptor / Counter / Totalizer
COVER      CT    2              ── Customer count descriptor / Counter
TA1                       ·0.00 ── Taxable amount 1 descriptor / Taxable amount 1
TX1                       ·0.00 ── Tax 1 descriptor / Tax 1 amount
EX1                       ·0.00 ── Tax exempt 1 descriptor / Tax exempt amount 1
                          ·0.00
EX9                        .00
TA10                      ·0.00 ── Taxable amount 10 descriptor / Taxable amount 10
TX10                      ·0.00 ── Tax 10 descriptor / Tax 10 amount
EX10                      ·0.00 ── Tax exempt 10 descriptor / Tax exempt amount 10
GT1             ·1236901437.04 ── Grand total 1 descriptor / Grand total 1
GT2             ·1569567830.40 ── Grand total 2 descriptor / Grand total 2
GT3             ·1325670420.24 ── Grand total 3 descriptor / Grand total 3
         000001--->001279 ── Consecutive No. range
```

Free function

```
Z    0001012  FREE FUNCTION      123 ── Mode / Report code / Report title / Z No. (Z only)

CASH       No   11       ·38.00 ── Transaction key descriptor / Counter / Amount
RC         No    2        ·8.00
PD         No    1        ·1.00
```

PLU

```
Z    0001014  PLU                123 ── Mode / Report code / Report title / Z No. (Z only)

PLU0001         50      ·682.55 ── PLU descriptor / Counter / Amount
 DISCOUNT                -1.00 ── Discount total (can be skipped)
 HOUSE BON QTY  12            ── House Bon quantity (always "0" skipped)
 #0001    68.25%              ── PLU No. (can be skipped) / Sales ratio (can be skipped)
PLU0002         25       ·32.00
 HOUSE BON               -5.00

 #0100     3.2%
------------------------------------
TL              75      ·714.55
 DISCOUNT               -6.00
 HOUSE BON QTY  12
          71.45%
```

PLU (with shift PLU)

```
Z    0001014  PLU                123 ── Mode / Report code / Report title / Z No. (Z only)

PLU0001         50      ·682.55 ── PLU descriptor / Counter / Amount
 DISCOUNT                ·1.00 ── Discount total (can be skipped)
 HOUSE BON QTY  12            ── House Bon quantity (can be skipped)
 #0001    68.25%              ── PLU No. (can be skipped) / Sales ratio (can be skipped)
 @1             1         ·1.23 ── 1st unit price descriptor / Counter / Amount
                2         ·2.50
 @8
                          ·6.37
PLU0002         25       ·32.00
 DISCOUNT                ·5.00
```

PLU (by range)

```
X     0010074  PLU                          ── Mode / Report code / Report title / Z No. (Z only)

#0001-#0002                                 ── PLU range

PLU0001            50         ·682.55       ── PLU descriptor / Counter / Amount
 DISCOUNT                       -1.00       ── Discount total (can be skipped)
  HOUSE BON QTY    12                        ── House Bon quantity (can be skipped)
   #0001     68.25%                          ── PLU No. (can be skipped) / Sales ratio (can be skipped)
PLU0002                            25
                               ·32.00
 DISCOUNT                       -5.00
  HOUSE BON QTY    10
   #0002     3.2%
-----------------------------------
TL                 75         ·714.55
 DISCOUNT                       -6.00
  HOUSE BON QTY    22
            71.45%
```

PLU (by group / dept / subdept)

```
X    1000014  PLU                           ── Mode / Report code / Report title / Z No. (Z only)

GROUP01                ················01    ── Group (dept / subdept) title
PLU0001            50         ·682.55        ── PLU descriptor / Counter / Amount
 DISCOUNT                       -1.00        ── Discount total (can be skipped)
  #0001     68.25%                           ── PLU No. (can be skipped) / Sales ratio (can be skipped)
PLU0002            25          ·32.00
 DISCOUNT                       -5.00
  #0002     3.2%
-----------------------------------
TL                 75         ·714.55        ── Total by group (dept / subdept) / Counter / Amount
 DISCOUNT                       -6.00
            71.45%

GROUP02                ···········02
```
```
                  ···················00
PLU0005             1           ·2.00        ── Non Group (dept / subdept) link items

 DISCOUNT                       ·0.00
  #0005     0.2%
-----------------------------------
TL                  1           ·2.00
 DISCOUNT                       ·0.00
            0.2%
```

PLU (by order character)

```
X    4000014  PLU                           ── Mode / Report code / Report title / Z No. (Z only)

ORDER01                ················01    ── Order title
PLU0001            50         ·682.55        ── PLU descriptor / Counter / Amount
 DISCOUNT                       -1.00        ── Discount total (can be skipped)
  #0001     68.25%                           ── PLU No. (can be skipped) / Sales ratio (can be skipped)
PLU0002            25          ·32.00
 DISCOUNT                       -5.00
  #0002     3.2%
-----------------------------------
TL                 75         ·714.55        ── Total by order / Counter / Amount
 DISCOUNT                       -6.00
            71.45%

ORDER02                ················02
```
```
PLU0005             1           ·2.00        ── Non order character link item
 DISCOUNT                       ·0.00
  #0005     0.2%
-----------------------------------
TL                  1
                                ·2.00
 DISCOUNT                       ·0.00
            0.2%
```

PLU zero sales

```
X    0100014  PLU                     ── Mode / Report code / Report title

PLU0001          0        ·0.00        ── PLU descriptor / Counter / Amount
 DISCOUNT                 ·0.00
  #0001                                ── PLU No. (can be skipped)
PLU0002          0        ·0.00


-----------------------------------
TL               0        ·0.00
 DISCOUNT                 ·0.00
```

PLU zero sales (by group / dept / subdept / order)

```
X    1100014  PLU                     ── Mode / Report code / Report title
GROUP01           · · · · · · · · · · 01  ── Group (dept / subdept / order character) title
PLU0001          0        ·0.00        ── PLU descriptor / Counter / Amount
 DISCOUNT                 ·0.00
  #0001                                ── PLU No. (can be skipped)
PLU0002          0        ·0.00


GROUP02           · · · · · · · · · · 02
-----------------------------------
TL               0        ·0.00
  DISCOUNT                ·0.00
-----------------------------------
TL               0        ·0.00
  DISCOUNT                ·0.00
```

PLU stock / PLU less stock

```
X    0000064  PLU STOCK               ── Mode / Report code / Report title / Z No. (Z only)

PLU0001         10       123.45        ── PLU descriptor / Minimum stock level / Current stock
 #0001                                 ── PLU No. (can be skipped)
PLU0002         25    *    20          ── * short stock
 #0002
              :
```

PLU stock (by range)

```
X    0010064  PLU STOCK               ── Mode / Report code / Report title / Z No. (Z only)

#0001-#0002                           ── Range

PLU0001         10       123.45        ── PLU descriptor / Minimum stock level / Current stock
 #0001                                 ── PLU No. (can be skipped)
PLU0002         25    *    20          ── * short stock
 #0002
              :
```

PLU stock (by group / dept / subdept / order)

```
X    1000064  PLU STOCK              — Mode / Report code / Report title / Z No. (Z only)

GROUP01                  ·············01  — Link group (dept / subdept / order) title
PLU0001          10        123.45      — PLU descriptor / Minimum stock level / Current stock
 #0001                                 — PLU No. (can be skipped)
PLU0002          25    *     20        — * short stock
 #0002
              :
```

Subdepartment (all)

```
Z    0001013  SUB DEPT          123    — Mode / Report code / Report title / Z No. (Z only)

SUBDEPT01        24         ·82.55     — Subdepartment descriptor / Counter / Amount
 DISCOUNT                   -1.00      — Discount total (can be skipped)
          70.82%                       — Sales ratio (can be skipped)
SUBDEPT02        25         ·32.00
 DISCOUNT                   -2.00
          27.45%

------------------------------------
TL              151        ·156.55
 DISCOUNT                  -3.00
          100.00%
```

Subdepartment (by range)

```
X    0010013  SUB DEPT                — Mode / Report code / Report title / Z No. (Z only)

#0001-#0002                            — Range

SUBDEPT01        24         ·82.55     — Subdepartment descriptor / Counter / Amount
 DISCOUNT                   -1.00      — Discount total (can be skipped)
          70.82%                       — Sales ratio (can be skipped)
SUBDEPT02        25         ·32.00
 DISCOUNT                   -2.00
          27.45%
------------------------------------
TL               49        ·114.55
 DISCOUNT                  -3.00
          98.27%
```

Subdepartment (by group / dept)

```
X    100013  SUB DEPT                 — Mode / Report code / Report title / Z No. (Z only)

GROUP01                  ·············01  — Group title
SUBDEPT01        24         ·82.55     — Subdepartment descriptor / Counter / Amount
 DISCOUNT                   ·1.00      — Discount total (can be skipped)
          70.82%                       — Sales ratio (can be skipped)
SUBDEPT02        25         ·32.00
 DISCOUNT                   ·2.00
          27.45%
------------------------------------
TL               49        ·114.55
 DISCOUNT                  ·3.00
          98.27%

SUBDEPT04         1          ·1.00     — No group link items
 DISCOUNT                   ·0.00
          0.87%
------------------------------------
TL                1          ·1.00
 DISCOUNT                   ·0.00
          0.87%
```

Subdepartment zero sales

```
X    0100013  SUB DEPT                  — Mode / Report code / Report title

SUBDEPT03         0        ·0.00        — Subdepartment descriptor / Counter / Amount
 DISCOUNT                  ·0.00        — Discount total (can be skipped)
SUBDEPT04         0        ·0.00
 DISCOUNT                  ·0.00
----------------------------------
TL                0        ·0.00
 DISCOUNT                  ·0.00
```

Subdepartment zero sales (by group / dept)

```
X    1100013  SUB DEPT                  — Mode / Report code / Report title

GROUP01        · · · · · · · · · ·01    — Group title
SUBDEPT03         0        ·0.00        — Subdepartment descriptor / Counter / Amount
 DISCOUNT                  ·0.00        — Discount total (can be skipped)
SUBDEPT04         0        ·0.00
 DISCOUNT                  ·0.00
----------------------------------
TL                0        ·0.00


TL                0        ·0.00        — No group link items total
 DISCOUNT                  ·0.00
----------------------------------
TL                0        ·0.00
 DISCOUNT                  ·0.00
```

Department (all)

```
X    0000015  DEPT                      — Mode / Report code / Report title / Z No. (Z only)

DEPT01           24        ·82.55       — Department descriptor / Counter / Amount
 DISCOUNT                  -1.00        — Discount total (can be skipped)
           70.82%                       — Sales ratio (can be skipped)
DEPT02           25        ·32.00
 DISCOUNT                  -2.00
           27.45%


----------------------------------
TL              151        ·156.55
 DISCOUNT                  -3.00
          100.00%
```

Department (by range)

```
X    0010015  DEPT                      — Mode / Report code / Report title / Z No. (Z only)

#0001-#0002                             — Range

DEPT01           24        ·82.55       — Department descriptor / Counter / Amount
 DISCOUNT                  -1.00        — Discount total (can be skipped)
           70.82%                       — Sales ratio (can be skipped)
DEPT02           25        ·32.00
 DISCOUNT                  -2.00
           27.45%
----------------------------------
TL               49        ·114.55
 DISCOUNT                  -3.00
           98.27%
```

Read and Reset

Department (by group)

```
X    1000015   DEPT                    ── Mode / Report code / Report title / Z No. (Z only)

GROUP01            · · · · · · · · · · · · · · · 01  ── Group title
DEPT01              24        ·82.55    ── Department descriptor / Counter / Amount
  DISCOUNT                    -1.00    ── Discount total (can be skipped)
          70.82%                        ── Sales ratio (can be skipped)
DEPT02              25        ·32.00
  DISCOUNT                    -2.00
          27.45%
------------------------------------
TL                  49        ·114.55
  DISCOUNT                    -3.00
          98.27%
```

