

TE-7000S/8000F/8500F

Electronic Cash Register

Reference Manual

Version 1.0 February 2003



CASIO[®]

This manual is intended to be used as a reference to the TE-7000S series 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 TE-7000S series programming manual.

This manual consists of the following chapters:

1. Introduction
This chapter describes the concepts of development of the TE-7000S series system.
 2. Hardware configuration
This chapter outlines the hardware, optional devices and configurations of TE-7000S series system.
 3. Application systems
This chapter outlines the application system and overviews the function provided for the TE-7000S series system.
 4. Manager operation
This chapter explains the manager operations to use TE-7000S series 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

Manual version	Software version	
Version 1.0: February 2003	First Edition: February 2003	Version 1.0

Revised points

Introduction

The TE-7000S series 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 TE-7000S series 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 TE-7000S series system is equipped with these functions by utilizing high-speed in-line data transfer system.

– Versatile terminal

With the TE-7000S series 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

Silent receipt/journal printer, multi-line color LCD

In addition to the above, the TE-7000S series is also a terminal following characteristics:

– Expandability

The TE-7000S series system can be connected to various peripheral devices (slip printer, modem, a personal computer, etc.)

– Reliability

The TE-7000S series 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.

To prevent malfunctions caused by the weak batteries, charge the memory protection batteries for over 12-hours before installation or after a long-time vacation (over 30 days).

- **Before installation, initialize the terminal and leave it turn on over 12-hours.**
- **After a long-time 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.**

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Hardware Configuration

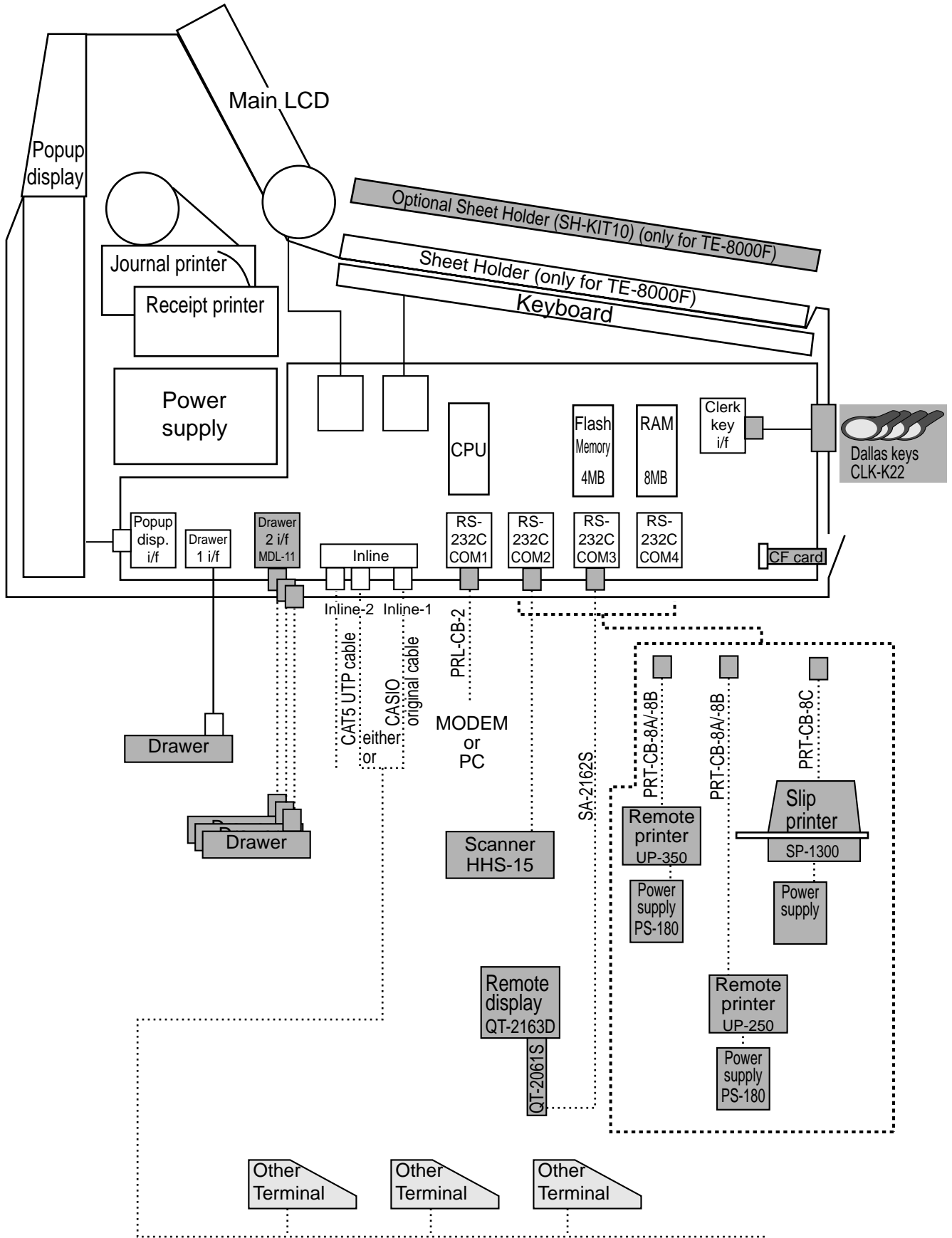
1. Hardware configuration

This section outlines the hardware, optional devices, and configurations of the TE-7000S series (TE-7000S, TE-8000F and TE-8500F) system.

1-1. General configuration



1-2. Hardware diagram



Note: Shaded device and dot line indicate option devices.

Hardware Configuration

1-3. Keyboard

1-3-1. Standard keyboard

TE-7000S

RECEIPT FEED	JOURNAL FEED		C	X	VOID		RC	PD	6	12	18	24	MENU	ESC/SKIP
RECEIPT	OPEN						PRICE	LIST#	5	11	17	23	CR1	CR2
MEDIA CHANGE	#/NS		7	8	9		COVERS	TABLE TRANS	4	10	16	22	CH	CHK/TEND
%-	PLU		4	5	6	YES	↑	PAGE UP	3	9	15	21	NEW/OLD CHK	NB
-			1	2	3	←	HOME	→	2	8	14	20	SUBTOTAL	
RF	CANCEL		0	00	•	NO	↓	PAGE DOWN	1	7	13	19	CA/AMT TEND	

TE-8000F

RECEIPT FEED	JOURNAL FEED	RC	PD	ESC/SKIP
RECEIPT	OPEN	NO	↑	PAGE UP
MENU	-	←	HOME	→
RF	%-	YES	↓	PAGE DOWN
C	X	VOID	CANCEL	#/NS
7	8	9	CR	CHK/TEND
4	5	6	NEW/OLD CHK	NB
1	2	3	SUBTOTAL	
0	00	•	CA/AMT TEND	

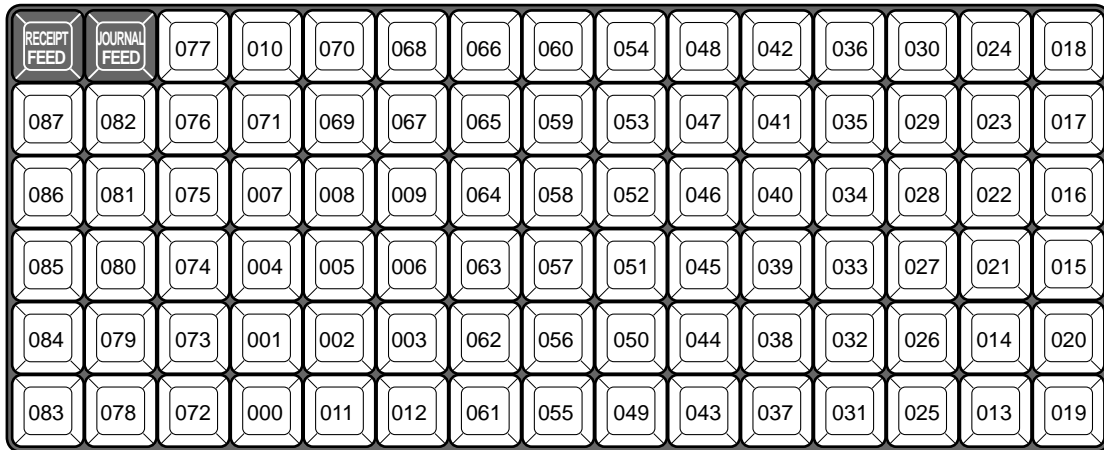
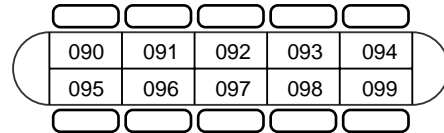
9	18	27	36	45	54	63	72	81	90	99	108
8	17	26	35	44	53	62	71	80	89	98	107
7	16	25	34	43	52	61	70	79	88	97	106
6	15	24	33	42	51	60	69	78	87	96	105
5	14	23	32	41	50	59	68	77	86	95	104
4	13	22	31	40	49	58	67	76	85	94	103
3	12	21	30	39	48	57	66	75	84	93	102
2	11	20	29	38	47	56	65	74	83	92	101
1	10	19	28	37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

TE-8500F

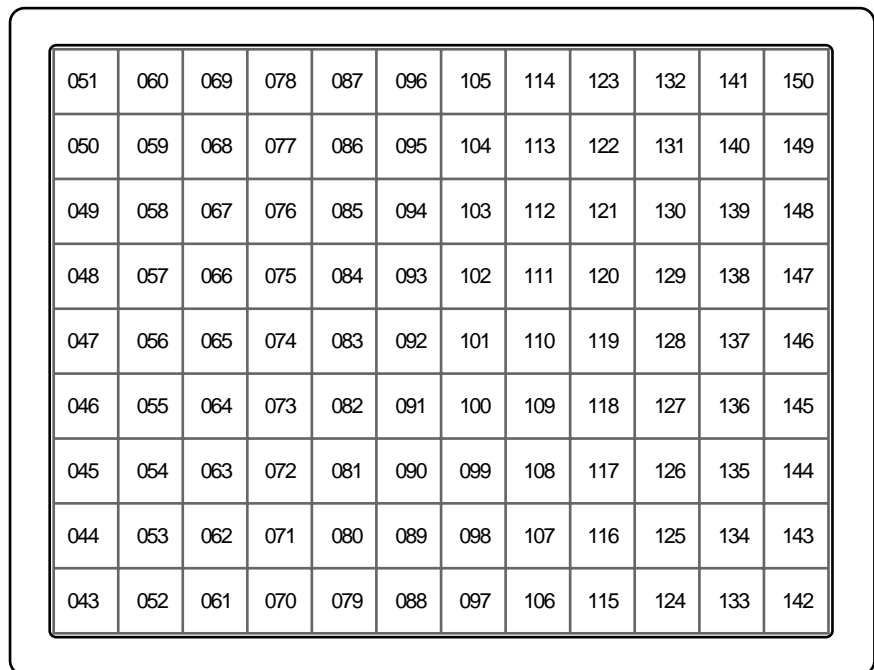
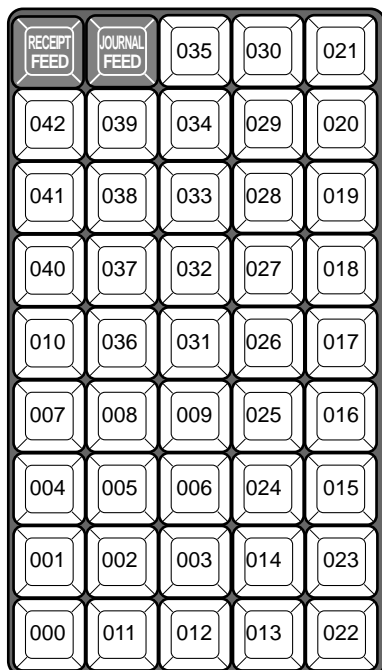
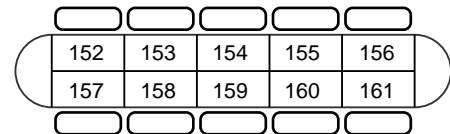
RECEIPT FEED	JOURNAL FEED												RECEIPT	MENU	RC	PD	ESC/SKIP
		25	34	43	52	61	70	79	88	97	106		COVERS	TABLE TRANS	NO	↑	PAGE UP
8	16	24	33	42	51	60	69	78	87	96	105		%-	-	←	HOME	→
7	15	23	32	41	50	59	68	77	86	95	104		RF	OPEN	YES	↓	PAGE DOWN
6	14	22	31	40	49	58	67	76	85	94	103		C	X	VOID	CANCEL	#/NS
5	13	21	30	39	48	57	66	75	84	93	102		7	8	9	CR	CHK/TEND
4	12	20	29	38	47	56	65	74	83	92	101		4	5	6	NEW/OLD CHK	NB
3	11	19	28	37	46	55	64	73	82	91	100		1	2	3	SUBTOTAL	
2	10	18	27	36	45	54	63	72	81	90	99		0	00	•	CA/AMT TEND	
1	9	17	26	35	44	53	62	71	80	89	98						

1-3-2. Hard key code of keyboard

TE-7000S

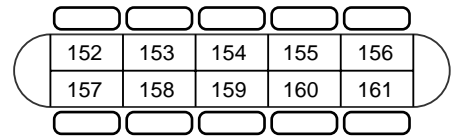


TE-8000F



Hardware Configuration

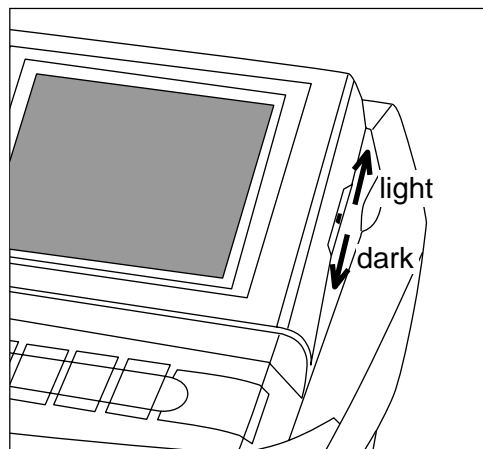
TE-8500F



RECEIPT FEED	JOURNAL FEED	067	076	085	094	103	112	121	130	139	148	042	038	033	028	021
050	058	066	075	084	093	102	111	120	129	138	147	041	037	032	027	020
049	057	065	074	083	092	101	110	119	128	137	146	040	036	031	026	019
048	056	064	073	082	091	100	109	118	127	136	145	039	035	030	025	018
047	055	063	072	081	090	099	108	117	126	135	144	010	034	029	024	017
046	054	062	071	080	089	098	107	116	125	134	143	007	008	009	023	016
045	053	061	070	079	088	097	106	115	124	133	142	004	005	006	022	015
044	052	060	069	078	087	096	105	114	123	132	141	001	002	003	014	
043	051	059	068	077	086	095	104	113	122	131	140	000	011	012	013	

1-4. Display

1-4-1. Main display contrast knob



1-4-2. Main display 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	
			·76.50	
Items sold		Total amount		
12				

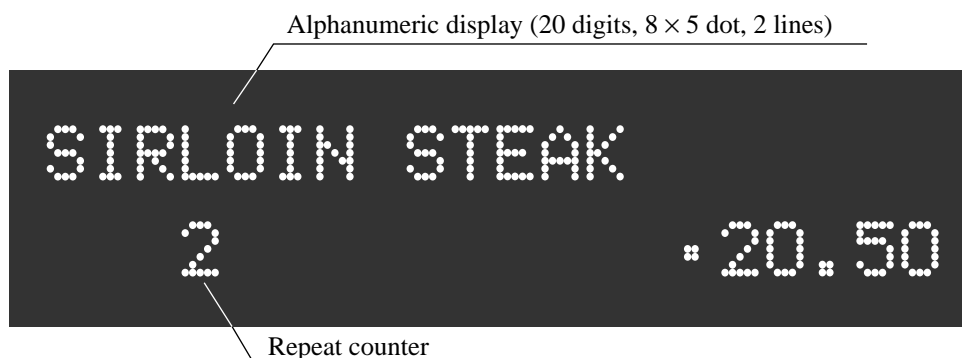
Labels in image: Mode, Clerk, Date, Time, Consecutive number, Scroll area, Current transaction amount/change, Status Icons, Items sold, Total amount.

- Communication:
- Menu sheet No.: 1 ~ 8
- 2nd unit price: or shift PLU level: 2 ~ 8
- Master/BM error:
- Cut off Master or BM:
- Receipt on:
- Character shift:
 - Capital/double size:
 - Capital/standard size:
 - Small/double size:
 - Small/standard size:

1-4-3. Customer display (Popup display)



1-4-4. Customer display (Remote display: option)

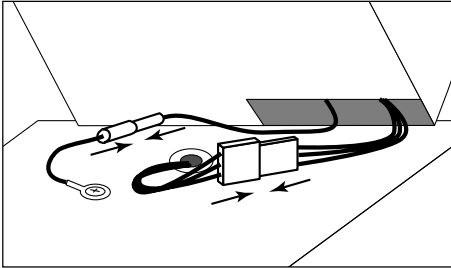


1-5. Cash drawer

In case of connecting drawer, follow the procedure below.

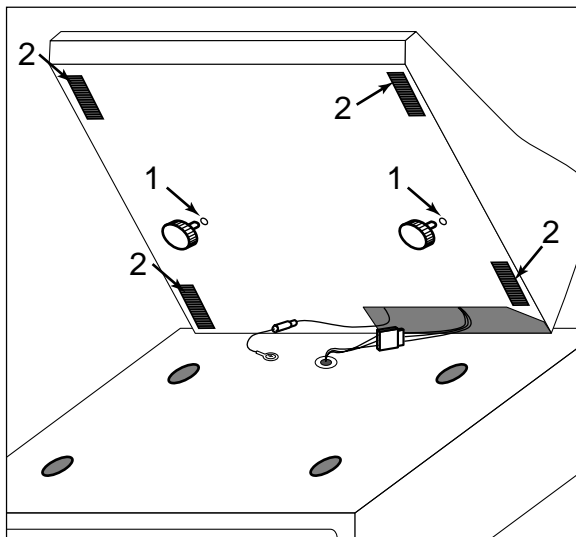
Connect the drawer.

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. Stick rubber plate on the each corner of the bottom side of the terminal.
3. 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. Security locks

Security locks provided are printer cover key, cash drawer lock key and Dallas key (option).

Normally, the mode switch is included in security locks, but in this model, the modes are controlled by mode selection keys (such as “REG MODE”, “X/Z MODE”, etc.).

1-6-1. Drawer lock key

This key is used to lock the cash drawer.

1-6-2. Printer cover key

This key is used to lock the printer cover.

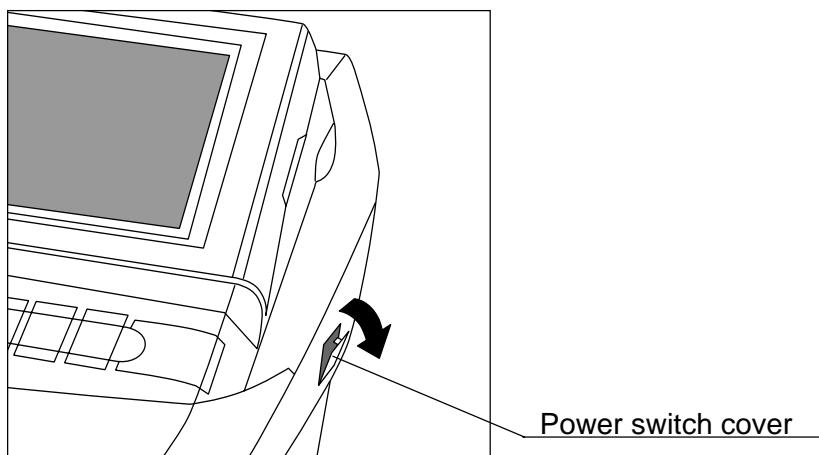
1-6-3. Dallas key (option: Dallas key and receiver)

The Dallas key receiver can be located on the front side of the terminal. The Dallas keys (for 6 clerks) are used to enable the register instead of the clerk sign on operation.

1-7. Input/output connectors

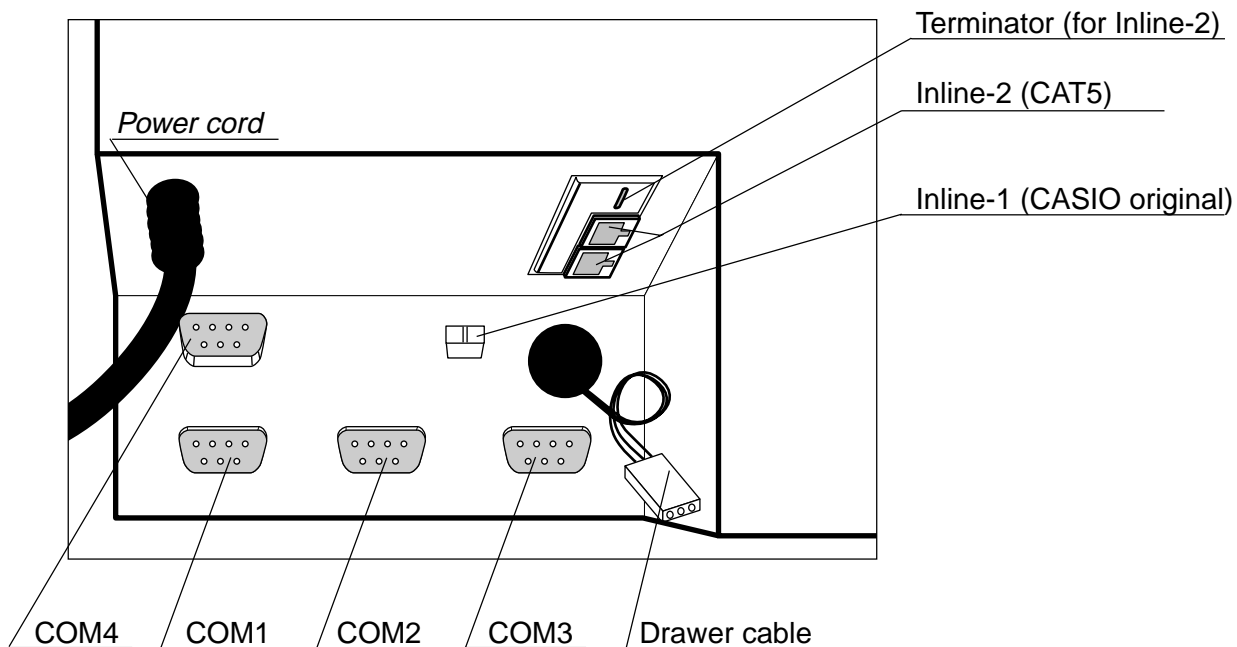
Power switch

Main power switch is located in the power switch cover.



Input /output connectors

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



1-8. 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) Remote display: RS-232C COM 3 port
QT-2163D
- 4) Remote printer (UP-350, UP-250) or Slip printer (SP-1300): RS-232C COM 2 ~ 4 port
The remote printer is used for reports/kitchen orders/receipts.
If you use one remote printer, connect it to COM 4 port.
If you use two remote printers, connect remote printer 1 to COM 4 port and remote printer 2 to COM 2 or 3 port. (Connecting remote printer to COM 2 port requires I/O parameter programming. Refer to page 65 of the programming manual.)
The slip printer is used for validations, detailed slips, endorsements and check prints.
If you do not connect HHS-15 to COM 2 port, connect SP-1300 to COM 2 port.
(Connecting slip printer to COM 3 or 4 port requires I/O parameter programming. Refer to page 65 of the programming manual.)
- 6) Inline: Inline port
You can use either CASIO original cable (same as QT-2100) or CAT5 UTP cable.
- 7) Drawer: drawer port

1-9. System configuration

This section represents the system configuration of the TE-7000S series. The TE-7000S series 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:

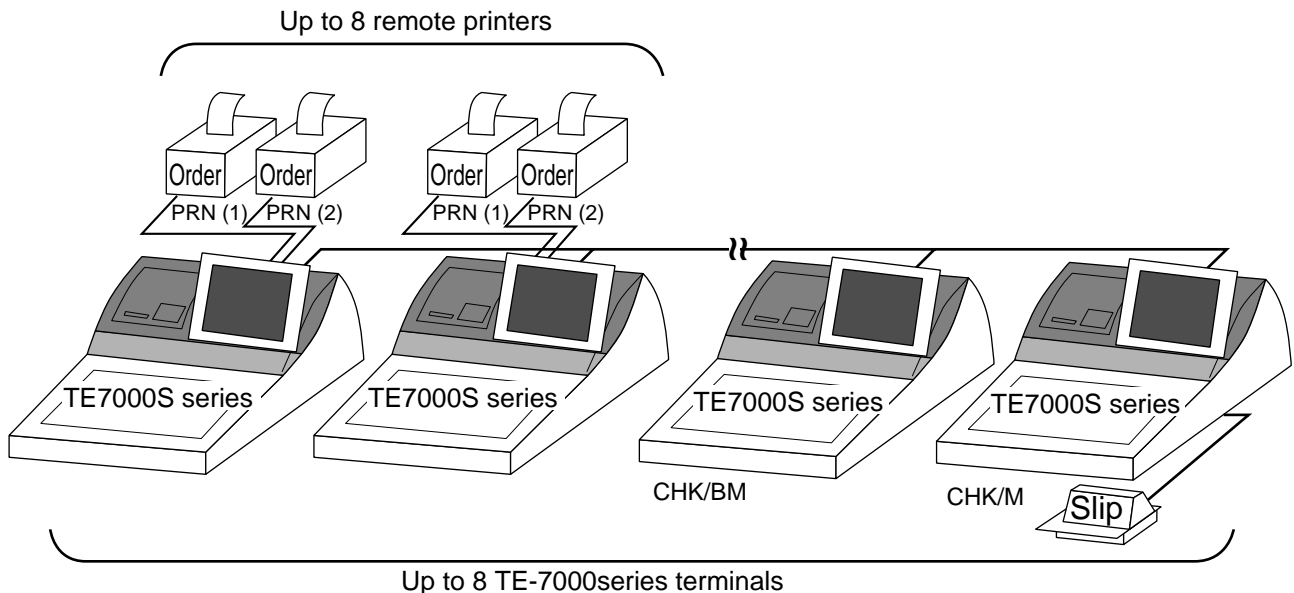
Remote printer prints data sent from both its own terminal and other terminal of the system.

6) Local printer (except its own receipt / journal printer):

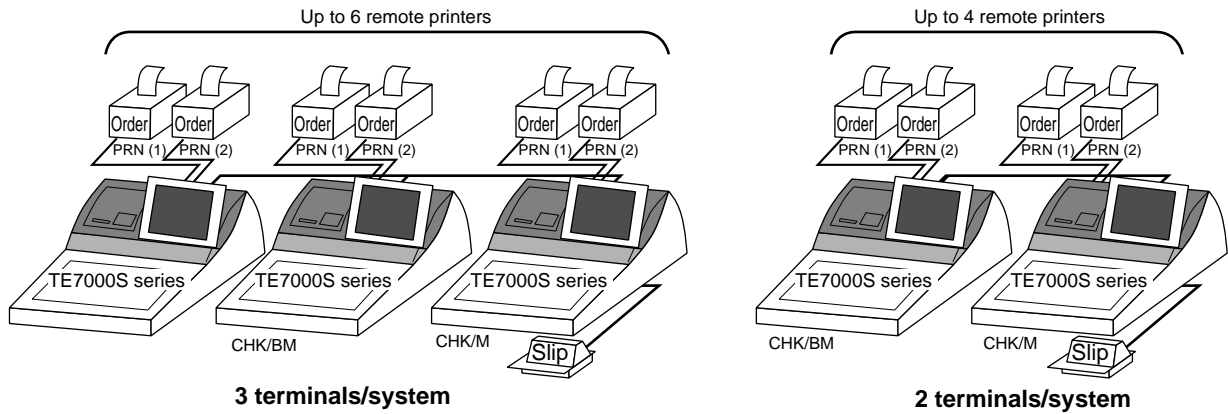
Local printer prints data sent from its own terminal.

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

System Recommendation



Hardware Configuration



Available peripherals versus ECR definition

✓: Available

ECR definition	Peripherals			
	Remote printer	Local 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	✓	✓	✓	

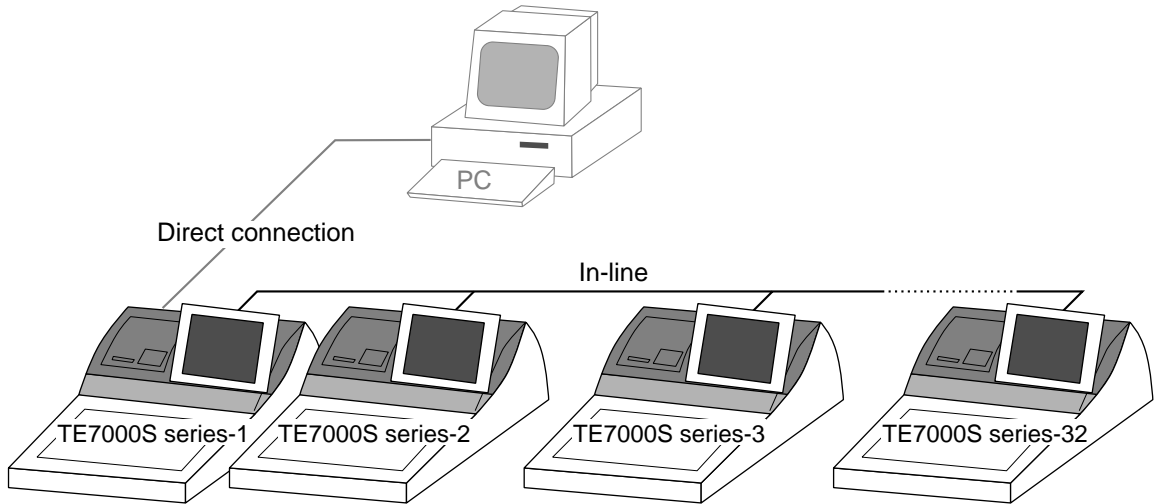
Note:

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

1-9-2. Inline collection/consolidation system

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

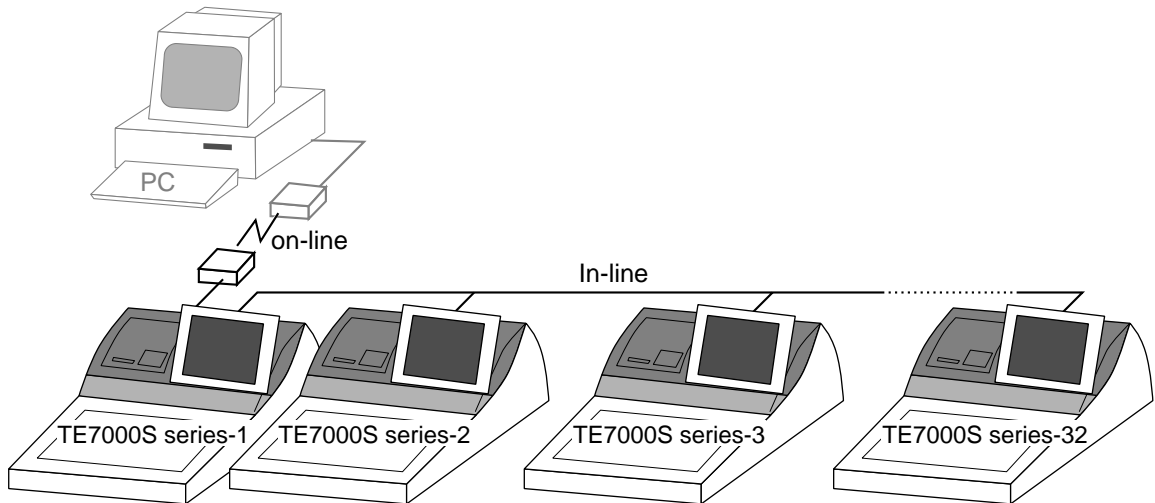
Note: Maximum 2 remote printers in the 1 terminal system, 4 remote printers / 2 terminal system, 6 remote printers / 3 terminal system, 8 remote printers in the 4 ~ 32 terminal can be defined.



1-9-3. Online collection / consolidation system

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

Note: Maximum 2 remote printers in the 1 terminal system, 4 remote printers / 2 terminal system, 6 remote printers / 3 terminal system, 8 remote printers in the 4 ~ 32 terminal can be defined.



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2. Application systems

This section describes the configuration of application system and their related setting with the TE-7000S series. 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:

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

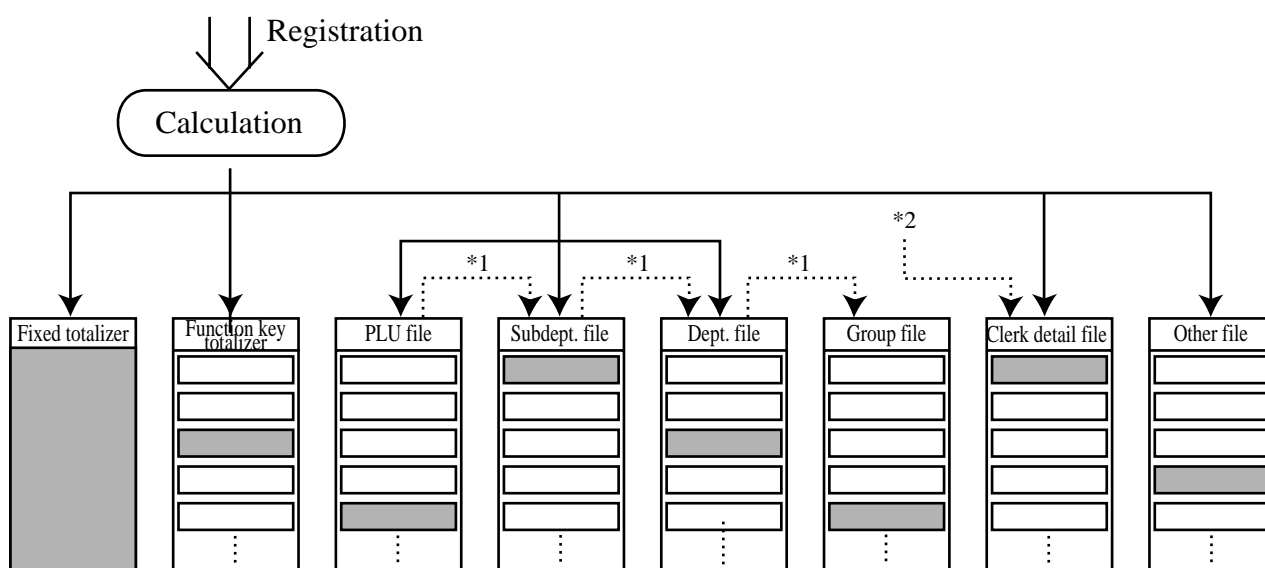
The table on the page 17 ~ 19 of the programming manual shows all the files available for the terminal. See the Appendix A-3 of this manual for detail formats of individual files.

2-1-2. Linkage of totalizers

Registered data is accumulated to totalizers which are reserved for each functions. The TE-7000S series 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 chapter A-1 of this 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 TE-7000S series 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).

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 25 ~26 of the programming manual.

Character key layout

Refer to the page 144 of the programming manual.

2-1-5. Mode control

With the TE-7000S series, 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 54 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 TE-7000S series 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/journal print control during normal registration

Normally, the receipt and journal are 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 twice turns the receipt issuance status on or off, and when the receipt issuance status is On, the icon "RECEIPT ON" appears. Switching receipt printing OFF does not affect printing of the journal.

The following programming can be performed for receipt and journal 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 / journal	PGM3; Machine Control3 in General Feature
Print date / time on the receipt / journal	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 TE-7000S series 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 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 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 TE-7000S series 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 TE-7000S series 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 TE-7000S series 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 or check cashing transaction 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 TE-7000S series 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 TE-7000S series.

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 selection keys (REG MODE, X/Z MODE, PGM MODE)

REG MODE key; This key is used for selecting the REG, REF, REG- modes.

X/ZMODE key; This key is used for selecting the X/Z, MGR, Inline X/Z modes (collection / consolidation), Auto PGM (program upload / download), CF (CF card).

PGM MODE key: This key is used for selecting modes the PGM1, PGM2, PGM3, PGM4, PGM5, PGM6 modes.

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.

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 four 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.

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. This key has the following programmable functions:

- Key location
- Function code (Cash = 001, Charge = 002, Check = 003, Credit = 004)
- Sixteen character descriptor
- High amount lock out (subtotal / tender)
- Change due to high amount lock out
- Maximum number of validation print
- Compulsory validation status
- Restriction (to 00, 25, 50, 75) on the last two digits for amount tendered (cash only)
- Compulsory batch slip printing
- Compulsory check endorsement (check only)
- Compulsory check print (check only)
- Prohibit entry of a partial payment
- Prohibit the entry of the amount tendered
- Amount tendered compulsory
- Print VAT breakdown
- Check cashing commission (Use an amount / Use a rate)
- Validation amount (Print subtotal amount / Print amount tendered)
- Barcode printing (in check tracking)

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.

This key has the following programmable functions:

- Key location
- Function code (New balance = 006)
- Sixteen character descriptor
- Maximum number of validation print
- Compulsory validation status
- Compulsory batch slip printing
- Open cash drawer
- Print VAT breakdown
- Service charge (Use an amount / Use a rate)
- Barcode printing (in check tracking)
- Receipt issuance (in check tracking / clerk interrupt)

2-2-3. Transaction keys

Each of the transaction keys have programmable functions which may be used as required. Programmable functions that are common to all transaction keys are listed below.

- Key location
- Sixteen character descriptor

The general description of each transaction key, with individual options, is outlined on the following pages.

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. In addition to the common programming, this key has the following options:

- Allow mode change after pressing this key as first transaction.
- Print / Non print this registration on post receipt / slip / guest receipt.
- Record No. designation of the text recall file.
- Printing color on order printer (black, normal / red, reverse).
- Output order printer selection.
- Start record No. of displaying “TEXT RECALL WINDOW”.
- Display / Print with quantity
- Staydown “TEXT RECALL WINDOW”.

4) Text print key (Function code 011)

This key is used to print the entered characters. In addition to the common programming, this key has the following options:

- Print / Non print this registration on post receipt / slip / guest receipt.
- Printing color on order printer (black, normal / red, reverse)
- Output order printer selection.

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. In addition to the common programming, this key has the following option:

- Number of back feed lines before check printing.

6) Clerk transfer key (Function code 013)

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

In addition to the common programming, this key has the following option:

- Assigning clerk number (Use memory number / Use clerk secret number)

7) Table transfer key (Function code 014)

This key is used to transfer the contents of a check to another check.

In addition to the common programming, this key has the following options:

- Allow to add in checks while table transferring
- Transfer the customer number
- Do not transfer the detail transactions (ST transfer)
- Auto check transfer
- Receipt is issued, even if the receipt switch is OFF
- Print receipt

8) Tip key (Function code 015)

This key is used to register tips. In addition to the common programming, this key has the following options:

- High digit lock out
- Multiple validation

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. In addition to the common programming, this key has the following options:

- High amount lock out
- Compulsory validation
- Maximum number of printing validation

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. In addition to the common programming, this key has the following options:

- High amount lock out
- Compulsory validation, Maximum number of printing validation
- Allow to enter non-add after registration

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. In addition to the common programming, this key has the following options:

- High amount lock out
- Compulsory validation, Maximum number of printing validation
- Allow to enter non-add after registration

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. In addition to the common programming, this key has the following options:

- High amount lock out
- Compulsory validation
- Maximum number of printing validation

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) In addition to the common programming, this key has the following options:

- Multiple validation
- Taxable status
- Allow credit balance
- Allow key operation after subtotal
- Allow key operation after item registration
- High digit lock out
- Commission status

15) Deposit key (Function code 025)

This key is used to register deposits. In addition to the common programming, this key has the following options:

- Key attribution (Deposit + / Deposit –)
- Multiple validation
- Compulsory validation
- Open cash drawer
- Media definition (Cash / Charge / Check / Credit)
- High amount lock out

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)

In addition to the common programming, this key has the following options:

- Multiple validation
- Taxable status
- Allow credit balance
- Allow key operation after subtotal
- Allow key operation after item registration
- High digit lock out
- Commission status

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. In addition to the common programming, this key has the following options:

- Discount rate
- Multiple validation
- Taxable status
- Allow manual rate override
- Allow key operation after subtotal
- Allow key operation after selective item subtotal
- Allow key operation after item registration
- Result rounding (Round off / Cut off / Round up)
- Commission status

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)

In addition to the common programming, this key has the following options:

- Multiple validation
- Taxable status
- Allow key operation after subtotal
- Allow key operation after item registration
- High digit lock out
- Commission status

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. In addition to the common programming, this key has the following options:

- Premium rate
- Multiple validation
- Taxable status
- Allow manual rate override
- Allow key operation after subtotal
- Allow key operation after selective item subtotal
- Allow key operation after item registration
- Result rounding (Round off / Cut off / Round up)
- Commission status

20) Refund key (Function code 033)

This key declares next input for a return money.

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.

In addition to the common programming, this key has the following option:

- Select void reason
- Item delete

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.

In addition to the common programming, this key has the following options:

- Maximum number of post receipts
- Guest receipt format (Print out / Display)
- Print current time on guest receipt
- Reset the finalized check
- Issue post receipt after clerk interrupt / check tracking
- Order printer number of issuing guest receipts
- Line numbers of the guest bottom message
- Printout definition of the <ELECTRONIC JOURNAL DISPLAY> key.

25) Check endorsement key (Function code 039)

This key is used to print a preset check endorsement using the slip printer.

In addition to the common programming, this key has the following option:

- Line number of auto back feed before printing

26) Non add key (Function code 040)

This key prints reference numbers (personal check number, card number etc.) In addition to the common programming, this key has the following options:

- Allow mode change after non add registration as first transaction
- Order character record number
- Printing color on order printer (black, normal / red, reverse)
- Selection of order printer number (1 ~ 7)

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.

In addition to the common programming, this key has the following options:

- Allow mode change after non add registration as first transaction
- Order character record number
- Printing color on order printer (black, normal/red, reverse)
- Selection of order printer number (1 ~ 7)

28) No sale key (Function code 042)

This key opens the drawer between transaction.

29) Customer number key (Function code 043)

This key registers the number of customers.

In addition to the common programming, this key has the following option:

- Prohibit replacement/Allow replacement/Add enter value

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.

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.

In addition to the common programming, this key has the following options:

- Amount symbol definition
- Foreign currency totalizer definition
- Result rounding (Round off/Cut off/Round up)
- Monetary mode
- Monetary symbols (decimal, separator)
- Drawer assignment (1 ~ 4)

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.

In addition to the common programming, department key has the following options:

- Single item, Bon, Taxable, Commission, Hash status
- Multiple validation
- Zero unit price, negative price
- H.A.L.O. (High amount lock out), L.D.L. (Low digit limitation)
- Link group etc. (refer to 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.

In addition to the common programming, this key has the following options:

- Compulsory slip printing (from the beginning of the transaction)
- Print time. (effective under compulsory only)
- Clear finalized check.
- Print Euro total line.

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. In addition to the common programming, this key has the following option:

- Tax status

41) Table number key (Function code 058)

This key is used to input table numbers.

42) 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. In addition to the common programming, this key has the following option:

- Tax status

43) Flat PLU key (Function code 063)

This key is used to register items to flat PLU.

In addition to the common programming, flat PLU key has the following options:

- Single item, No. of Bon, taxable, commission, hash status
- Condiment / Preparation status
- Random code, Unit / Minimum stock
- Set menu / Order character / Pulldown group link
- Subdepartment link, department link, group link
etc. (refer to the programming manual)

44) Menu shift key (Function code 064)

This key is used to shift Flat PLU key to the n-th ($n = 1 \sim 8$) menu.

In addition to the common programming, this key has the following option:

- Menu sheet number to shift

45) Shift PLU key (Function code 065)

This key is used to shift a Flat PLU key to the n-th (n = 1 ~ 8) level.

In addition to the common programming, this key has the following option:

- Sheet level number to shift
- Status / Staydown

46) 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.

47) Open 2 key (Function code 068)

This key is used to suspend the compulsory specifications listed below.

In addition to the common programming, this key has the following options:

- Release customer number compulsory
- Release table number compulsory
- Release check number compulsory
- Release credit balance (ST < or = 0) error
- Release guest receipt compulsory
- Release validation compulsory
- Release check endorsement compulsory
- Release check print compulsory
- Release slip auto batch print compulsory
- Release slip manual batch print compulsory
- Release <LIST> stay down compulsory
- Release seat number compulsory
- Release tip declaration compulsory
- Release eat-in / takeout compulsory

48) First unit price key (Function code 069)

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

49) Second unit price key (Function code 070)

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

50) Clerk number key (Function code 072)

This key is used to assign a clerk's secret number.

In addition to the common programming, this key has the following options:

- Clerk secret number (Clerk keys for all clerks)

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

This key is used to issue a clerk's individual X/Z report.

In addition to the common programming, this key has the following options:

- Issue stand-alone report / Issue consolidation report
- Display report / Print report

52) Tray total key (Function code 074)

This key is used to obtain the sectional subtotal amount.

In addition to the common programming, this key has the following options:

- Accumulate tray total amount to the key totalizer when the <TRAY TOTAL> key pressed twice. If this option is selected, finalization operation can be done only the tray total amount is zero.

53) Subtotal key (Function code 075)

This key is used to obtain subtotal amount with add-on tax and previous balance.

In addition to the common programming, this key has the following options:

- Multiple validation
- Include add-on tax
- Print when key is pressed
- Display subtotal in Euro

54) 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

55) Taxable amount subtotal key (Function code 077)

This key is used to obtain taxable amount subtotal. In addition to the common programming, this key has the following option:

- Tax status

56) Operator number key (Function code 078)

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

57) Merchandise subtotal key (Function code 080)

This key is used to obtain subtotal excluding the add-on tax amount and the previous balance.

In addition to the common programming, this key has the following options:

- Multiple validation
- Print when key is pressed.

58) Multiplication key (Function code 082)

This key is used to enter quantities for multiplication. The maximum quantity that can be registered with this key is 4 integer and 3 decimals. An error occurs if the result exceeds 8 digits, including the minus sign.

In addition to the common programming, this key has the following options:

- Rounding the result
- Entering order (quantity \times @ or @ \times quantity)

59) 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.

In addition to the common programming, this key has the following option:

- Rounding the result

60) 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.

In addition to the common programming, this key has the following option:

- Rounding the result

61) 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

62) 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.

In addition to the common programming, this key has the following option:

- Rounding the result

63) 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.

In addition to the common programming, this key has the following option:

- Enable auto check assignment

64) 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. In addition to the common programming, this key has the following option:

- Enable to open the finalized check

65) 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.

In addition to the common programming, this key has the following option:

- Enable auto check assignment

66) 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.

67) 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.

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

This key is used to enter scanning PLU code manually.

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

This key is used to register the time when employees start/finish their job.

In addition to the common programming, this key has the following options:

- The purpose of users
- Print when the key is pressed

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

This key is used to register the starting / finishing time when employees have a recess.

In addition to the common programming, this key has the following options:

- The purpose of users

71) Substitution key (Function code 111)

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

72) Ketten Bon key (Function code 113)

This key is used to enter quantities for multiplication. Multiplication by this key issues singular order prints.

In addition to the common programming, this key has the following options:

- Result rounding
- Entering order (quantity × @ or @ × quantity)

73) House Bon key (Function code 114)

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

74) Post entry key (Function code 115)

This key is used 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.

75) Round repeat key (Function code 116)

This key is used to register the same items which were ordered just before.
In addition to the common programming, this key has the following options:

- Perform new balance after round repeat
- Include plus/minus, premium / discount result to round repeat amount

76) Open check key (Function code 117)

This key is used to issue an open check report of an assigned clerk.
In addition to the common programming, this key has the following option:

- Print / Display open check

77) Media change key (Function code 118)

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

78) Seat number key (Function code 119)

This key is used to enter and print seat number.

79) 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.
In addition to the common programming, this key has the following options:

- Exempt tax status
- Print when the key is pressed.

80) 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.
In addition to the common programming, this key has the following options:

- Exempt tax status
- Print when the key is pressed.

81) 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.
In addition to the common programming, this key has the following options:

- Print VAT breakdown.
- Print receipt.

82) 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.
In addition to the common programming, recall key has the following options:

- Enable to open the pre-closed check

83) Subdepartment key (Function code 133)

This key is used to register items for the subdepartment.
In addition to the common programming, subdepartment key has the following options:

- Single item, taxable, commission, hash status
- Multiple validation
- Zero unit price, negative price
- H.A.L.O. (High amount lock out), L.D.L (Low digit limitation)
- Link department, link group etc. (refer to the programming manual)

84) Subdepartment number key (Function code 134)

This key is used to enter subdepartment numbers.

85) Department number key (Function code 135)

This key is used to enter department numbers.

86) List key (Function code 136)

This key is used to display menu lists.

In addition to the common programming, this key has the following option:

- Record No. of the pull-down group (4 kinds)

87) List number key (Function code 137)

This key is used to designate list number.

88) Dutch account key (Function code 140)

This key is used to share the total payment by customer.

In addition to the common programming, this key has the following options:

- Maximum customer numbers for one Dutch account

89) Reverse display key (Function code 206)

This key is used for changing the LCD as a black line on white ground/white line on black ground.

90) Electronic journal display key (Function code 207)

This key is used to display the stored journal.

91) Display mode key (Function code 219)

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

92) 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.

In addition to the common programming, this key has the following options:

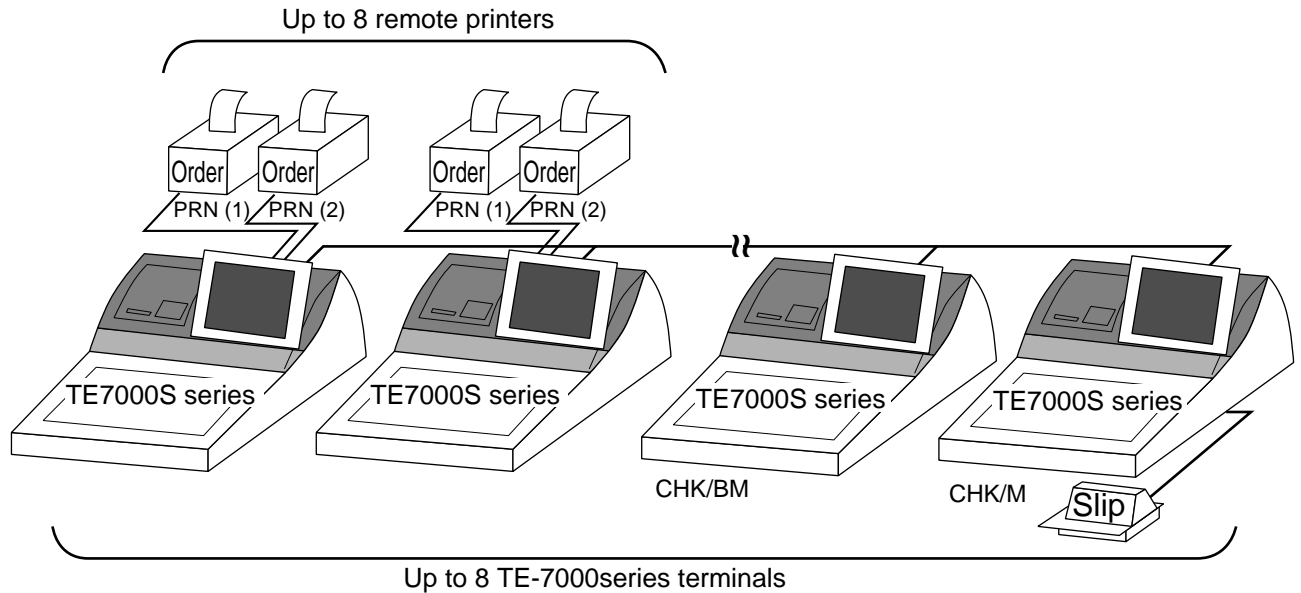
- Cancellation range
- Correct set menu / pulldown link while it is registered.

2-3. Remote printer control

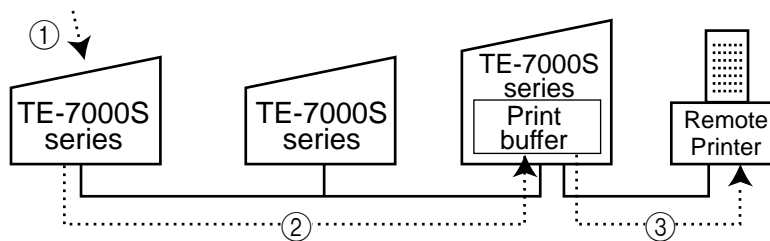
Up to eight printers for printing kitchen orders etc.

2-3-1. Remote printer system configuration

Please refer to page 19 for the system configuration.



The printing processing of the remote printer is performed as shown in the figure below.



- 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.

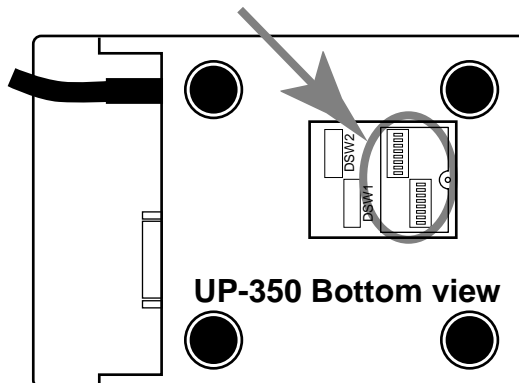
2-3-2. Remote printer control setting

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 Transmission 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 Reserved		Fixed
	5 Reserved		Fixed
	6 Reserved		Fixed
	7 I/F 6 pin reset signal	Enabled	Disabled
	8 I/F 25 pin reset signal	Enabled	Disabled

Transmission speed setting

bps	SW No.	
	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.

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 → Internal printer with terminal 3

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, internal printer 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				
-----				Double Bon message
STUB				
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			

REG C01	15-12-2003	12:34	001256
1 Lemon Tea			
2 Coffee			
2 Coffee			

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

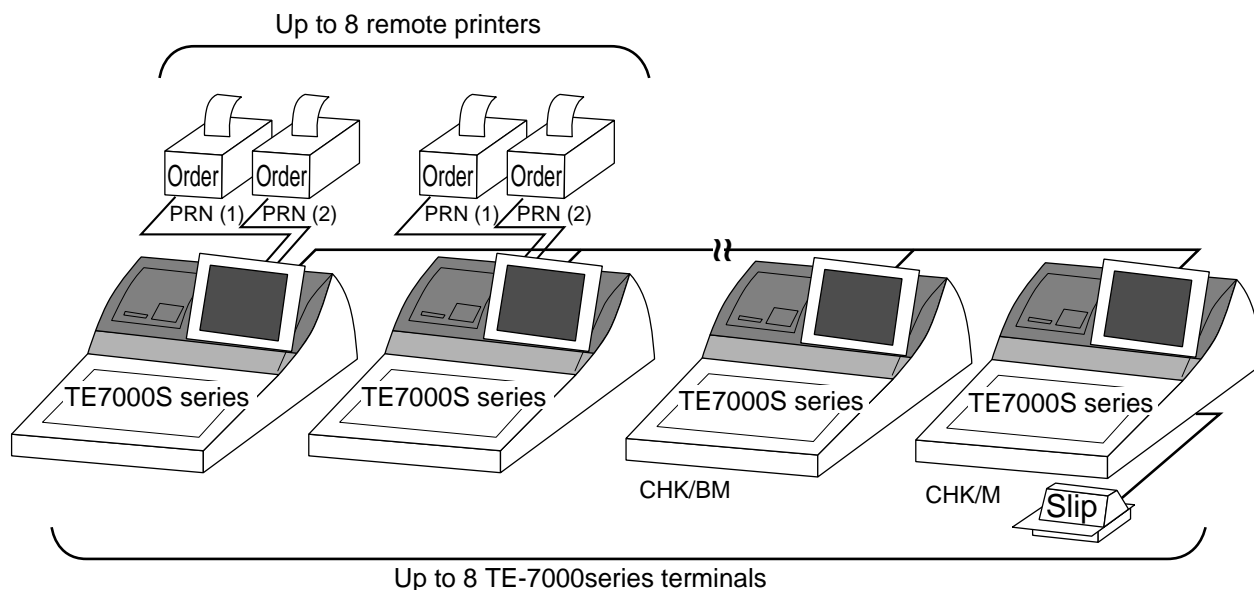
CHECK No.123456		MC #01
REG C01	15-12-2003 12:34	001267
2	Steak Set	Set menu
2	Medium	Detail item
2	Salad	
1	Pizza	Main item
1	Soft	Preparation
1	Cheese	Condiment
1	Tomato	
1	Pizza	Main item
	#123456	Main item PLU No.
1	Soft	Preparation (with quantity / PLU No.)
	#000001	
1	Cheese	Condiment (with quantity / PLU No.)
	#000002	
1	Tomato	
	#000003	

2-4. Check tracking system

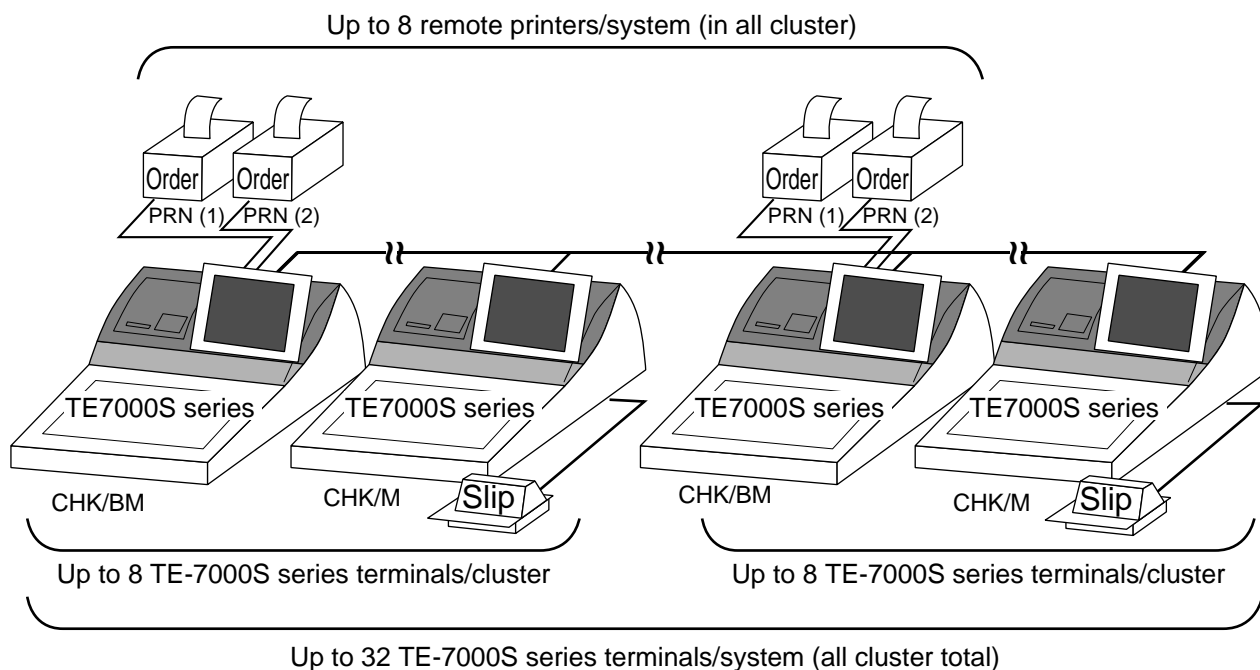
2-4-1. Shared check tracking system

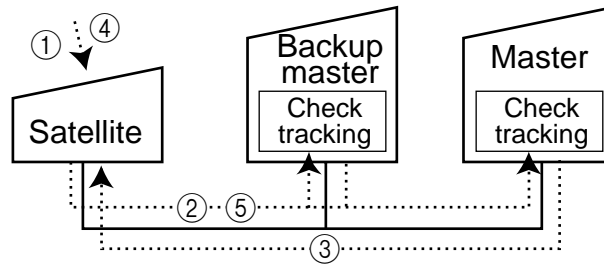
Up to 8 terminals can be included in the cluster and check tracking can be performed for multiple terminals connected to inline. This means that any terminal can be used to recall a temporary closed check of one's cluster for additional registration or finalization.