```
DEPT04               1         ·1.00   ── No group link items
  DISCOUNT                    -0.00
          0.87%
------------------------------------
TL                   1         ·1.00
  DISCOUNT                    -0.00
          0.87%
```

Department zero sales

```
X    0100015   DEPT                    ── Mode / Report code / Report title

DEPT01               0         ·0.00   ── Department descriptor / Counter / Amount
  DISCOUNT                     ·0.00   ── Discount total (can be skipped)
DEPT02               0         ·0.00
  DISCOUNT                     ·0.00
------------------------------------
TL                   0         ·0.00
  DISCOUNT                     ·0.00
```

Department zero sales (by group)

```
X    1100015   DEPT                    ── Mode / Report code / Report title

GROUP01            · · · · · · · · · · · · · · · 01  ── Group title
DEPT01               0         ·0.00   ── Department descriptor / Counter / Amount
  DISCOUNT                     ·0.00   ── Discount total (can be skipped)
DEPT02               0         ·0.00
  DISCOUNT                     ·0.00
------------------------------------
TL                   0         ·0.00
```

```
TL                   0         ·0.00   ── No group link items total
  DISCOUNT                     ·0.00
------------------------------------
TL                   0
                               ·0.00
  DISCOUNT                     ·0.00
```

Group

```
X    0000016   GROUP                   ── Mode / Report code / Report title / Z No. (Z only)

GROUP01              6        ·163.54   ── Group descriptor / Counter / Amount
          1.63%                         ── Sales ratio (can be skipped)
GROUP02              2         ·2.55
          0.02%
------------------------------------
TL                   8        ·166.09
          1.65%
```

Hourly sales

```
Z     0001019  HOURLY            123 ── Mode / Report code / Report title / Z No. (Z only)

09:00->10:00         1        ·63.54 ── Time frame / Net counter / Net amount
      1.63%     CT  1        ·63.54 ── Sales ratio (can be skipped) / Customer counter / Gross amount

10:00->11:00         2       ·122.55 ── Time frame / Net counter / Net amount
      3.52% ── Sales ratio (can be skipped)
                CT  2       ·122.55
```

Monthly sales

```
Z     0001020  MONTHLY           123 ── Mode / Report code / Report title / Z No. (Z only)

   7 ...... ── Day of the month
GROSS              52      ·680.57 ── Gross counter / Gross amount
NET          No  12      ·680.50 ── Net counter / Net amount
   8 ......
GROSS              78    ·1,034.59
NET          No  37    ·1,034.57
-----------------------------------
TL
GROSS             130    ·1,715.16
                           ·13.19 ── Average gross sales
NET               49    ·1,715.07
                           ·35.00 ── Average net sales
```

Table analysis

```
Z     0001028  TABLE ANALYSIS    123 ── Mode / Report code / Report title / Z No. (Z only)

TBL0001     CT  12      ·680.57 ── Table No. / Customer count / Net amount
            50.12% ── Sales ratio (can be skipped)
TBL0002     CT   5      ·279.56
            10.04%
-----------------------------------
TL          CT  28    ·1,267.97
            60.16%
```

Void reason

```
Z     0001022  VOID REASON       123 ── Mode / Report code / Report title / Z No. (Z only)

OPE ERR      No  12      ·80.50 ── Void reason / Counter / Amount
OUT OF DATE  No  10      ·40.42
             No   0       ·0.00
```

Read and Reset

Open check

```
X    0050025  OPEN CHK                       ── Mode / Report code / Report title

                      MC #01                 ── Machine No.
REG C01     07-01-2005 12:34    001029       ── Mode / Clerk / Date / Time / Consecutive No.
CHECK NO.001245    12CT    #000121           ── Check No. / Cover No. / Table No.
                        ·100.35              ── Subtotal amount (temporary closed by NB)
                      MC #02
REG C04     07-01-2005 14:31    001186
CHECK NO.001328     2CT    #000226
  BUSY                  ·130.45              ── Busy status
                      MC #01
REG C04     07-01-2005 14:35    001686
CHECK NO.002222     2CT    #000226
  FINALIZED             ·1.00                ── Finalized status

CHECK NO.003333
  NEW OPEN              ·0.00                ── Newly opened status
------------------------------------
TL          No   4       ·360.80
```

Electronic journal (E-journal)

```
Z    0001058  E-JOURNAL                      ── Mode / Report code / Report title

                      MC #03
REG C01     07-11-2005 16:34    001029
  1  PLU0055            ·100.00
     0.12%
     %-                  -0.12               ── Registrations
     TL                ·99.88
     CASH               ·99.88
                      MC #03
P 1 C01     07-11-2005 16:35    001030       ── Some program are made in Program 1 mode.
                      MC #03
X/Z C01     07-11-2005 16:37    001031
X    0100015  DEPT                           ── Report issued
```

Employee activity

```
X    0000029  EMPLOYEE                       ── Mode / Report title / Report code

#000001 HARRISON       1111111111            ── Employee No. / Employee character / Social Security No.
#000002 BAKER          2222222222
#000003 PEABODY        3333333333
#000004 JOHNSON        4444444444
```

Employee report (daily)

```
X    000029  EMPLOYEE                    ── Mode / Report code / Report title / Z counter (Z only)

#123456 HARRISON            123456789    ── Employee No. / Employee character / Social Security No.

Monday                       12-20-03    ── Day of the week / Date
IN   OUT   BRK   JOB#  TIP    WORK
08:00-10:00 00:15 12  ·12.34 01:45       ── Shift 1: Clock-in / Clock-out / Break / Job code / Tip / Work time
12:00-**:** 00:10 01   ·0.00 **:**       ── Shift 2: Clock-out shift *1
**:**-**:**                              ── Shift 3: Clock-in shift *2
------------------------------------
TL          00:25       ·12.34 **:**      ── Break total / Tip total / Work time total *3

JOB# 12   01:45                          ── Job summary / Job code / Work time *4
JOB# 1    **:**                          ── Job summary *5
REGULAR TIME      00:45                   ── Regular work hours
OVER TIME         00:17                   ── Overtime work hours
TL                01:12        ·5.45      ── Total of work hours / Pay
```

*1 If employee is not clocked-out the shift, then "**:**" is printed on OUT & WORK.
*2 If employee is not clocked-in the shift, then "**:**-**:**" is printed on IN&OUT.
*3 If employee is not clocked-out the shift yet, then "**:**" is printed on WORK.
*4 JOB summary is printed in order to clock-in the shift.
    If there is the same JOB code, then it will add to the JOB that was found before.
*5 If employee is not clocked-out the shift, then "**:**" is printed. No JOB # is printed, if
    employee is not clocked-in the shift.

Employee report (weekly / bi-weekly)

```
X    000129  EMPLOYEE

#123456 HARRISON            123456789

Monday                       12-21-03    ── Day of the week / Date *2
IN   OUT   BRK   JOB#  TIP    WORK
08:00-10:00 00:10 12  ·12.34 01:45       ── Shift 1
12:00-15:00 00:10 01   ·0.00 02:50       ── Shift 2
**:**-**:**                              ── Shift 3
------------------------------------
TL          00:25       ·12.34 04:35

Tuesday                      12-22-03
IN   OUT   BRK   JOB#  TIP    WORK
08:00-10:00 00:10 12  ·12.34 01:45
12:00-15:00 00:10 01   ·0.00 02:50
**:**-**:**
------------------------------------
TL          00:25       ·12.34 04:35

Sunday
IN   OUT   BRK   JOB#  TIP    WORK

------------------------------------
TL          00:00        ·0.00 00:00

JOB# 12   01:45                          ── Job summary
JOB# 01   02:00
JOB# 05   02:00
JOB# 10   02:08
REGULAR TIME      00:45                   ── Regular work hours
OVER TIME         00:17                   ── Overtime work hours
TL                01:55        ·2.04      ── Total of work hours/ Pay
```

*1 If all shift in one day of the week is zero (no data), then that day of the week is not printed on
    the report.
*2 The report always starts from Monday.

Read and Reset

Hourly item

```
Z     0001031   HOURLY PRODUCT        1234
                                              ── Mode / Report code / Report title / Z counter (Z only)
09:00->09:30                                  ── Time frame
GROSS              1357.956     ·2,469.06      ── Totalizer character / Counter / Amount
            40%
NET          No    12           ·2,469.06
            40%                                ── Sales ratio (Amount / Total amount of each time frame)
PLU0001            1234.5       ·1,234.50
            20%
...........................................
            9.89%               ·6,172.62      ── Sales ratio (Amount /Total amount of all time frame)/Total
09:30->10:00                                      Amount of this time frame
GROSS              1357.956     ·2,469.06
            40%
NET          No    12           ·2,469.06
            40%
PLU0001            1234.5       ·1,234.50
            20%
...........................................


19:30->20:00
GROSS              1357.956     ·2,469.06
            40%
NET          No    12           ·2,469.06
            40%
PLU0001            1234.5       ·1,234.50
            20%
...........................................
            9.89%               ·6,172.62

TL                             ·62,395.07     ── Total Amount of all Time frame
```

Hourly labor report

```
Z     0001024   HOURLY LABOR          1234
                                              ── Mode / Report code / Report title / Z counter (Z only)
09:00->09:30  No    2           ·2,469.06     ── Time frame / NET counter / NET Amount
   82.62%                                      ── NET ratio
 COST              00:05            ·0.08     ── Work time / Pay
    0%                                         ── Pay ratio
 NET SALES/HOUR                ·29,628.72     ── Proceeds per work time
 COST/TRANSACTION                  ·0.04     ── Wages per transaction

09:30->10:00  No   10


16:00->16:45  No
                                   ·0.00
    0%
 COST              00:01            ·0.00
    0%
 NET SALES/HOUR                    ·0.00
 COST/TRANSACTION                  ·0.00
```

IDC clear

```
Z     0001067   IDC(1) Clear             1    ── Mode / Report code / Report title / Z counter (Z only)

              Normal End                       ── Result print
```

Customer group

```
X     0000052   CUSTOMER GP                    ── Mode / Report code / Report title / Z counter

CUST GP01     No    1            ·12.34        ── Customer group 01 descriptor / Counter / Totalizer
CUST GP02     No    0             ·0.00
```

Customer open check (individual)

```
X      0020047  CUSTOMER          ── Mode / Report code / Report title / Z counter (Z only)

CUST No. 1 1 1 1 1 1           *  ── Customer number / * New customer
Mr.                               ── Customer title (Skip if nothing is set.)
John SMITH                        ── Customer's name
 BALANCE            ·10.23        ── Customer's balance
 DISCOUNT             ·1.23       ── Discount total
 FINALIZED GT      ·316.36        ── Finalized grand total
 DISCOUNT GT         ·41.23       ── Discount grand total

1-2-3 Hon-machi                   ── Address (1)  (Skip if nothing is set.)
Shibuya-ku                        ── Address (2)  (Skip if nothing is set.)
Tokyo JAPAN                       ── Address (3)  (Skip if nothing is set.)
ZIP-123-4567                      ── Address (4)  (Skip if nothing is set.)
PHONE No.012345678                ── Telephone No.  (Skip if nothing is set.)
```

Customer open check (all)

```
X      0000047  CUSTOMER          ── Mode / Report code / Report title / Z counter (Z only)

CUST No. 0 0 0 0 0 1          *   ── Customer number / * New customer
Mr.                               ── Customer title (Skip if nothing is set.)
Joseph McAfee                     ── Customer's name
 BALANCE            ·10.23        ── Customer's balance
 DISCOUNT             ·1.23       ── Discount total
 FINALIZED GT      ·316.36        ── Finalized grand total
 DISCOUNT GT         ·41.23       ── Discount grand total
-----------------------------------
BUSY                              ── Busy (Occupied) flag
CUST No. 0 0 0 0 2 2
 BALANCE           ·110.23
 DISCOUNT             ·1.23
 FINALIZED GT      ·616.36
 DISCOUNT GT         ·41.23
-----------------------------------
TL        No    2                 ── No. of customer
 BALANCE           ·120.46        ── Customer balance total
 DISCOUNT            ·2.46        ── Customer discount total
```

Customer open check (total only)

```
X      0040047  CUSTOMER          ── Mode / Report code / Report title / Z counter (Z only)

TL        No    2                 ── No. of customer
 BALANCE           ·120.46        ── Customer balance total
 DISCOUNT            ·2.46        ── Customer discount total
```

Customer open check (all information)

```
X      0050047  CUSTOMER          ── Mode / Report code / Report title / Z counter (Z only)

CUST No. 0 0 0 0 0 1          *   ── Customer number / * New customer
Mr.                               ── Customer title (Skip if nothing is set.)
Joseph McAfee                     ── Customer's name
 BALANCE            ·10.23        ── Customer's balance
 DISCOUNT             ·1.23       ── Discount total
 FINALIZED GT      ·316.36        ── Finalized grand total
 DISCOUNT GT         ·41.23       ── Discount grand total

1-2-3 Hon-machi                   ── Address (1)  (Skip if nothing is set.)
Shibuya-ku                        ── Address (2)  (Skip if nothing is set.)
Tokyo JAPAN                       ── Address (3)  (Skip if nothing is set.)
ZIP-123-4567                      ── Address (4)  (Skip if nothing is set.)
PHONE No.012345678                ── Telephone No.  (Skip if nothing is set.)
-----------------------------------
BUSY                              ── Busy (Occupied) flag
CUST No. 0 0 0 2 2

PHONE No.012345678
-----------------------------------
TL        No    2                 ── No. of customer
 BALANCE           ·120.46        ── Customer balance total
 DISCOUNT            ·2.46        ── Customer discount total
```

Function key list

A-1. Function key list

Function	Code	Initial character	Function	Code	Initial character
Add check	094	`ADD CHK`	Operator read / reset	073	`OPE X/Z`
Arrangement	044	`ARG`	Order character change	252	`ORDER CHAR`
Bill copy	047	`BILL`	Paid out	021	`PD`
Break-in / out	109	`BREAK-IN/OUT`	Payment	149	`PAYMENT`
Cancel	236	`CANCEL`	Pick up	022	`P.UP`
Cash amount tendered	001	`CASH`	Plus	029	`+`
Charge	002	`CHARGE`	PLU	048	`PLU#`
Check endorsement	039	`CK.E`	Post entry	115	`POST ENTRY`
Check print	012	`CHKP`	Premium	030	`%+`
Check tender	003	`CHECK`	Price	049	`PRC`
Clerk number	072	`CLK#`	Price inquiry	008	`PRCINQ`
Clerk transfer	013	`CLK TRANS`	Quantity / for	083	`QT`
Clock-in / out	108	`CLOCK-IN/OUT`	Recall	131	`RECALL`
Coupon	023	`COUPON`	Receipt	038	`RCT`
Coupon 2	036	`CPN2`	Receipt on / off	076	`RCT ON/OFF`
(future use)			Received on account	020	`RC`
Credit	004	`CREDIT`	Refund	033	`RF`
Cube	090	`XXX`	Round repeat	116	`ROUND REPEAT`
Currency exchange	045	`CE`	Seat number	119	`SEAT#`
Customer number	148	`CUST#`	Second unit price	070	`2nd@`
Declaration	061	`DECLA`	Selective item subtotal	085	`SIST`
Department	051	`DEPT nn`	Separate check	095	`SEP CHK`
Department number	135	`DEPT#`	Shift PLU	065	`SFT PLU`
Deposit	025	`DEPOSIT`	Slip back feed / release	054	`SB/R`
Discount	028	`%-`	Slip feed / release	056	`SF/R`
Display mode	219	`DISP MODE`	Slip print	055	`SLIP`
Dutch account	140	`DUTCH`	Square	084	`XX`
Eat-in	128	`EAT-IN`	Stock inquiry	009	`STKINQ`
EBT tender	007	`EBTTD`	Store	130	`STORE`
Electronic journal display	207	`EJ DISP`	Subdepartment	133	`SUBDEPT nn`
Error correct / Void	034	`VOID`	Subdepartment number	134	`SDPT#`
First unit price	069	`1st@`	Substitution	111	`SUBST.`
Flat PLU	063	`PLU nnnn`	Subtotal	075	`SUBTOTAL`
Food stamp status shift	059	`F/S`	Table number	058	`TBL#`
Food stamp subtotal	081	`FSST`	Table sharing	261	`TBL SHARE`
Food stamp tender	005	`FSTD`	Table transfer	014	`TBL TRANS`
House Bon	114	`HOUSE BON`	Takeout	129	`TAKE-OUT`
Item search	246	`SEARCH`	Tax status shift	057	`T/S`
Ketten Bon	113	`X/KETTEN`	Taxable amount subtotal	077	`TAST`
List	136	`LIST`	Tax exempt	062	`EXEMPT`
List number	137	`LIST#`	Text print	011	`PRT`
Loan	019	`LOAN`	Text recall	010	`CHAR`
Location change	260	`LOCATION`	Tray total	074	`TRAY TTL`
Lock out unused key	000	`NOP`	Tip	015	`TIP`
Media change	118	`MEDIA CHG`	Validation	037	`VLD`
Menu shift	064	`MENU`	VAT	046	`VAT`
Merchandise subtotal	080	`MDST`	**System keys**		
Minus	027	`-`	Numeric key	000n201	`n=1~9, "0"=10`
Multiplication	082	`X`	Clear	202	
New balance	006	`NB`	Decimal point	098	`.`
New check	091	`NEW CHK`	Escape / Skip	211	
New / Old check	093	`NEW/OLD`	Home position	218	`HOME`
Normal receipt	016	`NRMRCT`	Page down	220	`PAGE DOWN`
No sale	042	`NS`	Page up	221	`PAGE UP`
Non-add	040	`#`	Mode	124	`MODE`
Non-add / No sale	041	`#/NS`	Three zero	097	`000`
Number of customer	043	`CT`	Two zero	096	`00`
OBR	103	`OBR`	Yes	212	
Old check	092	`OLD CHK`	No	213	
Open	067	`OPEN`	Left arrow	214	
Open2	068	`OPEN2`	Right arrow	215	
Open check	117	`OPEN CHK`	Up arrow	216	
Operator number	078	`OPE#`	Down arrow	217	

A-2. File format

A-2-1.   Fixed totalizer file

A-2-1-1   Fixed totalizer (daily)

File name: Fixed totalizer (daily)   File No.: 001   Max. allocatable records: 85 (fixed)

0	16	21	26
Character		**Counter**	**Totalizer**

A-2-1-2   Fixed totalizer (periodic/consolidation)

File name: Fixed totalizer (periodic 1)   File No.: 101   Max. allocatable records: 85 (fixed)
File name: Fixed totalizer (periodic 2)   File No.: 201   Max. allocatable records: 85 (fixed)
File name: Fixed totalizer (daily consolidation)   File No.: 301   Max. allocatable records: 85 (fixed)
File name: Fixed totalizer (periodic 1 consolidation) File No.: 401   Max. allocatable records: 85 (fixed)
File name: Fixed totalizer (periodic 2 consolidation) File No.: 501   Max. allocatable records: 85 (fixed)
File name: Fixed totalizer (consolidation work)   File No.: 601   Max. allocatable records: 85 (fixed)

0	5	10
Counter	**Totalizer**	

Rec No.	Contents	Rec No.	Contents	Rec No.	Contents
001	Gross sales total	031	Foreign currency cash in drawer 1	061	Tax exempt 4
002	Net sales total	032	Foreign currency check in drawer 1	062	Taxable amount 5
003	Cash in drawer	033	Foreign currency cash in drawer 2	063	Tax 5
004	Cash declared amount	034	Foreign currency check in drawer 2	064	Tax exempt 5
005	Declared short cash amount	035	Foreign currency cash in drawer 3	065	Taxable amount 6
006	Declared over cash amount	036	Foreign currency check in drawer 3	066	Tax 6
007	Charge in drawer	037	Reduction	067	Tax exempt 6
008	Charge declared amount	038	Item return	068	Taxable amount 7
009	Declared short charge amount	039	Clear count	069	Tax 7
010	Declared over charge amount	040		070	Tax exempt 7
011	Check in drawer	041	Rounding	071	Taxable amount 8
012	Check declared amount	042	ST transfer void	072	Tax 8
013	Declared short check amount	043		073	Tax exempt 8
014	Declared over check amount	044		074	Taxable amount 9
015	Credit in drawer	045		075	Tax 9
016	Credit declared amount	046		076	Tax exempt 9
017	Declared short credit amount	047		077	Taxable amount 10
018	Declared over credit amount	048		078	Tax 10
019	Food stamp in drawer	049		079	Tax exempt 10
020	Food stamp cash change	050	Taxable amount 1	080	Euro cash in drawer
021	EBT in drawer	051	Tax 1	081	Euro charge in drawer
022	EBT cash change	052	Tax exempt 1	082	Euro check in drawer
023	Refund mode total	053	Taxable amount 2	083	Euro credit in drawer
024	Customer count	054	Tax 2	084	Coupon total
025	Average sales per customer	055	Tax exempt 2	085	Money declaration count
026	Check cashing service fee	056	Taxable amount 3		
027	New balance fee	057	Tax 3		
028		058	Tax exempt 3		
029	Clerk commission 1 total	059	Taxable amount 4		
030	Clerk commission 2 total	060	Tax 4		

* Shadowed records are for future use.

A-2-2. Transaction key file

A-2-2-1 Transaction key (daily)

File name: Transaction key (daily)   File No.: 002   Max. allocatable records: 999

Function code	Character	Program	@/Rate	Counter	Totalizer

0 2   18   25   29   34   39

A-2-2-2 Transaction key (periodic/consolidation)

File name: Transaction key (periodic 1)   File No.: 102   Max. allocatable records: 999
File name: Transaction key (periodic 2)   File No.: 202   Max. allocatable records: 999
File name: Transaction key (daily consolidation) File No.: 302   Max. allocatable records: 999
File name: Transaction key (periodic 1 consolidation)
                                                 File No.: 402   Max. allocatable records: 999
File name: Transaction key (periodic 2 consolidation)
                                                 File No.: 502   Max. allocatable records: 999
File name: Transaction key (consolidation work) File No.: 602   Max. allocatable records: 999

Counter	Totalizer

0   5   10

A-2-3. Subdepartment file

A-2-3-1 Subdepartment (daily)

File name: Subdepartment (daily)   File No.: 003   Max. allocatable records: 99

Character	Program	Link	@	HALO	Double Bon	Order char. link	Order	Pull-down Group link	Color link	Counter	Totalizer	Discount totalizer

0   16   23   26   29   32 33 34   36   42 43   48   53   58

A-2-3-2 Subdepartment (periodic/consolidation)

File name: Subdepartment (periodic 1)   File No.: 103   Max. allocatable records: 99
File name: Subdepartment (periodic 2)   File No.: 203   Max. allocatable records: 99
File name: Subdepartment (daily consolidation)   File No.: 303   Max. allocatable records: 99
File name: Subdepartment (periodic 1 consolidation) File No.: 403   Max. allocatable records: 99
File name: Subdepartment (periodic 2 consolidation) File No.: 503   Max. allocatable records: 99
File name: Subdepartment (consolidation work)   File No.: 603   Max. allocatable records: 99

Counter	Totalizer	Discount totalizer

0   5   10   15

A-2-4. PLU file

A-2-4-1　PLU (daily)

File name: PLU　　　　　　　　　　File No.: 004　Max. allocatable records: 9999

0		24	31	34	37	40	43	46	48	51	52	53	55
Character		Program	Link	@	Random code	Unit stock	Minimum stock	Set menu link	HALO	Double Bon	Order char. link	Order	

55	61	65	70	75	80	85	90	95
Pull-down Group link	Not used	Stock quantity	Counter	Totalizer	Discount totalizer	Not used	House Bon quantity	

A-2-4-2　PLU (periodic/consolidation)

File name: PLU (periodic 1)	File No.: 104	Max. allocatable records: 9999
File name: PLU (periodic 2)	File No.: 204	Max. allocatable records: 9999
File name: PLU (daily consolidation)	File No.: 304	Max. allocatable records: 9999
File name: PLU (periodic 1 consolidation)	File No.: 404	Max. allocatable records: 9999
File name: PLU (periodic 2 consolidation)	File No.: 504	Max. allocatable records: 9999
File name: PLU (consolidation work)	File No.: 604	Max. allocatable records: 9999

0	5	10	15	20	25	30
Stock quantity	Counter	Totalizer	Discount totalizer	Not used	House Bon quantity	

A-2-4-3　PLU 2nd@

File name: PLU 2nd@　　　　　　　　File No.: 054　Max. allocatable records: 9999

0		24	31	34	37	40	43	46	47
Character		Program	Link	2nd@	2nd Q'ty	Unit stock	Not used	Not used	

A-2-4-4　Scanning PLU link

File name: Scanning PLU link　　　　　File No.: 016　Max. allocatable records: 9999

0	7	9
OBR code	Link PLU rec-#	

A-2-4-5　Shift PLU (daily)

File name: Shift PLU　　　　　　File No.: 055　Max. allocatable records: 9999

0	3	6	9	12	15	18	21	26	31	36	41	46	51
Unit price shift 2	Unit price shift 3	Unit price shift 4	Unit price shift 5	Unit price shift 6	Unit price shift 7	Unit price shift 8	Counter shift 2	Totalizer shift 2	Counter shift 3	Totalizer shift 3	Counter shift 4	Totalizer shift 4	Counter shift 5

56	61	66	71	76	81	86	91
Totalizer shift 5	Counter shift 6	Totalizer shift 6	Counter shift 7	Totalizer shift 7	Counter shift 8	Totalizer shift 8	

A-2-4-6　Shift PLU (periodic/consolidation)

File name: Shift PLU (periodic 1)　　　　　　File No.: 155　Max. allocatable records: 9999
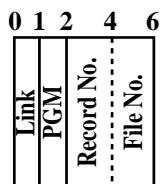File name: Shift PLU (periodic 2)　　　　　　File No.: 255　Max. allocatable records: 9999
File name: Shift PLU (daily consolidation)　　　File No.: 355　Max. allocatable records: 9999
File name: Shift PLU (periodic 1 consolidation)　File No.: 455　Max. allocatable records: 9999
File name: Shift PLU (periodic 2 consolidation)　File No.: 555　Max. allocatable records: 9999
File name: Shift PLU (consolidation work)　　　File No.: 655　Max. allocatable records: 9999

0	5	10	15	20	25	30	35	40	45	50	55
Counter shift 2	Totalizer shift 2	Counter shift 3	Totalizer shift 3	Counter shift 4	Totalizer shift 4	Counter shift 5	Totalizer shift 5	Counter shift 6	Totalizer shift 6	Counter shift 7	

55	60	65	70
Totalizer shift 7	Counter shift 8	Totalizer shift 8	

A-2-5. Department file

A-2-5-1 Department (daily)

File name: Department (daily)   File No.: 005   Max. allocatable records: 99

Character	Program	Link	@	HALO	Double Bon	Order char. link	Order	Pull-down Group link	Color link	Counter	Totalizer	Discount totalizer
0 16	23	26	29	32	33	34	36	42	43	48	53	58

A-2-5-2 Department (periodic/consolidation)

File name: Department (periodic 1)   File No.: 105   Max. allocatable records: 99
File name: Department (periodic 2)   File No.: 205   Max. allocatable records: 99
File name: Department (daily consolidation)   File No.: 305   Max. allocatable records: 99
File name: Department (periodic 1 consolidation)   File No.: 405   Max. allocatable records: 99
File name: Department (periodic 2 consolidation)   File No.: 505   Max. allocatable records: 99
File name: Department (consolidation work)   File No.: 605   Max. allocatable records: 99

Counter	Totalizer	Discount totalizer
0 5	10	15

The contents of each field for PLU, department, subdepartment and PLU 2nd@

Program field for PLU, department, subdepartment, PLU 2nd@
Refer to the "Elementary program" on page 173 of the programming manual.

Link field (for PLU, subdepartment, department, PLU 2nd@)
Refer to the "Field 11-066" on page 174 of the programming manual.

Random code field (for PLU)
Refer to the "Field 12-066" on page 174 of the programming manual.

Set menu link field (for PLU)
Refer to the "Field 13-066" on page 174 of the programming manual.

Unit/minimum stock field (for PLU, PLU 2nd@)
Refer to the "Field 14-066-1/-2" on page 174 of the programming manual.

HALO field (for PLU, subdepartment, department)
Refer to the "Field 15-066" on page 174 of the programming manual.

Order character link field (for PLU, subdepartment, department)
Refer to the "Field 16-066" on page 174 of the programming manual.

Double Bon field (for PLU, subdepartment, department)
Refer to the "Field 17-066" on page 175 of the programming manual.

Order character link field (for PLU, subdepartment, department)
Refer to the "Field 20-066" on page 175 of the programming manual.

Pulldown group field (for PLU, subdepartment, department)
Refer to the "Field 21-066" on page 175 of the programming manual.

A-2-6. Group file

A-2-6-1 Group (daily)

File name: Group (daily)   File No.: 006   Max. allocatable records: 99

0	16	21	26
Character	Counter	Totalizer	

A-2-6-2 Group (periodic/consolidation)

File name: Group (periodic 1)	File No.: 106	Max. allocatable records: 99
File name: Group (periodic 2)	File No.: 206	Max. allocatable records: 99
File name: Group (daily consolidation)	File No.: 306	Max. allocatable records: 99
File name: Group (periodic 1 consolidation)	File No.: 406	Max. allocatable records: 99
File name: Group (periodic 2 consolidation)	File No.: 506	Max. allocatable records: 99
File name: Group (consolidation work)	File No.: 606	Max. allocatable records: 99

0	5	10
Counter	Totalizer	

File Format

A-2-7.　Clerk file

A-2-7-1　Clerk (programming)

File name: Clerk (programming)　　　　　　　File No.: 007　Max. allocatable records: 99

0	16	19	20	22	27	31	37	43	48	54
Character	Clerk interrupt check #	Drawer #	Clerk #	Clerk control	Commission rate	Table # range	Menu/@ control	Mode control	Function control (1)	

60	66	72	78	84	90	96
Function control (2)	Function control (3)	Function control (4)	Function control (5)	Arrangement control	Report control	not used

Commission rate

Refer to the "Commission rate" on page 159 of the programming manual.

Table range

Refer to the "Table range" on page 159 of the programming manual.

Clerk control

Refer to the "Record 01-067" on page 160 of the programming manual.

Menu/@ control

Refer to the "Record 02-067" on page 161 of the programming manual.

Mode control

Refer to the "Record 03-067" on page 162 of the programming manual.

Function control 1

Refer to the "Record 04-067" on page 163 of the programming manual.

Function control 2

Refer to the "Record 05-067" on page 164 of the programming manual.

Function control 3

Refer to the "Record 06-067" on page 165 of the programming manual.

Function control 4

Refer to the "Record 07-067" on page 166 of the programming manual.

Function control 5

Refer to the "Record 08-067" on page 167 of the programming manual.

Arrangement control

Refer to the "Record 09-067" on page 168 of the programming manual.

Report control

Refer to the "Record 10-067" on page 169 of the programming manual.

A-2-7-2   Clerk detail (daily, periodic / consolidation)

File name: Clerk detail (daily)   File No.: 011   Max. allocatable records: 9801
File name: Clerk detail (periodic 1)   File No.: 111   Max. allocatable records: 9801
File name: Clerk detail (periodic 2)   File No.: 211   Max. allocatable records: 9801
File name: Clerk detail (daily consolidation)   File No.: 311   Max. allocatable records: 9801
File name: Clerk detail (periodic 1 consolidation)   File No.: 411   Max. allocatable records: 9801
File name: Clerk detail (periodic 2 consolidation)   File No.: 511   Max. allocatable records: 9801
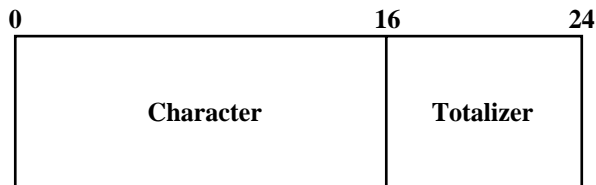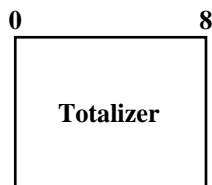File name: Clerk detail (consolidation work)   File No.: 611   Max. allocatable records: 9801