System configuration (1 cluster system)



System configuration (multi cluster system)





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 52 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 123 of the programming manual.

2-5-3. Store and Recall

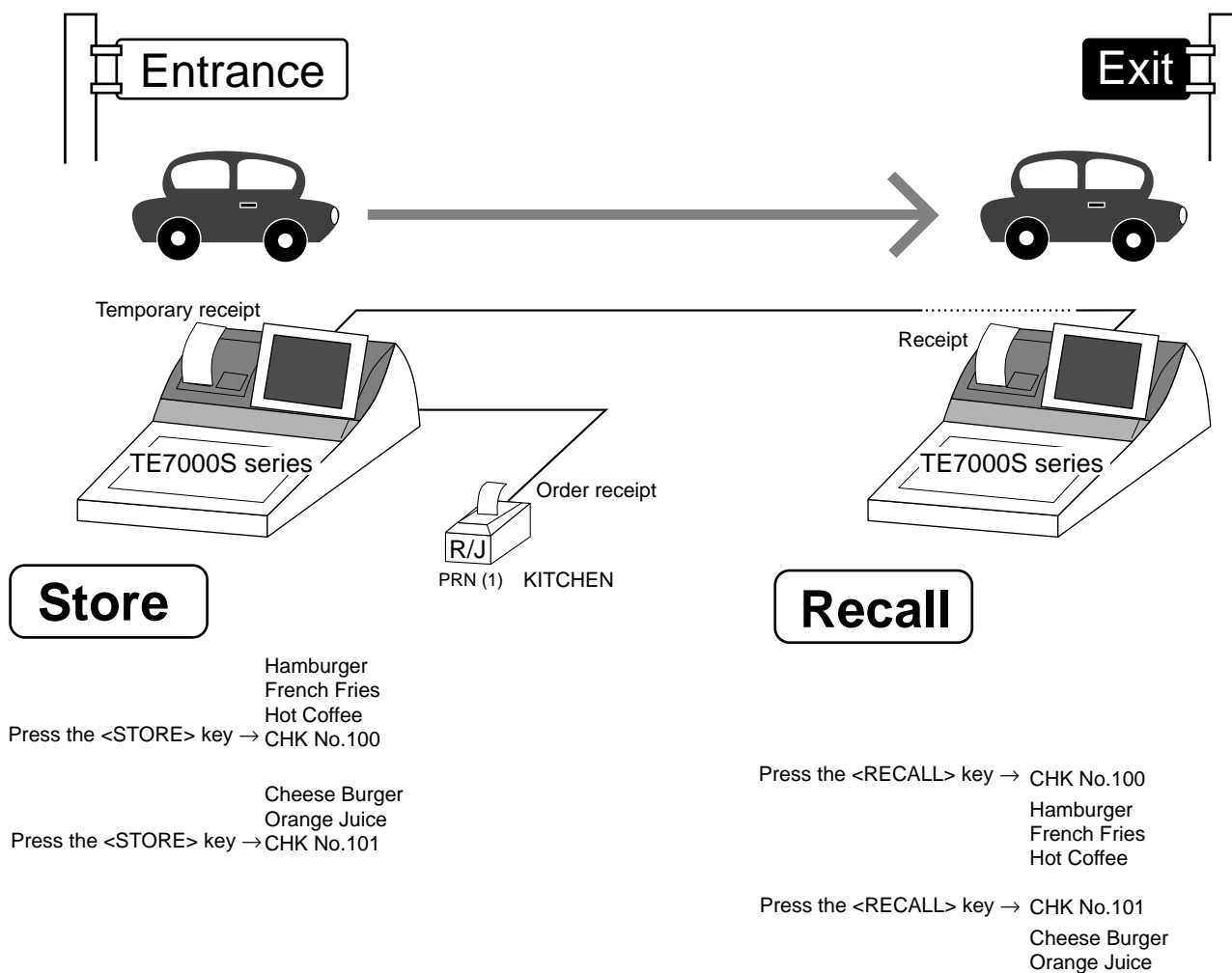
These functions are used for the driving through purchase. The check number used in store operation is defined by check No. range programming.

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.



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.

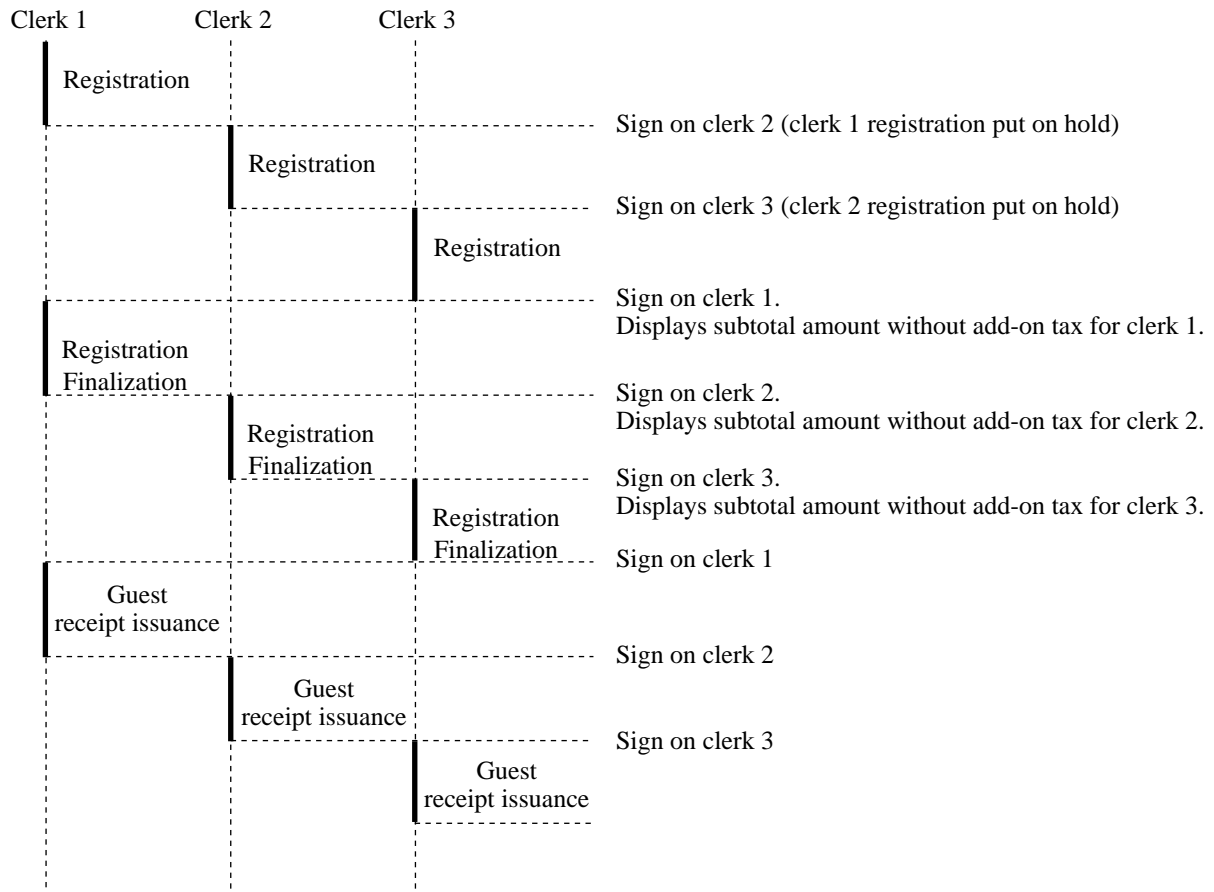
Important

- 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 52 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.



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 <CANCAL> 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 TE-7000S series 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.

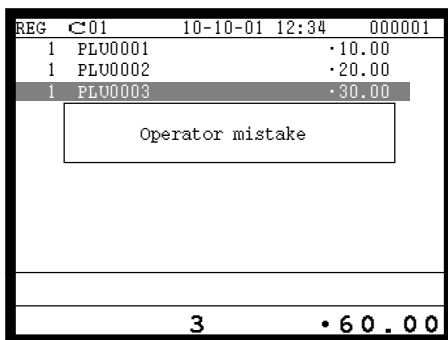
2-6-4. Manager mode control

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

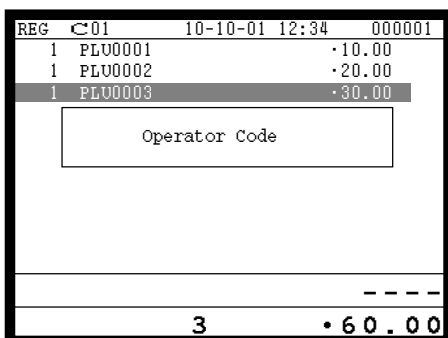
Preparation for this function:

- 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 87 ~ 91 of the programming manual.)
- 2) Set the type of operator to “Manager” for the manager. (See page 82 of the programming manual.)

Operation for this function:



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



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

- 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

- 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

- 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 TE-7000S series system. Any operation that can be performed using the keyboard of the TE-7000S series 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.

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 TE-7000S series 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 TE-7000S series.

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) Display control

There are four commands for controlling the display:

DON1	: Switch the LCD on.
DOFF1	: Switch the LCD off.
ON1	: Update the LCD.
OFF1	: Not update the LCD.

5) R/J print control

There are two commands for controlling the R/J printer:

PON : Power the R/J switch on.
POFF : Power the R/J switch off.

6) Controlling the flow of arrangement command execution

There are 24 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.

:[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 signoff.
AYES	: Enable clerk auto signoff.
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 ~ 8) 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.

7) 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.

See the page 104 of the programming manual for programming details.

2-8. Making graphic logo

A graphic logo can be printed on internal receipt or UP-350 receipt. This graphic logo is stored in the graphic logo file (file 067 for internal receipt / journal printer, file 047 for UP-350), 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 × 168 pixels (for internal R/J)
 432 × 104 or 432 × 208 pixels (for UP-350)

Printing sample:

```
*****  
*TE-7000/8000 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 067 or file 047) on the terminal.

1. Making a bit-map image file (432 × 168 pixels; 1-bit color for internal receipt) / (432 × 104 or 432 × 208 pixels; 1-bit color for UP-350).
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. (only for UP-350)

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

Grace period before end time – this input indicates how many minutes an employee may clock-out before 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
First day	Shift 1	9:00	12:00	00:15	10	10	5	15
	Shift 5	9:00	12:00	00:15	10	10	5	15
	Shift 2	9:00	12:00	00:15	10	10	5	15
Second day	Shift 3	9:00	12:00	00:15	10	10	5	15
	Shift 2	9:00	12:00	00:15	10	10	5	15
	Shift 4	9:00	12:00	00:15	10	10	5	15
Seventh day	•	•	•	•	•	•	•	•
	•	•	•	•	•	•	•	•
	•	•	•	•	•	•	•	•

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.

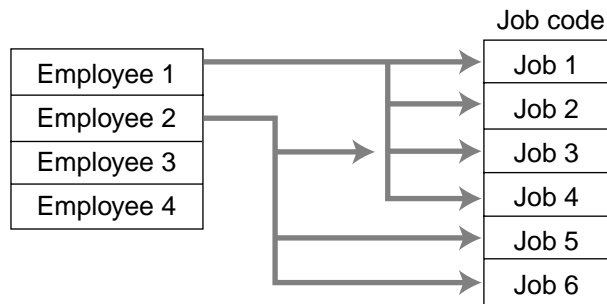
– Time zone file

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

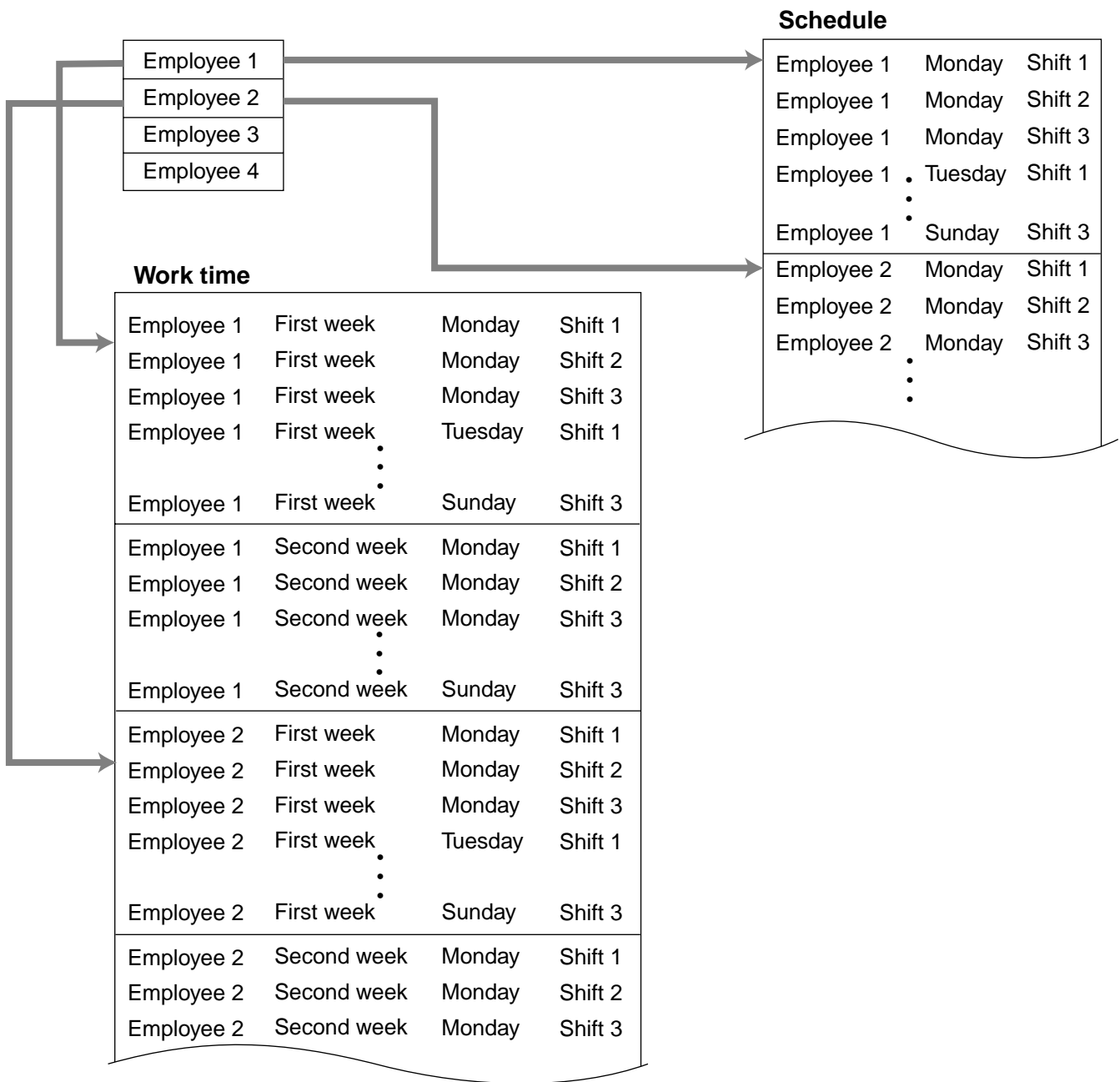
2-10-1. Corresponding relations of the file

Employees' job assign

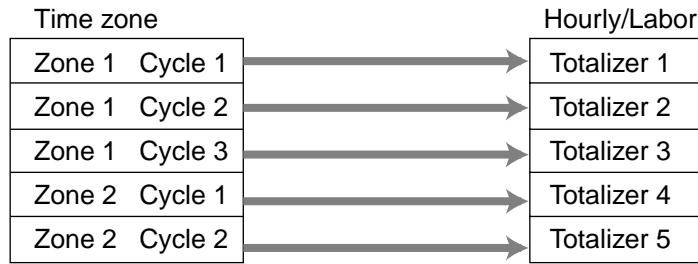
This function is used to assign a job to each employee. Before assigning the job, be sure to program the details of the jobs. Every employee file can link to some job code files (maximum 4 jobs), so some employees may link to the same job code file. But be sure to make individual job files if the employees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



Employee's Schedule and total business results per week

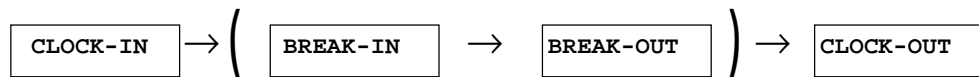


Calculating the total wages of the employees per hour



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.)



2-10-2. Clock-in operation

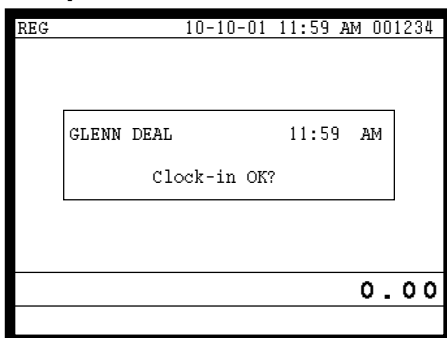
This function is used to register the Starting work time.

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 72 of the programming manual.)

Operation



1. XXXXXX <CLOCK-IN>

When this message appears, press the <YES> key to register the start of working hours.

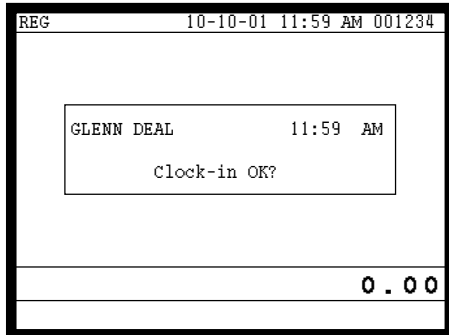
XXXXXX
|
Employee No.

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 72 of the programming manual.)

Operation



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).

XXXXXXX . YY
Employee No. Job code

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

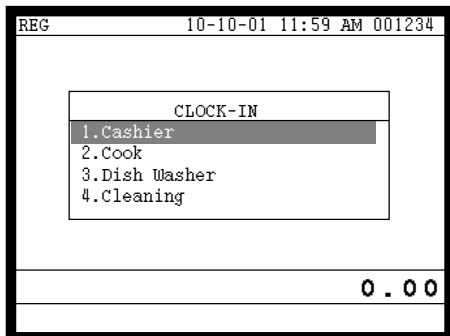
Program type:

Display job code window = YES

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

(Refer to the page 72 of the programming manual.)

Operation



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.

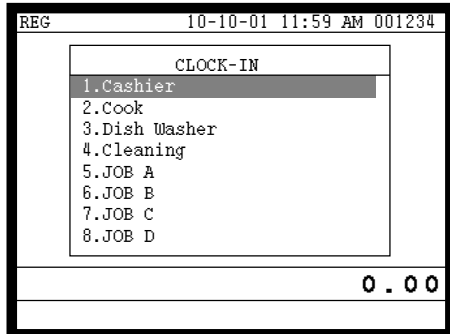
→ Job codes that are programmed in Employee file are displayed.

XXXXXXX
Employee No.

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 72 of the programming manual.)

Operation



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.

XXXXXX
 |
 Employee No.

Receipt sample

REG	12-31-2003	11:59 AM	| Header
C01	MC #01	001234	
Harrison			| Employee character (16 digits)
CLOCK-IN		11:59 AM	| Special character (REC #29), time
JOB	Dish Washer		| Special character (REC #33), job character

If you want to change these special characters, refer to the page 157 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 71 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

REG	12-31-03	11:59 AM	Header
C01	MC #01	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 157 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.

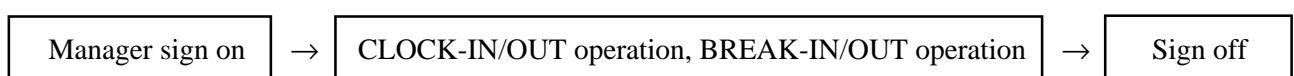
2-10-3-5. Manager Operation

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



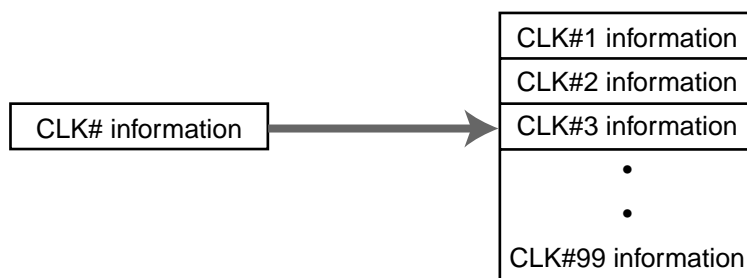
2-11. Sign on control

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

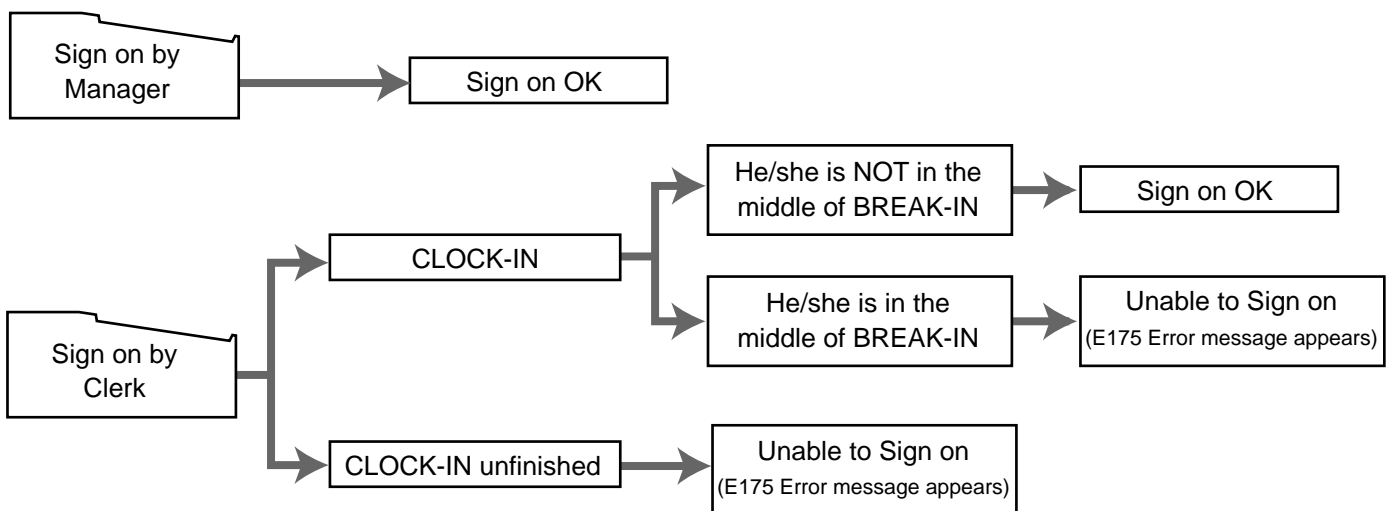
- Use only one terminal (master terminal) for the CLOCK-IN/OUT operation. This terminal should be connected inline to the satellite terminals. But the time and attendance work file (file 806) should be allocated to all terminals.
- The clerk file's information should be common among all the terminals.
- 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.

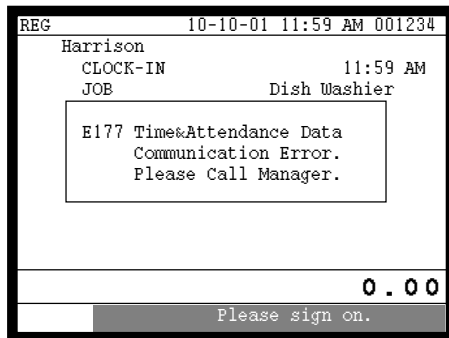


Flow of sign on



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.



Receipt image

REG	12-31-2003	11:59 AM	Header
	MC #01	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	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• The index of the transaction.• The report of all the detailed statements.	007

IDC function file

	Function		Code			Function		Code			Function		Code	
	NOP		000	-		PLU#	*7	048	○		SUBST.		111	-
●	CASH		001	○		PRC		049	-		K/KETTEN	*1	113	○
●	CHARGE		002	○	●	DEPT01~		051	○		HOUSE BON	*1	114	○
●	CHECK		003	○		SB/R		054	-		POST ENTRY		115	-
●	CREDIT		004	○		SLIP		055	-		R REPEAT		116	-
●	NB	*12	006	○		SF/R		056	-		OPEN CHK		117	-
	PRCINQ		008	-		T/S	*1	057	○	●	MEDIA CHG		118	○
	STKINQ		009	-		TBL#		058	-		SEAT#		119	-
●	CHAR	*11	010	○	●	EXEMPT		062	○		DISP ON/OFF		120	-
●	PRT	*11	011	○	●	PLU0001~		063	○		REG MODE	*5	121	○
	CHKP		012	-		MENU		064	-		X/Z MODE		122	-
	CLK TRANS		013	-		SFT PLU	*7	065	○		PGM MODE		123	-
●	TBL TRANS	*10	014	○		OPEN		067	-	●	EAT-IN		128	○
●	TIP		015	○		OPEN2		068	-	●	TAKE-OUT		129	○
	NRMRCT	*1	016	○		1st@	*7	069	○		STORE		130	○
●	LOAN		019	○		2nd@	*7	070	○		RECALL		131	-
●	RC		020	○		CLK#	*5	072	○	●	SUBDEPT01~		133	○
●	PD		021	○		OPE X/Z		073	-		SDPT#	*7	134	○
●	P.UP		022	○	●	TRAY TTL	*13	074	○		DEPT#	*7	135	○
●	COUPON		023	○		SUBTOTAL	*8	075	○		LIST	*7	136	○
●	DEPOSIT		025	○		RCT ON/OFF		076	-		LIST#	*7	137	○
●	-		027	○		TAST		077	-		DUTCH		140	-
●	%-		028	○		OPE#		078	-		Numerics (0 ~ 9)		201	-
●	+		029	○		MDST	*8	080	○		CLEAR		202	-
●	%+		030	○		X	*1	082	○		REVERSE DSP		206	-
	RF	*1	033	○		QT	*1	083	○		EJ DISP		207	-
●	VOID	*3	034	○		XX	*1	084	○		ESC		211	-
	CPN2	*1	036	○		SIST	*2	085	○		YES		212	-
	VLD		037	-		XXX	*1	090	○		NO		213	-
	RCT		038	-		NEW CHK		091	-		←		214	-
	CK.E		039	-		OLD CHK		092	-		→		215	-
●	#	*11	040	○		NEW/OLD		093	-		↑		216	-
●	#/NS	*4/11	041	○		ADD CHK	*9	094	-		↓		217	-
	NS		042	-		SEP CHK	*9	095	-		HOME		218	-
	CT		043	-		00		096	-		DISP MODE		219	-
	ARG	*6	044	○		000		097	-		PAGE DOWN		220	-
	CE		045	○		Decimal point		098	-		PAGE UP		221	-
	VAT		046	-		CLOCK-IN/OUT		108	-		CANCEL		236	○
	BILL		047	-		BREAK-IN/OUT		109	-					

- : Available items to be programmed as target for IDC.
- : IDC target
- : Out of target

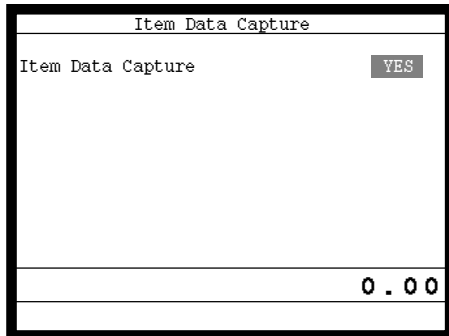
-
- *1 This function itself is not captured. But it is captured with the captured items or functions.
 - *2 Selective item subtotal is captured with selective item discount or premium.
 - *3
 1. Error correct is not captured.
 2. This function itself is not captured. But it is captured with voided items.
 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.

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 11 of the programming manual.)

Operation



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

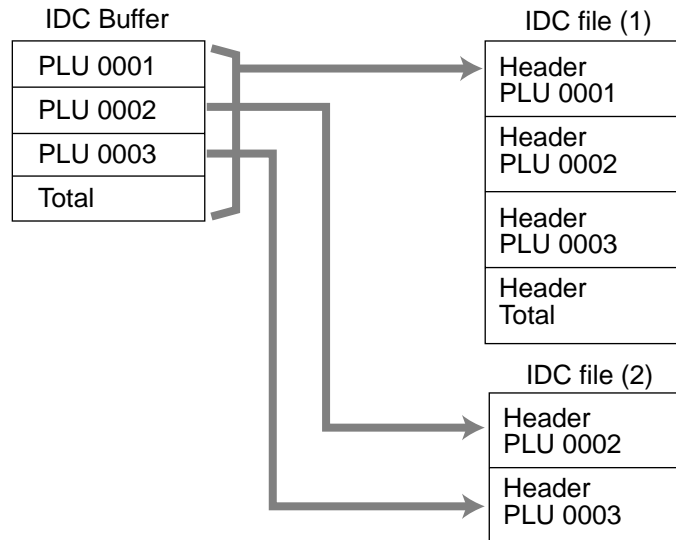
1. Program: "Store data = Whole transaction" (refer to the page 75 of the programming manual.)

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)



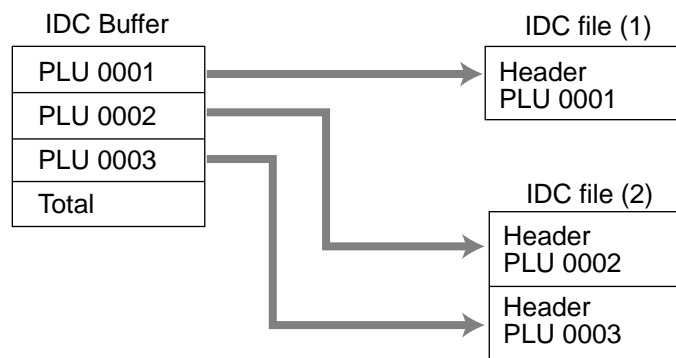
2. Program: "Store data = Item only" (refer to the page 75 of the programming manual.)
When an appropriate item is selected, this item and the header will be captured (see the illustration below).

Example

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

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

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



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	50
Mc ID	01	Check-#	Consecutive No.	Mode	Clerk-#	Date	Time	Number of purchased item	Net total	Subtotal without tax	Subtotal with tax	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

Item

Item (PLU / Subdepartment / Department)

0	1	2	3	5	7	9	11	13	18	23	28	30	50
Mc ID	03	Type*2	File-#*1	Rec-#*1	Tax status *3	Item status *4	Void reason	Quantity	Amount	Unit price	Pull-down group rec-#	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	

Type

0: Total operation
1: Change operation
2: Partial tender operation

*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:

Same composition as the item tax status. Refer to 7-2-6 section of the programming manual.

*4 Item status:

b6~: not used, b5: 2nd@registration, b4: house Bon registration,
b3: not used, b2: <REFUND> registration, b1: <VOID> registration

Application System

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	

+ / - / 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	File-#*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	

*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:

Same composition as the item tax status. Refer to 7-2-6 section of the programming manual.

*4 Item status:

b6~: not used, b5: 2nd@registration, b4: house Bon registration,
b3: not used, b2: <REFUND> registration, b1: <VOID> registration

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	Taxable amount 1	Taxable amount 2	Taxable amount 3	Taxable amount 4	Taxable amount 5	Taxable amount 6	Taxable amount 7	Not Used	
Field name						Taxable amount 1	Taxable amount 2	Taxable amount 3	Taxable amount 4	Taxable amount 5	Taxable amount 6	Taxable amount 7		
Tax system						TA1	TA2	TA3	TA4	TA5	TA6	TA7		
VAT						TA1	TA2	TA3	--	--	--	--		
U.S.						TA1	TA2	TA1 & 2	TA3	TA1 & 3	TA4	TA1 & 4		
Canada						TA1	TA2	TA2	TA 2 & 3	TA3	--	--		
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	

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	

*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:

Same composition as the item tax status. Refer to 7-2-6 section of the programming manual.

*4 Item status:

b6-: not used, b5: 2nd@registration, b4: house Bon registration,

b3: not used, b2: <REFUND> registration, b1: <VOID> registration

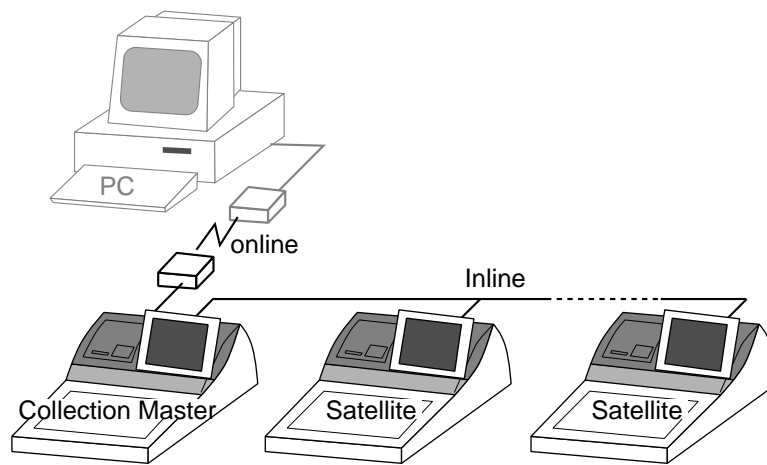
2-12-5. IDC data type

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_PLT_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_TRAY_TTL	79	Tray total
DTLTYPE_RC	96	RC
DTLTYPE_PD	97	PD
DTLTYPE_MEDIA_CHG	98	Media 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

* 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.

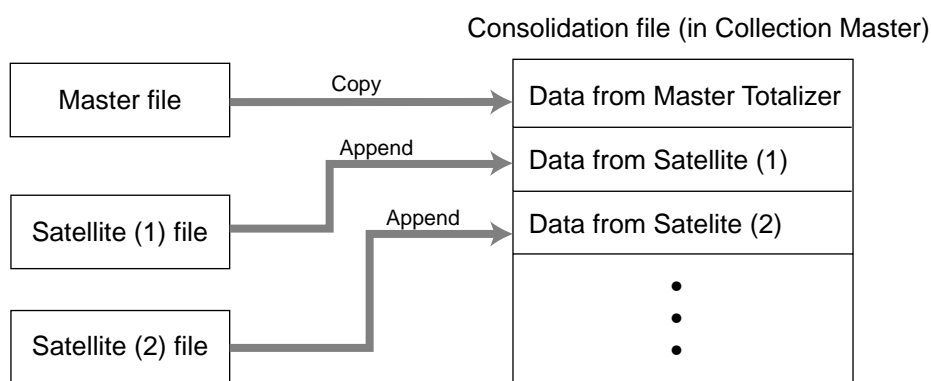


Flow of the transferring IDC

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.



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

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 transaction data including programming, report issuing, even flag clearing are always stored to the electronic journal memory. It cannot be stopped until 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 49 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 electronic journal read or reset report by date or by consecutive number. Refer to the page 142 of this manual.

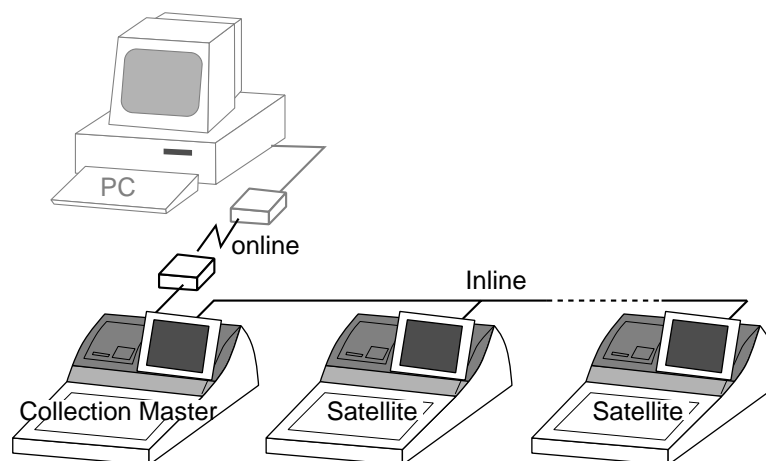
2-13-3. Displaying electronic journal and producing guest receipts after sales

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.

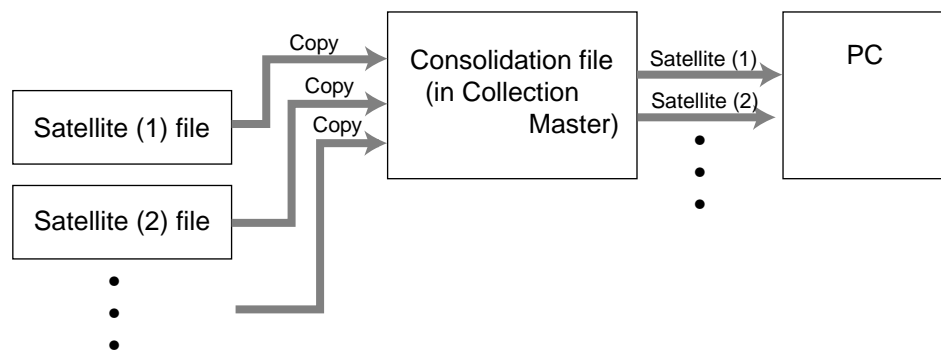


Flow of the transferring electronic journal

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.



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3. Manager operation

This section describes manager operations (such as machine initialization, IPL, manager functions etc.) of TE-7000S series.

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.

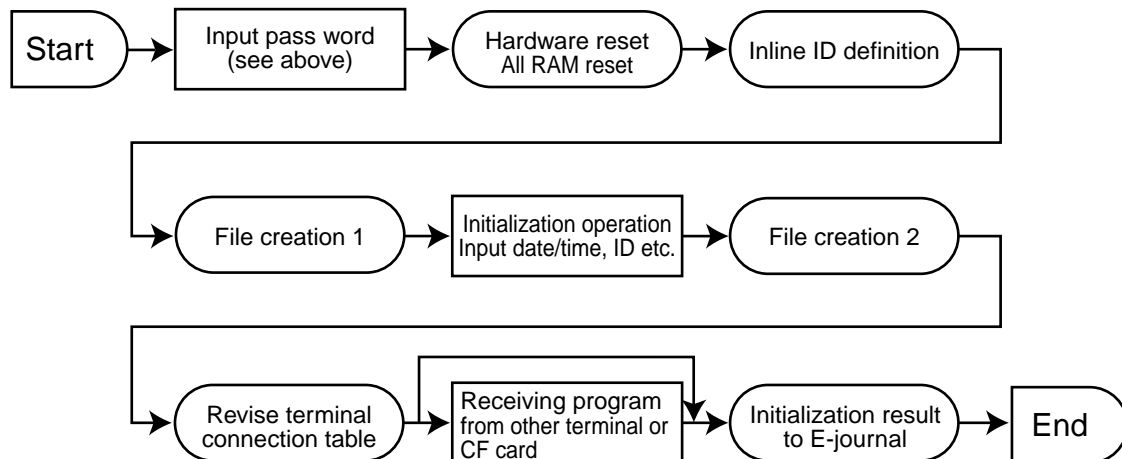
Operation	Password	Digit meaning
Init	**nn00020000	for the U.S.
	**nn00010000	for other area (default descriptors are initialized in English)
	**nn00040000	for other area (default descriptors are initialized in German)
	**nn00050000	for other area (default descriptors are initialized in French)
	**nn00060000	for other area (default descriptors are initialized in Spanish)