```
0          5          10
+----------+----------+
|          |          |
| Counter  | Totalizer|
|          |          |
+----------+----------+
```

A-2-7-3   Clerk detail link

File name: Clerk detail link   File No.: 030   Max. allocatable records: 99

```
0    2    4
+----+----+
|    |    |
| Record No. | File No. |
|    |    |
+----+----+
```

A-2-7-4   Clerk (i-Button) key ID

File name: Clerk (i-Button) key ID   File No.: 027   Max. allocatable records: 300

```
0                 12       17
+-----------------+--------+
|                 |        |
| i-Button key ID | Program|
|   character     |        |
|                 |        |
+-----------------+--------+
```

A-2-8.   Hourly sales file

A-2-8-1   Hourly sales (daily, periodic/consolidation)

File name: Hourly sales (daily)	File No.: 009	Max. allocatable records: 96
File name: Hourly sales (periodic 1)	File No.: 109	Max. allocatable records: 96
File name: Hourly sales (periodic 2)	File No.: 209	Max. allocatable records: 96
File name: Hourly sales (daily consolidation)	File No.: 309	Max. allocatable records: 96
File name: Hourly sales (periodic 1 consolidation)	File No.: 409	Max. allocatable records: 96
File name: Hourly sales (periodic 2 consolidation)	File No.: 509	Max. allocatable records: 96
File name: Hourly sales (consolidation work)	File No.: 609	Max. allocatable records: 96

```
0           5          10          15          20
┌──────────┬──────────┬──────────┬──────────┐
│ Counter  │ Totalizer│  No. of  │Merchandise│
│  (Net)   │  (Net)   │ customer │ subtotal  │
└──────────┴──────────┴──────────┴──────────┘
```

A-2-9.   Monthly sales file

A-2-9-1   Monthly sales (daily, periodic/consolidation)

File name: Monthly sales (daily)	File No.: 010	Max. allocatable records: 32 (fixed)
File name: Monthly sales (periodic 1)	File No.: 110	Max. allocatable records: 32 (fixed)
File name: Monthly sales (periodic 2)	File No.: 210	Max. allocatable records: 32 (fixed)
File name: Monthly sales (daily consolidation)	File No.: 310	Max. allocatable records: 32 (fixed)
File name: Monthly sales (periodic 1 consolidation)	File No.: 410	Max. allocatable records: 32 (fixed)
File name: Monthly sales (periodic 2 consolidation)	File No.: 510	Max. allocatable records: 32 (fixed)
File name: Monthly sales (consolidation work)	File No.: 610	Max. allocatable records: 32 (fixed)

```
0           5          10          15          20
┌──────────┬──────────┬──────────┬──────────┐
│ Counter  │ Totalizer│ Counter  │ Totalizer │
│ (Gross)  │ (Gross)  │  (Net)   │  (Net)    │
└──────────┴──────────┴──────────┴──────────┘
```

A-2-10. Hourly item file

A-2-10-1 Hourly item

File name: Hourly Item (daily)   File No.: 021   Max. allocatable records: 1920
File name: Hourly Item (periodic 1)   File No.: 121   Max. allocatable records: 1920
File name: Hourly Item (periodic 2)   File No.: 221   Max. allocatable records: 1920
File name: Hourly Item (daily consolidation)   File No.: 321   Max. allocatable records: 1920
File name: Hourly Item (periodic 1 consolidation)   File No.: 421   Max. allocatable records: 1920
File name: Hourly Item (periodic 2 consolidation)   File No.: 521   Max. allocatable records: 1920
File name: Hourly Item (consolidation work)   File No.: 621   Max. allocatable records: 1920