	**nn00080000	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.

** nn = Machine ID (omissible)

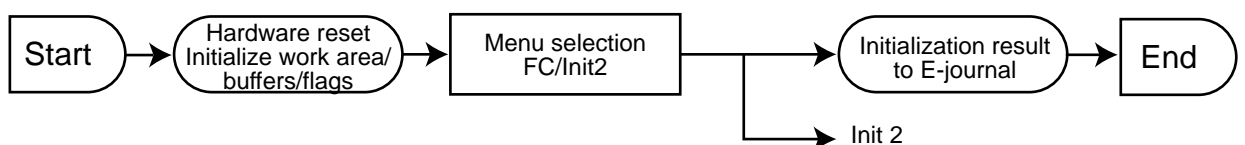
3-1-1. INIT

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

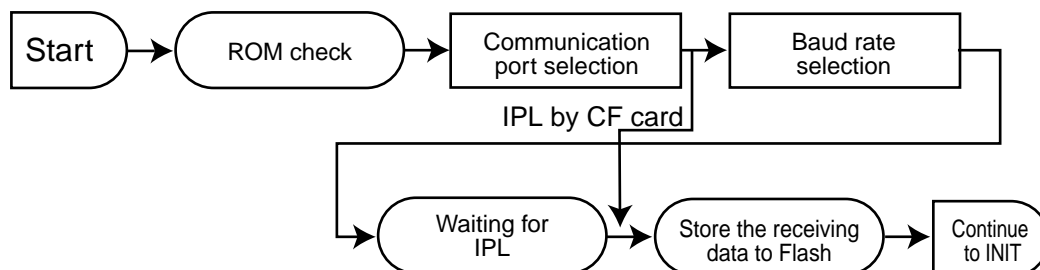
Description	Choice	Program code
Logical ID (01~32)-----Omissible	Significant number	<input type="checkbox"/> <input type="checkbox"/> D ₁₀ D ₉
Always "000"		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> D ₈ D ₇ D ₆
Area code: U.S. : 2 Other area (default descriptor in English) : 1 (default descriptor in German) : 4 (default descriptor in French) : 5 (default descriptor in Spanish) : 6 (using Arabic character table) : 8	Significant number	<input type="checkbox"/> D ₅
COM 4 Use remote printer-1 : 0	Significant number	<input type="checkbox"/> D ₄
COM3 Use remote printer-2 : 0 Use remote display : 3	Significant number	<input type="checkbox"/> D ₃
COM 2 Use slip printer (SP-1300) : 0 Use hand held scanner (HHS-15) : 1	Significant number	<input type="checkbox"/> D ₂
COM 1 Use XMODEM : 0	Significant number	<input type="checkbox"/> D ₁

3-2. IPL (Initial Program Loading)

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

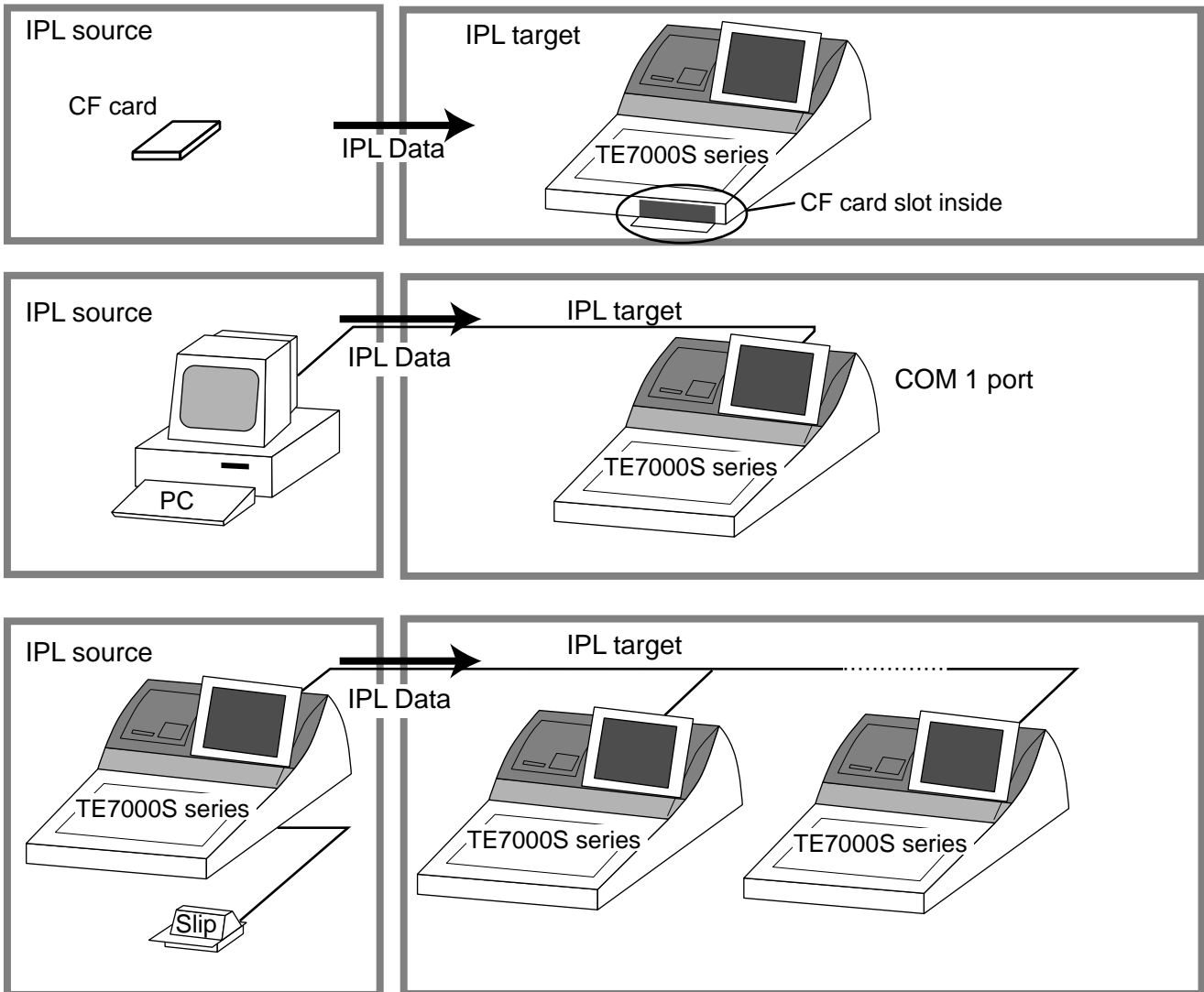
3-2-1. IPL

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



3-2-2. System configuration before IPL operation

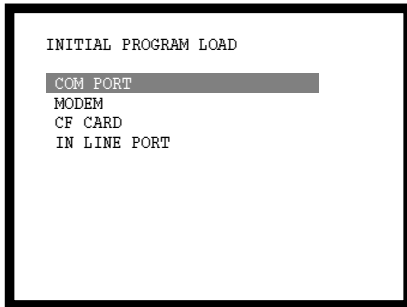
Connect source terminal (cash register terminal/PC) and target terminals or insert the IPL CF card to the terminal.



Note:

Load the same model's data.
(i.e. TE-7000S → TE-7000S, TE-8000F → TE-8000F, TE-8500F → TE-8500F)

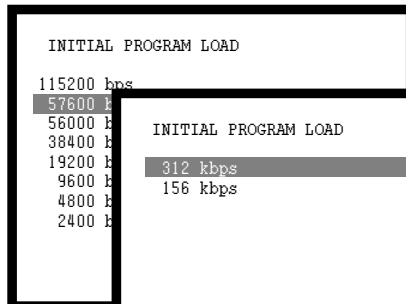
3-2-3. IPL operation



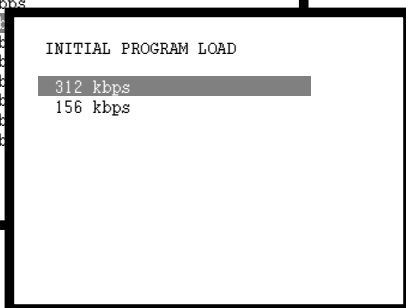
If you select “CF card”, insert the CF card into the slot before this step.

1. Select the appropriate method to loading IPL data and press the <YES> key.

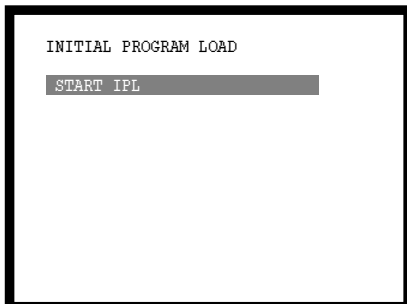
(using COM PORT)



(using INLINE PORT)



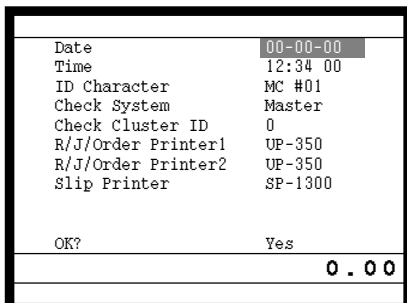
2. If you choose COM port or IN LINE port, select baud rate of the IPL source device and press the <YES> key.



3. Press the <YES> 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.

Source device activation except from CF card is necessary at this timing.

In case of selecting via inline, refer to the “Auto-program” section in this chapter.



4. After finishing IPL, machine initialization is necessary.

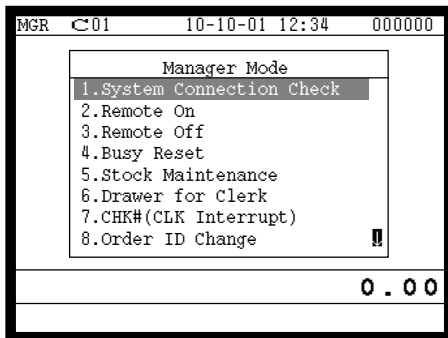
3-3. Manager function

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 number

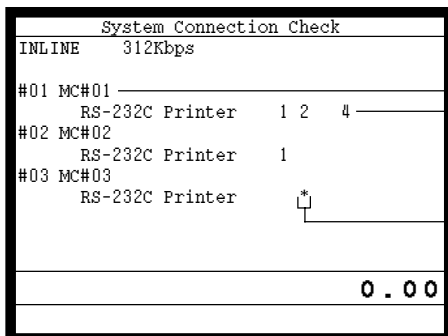
3-3-1. System connection check

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



1. Sign on a clerk (if necessary).
2. Press <X/Z MODE> repeatedly to assign manager mode.

3. Select "1. System Connection Check" and press the <YES> key.



Physical ID, Logical ID
RS-232C printer recognition (1: printer (1), 2: printer (2), 4: slip printer)

Un recognized RS-232C printer

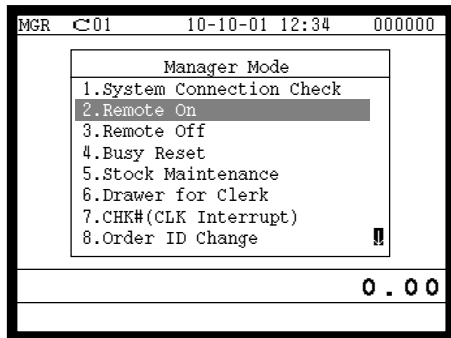
4. After checking the system connection, press the <ESC> key to return the previous menu.

Note:

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

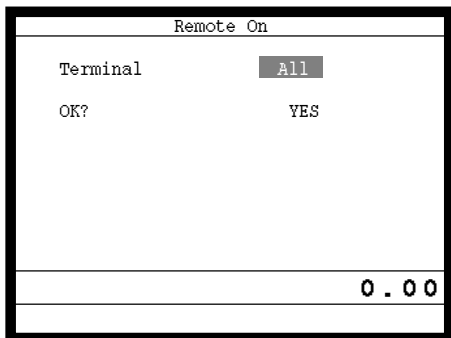
3-3-2. Remote on

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



1. Sign on a clerk (if necessary).
2. Press <X/Z MODE> repeatedly to assign manager mode.

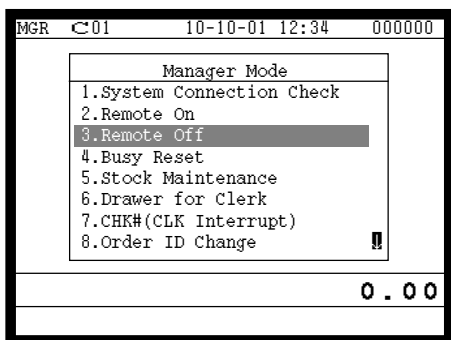
3. Select "2. Remote On" and press the <YES> key.



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

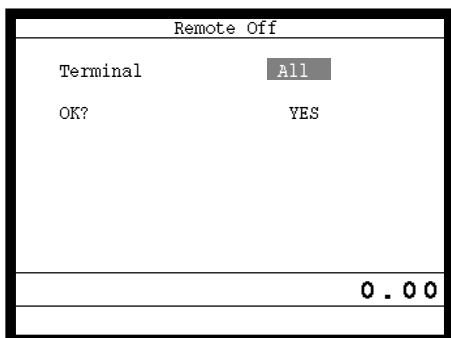
3-3-3. Remote off

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



1. Sign on a clerk (if necessary).
2. Press <X/Z MODE> repeatedly to assign manager mode.

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

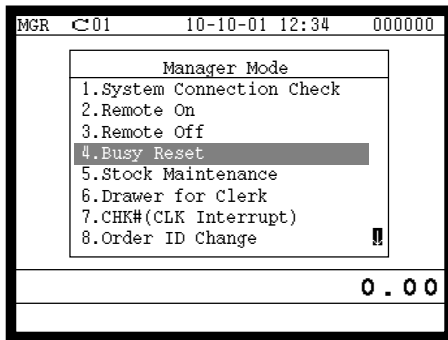


4. Select all terminals or individual terminal, select "YES" to execute this command.

Note: In case of waking up a terminal manually, enter **999999999** and press the <YES> key.

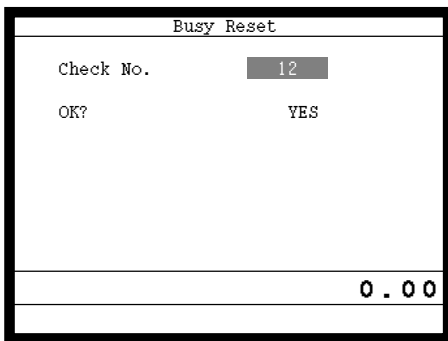
3-3-4. Busy reset

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.

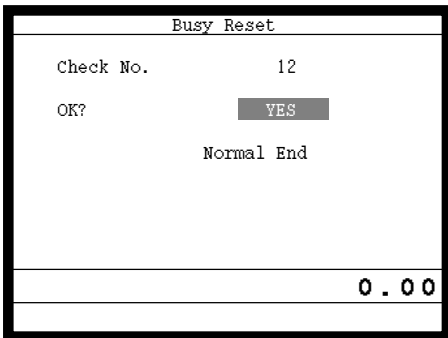


1. Sign on a clerk (if necessary).
2. Press <X/Z MODE> repeatedly to assign Manager Mode.

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



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



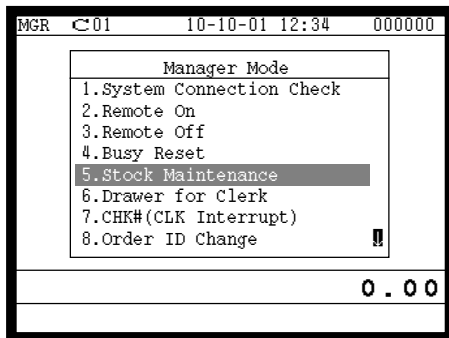
JOURNAL

Busy Reset			
REG	03-04-2003	11:55	
C01	MC #01	000036	
#009999		15CT	
CHECK No.	1234		
		- 100.00	

Reset index

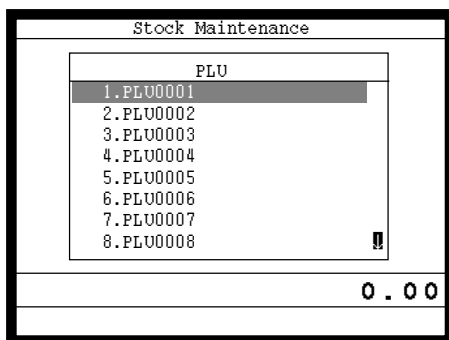
3-3-5. Stock maintenance

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

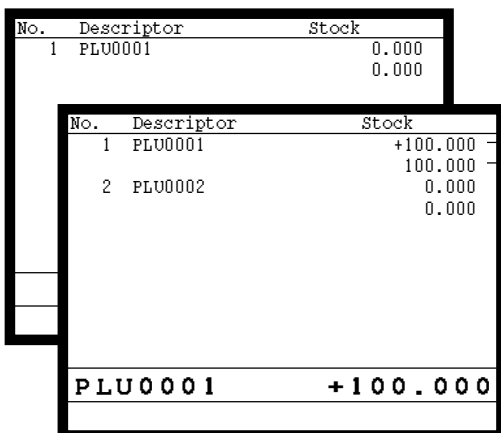


1. Sign on a clerk (if necessary).
2. Press <X/Z MODE> repeatedly to assign manager mode.

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



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



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.

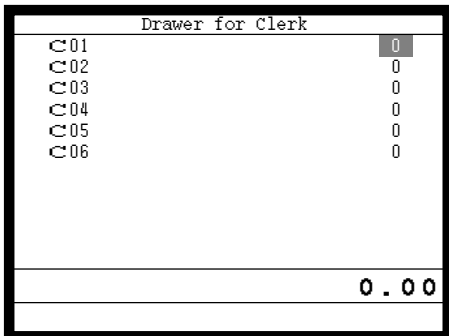
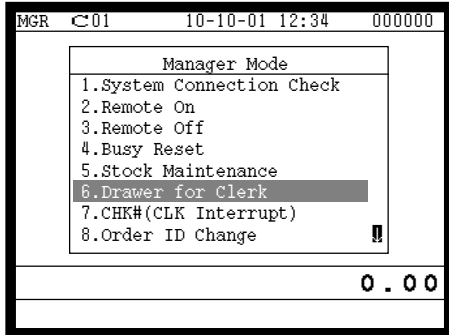
7. Press the <ESC> key to issue receipt.

RECEIPT

Stock Maintenance		
No.	Descriptor	Stock
1	PLU0001	
		+100.000
		100.000
000002	PLU0002	
		0.000
		0.000

3-3-6. Drawer for clerk

This command is used to designate the drawer 1 ~ 4.



1. Sign on a clerk (if necessary).
2. Press <X/Z MODE> repeatedly 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, 2, 3 or 4, “0” means drawer 1), and press the <YES> key.
5. Press the <ESC> key to return to the previous menu.

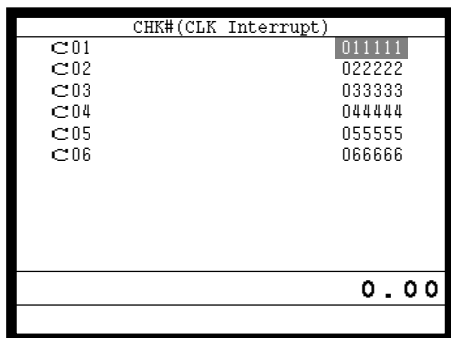
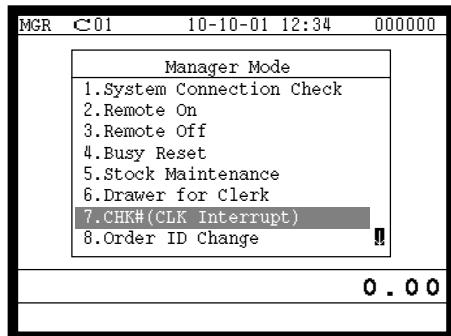
JOURNAL

Drawer for Clerk	
C01	1
C02	2
C03	3
:	

Drawer number

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

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



1. Sign on a clerk (if necessary).
2. Press <X/Z MODE> repeatedly 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.

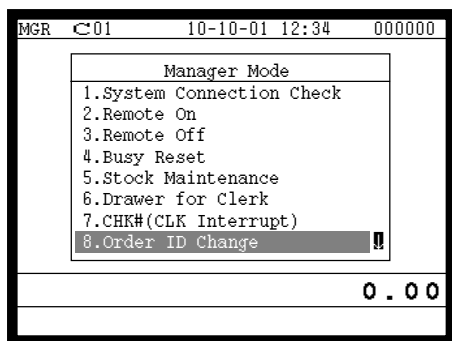
JOURNAL

CHK#(CLK Interrupt)	
C01	011111
C02	022222
C03	033333
:	

Check number

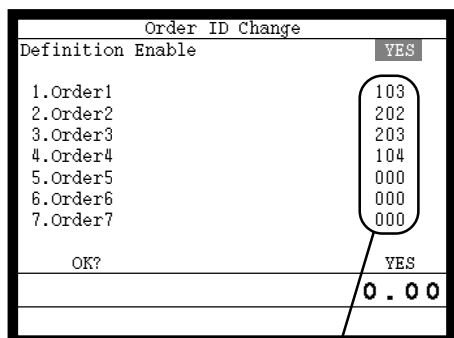
3-3-8. Order ID change

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



1. Sign on a clerk (if necessary).
2. Press <X/Z MODE> repeatedly to assign manager mode.

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



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.

5. Press the <ESC> key to return to the previous menu.

$D_3D_2D_1$

Note: $D_3 D_2 D_1$

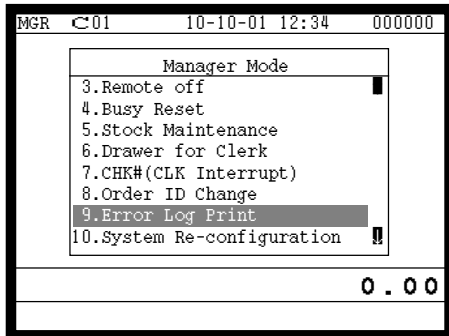
In case of $D_3 = 1$, D_2 & D_1 defines the terminal physical ID that connect to printer-1.
 In case of $D_3 = 2$, D_2 & D_1 defines the terminal physical ID that connect to printer-2.
 In case of $D_3 D_2 D_1 = 999$, it defines internal printer of the terminal

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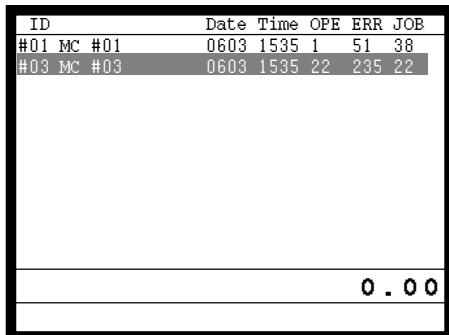
Order ID Change	
Definition Enable	Yes

3-3-9. Error log print

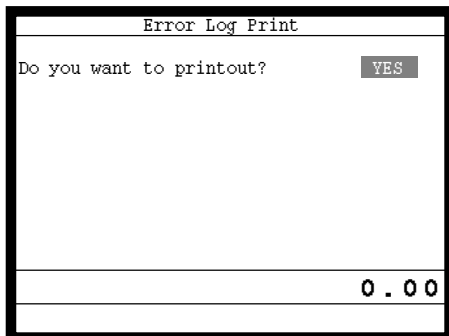
This command is used to display / print out the error log file.



1. Sign on a clerk (if necessary).
2. Press <X/Z MODE> repeatedly to assign manager mode.



3. Select "9. Error Log Print" and press the <YES> key.



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

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

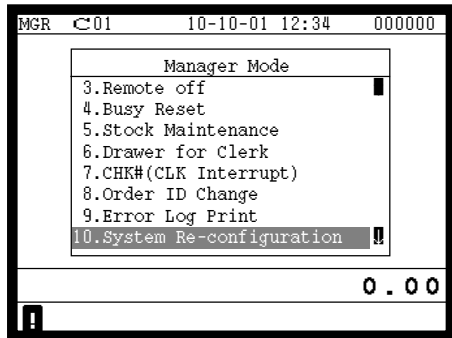
Error Log Print					
ID	Date	Time	OPE	ERR	JOB
#01 MC #01	0603	1535	1	51	38
#03 MC #03	0603	1535	22	235	22
#00	0000	0000	0	0	0

3-3-10. System re-configuration

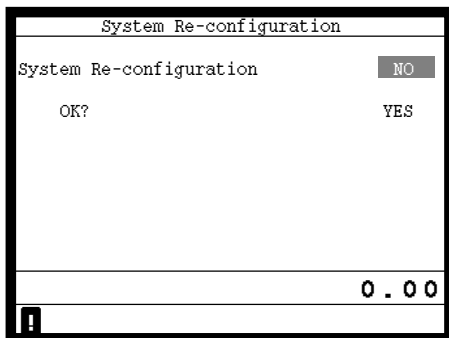
This command is one procedure of down recovery. It backs the contents of the system connection table to the original value.

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 “System re-configuration” icon is lit.



Cut-off Master or Backup master icon



1. Sign on a clerk (if necessary).
2. Press <X/Z MODE> repeatedly to assign manager mode.

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

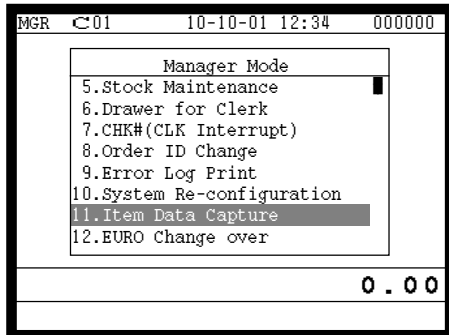
4. Choose the option “YES (Perform system re-configuration) / NO (Abort this procedure)” and press the <YES> key.

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System Re-configuration

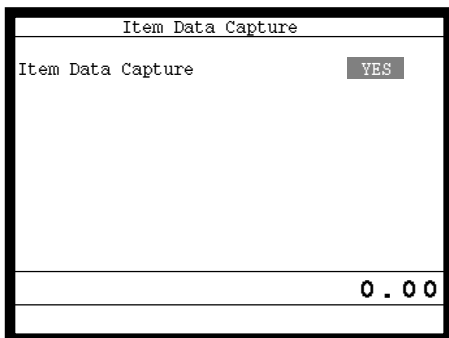
3-3-11. Item Data Capture

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



1. Sign on a clerk (if necessary).
2. Press <X/Z MODE> repeatedly to assign manager mode.

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



4. Choose the option "YES (capture item data) / NO (not capture item data)" and press the <ESC> key.

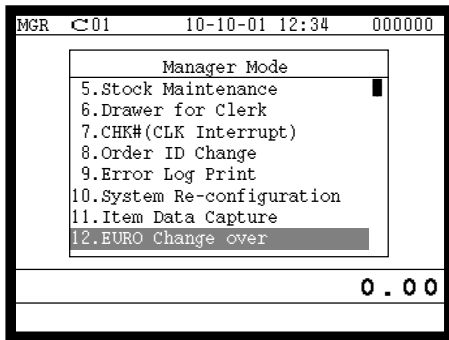
3-3-12. Euro change over

After this operation, the following subjects are made:

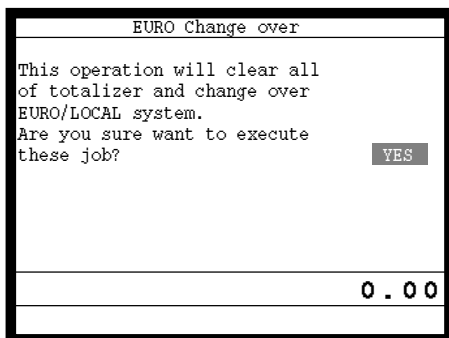
- (1) The Euro is defined as main currency and the local as sub currency.
- (2) All totals and counts are reset.
- (3) Unit prices (department, subdepartment, PLU, 2nd @, shift PLU) are converted in Euro.

Before “change over operation”,

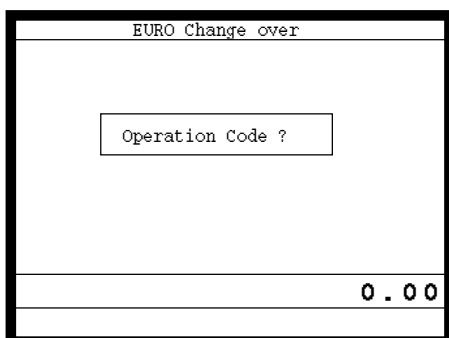
- (1) Issue all reset report including open check report, if necessary.
- (2) Sign off all cashier/clerk and stop all operations of all terminals of the system.



1. Sign on a clerk (if necessary).
2. Press <X/Z MODE> repeatedly to assign manager mode.



3. Select “12. EURO Change over” and press the <YES> key.



4. If you want to proceed this step, press the <YES> key. To abort this step, press the <NO> or <ESC> key.

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

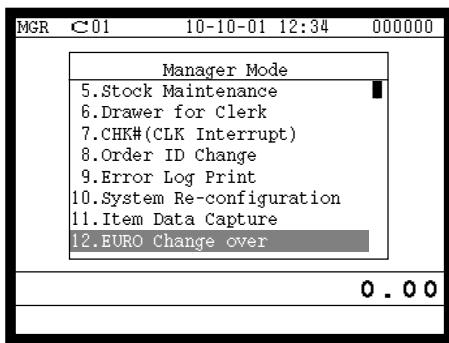
EURO Change over
Done update EURO rate and symbols.
Please check unit price and fix totalizer euro-in-drawer title character.

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

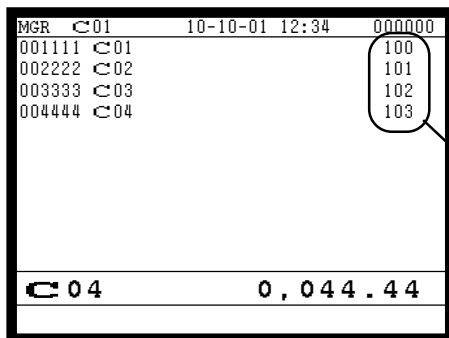
Manager Operation

3-3-13. Clerk number

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



1. Sign on a clerk (if necessary).
2. Press <X/Z MODE> repeatedly 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.

JOURNAL

Secret number for CLK# key		
001111	C01	100
002222	C02	101
003333	C03	102
004444	C04	103

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 → D₇D₆D₅D₄D₃D₂D₁ <#-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)
	4	Out of stock
D ₅	0	Always "0"
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
	3	Issuing daily consolidation area
	4	Issuing periodic 1 consolidation area
	5	Issuing periodic 2 consolidation area
D ₂ D 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
	25	Open check
	28	Table analysis
	58	Electronic Journal
	22	Void reason
	81 ~ 88	Menu sheet 1 ~ 8
	71	Flash
	24	Hourly / Labor
	29	Employee
	31	Hourly item
67	IDC (1) clear	
68	IDC (2) clear	
69	IDC (3) clear	

Manager Operation

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

X/Z collection / consolidation execution

Inline X/Z mode → D₁₄D₁₃D₁₂D₁₁D₁₀D₉D₈D₇D₆D₅D₄D₃D₂D₁ <#-2> → <ESC>

Meaning of the command data

Digit	Value	Meaning
D ₁₄ ~D ₁₀	11110	Collection
	11111	Consolidation
	11112	Collection and Consolidation
D ₉ D 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	Always "0"
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 ₂ D 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	

3-4-3. Remote power control

Remote power control execution

Manager mode → $D_4D_3D_2D_1$ <#-2>

Meaning of the command data

Digit	Value	Meaning
D_4D_3	00	All terminal
	01 ~ 32	Terminal ID of individual terminal
D_2D_1	10	Remote power on
	11	Remote power off

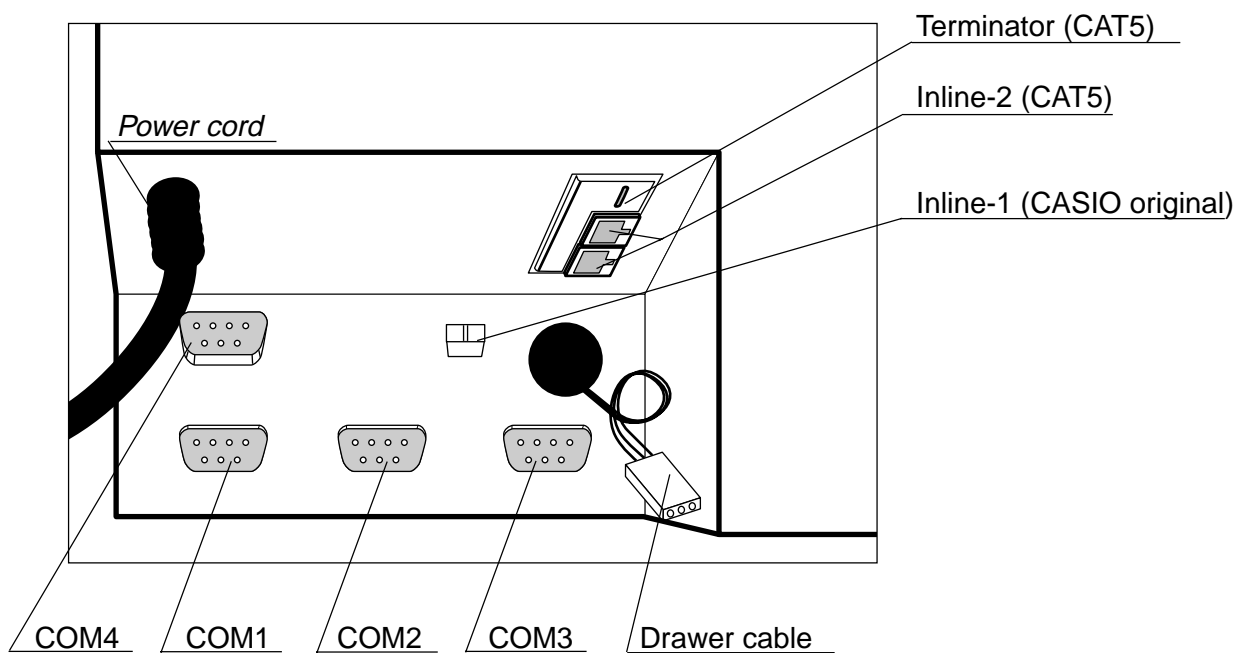
3-5. Data Communication System

The following details the inline and online data communication functions available with the TE-7000S series system.

3-5-1. Inline / online connectors

With the TE-7000S series, there are the following inline / online connectors in the rear side of the body.

Inline	(Standard)	INLINE-1 or INLINE-2
RS-232C COM1	(Standard)	For MODEM or PC direct connection
RS-232C COM2	(Standard)	For Hand held scanner, Slip printer, or Remote printer
RS-232C COM3	(Standard)	For Remote customer display, Slip printer, or Remote printer
RS-232C COM4	(Standard)	For Remote printer or Slip printer



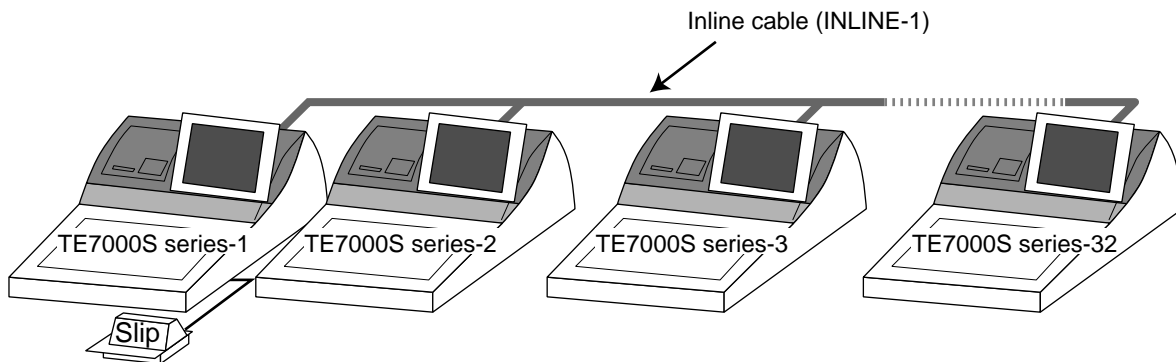
3-5-2. Hardware interface

With the TE-7000S series, there are the following inline / online connectors in the rear side of the body.

3-5-2-1. Inline interface

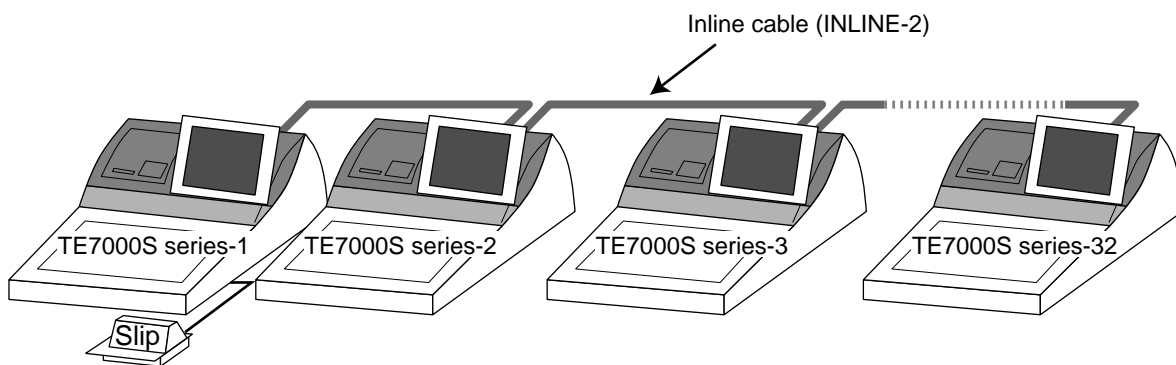
The maximum inline cable length and the maximum connection unit will be varied by the inline communication speed as shown below list.

By CASIO original inline cable (INLINE-1)



Inline communication speed (bps)	Maximum connection units (terminals)	Maximum cable length (m)
312 k bps	20	430
156 k bps	32	890

By CAT5 cable (INLINE-2)



Inline communication speed (bps)	Maximum connection units (terminals)	Maximum cable length (m)
312 k bps	32	230
312 k bps	8	420
312 k bps	4	450

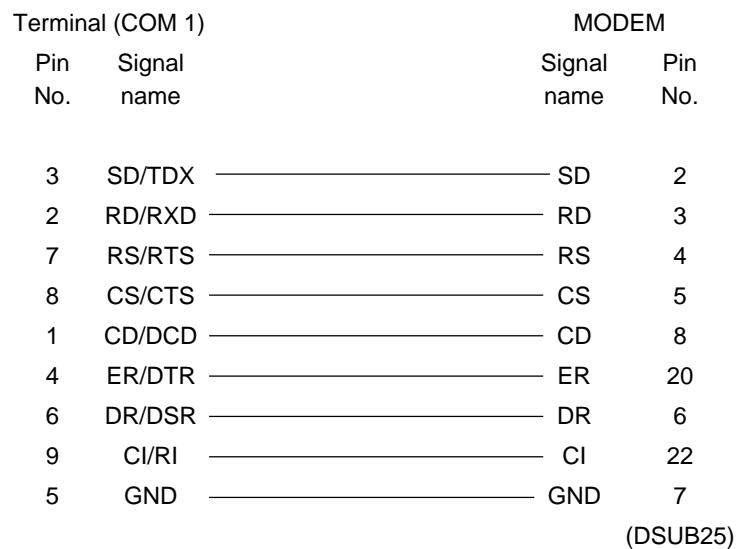
3-5-2-2. Online interface

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

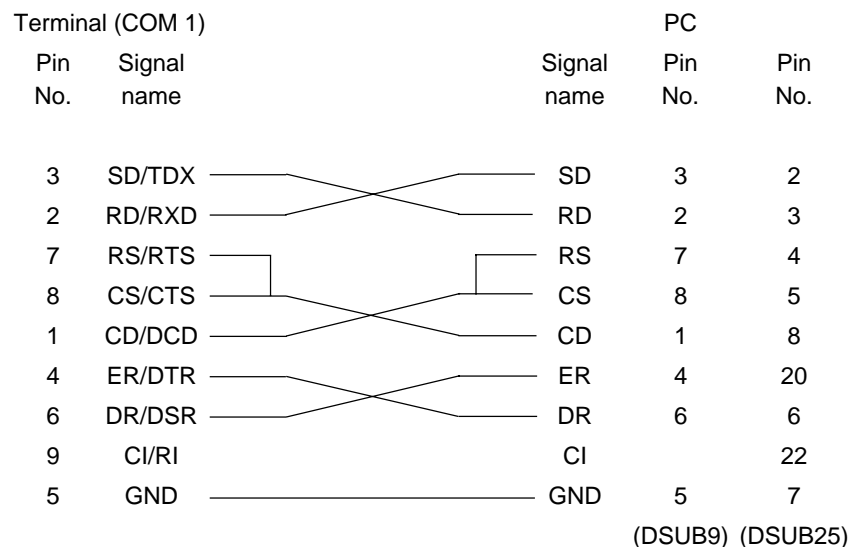
1) Specification of RS-232C COM 1 port

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



3-5-3. Inline / online functions

3-5-3-1. Inline functions

The list below shows the main functions available with the TE-7000S series system. In case of these functions below are executed, “remote power on: power on automatically” is performed 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 TE-7000S series can be controlled from the personal computer by connecting it to RS-232C port 1 (COM1).

In case of sending a command from PC, “remote power on: power on automatically” is performed 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 TE-7000S series. 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 or at the reset point of the daily files, 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

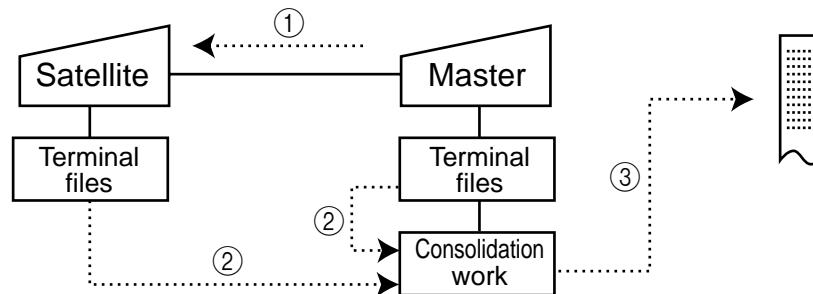
File description	Terminal files			Consolidation files			Consolidation work
	Daily total	Periodic 1 total	Periodic 2 total	Daily consolidation	Periodic 1 consolidation	Periodic 2 consolidation	
Fixed totalizer	001	101	201	301	401	501	601
Transaction key	002	102	202	302	402	502	602
Subdepartment	003	103	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

3-6-1. X/Z collection

This is used when it is desirable 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

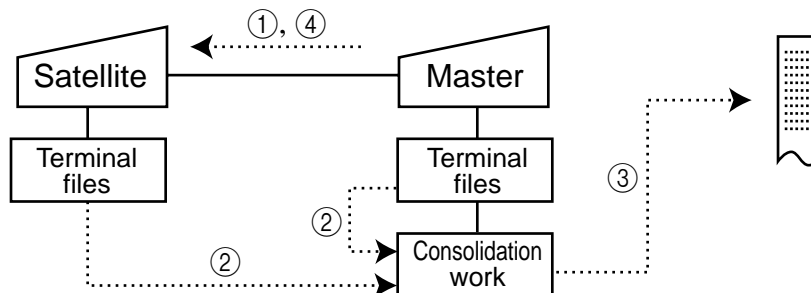
X collection processing is performed as the figure shown below.



- 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.

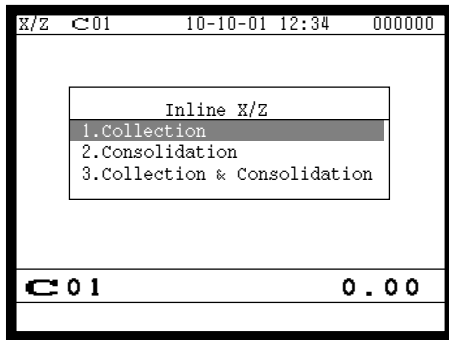


- ① When a Z collection command is started up from the master terminal, the master first locks one objected terminal. (Z lock)
- ② The objected terminal sends its report data to the consolidation work file of the master terminal.
- ③ Report data from the satellite terminal file are printed out on the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

NOTE:

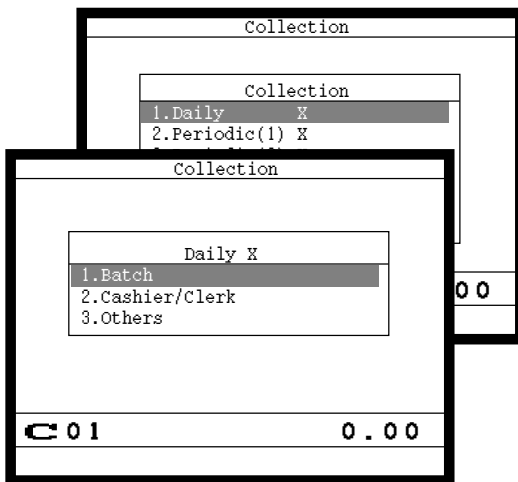
- When a Z collection is performed, the consolidation data cannot be output. If output of consolidation data is desired, perform "collection/consolidation" processing described later.
- Even if an error is occurred, or if the processing is terminated, the data to be collected remains as they are, and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

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

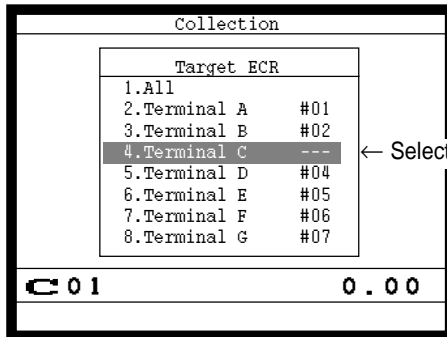


1. Sign on a clerk (if necessary).
2. Press <X/Z MODE> repeatedly to assign Inline X/Z.

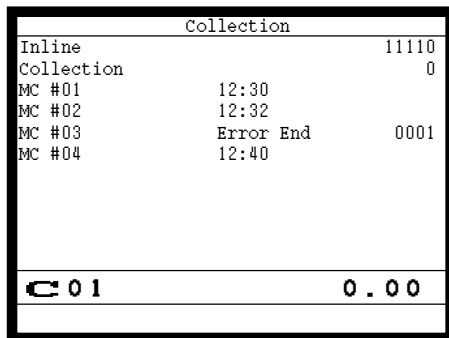
3. Select "1. Collection" and press the <YES> key.



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



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



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

3-6-2. X/Z consolidation

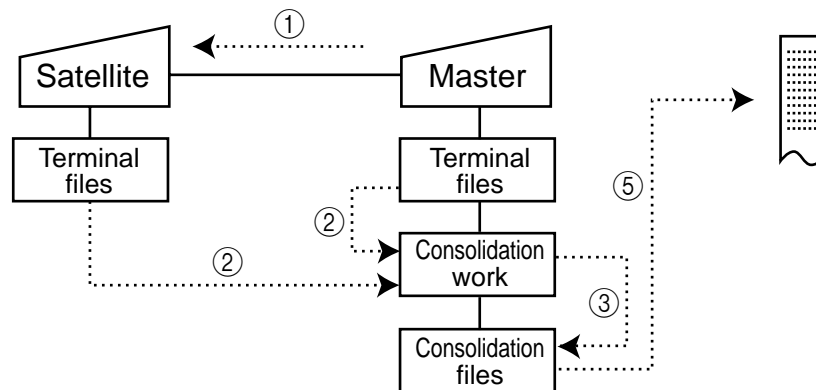
This is used when it is desirable to obtain the sum of counters and totals of all objected terminals in the store.

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

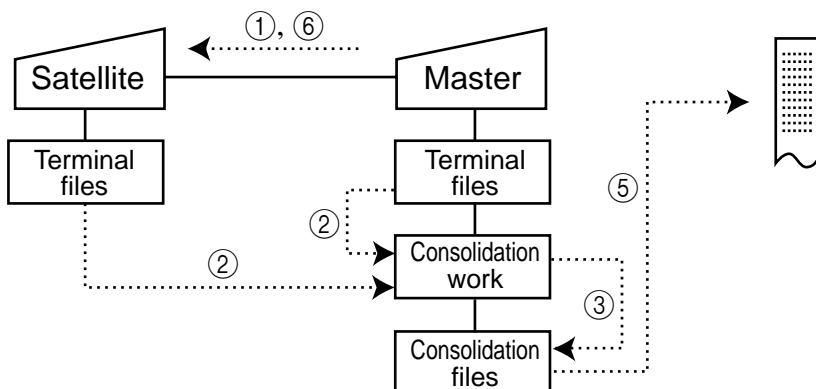
X consolidation processing is performed as the figure shown below.



- 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.



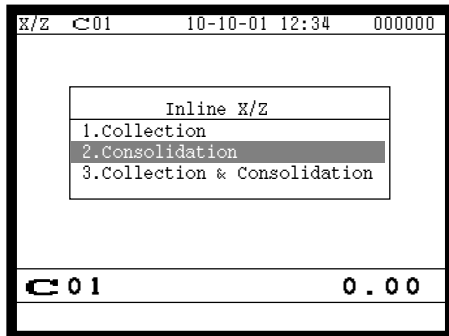
- ① A Z consolidation command is started up from the master terminal. The master first locks an objected terminal. (Z lock)
- ② Data of the objected terminal files are sent to the master terminal, and are copied to the consolidation work file.
- ③ The data in the consolidation work file is added to the 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:

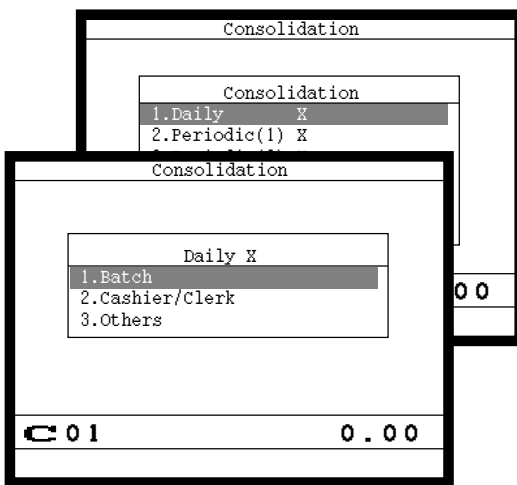
- Even if an error is occurred, or if the processing is terminated, the data to be collected remains as they are, and Z lock statuses are automatically released. Therefore, retrying the same operation can be performed.

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

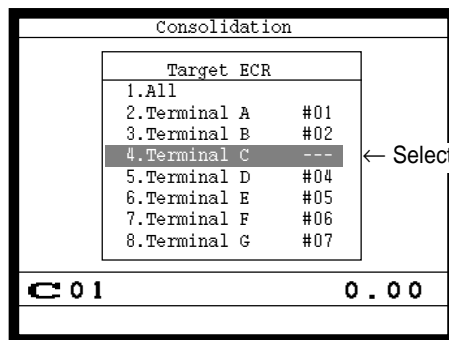
1. Sign on a clerk (if necessary).
2. Press <X/Z MODE> repeatedly to assign Inline X/Z.



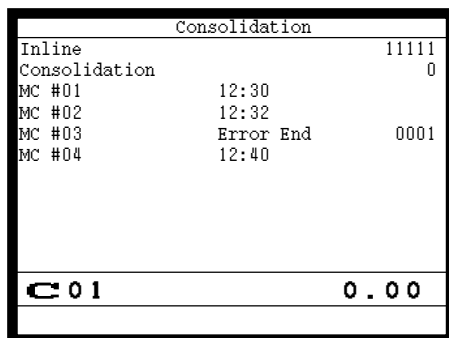
3. Select “2. Consolidation” and press the <YES> key.



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



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



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

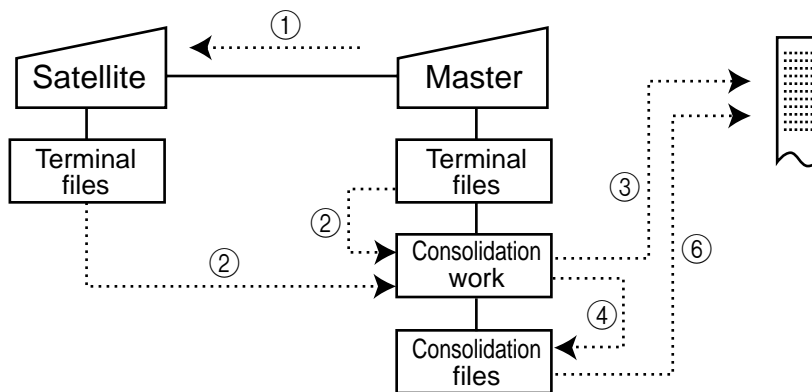
3-6-3. X/Z collection / consolidation

This is used when it is desirable 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

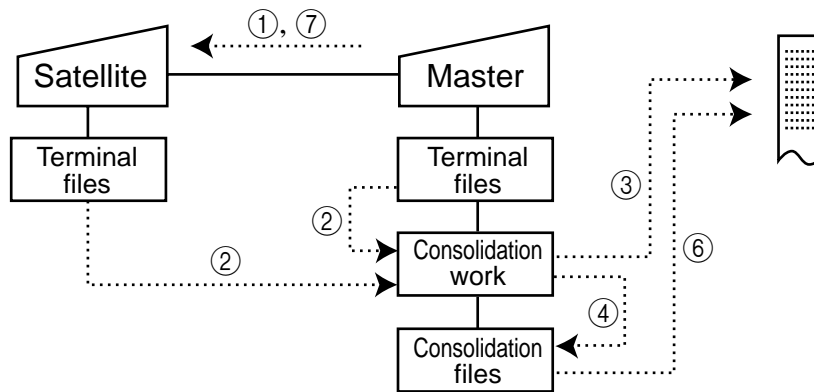
X collection/consolidation processing is performed as the figure shown below.



- 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.



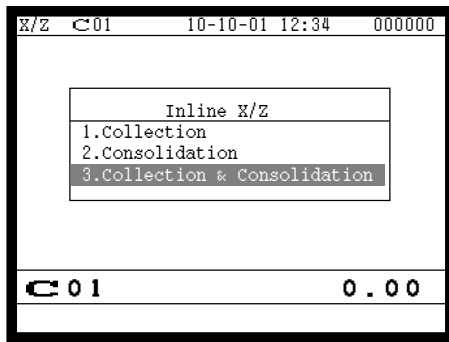
- ① A Z collection / consolidation command is started up from the master terminal. The master first locks an objected terminal. (Z lock)
- ② Data of the objected terminal file are sent to the master terminal, and are copied to the consolidation work file.
- ③ The data in the consolidation work file are 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:

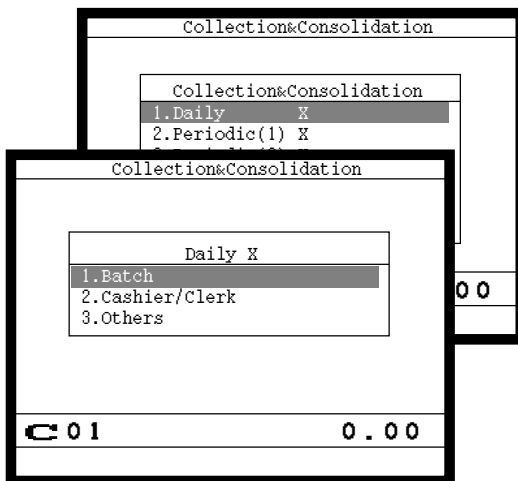
- Even if an error is occurred, or if the processing is terminated, the data to be collected remains as they are, and Z lock statuses are automatically released. Therefore, retrying the same operation can be performed.

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

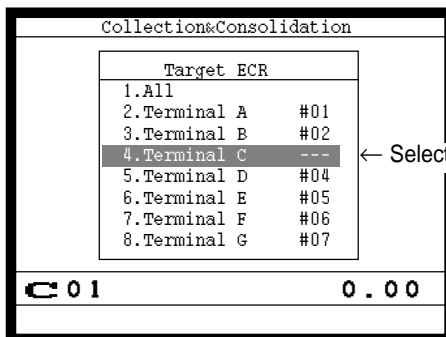
1. Sign on a clerk (if necessary).
2. Press the <X/Z MODE> key repeatedly to assign Inline X/Z.



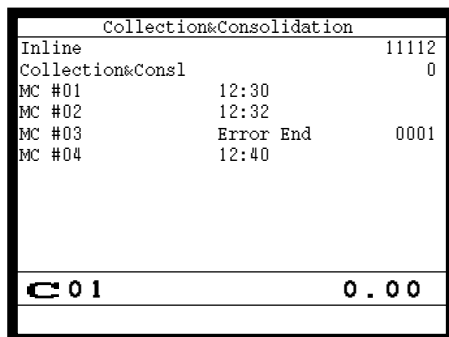
3. Select "3. Collection & Consolidation" and press the <YES> key.



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



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



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

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.

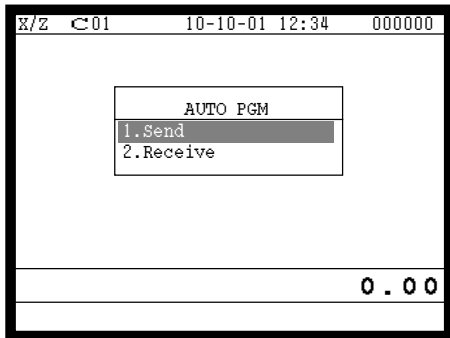
3-7-1. Auto programming functions

The TE-7000S series 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@).
- 5) Copy application programs to flash memory: (IPL by wire)
This function copies the application programs to flash memory.
Even by using this function, you cannot made the CF card for IPL.
Note: The target terminal should be in the IPL mode. (refer to page 87 of this manual)

3-7-2. Auto program operation and CF card utilities

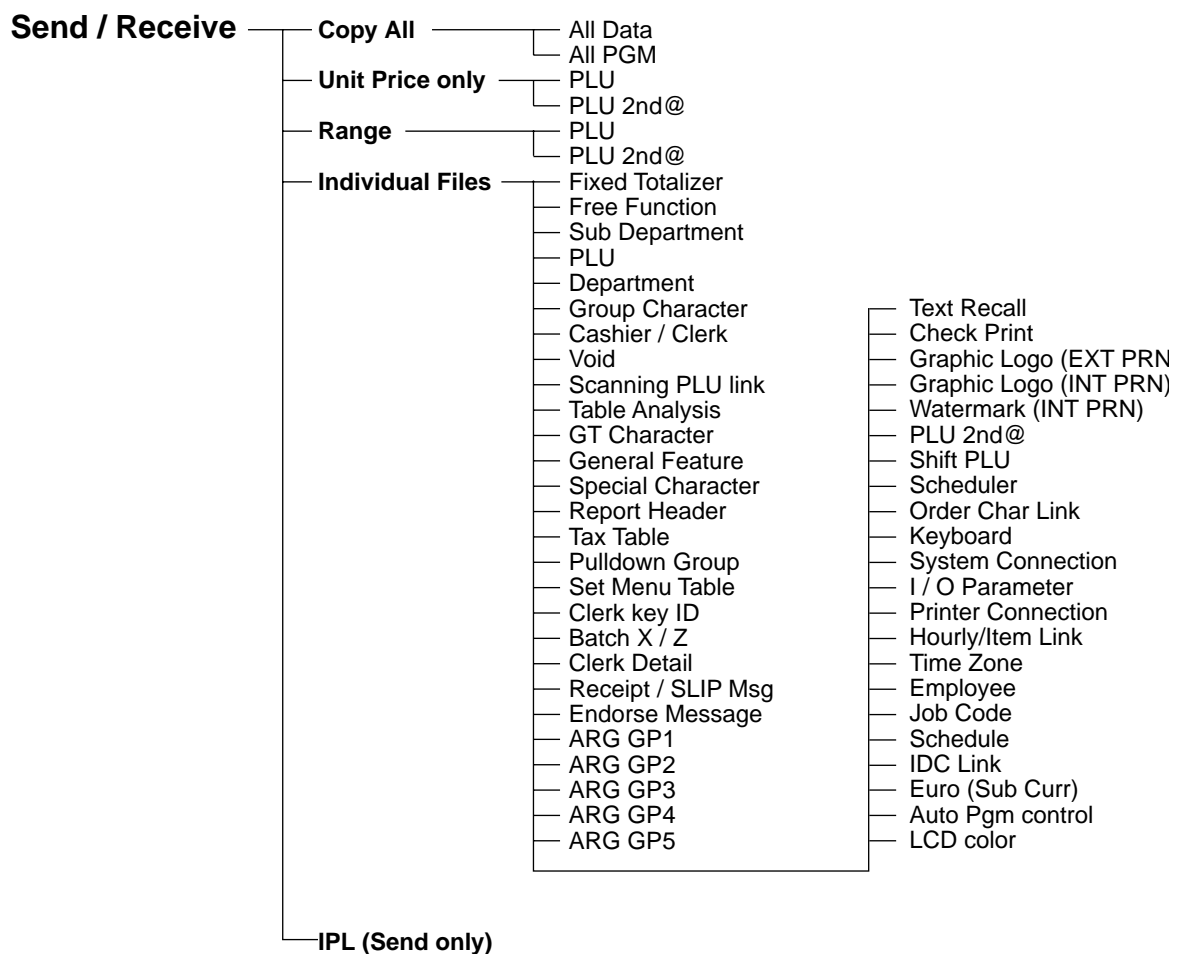
The procedures of auto program function



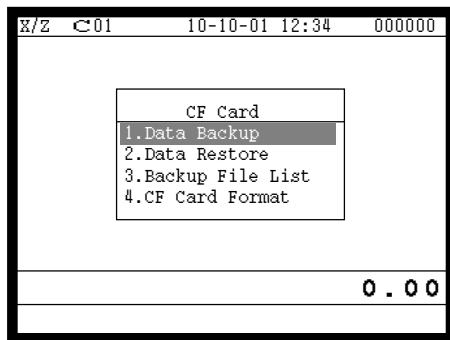
1. Sign on a clerk (if necessary)
2. Press the <X/Z Mode> key repeatedly to assign "AUTO PGM."

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



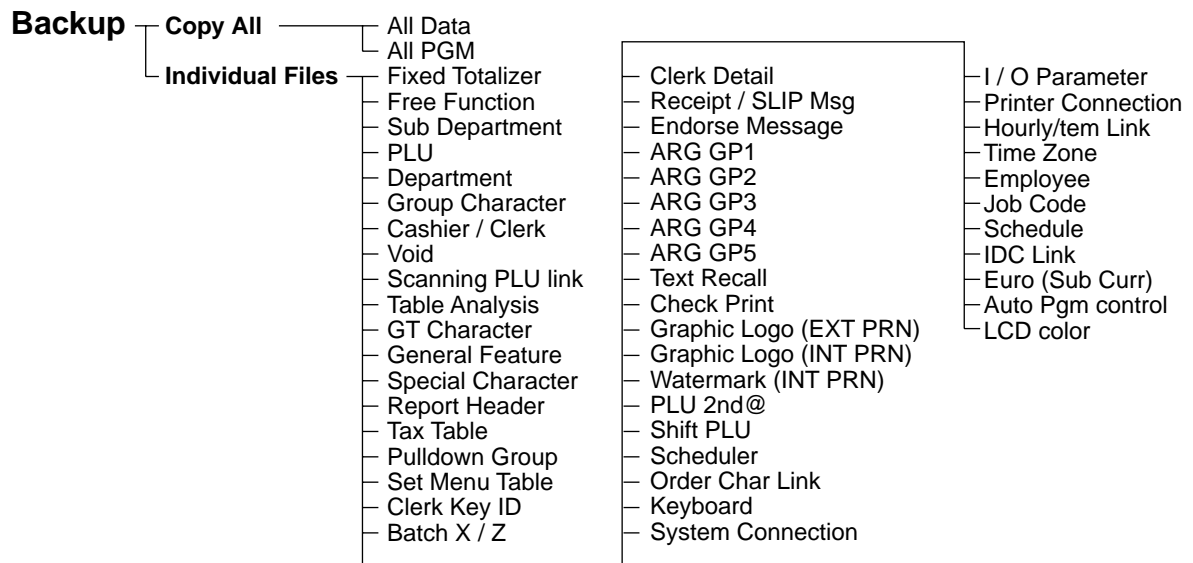
The procedure of Data Backup to the CF card



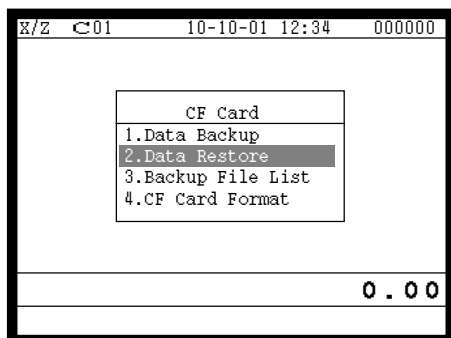
1. Sign on a clerk (if necessary)
2. Press the <X/Z Mode> key repeatedly to assign “CF card.”

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

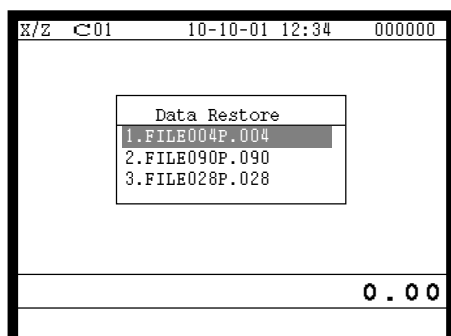


The procedure of Data Restore from the CF card



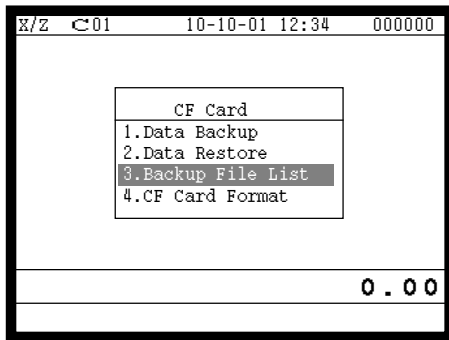
1. Sign on a clerk (if necessary)
2. Press the <X/Z Mode> key repeatedly to assign “CF card.”

3. Insert the CF card to the slot securely.
Select “2. Data Restore” and press the <YES> key.



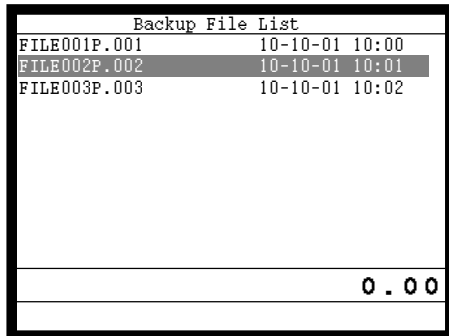
4. Select the appropriate file you want to restore.

The procedures of taking the file list of the CF card and deleting the file



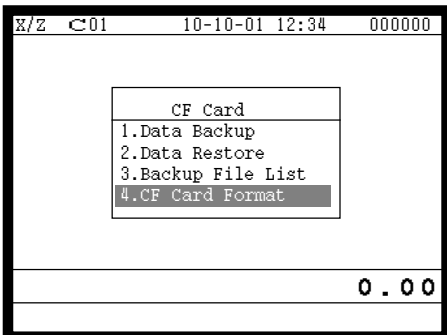
1. Sign on a clerk (if necessary)
2. Press the <X/Z Mode> key repeatedly to assign “CF card.”

3. Insert the CF card to the slot securely.
Select “3. Backup File List” and press the <YES> key.



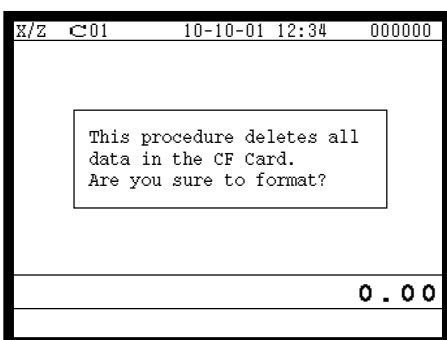
4. In case of deleting a file, select the appropriate file and press the <YES> key.

The procedures of formatting the CF card



1. Sign on a clerk (if necessary)
2. Press the <X/Z Mode> key repeatedly to assign “CF card.”

3. Insert the CF card to the slot securely.
Select “4. CF Card Format” and press the <YES> key.



4. Press the <YES> key to continue formatting, <NO> means abortion.

4. Registrations	R-124
4-1. Clerk sign on / off operation	R-124
4-2. Voiding the last registered item (<VOID> key operation)	R-125
4-3. Voiding the previous registered item (<VOID> key operation)	R-126
4-4. Cancelling of all data registered during the transaction	R-126
4-5. Using the list function	R-128
4-6. Using the set menu function and pulldown group function	R-129
4-7. Post entry	R-132
4-8. Separate check	R-133
4-9. Open check	R-134
4-9. Dutch account	R-134
4-10. Media change	R-135
4-11. Eat-in / Takeout	R-136
4-12. Scanning PLU	R-136
4-13. Shift PLU	R-137
4-14. Printing barcode on receipts (UP-350 only)	R-137
4-15. Round repeat function	R-138

4. Registrations

This section describes characteristic registrations of the TE-7000S series.

4-1. Clerk sign on / off operation

The following examples illustrate the clerk sign on / off operation.

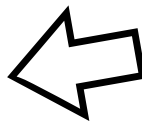
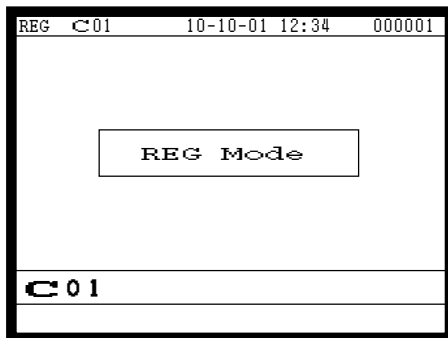
- When a clerk (Dallas) key is used, sign on operation can be performed by touching the clerk key receiver by the appropriate clerk (Dallas) key.

Note: After initialization, clerk 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.

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.)



1. Just press the appropriate <CLERK> key.

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.

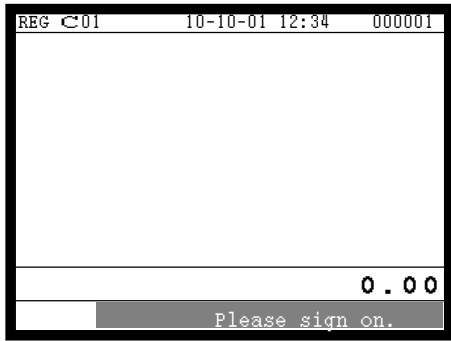


1. Press the <CLERK> key, if you want to display no clerk number entries.



2. Enter the appropriate clerk number and press the <CLERK> key.

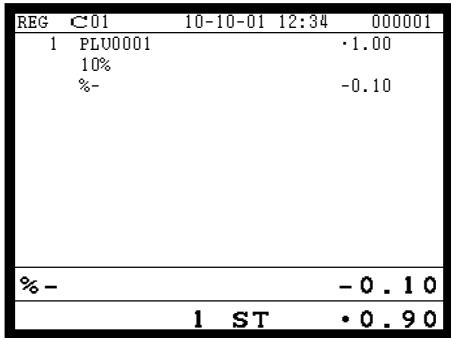
3) Clerk sign off operation



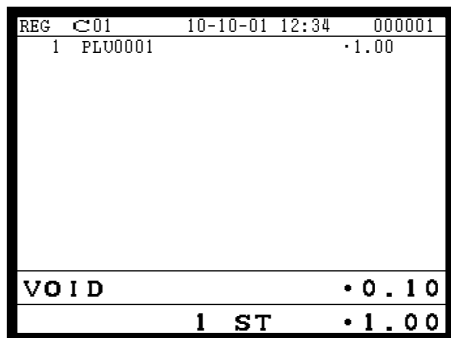
1. Enter "0" and press the <CLERK> key.

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.



1. Wrong registration is made.



2. Press the <VOID> key to cancel the data and reregister the transaction.

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 upper / lower 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

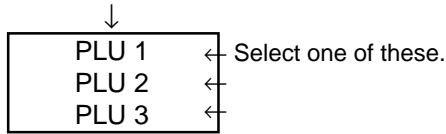
2. Press the <CANCEL> key.

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

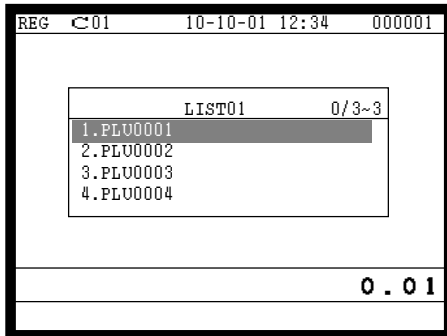
<LIST> or No. <LIST-#>



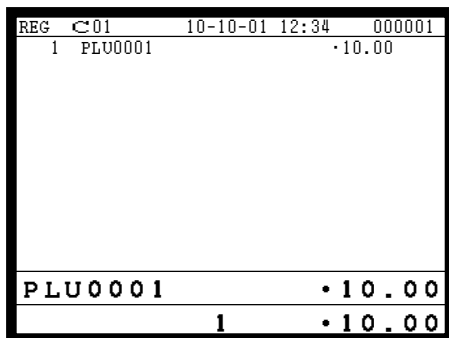
Before using the LIST function, the following programs are necessary to use this function.

- 1) Allocating the <LIST> key or the <LIST-#> key (page 22 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 32 of the programming manual)
- 3) Programming item price (page 163 of the programming manual)

Normal registration by using the <LIST> and <LIST-#> key

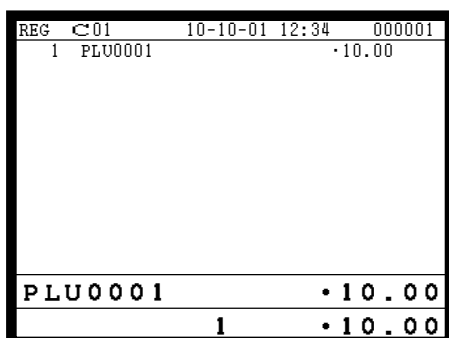


1. Press the <LIST> key or enter the list No. and press the <LIST-#> key.



2. Select the appropriate item and press the <YES> key.

Direct selection by using the <LIST> key



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 34 of the programming manual)
- 2) Programming PLU "Set menu table linking" (page 110 of the programming manual)