```
0        5       10
+--------+--------+
|        |        |
|Counter | Amount |
|        |        |
+--------+--------+
```

A-2-10-2 Hourly item link (Hourly production link)

File name: Hourly item link   File No.: 031   Max. allocatable records: 480

```
0   2   4
+---+---+
|Record|File|
| No. | No.|
+---+---+
```

Description	Choice	Program code
Link record No.	Significant number	D_8 D_7 D_6 D_5
Always "0"		0 D_4
Link file No.	Significant number	D_3 D_2 D_1

A-2-11. (future use)

A-2-12. IDC file

A-2-12-1 IDC file (1)

File name: IDC (1)	File No.: 057	Max. allocatable records: 9999
File name: IDC (1) (daily consolidation)	File No.: 357	Max. allocatable records: 9999
File name: IDC (1) (consolidation work)	File No.: 657	Max. allocatable records: 9999

0   **50**

```
┌──────────────────────────────────────────────────────┐
│                                                        │
│                      IDC Data                          │
│                                                        │
│                                                        │
└──────────────────────────────────────────────────────┘
```

A-2-12-2 IDC file (2)

File name: IDC (2)	File No.: 058	Max. allocatable records: 9999
File name: IDC (2) (daily consolidation)	File No.: 358	Max. allocatable records: 9999
File name: IDC (2) (consolidation work)	File No.: 658	Max. allocatable records: 9999

File structure is same as IDC file (1)

A-2-12-3 IDC file (3)

File name: IDC (3)	File No.: 059	Max. allocatable records: 9999
File name: IDC (3) (daily consolidation)	File No.: 359	Max. allocatable records: 9999
File name: IDC (3) (consolidation work)	File No.: 659	Max. allocatable records: 9999

File structure is same as IDC file (1)

Refer to the page 72 ~ 75 of this manual for each IDC data in detail.

A-2-12-4 IDC link

File name: IDC link   File No.: 804   Max. allocatable records: 999

0 1 2   4   6

```
┌─┬─┬────┬──────┐
│L│P│Rec.│File  │
│i│G│ord │No.   │
│n│M│No. │      │
│k│ │    │      │
└─┴─┴────┴──────┘
```

A-2-13. Time & Attendance file

A-2-13-1 Hourly / Labor

File name: Hourly / Labor   File No.: 014   Max. allocatable records: 96

0	5	10	13	18	21	26
Counter (Net)	Totalizer (Net)	Total labor hours (Fixed)	Total labor cost (Fixed)	Total labor hours (Not fixed)	Total labor cost (Not fixed)	

A-2-13-2. Work time file

File name: Work Time   File No.: 019   Max. allocatable records: 4158
File name: Work Time (daily consolidation)   File No.: 319   Max. allocatable records: 4158

Min. number of files to fix the work time:
    The number of employee $\times$ 7 (days) $\times$ 3 (shift) $\times$ 2 (weeks)
Max. allocatable records:
    $99 \times 7 \times 3 \times 2 = 4158$

Rec#001~#003: Correspond to Monday of Employee   Rec#001 (First week)
Rec#004~#006: Correspond to Tuesday of Employee   Rec#001 (First week)
Rec#007~#009: Correspond to Wednesday of Employee   Rec#001 (First week)
Rec#010~#012: Correspond to Thursday of Employee   Rec#001 (First week)
Rec#013~#015: Correspond to Friday of Employee   Rec#001 (First week)
Rec#016~#018: Correspond to Saturday of Employee   Rec#001 (First week)
Rec#019~#021: Correspond to Sunday of Employee   Rec#001 (First week)
Rec#020~#024: Correspond to Monday of Employee   Rec#001 (Second week)
Rec#025~#027: Correspond to Tuesday of Employee   Rec#001 (Second week)
Rec#028~#030: Correspond to Wednesday of Employee   Rec#001 (Second week)
Rec#031~#033: Correspond to Thursday of Employee   Rec#001 (Second week)
Rec#034~#036: Correspond to Friday of Employee   Rec#001 (Second week)
Rec#037~#039: Correspond to Saturday of Employee   Rec#001 (Second week)
Rec#040~#042: Correspond to Sunday of Employee   Rec#001 (Second week)

Rec#043~#045: Correspond to Monday of Employee   Rec#002 (First week)
           •
           •
           •

0	1	4	6	8	13	15	17	18
Job code	CLOCK-IN date	CLOCK-IN time	CLOCK-OUT time	Cash tip declare	WORK time	BREAK time	EDIT flag	

A-2-13-3. Time zone file

File name: Time zone   File No.: 800   Max. allocatable records: 24

Divide one day into some time zones, and assign the length of one cycle per zone.

Refer to page 52 of the programming manual for details.

A-2-13-4. Employee file

File name: Employee   File No.: 801   Max. allocatable records: 99

Refer to page 54 of the programming manual for details.

A-2-13-5. Job code file

File name: Job code   File No.: 802   Max. allocatable records: 50

Refer to page 53 of the programming manual for details.

File Format

A-2-13-6. Schedule file

File name: Schedule   File No.: 803   Max. allocatable records: 2079

Min. number of files to fix the work time: The number of employee × 7 days × 3 shift
Max. allocatable records: $99 \times 7 \times 3 = 2079$

Rec#001: Correspond to Monday Shift 1 of Employee Rec#001
Rec#002: Correspond to Monday Shift 2 of Employee Rec#001
Rec#003: Correspond to Monday Shift 3 of Employee Rec#001

Rec#004: Correspond to Tuesday Shift 1 of Employee Rec#001
Rec#005: Correspond to Tuesday Shift 2 of Employee Rec#001
Rec#006: Correspond to Tuesday Shift 3 of Employee Rec#001
                          ●
                          ●
Rec#021: Correspond to Sunday Shift 3 of Employee Rec#001

Rec#022: Correspond to Monday Shift 1 of Employee Rec#002
Rec#023: Correspond to Monday Shift 2 of Employee Rec#002
Rec#024: Correspond to Monday Shift 3 of Employee Rec#002

Rec#025: Correspond to Tuesday Shift 1 of Employee Rec#002
Rec#026: Correspond to Tuesday Shift 2 of Employee Rec#002
Rec#027: Correspond to Tuesday Shift 3 of Employee Rec#002
                          ●
                          ●

0	1	3	5	7	8	9	10	11
Job code	Start time	End time	Break time	Grace before start	Grace after start	Grace before end	Grace after end

A-2-14. Void table file

A-2-14-1 Void table (daily)

File name: Void table (daily)   File No.: 012   Max. allocatable records: 99

0		16	19	24	29
Character		Program	Counter	Totalizer	

Refer to page 47 of the programming manual for details.

A-2-14-2 Void table (periodic/consolidation)

File name: Void table (periodic 1)	File No.: 112	Max. allocatable records: 99
File name: Void table (periodic 2)	File No.: 212	Max. allocatable records: 99
File name: Void table (daily consolidation)	File No.: 312	Max. allocatable records: 99
File name: Void table (periodic 1 consolidation)	File No.: 412	Max. allocatable records: 99
File name: Void table (periodic 2 consolidation)	File No.: 512	Max. allocatable records: 99
File name: Void table (consolidation work)	File No.: 612	Max. allocatable records: 99

0	5	10
Counter	Totalizer	

A-2-15. Table analysis file

A-2-15-1 Table analysis (daily)

File name: Table analysis (daily)   File No.: 018   Max. allocatable records: 99

0		16	19	22	27	32
Character		Min. check #	Max. check #	No. of customer	Totalizer	

A-2-15-2 Table analysis (periodic/consolidation)

File name: Table analysis (periodic 1)	File No.: 118	Max. allocatable records: 99
File name: Table analysis (periodic 2)	File No.: 218	Max. allocatable records: 99
File name: Table analysis (daily consolidation)	File No.: 318	Max. allocatable records: 99
File name: Table analysis (periodic 1 consolidation)	File No.: 418	Max. allocatable records: 99
File name: Table analysis (periodic 2 consolidation)	File No.: 518	Max. allocatable records: 99
File name: Table analysis (consolidation work)	File No.: 618	Max. allocatable records: 99

0	5	10
Counter	Totalizer	

A-2-16. Grand total file

A-2-16-1 Grand total (daily)

File name: Grand total (daily)   File No.: 020   Max. allocatable records:3 (fixed)

```
0                      16           24
┌────────────────────────┬────────────┐
│                        │            │
│                        │            │
│      Character         │ Totalizer  │
│                        │            │
│                        │            │
└────────────────────────┴────────────┘
```

A-2-16-2 Grand total (periodic/consolidation)

File name: Grand total (periodic 1)   File No.: 120   Max. allocatable records: 3 (fixed)
File name: Grand total (periodic 2)   File No.: 220   Max. allocatable records: 3 (fixed)
File name: Grand total (daily consolidation)   File No.: 320   Max. allocatable records: 3 (fixed)
File name: Grand total (periodic 1 consolidation)   File No.: 420   Max. allocatable records: 3 (fixed)
File name: Grand total (periodic 2 consolidation)   File No.: 520   Max. allocatable records: 3 (fixed)
File name: Grand total (consolidation work)   File No.: 620   Max. allocatable records: 3 (fixed)

```
0          8
┌───────────┐
│           │
│           │
│ Totalizer │
│           │
│           │
└───────────┘
```

A-2-17. Customer file

A-2-17-1 Customer file

File name: Customer file   File No.: 037   Max. allocatable records: 200

0	6	7	31	55	79	103	127	133	134	135	140	145	150	170
Customer number	Title link	Customer name	Customer address 1	Customer address 2	Customer address 3	Customer address 4	Customer phone No.	Customer group link	Status	not used	Finalized GT	Discount GT	Not used	

A-2-17-2 Customer group file (daily)

File name: Customer group (daily)   File No.: 042   Max. allocatable records: 20

0	16	17	21	22	38	41	42	58	61	62	78	81	82	98	101	102	107	112	117	122
Customer group name	Type	Credit limit	Print control	Character	Rate	Tax status	Character	Rate	Tax status	Character	Rate	Tax status	Character	Rate	Tax status	Not used	Counter	Spent total	Not used	
				Discount 1			Discount 2			Discount 3			Discount 4							

A-2-17-3 Customer group (periodic/consolidation)

File name: Customer group (periodic 1)   File No.: 142   Max. allocatable records: 99
File name: Customer group (periodic 2)   File No.: 242   Max. allocatable records: 99
File name: Customer group (daily consolidation)   File No.: 342   Max. allocatable records: 99
File name: Customer group (periodic 1 consolidation)   File No.: 442   Max. allocatable records: 99
File name: Customer group (periodic 2 consolidation)   File No.: 542   Max. allocatable records: 99
File name: Customer group (consolidation work)   File No.: 642   Max. allocatable records: 99

0	5	10	15
Counter	Spent total	Not used	

A-2-17-3 Customer title

File name: Customer title   File No.: 123   Max. allocatable records: 9

0	8
Character	

File Format

A-2-18. General control file

A-2-18-1 General control

File name: General control

File No.: 022   Max. allocatable records: 44 (fixed)

```
0        6
┌────────┐
│        │
│Program │
│        │
└────────┘
```

Rec No.	Contents	Reference page (PGM manual)
001	Date order, Monetary mode	129
002	(not used)	---
003	Consecutive number	130
004	Rounding, Tax system	130
005	Receipt control (1)	131
006	Calculation, Operation control	132
007	(not used)	---
008	Report control (1)	133
009	Report control (2)	134
010	Receipt control (2), Till timer	135
011	(not used)	---
012	Report control (3)	136
013	Communication control	136
014	Report control (4)	137
015	Report control (5)	138
016	Time frame	139
017	Receipt control (3), Calculation method	140
018	Slip / Guest receipt control	141
019	Journal control (Electronic journal)	142
020	Message print control	142
021	Order control	143
022	Scanning control	143
023	Australian GST control (1)	143
024	Australian GST control (2)	144
025	Set menu, Condiment	144
026	Check tracking	145
027	Clerk interrupt	146
028	Display control	146
029	Menu sheet control (1)	---
030	(not used)	---
031	Menu sheet control (2)	146
032	Menu sheet control (3)	---
033	Menu sheet control (4)	---
034	Menu sheet control (5)	---
035	Time & Attendance	147
036	Store / Recall range	147
037	Auto check No. range	147
038	(not used)	---
039	Automatic creating customer No. range	---
040	(not used)	---
041	(not used)	---
042	Customer control (1)	148
043	Customer control (2)	148
044	Sound control	149

A-2-19. Special character file

A-2-19-1 Special character

File name: Special character

File No.: 023   Max. allocatable records: 78 (fixed)

0	16
Character	

Refer to page 112 of the programming manual for details.

A-2-20. Report header file

A-2-20-1 Report header

File name: Report header

File No.: 024   Max. allocatable records: 40 (fixed)

0	16
Character	

Refer to page 113 of the programming manual for details.

A-2-21. Tax table file

A-2-19-1 Tax table

File name: Tax table

File No.: 025   Max. allocatable records: 10

0	4	6	7		8	10	12	14	74
Rate	Max. amount	Table Rounding	Singapore rounding	Cal. type	Cyclic pattern	Cyclic value	Non cyclic value		**Actual value**

A-2-22. Pulldown group file

A-2-22-1 Pulldown group

File name: Pulldown group   File No.: 026   Max. allocatable records: 999

0	16	19	20	21	23	25	26	27	43	44	45	46	...	439	441	443	444	445	461	465
Character		Program	Win color link	Key type	Record No. 1	File No. 1	Key color link 1	not used	Keytop text 1	Record No. 2	File No. 2	Key color link 2	-------	Record No. 20	File No. 20	Key color link 20	not used	Keytop text 20	not used	

A-2-23. Set menu table file

A-2-23-1 Set menu table

File name: Set menu table   File No.: 028   Max. allocatable records: 999

0	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54
Record No. 1	File No. 1	Record No. 2	File No. 2	Record No. 3	File No. 3	Record No. 4	File No. 4	Record No. 5	File No. 5	Record No. 6	File No. 6	Record No. 7	File No. 7	Record No. 8	File No. 8	Record No. 9	File No. 9	Record No.10	File No.10	Record No.11	File No.11	Record No.12	File No.12	Record No.13	File No.13	Record No.14	

56	58	60	62	64	66	68	70	72	74	76	78	80
File No.14	Record No.15	File No.15	Record No.16	File No.16	Record No.17	File No.17	Record No.18	File No.18	Record No.19	File No.19	Record No.20	File No.20

A-2-24. Batch X/Z file

A-2-24-1 Batch X/Z

File name: Batch X/Z   File No.: 029   Max. allocatable records: 10

```
  0  1  2  3  4  5  6  7  8  9 10
 ┌──┬──┬──┬──┬──┬──┬──┬──┬──┬──┬──┐
 │P │M │X │X │X │X │X │X │X │X │  │
 │r │o │/ │/ │/ │/ │/ │/ │/ │/ │  │
 │o │d │Z │Z │Z │Z │Z │Z │Z │Z │  │
 │g │e │  │  │  │  │  │  │  │  │  │
 │r │  │c │c │c │c │c │c │c │c │  │
 │a │  │o │o │o │o │o │o │o │o │  │
 │m │  │d │d │d │d │d │d │d │d │  │
 │  │  │e │e │e │e │e │e │e │e │  │
 │  │  │(1)│(2)│(3)│(4)│(5)│(6)│(7)│(8)│  │
 └──┴──┴──┴──┴──┴──┴──┴──┴──┴──┴──┘
```

A-2-25. Receipt / Slip message file

A-2-25-1 Receipt / Slip message

File name: Receipt / Slip message   File No.: 032   Max. allocatable records: 96

0   40
┌──┐
│   │
│   │
│   **Character**   │
│   │
│   │
└──┘

Refer to page 110 of the programming manual for details.

A-2-26. Check endorsement message file

A-2-26-1 Check endorsement message

File name: Check endorsement message   File No.: 033   Max. allocatable records: 4

0   40
┌──┐
│   │
│   │
│   **Character**   │
│   │
│   │
└──┘

A-2-27. Arrangement file

A-2-27-1 Arrangement group (1) ~ (5)

File name: Arrangement group (1)	File No.: 038 Max. allocatable records: 9999
File name: Arrangement group (2)	File No.: 138 Max. allocatable records: 9999
File name: Arrangement group (3)	File No.: 238 Max. allocatable records: 9999
File name: Arrangement group (4)	File No.: 338 Max. allocatable records: 9999
File name: Arrangement group (5)	File No.: 438 Max. allocatable records: 9999

0   24

```
+------------------------------+
|                              |
|          Arrange             |
|        (character)           |
|                              |
+------------------------------+
```

A-2-28. Character recall file

A-2-28-1 Character recall

File name: Character recall   File No.: 039   Max. allocatable records: 9999

0   40

```
+------------------------------+
|                              |
|          Character           |
|                              |
+------------------------------+
```

A-2-29. Check print file

A-2-29-1 Check print

File name: Check print   File No.: 041   Max. allocatable records: 9

0 3

```
+---+
| C |
| o |
| n |
| t |
| r |
| o |
| l |
+---+
```
Control data

A-2-30. Graphic logo file

A-2-30-1 Graphic logo (external printer)

File name: Graphic logo (external printer)   File No.: 047   Max. allocatable records: 432 (fixed)
                                or 864 (fixed)

0   13

```
+--------------+
|              |
| Graphic data |
|              |
+--------------+
```

A-2-31. Scheduler file

A-2-31-1 Scheduler

File name: Scheduler

File No.: 062   Max. allocatable records: 99

Refer to page 42 of the programming manual for details.

A-2-32. Order character file

A-2-32-1 Order character

File name: Order character

File No.: 065   Max. allocatable records: 99

A-2-33. Euro program file

A-2-33-1 Euro program file

File name: Euro program

File No.: 099   Max. allocatable records: 3 (fixed)

Refer to page 155 of the programming manual for details.

A-2-34. Character conversion for CF file

A-2-34-1 Character conversion for CF file

File name: Character conversion for CF

File No.: 087   Max. allocatable records: 1000

A-2-35. Check# pop-up window definition file

A-2-35-1 Check# pop-up window definition file

File name: Check# pop-up window definition   File No.: 115   Max. allocatable records: 240 (fixed)

Refer to page 156 of the programming manual for details.

A-2-36. Clerk pop-up window definition file

A-2-36-1 Clerk pop-up window definition file

File name: Clerk pop-up window definition   File No.: 116   Max. allocatable records: 216

Refer to page 170 of the programming manual for details.

A-2-37. Sound file

A-2-37-1 Sound (1) ~ (10) file

File name: Sound (1)   File No.: 701   Max. allocatable records: 65000
File name: Sound (2)   File No.: 702   Max. allocatable records: 65000
File name: Sound (3)   File No.: 703   Max. allocatable records: 65000
File name: Sound (4)   File No.: 704   Max. allocatable records: 65000
File name: Sound (5)   File No.: 705   Max. allocatable records: 65000
File name: Sound (6)   File No.: 706   Max. allocatable records: 65000
File name: Sound (7)   File No.: 707   Max. allocatable records: 65000
File name: Sound (8)   File No.: 708   Max. allocatable records: 65000
File name: Sound (9)   File No.: 709   Max. allocatable records: 65000
File name: Sound (10)   File No.: 710   Max. allocatable records: 65000

Sound file: (in case of creating by PC)
1. .wav file
2. PCM recording
3. Sampling frequency; 11.025 / 22.050 / 44.100 kHz
4. 16 bit monaural

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A-2-38. System files

A-2-38-1 Key table

File name: Key table   File No.: 074   Max. allocatable records: 2 (fixed)

0	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48
1st Func code	1st Rec No.	2nd Func code	2nd Rec No.	3rd Func code	3rd Rec No.	4th Func code	4th Rec No.	5th Func code	5th Rec No.	6th Func code	6th Rec No.	7th Func code	7th Rec No.	8th Func code	8th Rec No.	1st Char code 1	1st Char code 2	2nd Char code 1	2nd Char code 2	3rd Char code 1	3rd Char code 2	4th Char code 1	4th Char code 2	

Key table record No.	Hard key code
001	not used
002	for Disp on/off

A-2-38-2 Touch screen key table

File name: Key table   File No.: 174   Max. allocatable records: 1950(fixed)

0	2	4	5	6	8	32
Func code	Rec No.	Key type	Color link	Bitmap link	Keytop text	

A-2-38-3 System connection table

File name: System connection table   File No.: 901   Max. allocatable records: 33

0	12	14	16	18	24
Logical ID	Distinct M/BM / CHK PGM Status	CHK PGM	not used	not used / Check cluster No.	IP address

Description	Choice	Program code
Logical ID characters (within 12 characters)	Significant characters	D_{24} D_{23} D_{22} D_{21} D_{20} D_{19} D_{18} D_{17} D_{16} D_{15} D_{14} D_{13}
Terminal: Oneself = 02, Others = 01	Significant numbers	D_{12} D_{11}
Check tracking master/backup master (program value): Master = 01, Backup master = 02, Self master = 03, Satellite = 00	Significant numbers	D_{10} D_9
Check tracking master/backup master (current value): Master = 01, Backup master = 02, Self master = 03, Satellite = 00	Significant numbers	D_8 D_7
Always "00000"		0 0 0 0 0 D_6 D_5 D_4 D_3 D_2
Check tracking cluster number (0 ~ 9) ("0" means no designation.)	Significant number	D_1

IP address: 192.168.0.0. ~ 192.168.255.255

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File Format

A-2-38-4 I/O parameter table

File name: I/O parameter table   File No.: 902   Max. allocatable records: 15

```
0           5
┌──────────┐
│          │
│          │
│  Program │
│          │
│          │
└──────────┘
```

Refer to page 48 ~ 50 of the programming manual for details.

A-2-38-5 Printer connection table

File name: Printer connection table   File No.: 903   Max. allocatable records: 99

```
0  1                13                25 2627
┌─┬───────────────┬───────────────────┬─┬─┐
│ │               │                   │ │ │
│T│               │                   │M│B│
│y│  Main ECR ID  │   Backup ECR ID   │a│a│
│p│               │                   │i│c│
│e│               │                   │n│k│
│ │               │                   │ │ │
└─┴───────────────┴───────────────────┴─┴─┘
```
Main printer No. / Backup printer No.

Refer to page 150 of the programming manual for details.

A-2-38-6 System error log

File name: System error log   File No.: 999   Max. allocatable records: 999

```
0    2    4    6  7  9    11
┌────┬────┬────┬─┬──┬─────┐
│    │    │    │ │  │     │
│Ter │Date│Time│O│Er│Error│
│min │    │    │p│ro│func │
│al  │    │    │e│r │tion │
│No. │    │    │r│co│     │
│    │    │    │a│de│     │
│    │    │    │t│  │     │
│    │    │    │i│  │     │
│    │    │    │o│  │     │
│    │    │    │n│  │     │
└────┴────┴────┴─┴──┴─────┘
```

Refer to page 92, 202, 203 of this manual for details.

A-2-38-7 Auto program control

File name: Auto program control   File No.: 905   Max. allocatable records: 20

```
0    2 3
┌────┬─┐
│    │ │
│File│P│
│No. │r│
│    │o│
│    │g│
│    │r│
│    │a│
│    │m│
└────┴─┘
```

Refer to page 57 of the programming manual for details.

A-2-38-8 LCD color control

File name: LCD color control   File No.: 906   Max. allocatable records: 99