- 3) Programming item prices (page 163 of the programming manual)

REG	C01	10-10-01 12:34	000001
1	PLU0001		•10.00
	PLU0002	} Set Menu linked to PLU0001 (select "set menu breakdown printing")	
	PLU0003		
	PLU0004		
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 32 of the programming manual)
- 2) Programming PLU "List Link No." (page 110 of the programming manual)
- 3) Programming item prices (page 163 of the programming manual)

REG	C01	10-10-01 12:34	000001
1	PLU0001		•10.00
LIST01		0/3~3	
1.	PLU0010		
2.	PLU0011		
3.	PLU0012		
4.	PLU0013		
PLU0001			• 10.00
	1		• 10.00

REG	C01	10-10-01 12:34	000001
1	PLU0001		•10.00
1	PLU0012		•1.00
PLU0001			• 10.00
	2		• 11.00

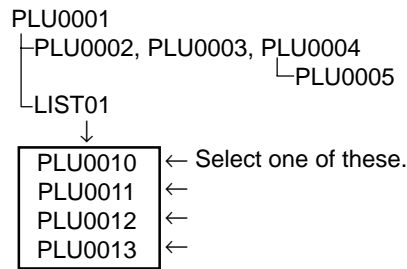
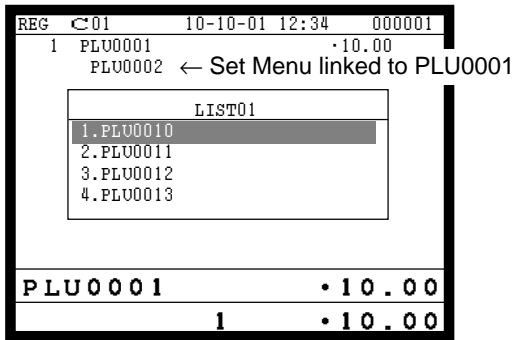
REG	C01	10-10-01 12:34	000001
1	PLU0001		•10.00
1	PLU0012		•1.00
1	PLU0015		
PLU0001			• 10.00
	2		• 11.00

1. Register the parent (main) PLU. The list linked appears.
2. Select the appropriate (child/grandchild) PLU and press the <YES> key.

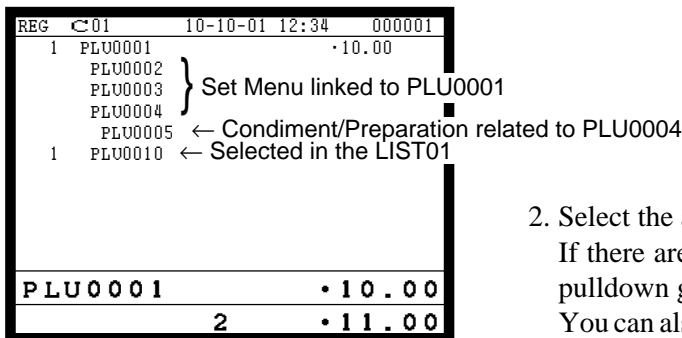
4-6-3. Using the set menu and pulldown group function

Before using the set menu and pulldown group function, the following programs are necessary to use this function.

- 1) Programming set menu table (page 34 of the programming manual)
- 2) Programming pulldown group table (page 32 of the programming manual)
- 3) Allocate the pulldown menu key, if you want to use. (page 22 of the programming manual)
- 4) Programming PLU "Set menu table linking" and "List Link No." (page 110 of the programming manual)
- 5) Programming item prices (page 163 of the programming manual)



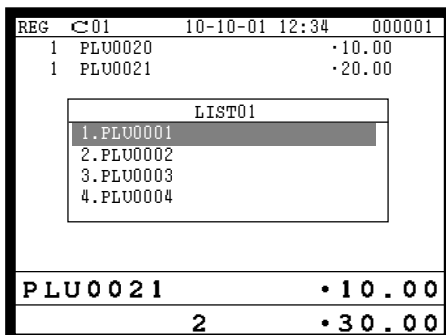
1. Registering a PLU linked to a set menu and pulldown group.



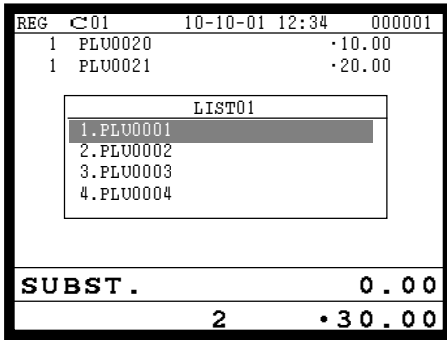
2. Select the appropriate item and press the <YES> key.
If there are more pulldown groups linked to the PLU, next pulldown group appears on the screen.
You can also select items directly by using the pulldown key.

4-6-4. Using the Substitution key

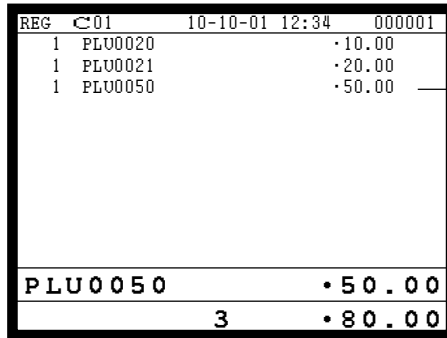
Normally, you can select item(s) in a pulldown group. If the customer requires to take an item from another set menu/pulldown group, the <SUBSTITUTION> key should be used.



1. A PLU linked to a pulldown group is registered, but no items in the list can be selected.



2. Press the <SUBSTITUTION> key.



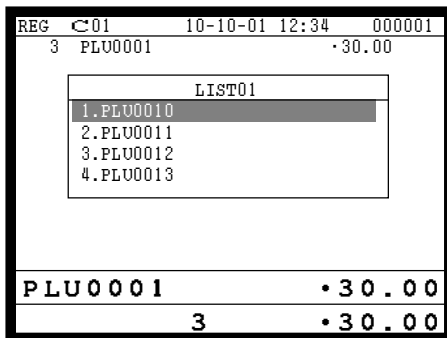
3. Register the appropriate item.

4-6-5. Inner multiplication

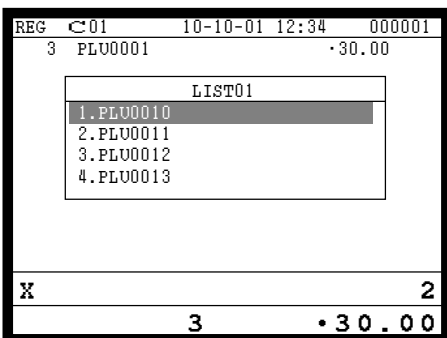
Normally, the quantity of list linked PLU or set menu child PLU follows the same quantity as main PLU. But it is possible to register a different number of list linked PLU or child PLU from the number of main PLU.

Before using the inner multiplication, the following program is necessary in addition to the Pull-down Group or Set Menu Table to use this function.

Note) Program "Fast food" in the "Set Menu / Condiment" program (page 51 of the programming manual)



1. An multiplication of a PLU is made.



2. Enter appropriate quantity and press the <X> key.

REG	C01	10-10-01 12:34	000001
3	PLU0001		•30.00
2	PLU0010		•2.00
LIST01			
1.PLU0010			
2.PLU0011			
3.PLU0012			
4.PLU0013			
PLU0010			•2.00
5			•32.00

3. Select the appropriate PLU (in case of pulldown group.)

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

REG	C01	10-10-01 12:34	000001
1	Lunch menu		•12.00
	Soup		
	Chicken		
Dessert			
1.Cake of the day			
2.Cheese cake			
3.Cheese a la carte			
4.Beverage only			
			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 "POSTENTRY" 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.

SEP CHK		
CHECK No. 123456		
1	PLU0001	•1.00
1	PLU0002	•2.00
1	PLU0003	•3.00
1	PLU0004	•4.00
1	PLU0005	•5.00
		0.00
5		•15.00

2. Enter the original check number and press the <SEPARATE CHECK> key.

SEP CHK		
CHECK No. 123456		
1	PLU0001	•1.00
1	PLU0002	•2.00
1	PLU0003	•3.00
1	PLU0004	•4.00
1	PLU0005	•5.00
		0.00
5		•15.00

3. Select the transferring items and press the <YES> key.

REG C01	10-10-01 12:34	000001
CHECK No. 222222		
1	PLU0004	•4.00
1	PLU0005	•5.00
	ST	•9.00
		0.00
2	ST	•9.00

4. After selecting items, press the <ESC> key to terminate. The selected items are transferred to other check.

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 43 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.

Registration example

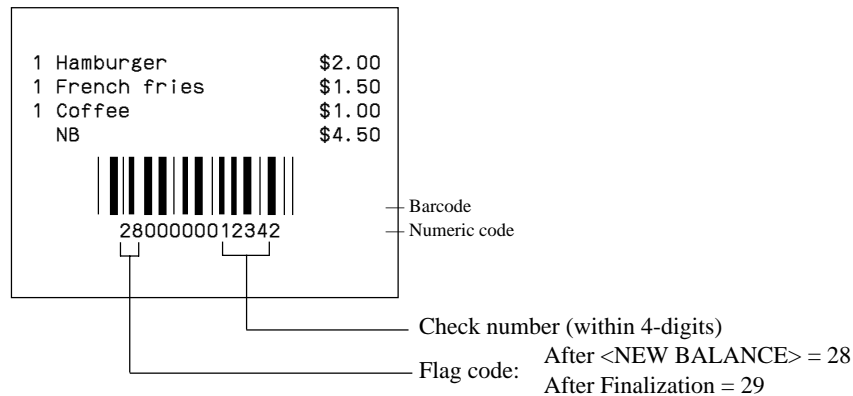
REG	C01	10-10-01 12:34	000001
1	PLU0001		•1.00
1	PLU0001		•2.00
1	PLU0001		•3.00
CASH			• 6 . 0 0

- | | |
|-----------------------|---------------------------------------------|
| | 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 only)

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



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
NB			• 6 . 0 0

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			
NEW/OLD			1 1 1 1
			• 0 . 0 0

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	PLU0003		•3.00
	SRVC TL		- 6 . 0 0
NB			• 6 . 0 0

3. Press <ROUND REPEAT> to recall the last receipt.

5. Refund mode operation	R-140
5-1. Selecting REF or REG– Mode	R-140

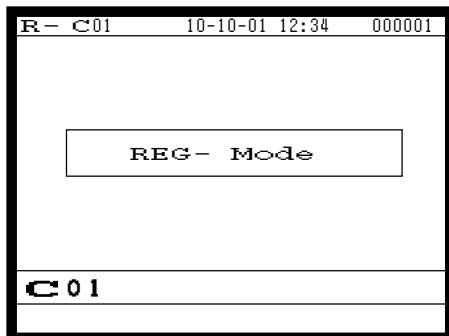
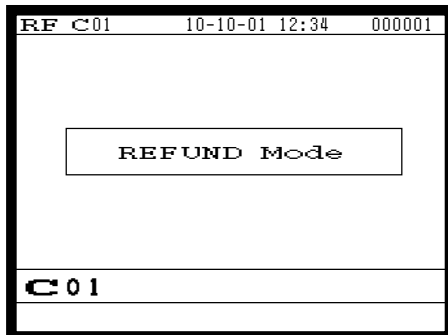
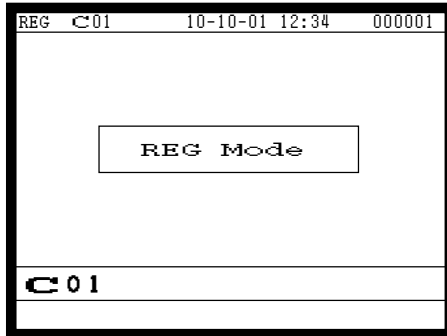
5. Refund mode operation

The general procedure for entering the REF or REG- mode is as follows.

5-1. Selecting REF or REG- Mode

After sign on operation, pressing the <REG MODE> key turns the mode to REF Mode and REG- Mode.

Refund registration or register minus (REG-) registration starts with this operation.



Note: Key operations are similar to that in the register mode.

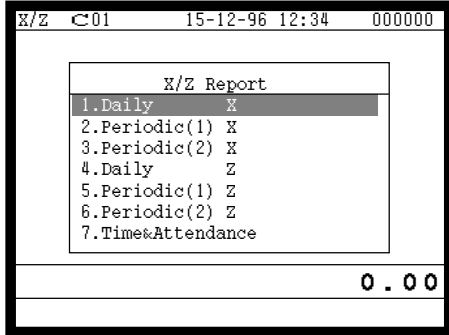
To avoid miss-registration in the REF or REG- mode, return the mode to the former one immediately.

6. Read and reset operations	R-142
6-1. The procedures of reading or resetting	R-142
6-2. Report sample	R-143

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.

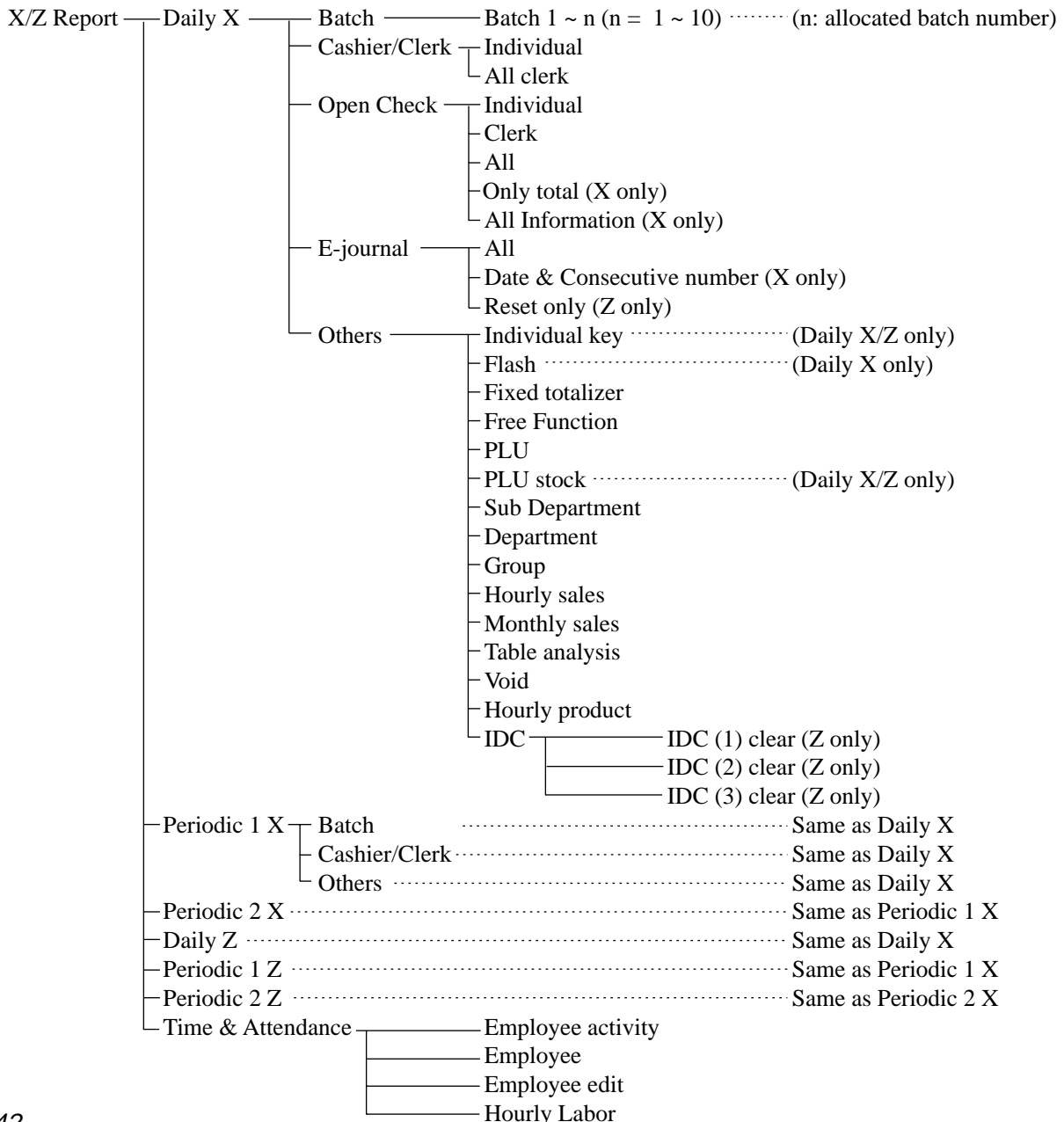
6-1. The procedures of reading or resetting



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 99, 100 of this manual for X/Z command.



6-2. Report sample

Cashier / clerk report

Z	CASHIER/CLERK		123	Mode / Report title / Z No. (Z only)	
			0001017	Report code	
C01		1	Clerk name / Drawer No.	
GROSS			35	Gross sales title / Gross counter	} Manager report
			-38.00	Gross totalizer	
NET	No		10	Net sales title / Net counter	
			-38.00	Net 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	Cash key descriptor / Counter	
			-35.00	Totalizer	

C03		1		
GROSS			21		} Cashier report
			-45.00		
NET	No		5		
			-40.00		
CAID			-35.00		
CHID			-3.00		
CKID			-0.00		
CRID			-0.00		
CASH	No		10		
			-35.00		

C10		1		
GROSS			10		} Clerk report
			-18.00		
NET	No		8		
			-18.00		
CAID			-15.00		
CHID			-3.00		
CKID			-0.00		
CRID			-0.00		
CASH	No		5		
			-15.00		

Individual key

Z			0001095	Mode
				Report code
CASH	No		11	Function key descriptor / Counter
			-38.00	Totalizer
CHECK	No		0	
			-0.00	
CREDIT	No		1	
			-12.00	
ADD CHK	No		0	

TL			12	TL descriptor / Counter
			-50.00	Totalizer

Flash

X	FLASH		0000071	Mode / Report title
				Report code
NET	No		11	Net sales title / Net counter
			-38.00	Net 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

Read and Reset

Fixed totalizer

Z	FIXED TTL		123	Mode / Report title / Z No. (Z only)
			0001011	Report code
GROSS			35	Gross sales title / Gross counter
			-38.00	Gross totalizer
NET	No		11	Net sales title / Net counter
			-38.00	Net 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	Refund mode descriptor / Counter
			-8.00	Refund mode 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			-0.00	Taxable amount 10 descriptor / Taxable amount 10
TA10			-0.00	Tax 10 descriptor / Tax 10 amount
TX10			-0.00	Tax exempt 10 descriptor / Tax exempt amount 10
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---	Consecutive No. range
			>001279	

Transaction

Z	FREE FUNCTION		123	Mode / Report title / Z No. (Z only)
			0001012	Report code
CASH	No		11	Transaction key descriptor / Counter
			-38.00	Amount
RC	No		2	
			-8.00	
PD	No		1	
			-1.00	

PLU

Z	PLU		123	Mode / Report title / Z No. (Z only)
			0001014	Report code
PLU0001			50	PLU descriptor / Counter
			-682.55	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	
			-5.00	
HOUSE BON QTY				
#0100	3.2%			
TL			75	
			-714.55	
DISCOUNT			-6.00	
HOUSE BON QTY			12	
	71.45%			

PLU (with shift PLU)

Z	PLU	123	Mode / Report title / Z No. (Z only)
		0001014	Report code
PLU0001		50	PLU descriptor / Counter
		·682.55	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	1st unit price descriptor / Counter
		·1.23	Amount
@2		2	
		·2.50	
@8			
		·6.37	
PLU0002		25	
		·32.00	
DISCOUNT		·5.00	

PLU (by range)

X	PLU	0010074	Mode / Report title / Z No. (Z only)
			Report code
#0001-#0002			PLU range
PLU0001		50	PLU descriptor / Counter
		·682.55	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	PLU	1000014	Mode / Report title / Z No. (Z only)
			Mode / Report title
GROUP01	.....01		Group (dept / subdept) title
PLU0001		50	PLU descriptor / Counter
		·682.55	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%	
GROUP	.....02		
.....00			
PLU0005		1	Non Group (dept / subdept) link items
		·2.00	
DISCOUNT		·0.00	
#0005	0.2%		
TL		1	
		·2.00	
DISCOUNT		·0.00	
		0.2%	

Read and Reset

PLU (by order character)

X	PLU		4000014	Mode / Report title / Z No. (Z only) Report code
ORDER01		.....01		Order title
PLU0001			50	PLU descriptor / Counter
			-682.55	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	Total by order / Counter / Amount
			-714.55	
DISCOUNT			-6.00	
	71.45%			
ORDER02		.....02		

PLU0005			1	Non order character link item
			-2.00	
DISCOUNT			-0.00	
#0005	0.2%			

TL			1	
			-2.00	
DISCOUNT			-0.00	
	0.2%			

PLU zero sales

X	PLU		0100014	Mode / Report title Report code
PLU0001			0	PLU descriptor / Counter
			-0.00	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	PLU		1100014	Mode / Report title Report code
GROUP01		.....01		Group (dept / subdept / order character) title
PLU0001			0	PLU descriptor / Counter / Amount
			-0.00	
DISCOUNT			-0.00	
#0001				PLU No. (can be skipped)
PLU0002			0	
			-0.00	

GROUP02		.....02		

TL			0	
			-0.00	
DISCOUNT			-0.00	

PLU stock / PLU less stock

X	PLU STOCK	0000064	Mode / Report title / Z No. (Z only) Report code
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 / PLU less stock (by range)

X	PLU STOCK	0010064	Mode / Report title / Z No. (Z only) Report code
#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	PLU STOCK	1000064	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			

Read and Reset

Subdepartment (all)

Z	SUB DEPT	123	Mode / Report title / Z No. (Z only)
		0001013	Report code
SUBDEPT01		24	Subdepartment descriptor / Counter
		·82.55	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	SUB DEPT		Mode / Report title / Z No. (Z only)
		0010013	Report code
#0001-#0002			Range
SUBDEPT01		24	Subdepartment descriptor / Counter
		·82.55	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	SUB DEPT		Mode / Report title / Z No. (Z only)
		1000013	Report code
GROUP01	.....01		Group title
SUBDEPT01		24	Subdepartment descriptor / Counter
		·82.55	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	No group link items
		·1.00	
DISCOUNT		-0.00	
	0.87%		

TL		1	
		·1.00	
DISCOUNT		-0.00	
	0.87%		

Subdepartment zero sales

X	SUB DEPT		0100013	Mode / Report title Report code
	SUBDEPT03		0	Subdepartment descriptor / Counter
			·0.00	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	SUB DEPT		1100013	Mode / Report title Report code
	GROUP01	.....01		Group title
	SUBDEPT03		0	Subdepartment descriptor / Counter
			·0.00	Amount
	DISCOUNT		·0.00	Discount total (can be skipped)
	SUBDEPT04		0	
			·0.00	
	DISCOUNT		·0.00	

	TL		0	
			·0.00	
~~~~~				
	SUBDEPT08		0	No group link items
			·0.00	
	DISCOUNT		·0.00	
-----				
	TL		0	
			·0.00	
	DISCOUNT		·0.00	