```
0           8
┌──────────┐
│          │
│          │
│  Program │
│          │
│          │
└──────────┘
```

Refer to page 58 of the programming manual for details.

A-2-38-9 Keyboard color definition

File name: Keyboard color definition   File No.: 907   Max. allocatable records: 100

```
0                        9
┌────────────────────┐
│                    │
│     Program        │
│                    │
└────────────────────┘
```

Refer to page 63 of the programming manual for details.

A-2-38-10 Keyboard color theme

File name: Keyboard color theme   File No.: 908   Max. allocatable records: 100

```
0                        9
┌────────────────────┐
│                    │
│     Program        │
│                    │
└────────────────────┘
```

Refer to page 62 of the programming manual for details.

A-2-38-11 Keyboard bitmap image

File name: Keyboard bitmap image   File No.: 910   Max. allocatable records: 60000

```
0                                                              176
┌──────────────────────────────────────────────────────────────┐
│                                                                │
│                          Data                                  │
│                                                                │
└──────────────────────────────────────────────────────────────┘
```

Bitmap file: (in case of creating by PC)
1. Windows bitmap file (1 picture consumes 200 records.)
2. Max. 16.77 million color
3. No. of single key + 2 x No. of double key + 4 x No. of quadruple key is less than or eqaul to 300.
4. Size

(dots)	Field A	Field B	Field C
Single key	56 x 48	53 x 48	58 x 58
Horizontal double key	118 x 48	113 x 48	130 x 58
Vertical double key	56 x 106	53 x 106	58 x 130
Quadruple key	118 x 106	113 x 106	130 x 130

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File Format

A-2-38-12 TCP/IP control

File name: TCP/IP control   File No.: 900   Max. allocatable records: 4

0   6

```
┌─────────┐
│         │
│ Program │
│         │
└─────────┘
```

Refer to page 63 of the programming manual for details.

A-2-38-13 Wireless LAN control

File name: Wireless LAN control   File No.: 899   Max. allocatable records: 1

0 **5**	**37**	**63**
Program	**ESS-ID character**	**WEP KEY character**

Refer to page 63 of the programming manual for details.

A-3. Counter and Totalizer calculation method

The following calculation methods of fixed totalizer memories are explained in this chapter.

All formulas in these explanations are calculated in the registration mode.
In the REF mode, the values in totalizers are calculated using the opposite sign.
In the REG– mode, the value in totalizers and counters are calculated using the opposite sign.

A-3-1   Fixed totalizer file

Total or counter	Increments or Decrements by
Gross sales quantity	Number of products registered for Departments + Subdepartments + PLUs (non hash) {For Department, Subdepartment and PLUs Single items : +1 Multiplication : Input quantity Split price : Input quantity Square : Input quantity × Input quantity Cube : Input quantity × Input quantity × Input quantity} – Last item void – Return item – Previous item void – Cancel
Gross sales amount	Amount of products registered for Departments + Subdepartments + PLUs (non hash) {For Department, Subdepartment and PLUs Single items : Preset or manually input prices Multiplication : Preset or manually input prices × Input quantity Split price : (Preset or manually input prices / Input unit quantity) 　　　　　　　　　× Input quantity Square : Preset or manually input prices × Input quantity 　　　　　　　　　× Input quantity Cube : Preset or manually input prices × Input quantity 　　　　　　　　　× Input quantity × Input quantity} – Last item void – Return item – Previous item void – Cancel
Net sales quantity	+1 (When a transaction is finalized for sale. For REG– mode –1 is affected.)
Net sales amount	Amount at the finalization (exclude tip): {Department + Subdepartment + PLU product registration amounts (non full hash) – Last item void amounts for the above – Item return amounts for the above – Previous item void amounts for the above – Cancel amounts for the above} + {Plus (+ key) + Premium (%+ key) – Error correction amounts – Cancel amounts} – {Minus (– key) + Discount(%– key) + Coupon – Error correction amounts – Cancel amounts} + Results of tax table calculations (add-on tax)
Medium in drawer (Cash, charge, check, credit)	Sales total or tendered total by specified medium + Received on account total (Cash in drawer only) – Paid out (Cash in drawer only) + Check cashing (Check in drawer only) + Loan totals by selected medium – Pick up totals by selected medium – Change amounts generated with the specific medium (Cash in drawer only) – Total of check cashing transaction (Cash in drawer only) – corrected amount by <MEDIA CHANGE> key + correcting amount by <MEDIA CHANGE> key

Total or counter	Increments or Decrements by
Number of REF mode	+1 (When cash sales, charge sales, credit sales, and check sales transaction are finalized in the REF/REG– mode.)
Refund mode amount	Absolute value of total sales amount for REF/REG– mode registrations.
Customer count	Entered number of covers or +1
Average sales per customer	Net sales amount / Customer count
Check cashing service fee	+ Check amount × Service ratio or + Service fee amount
New balance fee	+ MD/ST amount × Service charge ratio or + Service charge fee amount
Clerk commission total	Item sales (commissionable) × Clerk commission rate
Foreign currency in drawer	Entered amount in foreign currency.
Reduction	+ Registered amount of Minus, %- key
Item return amount	+ Registered item amount by RF, Void key
Clear count	+ 1 (REG, REF, REG– mode) (When the <CLEAR> key is pressed.)
Rounding	+ Fraction amount by roundings (Roundings include IF1/2, Denmark, Norway, Singapore, Finland, Australia and New Zealand.)
ST transfer void	+ Void total of ST transfer
Taxable amount	Subtotal of taxable amount at finalization of sale (in case of add-on tax) Subtotal of taxable amount / (1 + VAT rate) at finalization of sale (in case of add-in tax)
Tax amount	Result of calculation using tax table for taxable amount at finalization of sales (in case of add-on tax) Subtotal of taxable amount - Taxable amount calculated above Grand total of net sales totals
Tax exempt	Exempted taxable subtotal amount
Euro in drawer	Sales total or tendered total by specified medium in Euro
Coupon	Coupon total
Money declaration	+1 (when money declaration is performed.)
GT 1	Grand total of net sales total
GT 2	Registrations absolute value: {Registration amount (Department, Subdepartment, PLU) + Last item void amount + Previous item void amount + Refund amount} + {Plus, Minus, Premium, Discount, Coupon + Last item void amount}
GT 3	Net sales total – add-on tax – add-in tax – commission

Calculation method

Error messages

A-4. Error messages

A-4-1 Error messages

When an error occurs on a QT-6000 terminal, a buzzer sounds and the appropriate error message appears on the main display, indicating what action to take.
The following table lists the error messages and describes the action to take.

Prompt message	Meaning	Action
Operator mistake.	Operation error	Perform proper operation.
E001 Wrong mode.	Check tracking (Open mode error)	Return the mode to its original setting.
E003 Wrong operator.	Error clerk/Error clerk in check tracking	Input correct check number or assign the proper clerk.
E005 Insufficient memory.	Memory allocation over	Reallocate memory.
E011 Close the drawer.	Drawer compulsory	Close cash drawer.
E012 Journal paper end.	Journal paper end	Replace journal paper.
E014 Receipt paper end.	Receipt paper end	Replace receipt paper.
E015 Check R/J printer.	Internal R/J printer error	Check the internal R/J printer.
E016 Change back to REG mode.	Prohibit plural operation in REF/REG– mode	Switch to another mode and then back to the REF/REG– mode again.
E017 Enter Check/TBL number.	Check number compulsory	Input a check number.
E018 Enter Table number.	Table number compulsory	Input a table number.
E019 Enter Number of covers.	Cover compulsory	Enter the number of customers.
E020 Enter Seat number.	Seat number compulsory	Input a seat number.
E023 Stock running short.	Alarm when any item drops below its programmed minimum stock quantity during registration.	Perform stock maintenance.
E024 No stock is available.	Error when actual stock value for a registration items is a negative value.	Perform stock maintenance.
E028 Not found PLU or C/D is mismatch.	Scanning PLU is not found or OBR code is mismatched.	Re-enter the PLU code.
E029 No registration is possible while you are in the tender operation.	Attempted registration whilst partial tender operation is being done.	Finalize the transaction.
E031 Press ST key before Finalization.	ST compulsory	Press ST key.
E033 Enter tendered amount.	Amount tender compulsory	Enter tendered amount.
E035 Change amount exceeds the limit.	Change amount exceeds the limit.	Enter amount tendered again.
E036 Remove money from the drawer.	Contents of the drawer exceed the programmed limit — Sentinel function.	Perform pickup operation.
E037 Digit or Amount Limitation Over.	H.D.L., H.A.L., L.D.L. error	Enter correct unit price/amount.
E038 Perform Money Declaration	Money declaration compulsory	Perform money declaration.
E040 Issue Guest Receipt.	Guest receipt compulsory	Issue a guest receipt.
E041 Print Validation.	Validation compulsory	Perform validation operation.
E044 Print Cheque.	Check print compulsory	Perform check print operation.
E045 Print Check-Endorsement.	Check endorsement compulsory	Perform check endorsement operation.
E046 REG Buffer Full. Please Finalize or NB.	Registration buffer full	Finalize the transaction. Allocate sufficient buffer.
E047 Print bill.	Slip compulsory	Perform slip printing operation.
E048 Insert Slip Paper and retry.	Alarm when no paper is inserted in the Slip.	Insert new slip paper.
E049 CHECK memory full.	Check tracking index full/near end	Finalize and close the check number currently used.
E050 Detail memory full.	Check tracking memory full/near end	Finalize and close the check number currently used.
E051 CHK/TBL No. is occupied.	Attempt is made to use the <NEW CHECK> key to open a new check using a number that is already used for an existing check tracking memory.	Finalize and close the check that is currently under the number that you want to use or use a different check number.
E052 CHK/TBL No. is Busy.	Attempt to use the same check number whilst the specified number is being used in the other terminal.	Use another check number or close the check at that terminal.
E053 CHK/TBL No. is not opened.	Check number not found	Use the correct check number (if you want to reopen a check that already exists in the check tracking memory) or use <NEW CHECK> to open a new check.
E054 Out of CHK/TBL No. Range.	Check number range over	Enter correct number.
E056 Store range full.	All check number are occupied in range.	Recall the stored data.
E057 No item exists in detail.	Round repeat cannot be found in detail.	
E058 Enter post entry item.	Post entry item exists in detail.	Enter Post entry item.
E059 Press Eat-in or Take-out key.	Press eat-in or take-out key.	Press Eat-in or Takeout key.
********** E060 Printer offline.	Printer offline. "****" means ECR logical ID and printer number.	
********** E061 Printer error.	Printer downed. "****" means ECR logical ID and printer number.	The contents are printed on the backup printer.

Prompt message	Meaning	Action

`*********`
`E061 Printer error.`
`  YES:Retry to print.`
`  NO :Backup to R/J printer.`
`  ESC:Discard data.`
	Printer downed. "****" means ECR logical ID and printer number.	Follow the prompt message.

`*********` `E062 Printer paper end.`	Paper near-end/end "****" means ECR logical ID and printer number.	The contents are printed on the backup printer.

`*********`
`E062 Printer paper end.`
`  YES:Retry to print.`
`  NO :Backup to R/J printer.`
`  ESC:Discard data.`
	Paper near-end/end "****" means ECR logical ID and printer number.	Follow the prompt message.

`E064 Printer buffer full.`
`  YES:Retry to print.`
`  NO :Backup to R/J printer.`
`  ESC:Discard data.`
	Print buffer full at sender side	Follow the prompt message.

`*********`
`E070 Terminal out of action.`
`    Cannot print.`
	Down at target ECR which has printer "****" means ECR logical ID and printer number.	

`*********`
`E071 Target terminal printer`
`     BF full.`
`  YES:Retry to print.`
`  NO :Backup to R/J printer.`
`  ESC:Discard data.`
	Printer buffer full at target ECR which has printer "****" means ECR logical ID and printer number.	Follow the prompt message.

`*********`
`E072 Target printer terminal`
`     is busy.`
	Busy at target ECR which has printer "****" means ECR logical ID and printer number.	

`*********`
`E073 Your receipt/order may not be`
`     issued.`
`  YES:Retry to print.`
`  NO :Backup to R/J printer.`
`  ESC:Discard data.`
	Time out at ECR which has printer "****" means ECR logical ID and printer number.	Follow the prompt message.

`E075 Negative Balance,` `     cannot be finalized.`	Attempted finalization when balance is less than zero.	Register item(s) until the balance becomes positive amount.
`E080 Electronic Journal Full` `     Please clear E-Journal.`	Electronic journal full	Reset the electronic journal memory.
`E082 ***** Illegal Data *****`	Illegal Electronic journal data	
`E083 Cannot create E-Journal.` `    Check Flash memory.`	Electronic journal file cannot be created.	Check flash memory.

`*********`
`E105 Check/TBL tracking Master`
`     down. Please call Manager!!`
` YES:Retry for connection.`
` NO :Remove it from system.`
	CHK master down "****" means ECR logical ID.	Follow the prompt message.

`*********`
`E106 Check/TBL tracking Backup`
`     master down. Please call`
`     Manager!!`
` YES:Retry for connection.`
` NO :Remove it from system.`
	CHK BM down "****" means ECR logical ID.	Follow the prompt message.

`*********`
`E107 Both Master&Backup master`
`     down. CHK/TBL tracking or`
`     Clerk interrupt is not`
`     available.`
	CHK M/BM down "****" means ECR logical ID.	

`*********`
`E108 CHK/TBL Master is removed`
`     from system.`
	Master down then take it off from system "****" means ECR logical ID.	

`*********`
`E109 CHK/TBL Backup master is`
`     removed from system.`
	Backup master down then take it off from system "****" means ECR logical ID.	

`E110 CHK data mismatch between` `     Master and Backup master.`	Data mismatch has occurred.	
`E130 Middle of Pick up or Loan` `     Press Cancel Key.`	During picking up	Follow the prompt message.
`E131 Middle of <Bill Copy>` `     Press Cancel Key.`	During bill copy	Follow the prompt message.
`E133 Middle of <Media Change>` `     Press Cancel Key.`	During media change	Follow the prompt message.

Error messages

Prompt message	Meaning	Action
E134 Middle of Clerk Transfer Press ESC Key.	During clerk transfer	Follow the prompt message.
E136 Middle of Separate Check Press ESC key.	During separate check	Follow the prompt message.
E139 Not allowed to be negative by Minus/Coupon key.	Credit balance error	Enter proper minus/coupon amount.
E140 Wrong menu.	This sheet holder is prohibited by program.	Set correct sheet holder.
E141 Press <TRAY TTL> twice before finalization.	<TRAY TOTAL> key is not pressed twice before finalization.	Follow the prompt message.
E145 Arrangement syntax error.	Arrangement syntax error	Program the arrangement again.
E150 Incorrect value entry.	Incorrect entry for PGM	Enter proper value again.
E151 Incorrect Key Pressed.	Linking is incorrect.	Enter proper key again.
E152 PGM File or Memory number does not Exist.	No such file, no such record	Enter file/record number again.
E164 Employee No. is not Found in the Employee File.	Employee No. is not set in the Employee File.	Enter employee number again.
E165 Employee No. is not Clocking-in.	Employee has not done CLOCK-IN operation yet.	Perform CLOCK-IN operation.
E166 Employee No. is Occupied.	Employee who has done CLOCK-IN operation attempts to operate CLOCK-IN again.	Enter the proper employee number again.
E167 Incorrect Job code.	Employee attempts to operate CLOCK-IN with incorrect JOB code.	Enter proper job code.

E168 Your Operation is out of
   Schedule.
   Please Call Manager.
	Employees operate CLOCK-IN/OUT in not allowance time.	Follow the prompt message.

E169 Work Hours Exceeded. Please Call Manager.	Overtime work.	Follow the prompt message.

E170 No Shift Remains in the
   Schedule.
   You cannot Clock-in.
	There is no available shift left.	

E171 Please Break-out and Retry.	Employee attempts to operate CLOCK-OUT whilst he/she is in a break time.	Follow the prompt message.
E172 Break Hours Exceeded. Please Call Manager.	Break hours are exceeded.	Follow the prompt message.
E173 This employee is at work now.	Employee is at work without break.	
E174 This employee is taking a break now.	Employee who has not done BREAK-OUT operation attempts to operate BREAK-IN.	

E175 Please Clock-in/Break-out
   before you sign on.
   or Please Call Manager.
	Sign on after you clock-in or break out.	Follow the prompt message.

E176 You cannot Clock-in. Please reset Employee Report.	Employee Report has not been reset.	Follow the prompt message.

E177 Time&Attendance Data
   Communication Error.
   Please Call Manager.
	Time & Attendance Data communication error.	Follow the prompt message.

E180 IDC FILE (1) memory full. Please clear IDC data.	IDC FILE (1) memory is full of items.	Follow the prompt message.
E181 IDC FILE (2) memory full. Please clear IDC data.	IDC FILE (2) memory is full of items.	Follow the prompt message.
E182 IDC FILE (3) memory full. Please clear IDC data.	IDC FILE (3) memory is full of items.	Follow the prompt message.
E200 Insert CF Card.	CF card is not inserted to the slot.	Insert CF card.
E201 Format error.	CF card data or formats illegal.	Check the CF card.
E203 Insufficient memory.	Insufficient memory is remained in CF card.	Format or use a new CF card.
E205 The file already exists. Do you replace? YES:Replace the file. NO :Input new name.	File name duplication error	Follow the prompt message.
E240 Customer No. is occupied.	Attempt is made to set a customer that already exists in the customer file.	Enter proper customer No.
E241 Customer memory full.	Customer file becomes full.	Delete unnecessary customer No.
E242 Customer not found.	This customer does not exist.	Enter proper customer No.
E243 Illegal Site ID.	The site No. of the file does not coincide with the No. of the card.	Swipe the proper magnetic card.
E244 Credit limit over.	Attempt to transfer when the balance is over than the credit limit	Release credit limit by OPEN2 Make minus, void, or refund operation to decrease the balance under the credit limit. Perform finalization or cancellation.
E251 Magnetic card error.	This card cannot be read. This card format is illegal.	Swipe the magnetic card again. Swipe the proper magnetic card.
E252 Enter customer name.		Follow the prompt message.
E253 Enter address.		Follow the prompt message.
E254 Enter phone number.		Follow the prompt message.

A-4-2 Operation prompt

All prompt messages, together with descriptors and symbol characters for displaying / printing are contained in the list below. These messages cannot be added, modified or deleted.

Prompt message	Meaning
Data cannot be printed out. Backup to R/J printer?	Request to check the X / Z report data which cannot be printed out.
Do you want to clear data?	Confirmation to reset displayed report.
Cancel OK?	Confirmation of all void operation.
Please wait.	Please wait. ECR now processing.
Item Consolidation Mode	In the item consolidation mode.
Non Consolidation Mode	Not in the item consolidation mode.
REG Mode	Mode change : REG mode
REFUND Mode	Mode change : REF mode
REG- Mode	Mode change : REG– mode
Training	Signing on a training operator
REG2 Mode	Mode change : REG2 mode
Please Sign on.	The terminal is in signed off.
Enter Check/Table Number.	CHK# compulsory
Enter Table Number.	TBL# compulsory
Enter Number of covers.	Covers compulsory
Enter Seat Number.	Seat# compulsory
Perform Slip Printing.	Slip compulsory
Issue Guest Receipt.	GUEST RCT compulsory
Perform Validation Printing.	VLD compulsory
Perform Check Printing.	CHK-PRT compulsory
Perform Check Endorsement.	CHK-END compulsory
Operation Code?	Enter secret number for REG 2 mode.
Re_configuration...	During system reconfiguration
Re_configuration end	System reconfugiration ends
Clock-in OK?	Time and attendance clock-in operation
Clock-out OK?	Time and attendance clock-out operation
Break-in OK?	Time and attendance break-in operation
Break-out OK?	Time and attendance break-out operation
Enter cash tip amount and press <YES> key.	Time and attendance tip declaration compulsory
Communication Error	Communication error during clock-in
This procedure stops system maximum 60 sec. OK ?	Alert before flash memory clear.
Enter #	Registering Non-add after RC / PD.
Enter Alphacode!	To search the appropriate item, enter goods name.
Items not found!	Items cannot be found by item searching.

Error messages

A-4-3   System error code

All error codes are contained in the list below. These error codes are displayed or printed on error log report.

Error code	Meaning
0010	Handler access error (software)
0011	Cannot execute handler (system configuration)
0012	Break by PC
0013	Break by ECR
0014	DSR off before receiving command packet
0015	Receive illegal command number of command packet
0016	Receive illegal character
0017	Send error (hardware)
0018	Receive error (hardware)
0019	Receive illegal data packet
0020	No response error
0021	Receive illegal command phase
0022	Received illegal packet
0023	CNET receive error
0024	Illegal termination by sender
0025	Received illegal packet during receiving data packets
0026	Not enough data packets received
0040	No "H" information
0041	No "I" information
0042	No "F" information
0044	Illegal packet format
0045	No file exists
0046	Illegal block
0047	Illegal command packet
0048	Illegal command No. (Not CMD)
0049	Illegal command No. (Not DATA)
0050	Sequence error
0051	Turn off DSR signal
0052	Received cancellation
0053	Retry over while waiting command
0054	Retry over while waiting EOT
0055	Retry over while waiting data
0056	Received EOT
0057	Retry over while waiting ACK
0058	Retry over while sending data
0059	Retry over while waiting "C"
0060	Retry over while sending response
0061	Retry over while excluding
0064	Break end
0065	Error during printing report header
0066	Error during printing report data
0067	Error during printing report data in work file
0068	Error during printing report data in consolidation file
0069	Work file clear error
0070	Consolidation file clear error
0071	Z lock error
0072	Z clear error
0073	Z lock release error
0074	Error during accumulating to consolidation file
0075	Error during copying report data from terminal memory to work
0076	Error during copying stock data to terminal memory
0077	Z lock error on satellite terminal
0078	No appropriate file is exist on satellite terminal during collection/consolidation

Error code	Meaning
0079	Z lock release error on satellite terminal
0081	Check tracking master is removed from system.
0082	Check tracking backup master is removed from system.
0128	Parameter error / Maximum length of send error
0130	Error drive
0134	Network parameter error
0138	Detect error in core system
0140	Parameter error (record length exceeds work buffer)
0141	EOF over
0144	Calculation overflow
0145	Undefined value of n_open () mode
0146	Mismatch of type when closing network
0147	Parameter error
0152	Defined NCB is not network resource
0153	Retry over by the target busy
0155	Sequence error
0156	No port exists
0158	Target port in use
0160	Error while getting priority
0161	Fail to change temporary priority
0162	Error semaphore operation to keep resource
0163	Fail to get new sled
0164	Error while getting semaphore
0165	Error to operate semaphore
0166	Error during delay
0167	Error during termination
0168	Error when resource return
0170	Error during getting task ID
0171	No code is found while search/pick up
0172	Cannot get work buffer
0173	File opened/fail to activate task
0174	No file exists
0175	ITRON service error
0176	Cannot create file
0177	Record number error
0178	Detect error while memory area opening
0179	Detect error while returning mail box / double create error
0180	Detect error while handling memory
0190	RCB is not mail box resource
0192	Error send message ID
0194	Send message length over
0197	Ending response
0198	Time out while waiting for ending response / no receive message
0202	No free FCB
0204	Memory capacity shortage
0205	Fail to create mail box
0209	Cannot find the coincide PCB resource
0210	Cannot find the coincide RCB resource
0232	ID collision when network starts
0233	Cannot find the target ID
0235	Protocol error
0247	Stop token

Error messages

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