### Department (all)

X	DEPT		0000015	Mode / Report code / Report title / Z No. (Z only)
	DEPT01		24	Department descriptor / Counter
			·82.55	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%		

Read and Reset

Department (by range)

X	DEPT		0010015	Mode / Report title / Z No. (Z only)
				Report code
	#0001-#0002			Range
	DEPT01		24	Department descriptor / Counter
			·82.55	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%		

Department (by group)

X	DEPT		1000015	Mode / Report title / Z No. (Z only)
				Report code
	GROUP01	.....01		Group title
	DEPT01		24	Department descriptor / Counter
			·82.55	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	No group link items
			·1.00	
	DISCOUNT		-0.00	
		0.87%		
-----				
	TL		1	
			·1.00	
	DISCOUNT		-0.00	
		0.87%		

## Department zero sales

X	DEPT		0100015	Mode / Report code / Report title
	DEPT01		0	Department descriptor / Counter / Amount
			·0.00	
	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	DEPT		1100015	Mode / Report title Report code
	GROUP01	.....01		Group title
	DEPT01		0	Department descriptor / Counter
	DISCOUNT		-0.00	Amount
	DEPT02		-0.00	Discount total (can be skipped)
	DISCOUNT		0	
	DISCOUNT		-0.00	
-----				
	TL		0	
			-0.00	
~~~~~				
	DEPT04		0	No group link items
	DISCOUNT		-0.00	
	DISCOUNT		-0.00	

	TL		0	
			-0.00	
	DISCOUNT		-0.00	

Group

X	GROUP		0000016	Mode / Report code / Report title / Z No. (Z only)
	GROUP01		6	Group descriptor / Counter / Amount
			-163.54	Sales ratio (can be skipped)
	GROUP02	1.63%	2	
			-2.55	
		0.02%		

	TL		8	
			-166.09	
		1.65%		

Hourly sales

Z	HOURLY		123	Mode / Report title / Z No. (Z only)
			0001019	Report code
	09:00->10:00		1	Time frame / Net counter
			-63.54	Net amount
	1.63%			Sales ratio (can be skipped)
		CT	1	Customer counter / Gross amount
			-63.54	
	10:00->11:00		2	
			-122.55	
	3.52%			
		CT	2	
			-122.55	

Read and Reset

Monthly sales

Z	MONTHLY		123	Mode / Report title / Z No. (Z only)
			0001020	Report code
	7			Day of the month
GROSS			52	Gross counter
			·680.57	Gross amount
NET	No		12	Net counter
			·680.50	Net amount
	8			
GROSS			78	
			·1,034.59	
NET	No		37	
			·1,034.57	

TL			130	
GROSS			·1,715.16	
			·13.19	Average gross sales
NET			49	
			·1,715.07	
			·35.00	Average net sales

Table analysis

Z	TABLE ANALYSIS		123	Mode / Report title / Z No. (Z only)
			0001028	Report code
TBL0001	CT		12	Table No. / Customer count
			·680.57	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	VOID REASON		123	Mode / Report title / Z No. (Z only)
			0001022	Report code
OPE ERR	No		12	Void reason / Counter
			·80.50	Amount
OUT OF DATE	No		10	
			40.42	
	No		0	
			·0.00	

Open check

X	OPEN CHK		0050025	Mode/Report title Report code
REG	07-01-01	12:34		Mode/Date/Time
C01	MC #01	001029		Clerk/Machine No./Consecutive No.
#000121		12CT		Table No./Cover No.
CHECK NO.	001245			Check No.
	- 100.35			Subtotal amount (temporary closed by NB)
REG	07-01-01	14:31		
C04	MC #02	001186		
#000226		2CT		
CHECK NO.	001328			Busy status
	BUSY - 130.45			
REG	07-01-01	14:35		
C04	MC #01	001686		
#000226		2CT		
CHECK NO.	002222			Finalized status
	FINALIZED - 130.00			
CHECK NO.	003333			Newly opened status
	NEW OPEN - 0.00			

TL	No	4		
				·360.80

Electronic journal (E-journal)

Z	E-JOURNAL		0001058	Mode/Report title Report code
REG	07-11-01	16:34		
C01	MC #03	001029		
1 PLU0055		·100.00		
0.12%				
%-		-0.12		Registrations
TL		- 99.88		
CASH		-99.88		
P 1	07-11-01	16:35		Some program are made in Program 1 mode.
C01	MC #03	001030		
X/Z	07-11-01	16:37		
C01	MC #03	001031		
X	DEPT		0100015	Report issued

Employee activity

X	EMPLOYEE	0000029	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	EMPLOYEE	000029	Mode / Report title / Z counter (Z only) Report code		
#123456	HARRISON	123456789	Employee No. Employee character / Social Security No.		
Monday		12-20-03	Day of the week / Date		
IN	OUT	JOB#	TIP	WORK	
08:00	10:00	12	12.34	01:45	Shift 1: Clock-in / Clock-out / Job code / Tip / Work time
BRK	00:15				Shift 1: Break
12:00	**:**	01	0.00	**:**	Shift 2: Clock-out shift *1
BRK	00:10				Shift 3: Clock-in shift *2
:	**:**				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	Total of work hours
				5.45	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	EMPLOYEE			000129	
#123456	HARRISON			123456789	
Monday				12-21-03	Day of the week / Date *2
IN	OUT	JOB#	TIP	WORK	
08:00-10:00		12	·12.34	01:45	Shift 1
BRK 00:15					
12:00-15:00		01	·0.00	02:50	Shift 2
BRK 00:10					
:-:**:**					Shift 3
TL	00:25		·12.34	04:35	
Tuesday				12-22-03	
IN	OUT	JOB#	TIP	WORK	
08:00-10:00		12	·12.34	01:45	
BRK 00:15					
12:00-15:00		01	·0.00	02:50	
BRK 00:10					
:-:**:**					
TL	00:25		·12.34	04:35	
Sunday					
IN	OUT	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	Total of work hours
				·2.04	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	HOURLY PRODUCT	1234	Mode / Report title / Z counter (Z only)
		0001031	Report code
09:00->09:30			Time frame
GROSS		1357.956	Totalizer character / Counter
		·2,469.06	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 Amount of this time frame
09:30->10:00			
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	HOURLY LABOR	1234	Mode / Report title / Z counter (Z only)
		0001024	Report code
09:00->09:30	No	2	Time frame / NET counter
		·2,469.06	NET Amount
82.62%			NET ratio
COST		00:05	Work time
		·0.08	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	
		·0.00	
0%			
COST		00:01	
		·0.00	
0%			
NET SALES/HOUR		·0.00	
COST/TRANSACTION		·0.00	

IDC clear

Z	IDC(1) Clear	1	Mode / Report title / Z counter
		0001067	Report code
	Normal End		Result print

A-1. Function key list R-160

Function key list

A-1. Function key list

Function	Code	Initial character	Function	Code	Initial character
Add check	094	ADD CHK	Post entry	115	POST ENTRY
Arrangement	044	ARG	Premium	030	%+
Bill copy	047	BILL	Price inquiry	008	PRCINQ
Break-in / out	109	BREAK-IN/OUT	Price	049	PRC
Cancel	236	CANCEL	Quantity / For	083	QT
Cash amount tendered	001	CASH	Recall	131	RECALL
Charge	002	CHARGE	Receipt	038	RCT
Check endorsement	039	CK.E	Receipt On / Off	076	RCT ON/OFF
Check print	012	CHKP	Received on account	020	RC
Check tender	003	CHECK	Refund	033	RF
Clerk number	072	CLK#	Reverse display	206	REVERSE DSP
Clerk transfer	013	CLK TRANS	Round repeat	116	ROUND REPEAT
Clock-in / out	108	CLOCK-IN/OUT	Seat number	119	SEAT#
Coupon	023	COUPON	Second unit price	070	2nd@
Coupon 2	036	CPN2	Selective item subtotal	085	SIST
Credit	004	CREDIT	Separate check	095	SEP CHK
Cube	090	XXX	Shift PLU	065	SFT PLU
Currency exchange	045	CE	Slip back feed / Release	054	SB/R
Customer number	043	CT	Slip feed / Release	056	SF/R
Declaration	061	DECLA	Slip print	055	SLIP
Department	051	DEPT nn	Square	084	XX
Department number	135	DEPT#	Stock inquiry	009	STKINQ
Deposit	025	DEPOSIT	Store	130	STORE
Discount	028	%-	Subdepartment	133	SUBDEPT nn
Display mode	219	DISP MODE	Subdepartment number	134	SDPT#
Dutch account	140	DUTCH	Substitution	111	SUBST.
Eat-in	128	EAT-IN	Subtotal	075	SUBTOTAL
Electronic journal display	207	EJ DISP	Table number	058	TBL#
Error correct / Void	034	VOID	Table transfer	014	TBL TRANS
First unit price	069	1st@	Takeout	129	TAKE-OUT
Flat PLU	063	PLU nnnn	Tax status shift	057	T/S
House Bon	114	HOUSE BON	Taxable amount subtotal	077	TAST
Ketten Bon	113	X/KETTEN	Tax exempt	062	EXEMPT
List	136	LIST	Text print	011	PRT
List number	137	LIST#	Text recall	010	CHAR
Loan	019	LOAN	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	Display On / Off	120	DISP ON/OFF
New / Old check	093	NEW/OLD	Escape / Skip	211	
Normal receipt	016	NRMRCT	Home position	218	HOME
No sale	042	NS	Page down	220	PAGE DOWN
Non-add	040	#	Page up	221	PAGE UP
Non-add / No sale	041	#/NS	Program mode	123	PGM MODE
OBR	103	OBR	Register mode	121	REG MODE
Old check	092	OLD CHK	X/Z mode	122	X/Z MODE
Open	067	OPEN	Three zero	097	000
Open2	068	OPEN2	Two zero	096	00
Open Check	117	OPEN CHK	Yes	212	
Operator number	078	OPE#	No	213	
Operator read / Reset	073	OPE X/Z	Left arrow	214	
Paid out	021	PD	Right arrow	215	
Pick up	022	P.UP	Up arrow	216	
Plus	029	+	Down arrow	217	
PLU	048	PLU#			

File list

File No.	File description	Record length	Max. No. of records	Default rec No.	Work size	Description	Attribution	Allocatable
System files								
074	Key table	42	192	192	194		Program	No
901	System connection table	18	33	33	40		Program	No
902	I/O parameter	5	15	15	33		Program	No
903	Printer connection	27	99	24	61		Program	Yes
904	Consecutive number	3	5	5	33		Buffer	No
905	Auto program control	3	20	20	40		Program	Yes
906	LCD color control	8	10	0	33		Program	Yes
999	System error log	11	999	40	68		Buffer	Yes
Function and total files								
001	Fixed totalizer	26	85	85	47		Pgm/Sales	No
101	(periodic total 1)	10	85	85	40		Sales	Yes
201	(periodic total 2)	10	85	0	40		Sales	Yes
301	(daily consolidation)	10	85	85	40	for master	Sales	Yes
401	(periodic 1 consolidation)	10	85	85	40	for master	Sales	Yes
501	(periodic 2 consolidation)	10	85	0	40	for master	Sales	Yes
601	(consolidation work)	10	85	85	40	for master	Buffer	Yes
002	Transaction key	39	999	70	68		Pgm/Sales	Yes
102	(periodic total 1)	10	999	70	40		Sales	Yes
202	(periodic total 2)	10	999	0	40		Sales	Yes
302	(daily consolidation)	10	999	70	40	for master	Sales	Yes
402	(periodic 1 consolidation)	10	999	70	40	for master	Sales	Yes
502	(periodic 2 consolidation)	10	999	0	40	for master	Sales	Yes
602	(consolidation work)	10	999	70	40	for master	Buffer	Yes
003	Subdepartment	57	99	0	110		Pgm/Sales	Yes
103	(periodic total 1)	15	99	0	47		Sales	Yes
203	(periodic total 2)	15	99	0	47		Sales	Yes
303	(daily consolidation)	15	99	0	47	for master	Sales	Yes
403	(periodic 1 consolidation)	15	99	0	47	for master	Sales	Yes
503	(periodic 2 consolidation)	15	99	0	47	for master	Sales	Yes
603	(consolidation work)	15	99	0	47	for master	Buffer	Yes
004	PLU	95	9999	324	187		Pgm/Sales	Yes
104	(periodic total 1)	30	9999	0	68		Sales	Yes
204	(periodic total 2)	30	9999	0	68		Sales	Yes
304	(daily consolidation)	30	9999	0	68	for master	Sales	Yes
404	(periodic 1 consolidation)	30	9999	0	68	for master	Sales	Yes
504	(periodic 2 consolidation)	30	9999	0	68	for master	Sales	Yes
604	(consolidation work)	30	9999	0	68	for master	Buffer	Yes
005	Department	57	99	4	110		Pgm/Sales	Yes
105	(periodic total 1)	15	99	4	47		Sales	Yes
205	(periodic total 2)	15	99	0	47		Sales	Yes
305	(daily consolidation)	15	99	4	47	for master	Sales	Yes
405	(periodic 1 consolidation)	15	99	4	47	for master	Sales	Yes
505	(periodic 2 consolidation)	15	99	0	47	for master	Sales	Yes
605	(consolidation work)	15	99	4	47	for master	Buffer	Yes
006	Group	26	99	10	47		Pgm/Sales	Yes
106	(periodic total 1)	10	99	10	40		Sales	Yes
206	(periodic total 2)	10	99	0	40		Sales	Yes
306	(daily consolidation)	10	99	10	40	for master	Sales	Yes
406	(periodic 1 consolidation)	10	99	10	40	for master	Sales	Yes
506	(periodic 2 consolidation)	10	99	0	40	for master	Sales	Yes
606	(consolidation work)	10	99	10	40	for master	Buffer	Yes
009	Hourly sales	20	96	24	54		Sales	Yes
109	(periodic total 1)	20	96	0	54		Sales	Yes
209	(periodic total 2)	20	96	0	54		Sales	Yes
309	(daily consolidation)	20	96	24	54	for master	Sales	Yes
409	(periodic 1 consolidation)	20	96	0	54	for master	Sales	Yes
509	(periodic 2 consolidation)	20	96	0	54	for master	Sales	Yes
609	(consolidation work)	20	96	24	54	for master	Buffer	Yes

File No.	File description	Record length	Max. No. of records	Default rec No.	Work size	Description	Attribution	Allocatable
010	Monthly sales	20	32	32	54		Sales	Yes
110	(periodic total 1)	20	32	0	54		Sales	Yes
210	(periodic total 2)	20	32	0	54		Sales	Yes
310	(daily consolidation)	20	32	32	54	for master	Sales	Yes
410	(periodic 1 consolidation)	20	32	0	54	for master	Sales	Yes
510	(periodic 2 consolidation)	20	32	0	54	for master	Sales	Yes
610	(consolidation work)	20	32	32	54	for master	Buffer	Yes
012	Void reason	29	99	0	54		Pgm/Sale	Yes
112	(periodic total 1)	10	99	0	40		Sales	Yes
212	(periodic total 2)	10	99	0	40		Sales	Yes
312	(daily consolidation)	10	99	0	40	for master	Sales	Yes
412	(periodic 1 consolidation)	10	99	0	40	for master	Sales	Yes
512	(periodic 2 consolidation)	10	99	0	40	for master	Sales	Yes
612	(consolidation work)	10	99	0	40	for master	Buffer	Yes
018	Table analysis	32	99	0	61		Pgm/Sale	Yes
118	(periodic total 1)	10	99	0	40		Sales	Yes
218	(periodic total 2)	10	99	0	40		Sales	Yes
318	(daily consolidation)	10	99	0	40	for master	Sales	Yes
418	(periodic 1 consolidation)	10	99	0	40	for master	Sales	Yes
518	(periodic 2 consolidation)	10	99	0	40	for master	Sales	Yes
618	(consolidation work)	10	99	0	40	for master	Buffer	Yes
020	Grand total	24	3	3	40		Pgm/Sale	No
120	(periodic total 1)	8	3	3	33		Sales	Yes
220	(periodic total 2)	8	3	0	33		Sales	Yes
320	(daily consolidation)	8	3	3	33	for master	Sales	Yes
420	(periodic 1 consolidation)	8	3	3	33	for master	Sales	Yes
520	(periodic 2 consolidation)	8	3	0	33	for master	Sales	Yes
620	(consolidation work)	8	3	3	33	for master	Buffer	Yes
055	Shift PLU	91	9999	0	173		Pgm/Sale	Yes
155	(periodic total 1)	70	9999	0	124		Sales	Yes
255	(periodic total 2)	70	9999	0	124		Sales	Yes
355	(daily consolidation)	70	9999	0	124	for master	Sales	Yes
455	(periodic 1 consolidation)	70	9999	0	124	for master	Sales	Yes
555	(periodic 2 consolidation)	70	9999	0	124	for master	Sales	Yes
655	(consolidation work)	70	9999	0	124	for master	Buffer	Yes
Clerk								
007	Clerk	95	99	6	145		Program	Yes
030	Clerk detail link	4	99	10	40		Program	Yes
027	Clerk (Dallas) key ID	14	200	6	40		Program	Yes
011	Clerk detail	10	9801	60	40		Sales	Yes
111	(periodic total 1)	10	9801	60	40		Sales	Yes
211	(periodic total 2)	10	9801	0	40		Sales	Yes
311	(daily consolidation)	10	9801	60	40	for master	Sales	Yes
411	(periodic 1 consolidation)	10	9801	60	40	for master	Sales	Yes
511	(periodic 2 consolidation)	10	9801	0	40	for master	Sales	Yes
611	(consolidation work)	10	9801	60	40	for master	Buffer	Yes
Time & Attendance								
014	Hourly / Labor	26	96	0	68		Sales	Yes
114	(periodic total 1)	26	96	0	68		Sales	Yes
214	(periodic total 2)	26	96	0	68		Sales	Yes
314	(daily consolidation)	26	96	0	68	for master	Sales	Yes
414	(periodic 1 consolidation)	26	96	0	68	for master	Sales	Yes
514	(periodic 2 consolidation)	26	96	0	68	for master	Sales	Yes
614	(consolidation work)	26	96	0	68	for master	Buffer	Yes
019	Work time	18	4158	0	82		Buffer	Yes
319	(daily consolidation)	18	4158	0	82	for master	Buffer	Yes
800	Time zone	6	24	0	47		Program	Yes
801	Employee	36	99	0	110		Program	Yes
802	Job code	22	50	0	54		Program	Yes

File list

File No.	File description	Record length	Max. No. of records	Default rec No.	Work size	Description	Attribution	Allocatable
803	Schedule	11	2079	0	82		Program	Yes
806	Time & Attendance work	99	1	1	33		Buffer	Yes
Check								
015	Check Index	300	200	60	40		Buffer	Yes
060	Check detail	80	9999	3660	33		Buffer	Yes
066	Check detail work	80	2000	122	33		Buffer	Yes
Hourly item								
021	Hourly item	10	1920	0	40		Sales	Yes
121	(periodic total 1)	10	1920	0	40		Sales	Yes
221	(periodic total 2)	10	1920	0	40		Sales	Yes
321	(daily consolidation)	10	1920	0	40	for master	Sales	Yes
421	(periodic 1 consolidation)	10	1920	0	40	for master	Sales	Yes
521	(periodic 2 consolidation)	10	1920	0	40	for master	Sales	Yes
621	(consolidation work)	10	1920	0	40	for master	Buffer	Yes
031	Hourly item link	4	480	0	40		Program	Yes
IDC								
057	IDC (1)	50	9999	0	33		Sales	Yes
357	(consolidation file)	50	9999	0	33	for master	Sales	Yes
657	(consolidation work)	50	9999	0	33	for master	Buffer	Yes
058	IDC (2)	50	9999	0	33		Sales	Yes
358	(consolidation file)	50	9999	0	33	for master	Sales	Yes
658	(consolidation work)	50	9999	0	33	for master	Buffer	Yes
059	IDC (3)	50	9999	0	33		Sales	Yes
359	(consolidation file)	50	9999	0	33	for master	Sales	Yes
659	(consolidation work)	50	9999	0	33	for master	Buffer	Yes
063	IDC buffer	50	9999	0	33		Buffer	Yes
804	IDC link	6	999	0	54		Program	Yes
Program / message / buffer								
016	Scanning PLU link	9	300	0	40		Program	Yes
022	General control	6	37	37	33		Program	No
023	Special character	16	58	58	33		Program	No
024	Report header	16	30	30	33		Program	No
025	Tax table	74	10	5	117		Program	Yes
026	Pulldown group	103	999	15	208		Program	Yes
028	Set menu table	80	999	15	166		Program	Yes
029	Batch X/Z	9	10	4	33		Program	Yes
032	Receipt/slip message	40	96	96	33		Program	Yes
033	Endorse message	40	4	4	33		Program	Yes
035	Print buffer (external printer)	80	999	360	33		Buffer	Yes
036	Registration buffer	80	2000	120	33		Buffer	Yes
039	Character recall	40	9999	10	33		Program	Yes
041	Check print	3	9	9	33		Program	Yes
043	Print buffer (internal printer)	31	999	200	33		Buffer	Yes
044	Display buffer	40	1000	100	33		Buffer	Yes
047	Graphic logo (external printer)	13	432/864	0	33		Program	Yes
048	Electronic journal memory	41	1000	120	33		Buffer	Yes
648	Electronic journal (collection)	41	12336	0	33	for master	Buffer	Yes
054	PLU 2nd @	47	9999	0	96		Program	Yes
062	Scheduler	14	99	4	40		Program	Yes
065	Order character	16	99	10	33		Program	Yes
067	Graphic logo (internal printer)	54	168	0	33		Program	Yes
068	Watermark	54	168	0	33		Program	Yes
099	Euro program	4	3	0	33		Program	Yes
Arrangement								
038	Arrange group (1)	24	9999	50	33		Program	Yes
138	Arrange group (2)	24	9999	0	33		Program	Yes
238	Arrange group (3)	24	9999	0	33		Program	Yes
338	Arrange group (4)	24	9999	0	33		Program	Yes
438	Arrange group (5)	24	9999	0	33		Program	Yes

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File Format

A-3. File format

A-3-1. Fixed totalizer file

A-3-1-1 Fixed totalizer (daily)

File name: Fixed totalizer (daily)

File No.: 001 Max. allocatable records: 85 (fixed)

0	16	21	26
Character	Counter	Totalizer	

A-3-1-2 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
No. of customer	Totalizer	

Rec No.	Contents	Rec No.	Contents
001	Gross sales total	042	ST transfer void
002	Net sales total	043 ~ 049	Not used
003	Cash in drawer	050	Taxable amount 1
004	Cash declared amount (not used)	051	Tax 1
005	Declared short cash amount (not used)	052	Tax exempt 1
006	Declared over cash amount (not used)	053	Taxable amount 2
007	Charge in drawer	054	Tax 2
008	Charge declared amount (not used)	055	Tax exempt 2
009	Declared short charge amount (not used)	056	Taxable amount 3
010	Declared over charge amount (not used)	057	Tax 3
011	Check in drawer	058	Tax exempt 3
012	Check declared amount (not used)	059	Taxable amount 4
013	Declared short check amount (not used)	060	Tax 4
014	Declared over check amount (not used)	061	Tax exempt 4
015	Credit in drawer	062	Taxable amount 5
016	Credit declared amount (not used)	063	Tax 5
017	Declared short credit amount (not used)	064	Tax exempt 5
018	Declared over credit amount (not used)	065	Taxable amount 6
019 ~ 022	Not used	066	Tax 6
023	Refund mode total	067	Tax exempt 6
024	Customer count	068	Taxable amount 7
025	Average sales per customer	069	Tax 7
026	Check cashing service fee	070	Tax exempt 7
027	New Balance fee	071	Taxable amount 8
028	Not used	072	Tax 8
029	Clerk commission 1 total	073	Tax exempt 8
030	Clerk commission 2 total	074	Taxable amount 9
031	Foreign currency cash in drawer 1	075	Tax 9
032	Foreign currency check in drawer 1	076	Tax exempt 9
033	Foreign currency cash in drawer 2	077	Taxable amount 10
034	Foreign currency check in drawer 2	078	Tax 10
035	Foreign currency cash in drawer 3	079	Tax exempt 10
036	Foreign currency check in drawer 3	080	Euro cash in drawer
037	Reduction	081	Euro charge in drawer
038	Item return	082	Euro check in drawer
039	Clear count	083	Euro credit in drawer
040	Not used	084	Coupon total
041	Rounding	085	Money declaration count

A-3-2. Transaction key file

A-3-2-1 Transaction key (daily)

File name: Transaction key (daily) File No.: 002 Max. allocatable records: 999

0	2	18	25	29	34	39
Function code	Character		Program	@/Rate	Counter	Totalizer

A-3-2-2 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

0	5	10
No. of customer	Totalizer	

A-3-3. Subdepartment file

A-3-3-1 Subdepartment (daily)

File name: Subdepartment (daily) File No.: 003 Max. allocatable records: 99

0	16	23	26	29	32	33	34	36	42	47	52	57
Character		Program	Link	@	HALO	Double Bon	Order char. link	Order	Pull-down Group link	Counter	Totalizer	Discount totalizer

A-3-3-2 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

0	5	10	15
Counter	Totalizer	Discount totalizer	

File Format

A-3-4. PLU file

A-3-4-1 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-3-4-2 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-3-4-3 PLU 2nd@

File name: PLU 2nd@

File No.: 054 Max. allocatable records: 9999

0	24	31	34	37	40	43	47					
Character		Program	Link	2nd@	2nd Q'ty	Unit stock	Not used					

A-3-4-4 Scanning PLU link

File name: Scanning PLU link

File No.: 016 Max. allocatable records: 300

0	7	9			
OBR code	Link PLU rec-#				

A-3-4-5 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-3-4-6 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-3-5. Department file

A-3-5-1 Department (daily)

File name: Department (daily) File No.: 005 Max. allocatable records: 99

0	16	23	26	29	32	33	34	36	42	47	52	57
Character	Program	Link	@	HALO	Double Bon	Order char. link	Order	Pull-down Group link	Counter	Totalizer	Discount totalizer	

A-3-5-2 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

0	5	10	15
Counter	Totalizer	Discount totalizer	

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 215 of the programming manual.

Link field (for PLU, subdepartment, department, PLU 2nd@)

Refer to the "Field 11-066" on page 216 of the programming manual.

Random code field (for PLU)

Refer to the "Field 12-066" on page 216 of the programming manual.

Set menu link field (for PLU)

Refer to the "Field 13-066" on page 216 of the programming manual.

Unit/minimum stock field (for PLU, PLU 2nd@)

Refer to the "Field 14-066-1/-2" on page 216 of the programming manual.

HALO field (for PLU, subdepartment, department)

Refer to the "Field 15-066" on page 216 of the programming manual.

Order character link field (for PLU, subdepartment, department)

Refer to the "Field 16-066" on page 216 of the programming manual.

Double Bon field (for PLU, subdepartment, department)

Refer to the "Field 17-066" on page 217 of the programming manual.

Order character link field (for PLU, subdepartment, department)

Refer to the "Field 20-066" on page 217 of the programming manual.

Pulldown group field (for PLU, subdepartment, department)

Refer to the "Field 21-066" on page 217 of the programming manual.

A-3-6. Group file

A-3-6-1 Group (daily)

File name: Group (daily)

File No.: 006 Max. allocatable records: 99

0	16	21	26
Character	Counter	Totalizer	

A-3-6-2 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
No. of customer	Totalizer	

A-3-7. Clerk file

A-3-7-1 Clerk (programming)

File name: Clerk (programming)

File No.: 007 Max. allocatable records: 99

0	16	19	20	22	27	31	37	42	47	53
Character		Clerk interrupt check #	Drawer #	Clerk #	Clerk control	Commission rate	Table # range	Menu/@ control	Mode control	Function control (1)
59	65	71	77	83	89	95				
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 202 of the programming manual.

Table range

Refer to the "Table range" on page 202 of the programming manual.

Clerk control

Refer to the "Record 01-067" on page 203 of the programming manual.

Menu/@ control

Refer to the "Record 02-067" on page 204 of the programming manual.

Mode control

Refer to the "Record 03-067" on page 205 of the programming manual.

Function control 1

Refer to the "Record 04-067" on page 206 of the programming manual.

Function control 2

Refer to the "Record 05-067" on page 207 of the programming manual.

Function control 3

Refer to the "Record 06-067" on page 208 of the programming manual.

Function control 4

Refer to the "Record 07-067" on page 209 of the programming manual.

Function control 5

Refer to the "Record 08-067" on page 210 of the programming manual.

Arrangement control

Refer to the "Record 09-067" on page 211 of the programming manual.

Report control

Refer to the "Record 10-067" on page 212 of the programming manual.

A-3-7-2 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
No. of customer	Totalizer	

A-3-7-3 Clerk detail link

File name: Clerk detail link	File No.: 030	Max. allocatable records: 99
------------------------------	---------------	------------------------------

0	2	4
Record No.	File No.	

A-3-7-4 Clerk (Dallas) key ID

File name: Clerk (Dallas) key ID	File No.: 027	Max. allocatable records: 200
----------------------------------	---------------	-------------------------------

0	12	14
Dallas key ID character		not used Record No.

A-3-8. Hourly sales file

A-3-8-1 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 (Net)	Totalizer (Net)	No. of customer	Merchandise subtotal

A-3-9. Monthly sales file

A-3-9-1 Monthly sales (daily, periodic/consolidation)

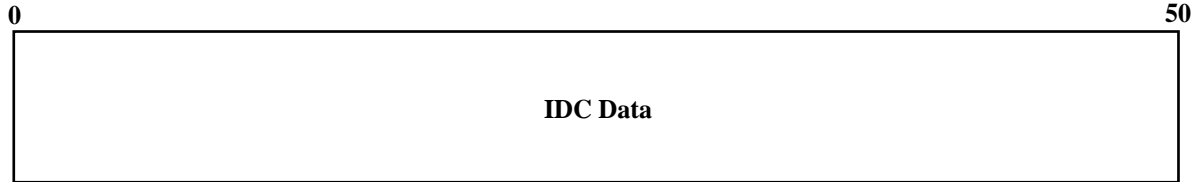
File name: Monthly sales (daily)	File No.: 010	Max. allocatable records: 32 (fixed)
File name: Monthly sales (periodic 1)	File No.: 110	Max. allocatable records: 32 (fixed)
File name: Monthly sales (periodic 2)	File No.: 210	Max. allocatable records: 32 (fixed)
File name: Monthly sales (daily consolidation)	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 (Gross)	Totalizer (Gross)	Counter (Net)	Totalizer (Net)

A-3-11. IDC file

A-3-11-1 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



A-3-11-2 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-3-11-3 IDC file (3)

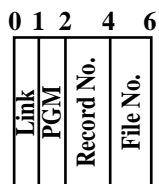
File name: IDC (3)	File No.: 059	Max. allocatable records: 9999
File name: IDC (3) (daily consolidation)	File No.: 359	Max. allocatable records: 9999
File name: IDC (3) (consolidation work)	File No.: 659	Max. allocatable records: 9999

File structure is same as IDC file (1)

Refer to the page 78 ~ 81 of this manual for each IDC data in detail.

A-3-11-4 IDC link

File name: IDC link	File No.: 804	Max. allocatable records: 999
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Refer to page 201 of the programming manual for details.

A-3-12. Time & Attendance file

A-3-12-1 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-3-12-2. 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	

File Format

A-3-12-3. 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.

0	2	4	6
Start time	End time	Cycle	

Refer to page 69 of the programming manual for details.

A-3-12-4. Employee file

File name: Employee

File No.: 801 Max. allocatable records: 99

0	3	19	24	25	26	27	28	29	30	32	34	36
Employee No.	Character		Social Security No.	PGM	Job code (1)	Job code (2)	Job code (3)	Job code (4)	Clerk No.	Work (1)	Work (2)	Work (3)

Refer to page 199 of the programming manual for details.

A-3-12-5. Job code file

File name: Job code

File No.: 802 Max. allocatable records: 50

0	16	17	20	22
Character		PGM	Pay rate	Over Time Pay Ratio

Refer to page 200 of the programming manual for details.

A-3-12-6. 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 \times 7 days \times 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-3-13. Void table file

A-3-13-1 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 63 of the programming manual for details.

A-3-13-2 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
No. of customer	Totalizer	

A-3-14. Table analysis file

A-3-14-1 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-3-14-2 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
No. of customer	Totalizer	

A-3-15. Grand total file

A-3-15-1 Grand total (daily)

File name: Grand total (daily)

File No.: 020 Max. allocatable records:3 (fixed)

0	16	24
Character	Totalizer	

A-3-15-2 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)

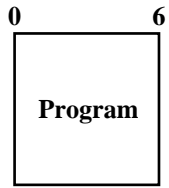
0	8
Totalizer	

A-3-16. General control file

A-3-16-1 General control

File name: General control

File No.: 022 Max. allocatable records:37 (fixed)



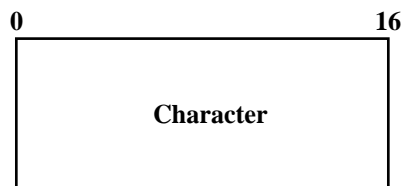
Rec No.	Contents	Reference page (PGM manual)
001	Date order, Monetary mode	179
002	(not used)	180
003	Consecutive number	180
004	Rounding, Tax system	180
005	Receipt control (1)	181
006	Calculation, Operation control	182
007	(not used)	---
008	Report control (1)	183
009	Report control (2)	184
010	Receipt control (2), Till timer	185
011	(not used)	---
012	Report control (3)	186
013	Communication control	186
014	Report control (4)	187
015	Report control (5)	188
016	Time frame	189
017	Receipt control (3), Calculation method	190
018	Slip / Guest receipt control	191
019	Journal control	192
020	Message print control	192
021	Order control	193
022	Scanning control	193
023	Australian GST control (1)	193
024	Australian GST control (2)	194
025	Set menu, Condiment	194
026	Check tracking	194
027	Clerk interrupt	195
028	Display control	195
029	(not used)	---
030	(not used)	---
031	Menu sheet number control (1)	195
032	Menu sheet number control (2)	195
033	Menu sheet number control (3)	196
034	Menu sheet number control (4)	196
035	Time & Attendance	196
036	Store / Recall range	197
037	Auto check No. range	197

A-3-17. Special character file

A-3-17-1 Special character

File name: Special character

File No.: 023 Max. allocatable records: 58 (fixed)



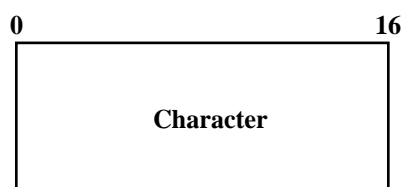
Refer to page 158 of the programming manual for details.

A-3-18. Report header file

A-3-18-1 Report header

File name: Report header

File No.: 024 Max. allocatable records: 30 (fixed)



Refer to page 159 of the programming manual for details.

File Format

A-3-19. Tax table file

A-3-19-1 Tax table

File name: Tax table

File No.: 025 Max. allocatable records: 10

0	4	6	7	8	10	12	14	74
Rate	Max. Table amount	Rounding	Singapore rounding	Cal. type	Cyclic pattern	Cyclic value	Non cyclic value	Actual value

A-3-20. Pulldown group file

A-3-20-1 Pulldown group

File name: Pulldown group

File No.: 026 Max. allocatable records: 999

0	16	19	21	23	25	27	29	31	33	35	37	39	41	43	45	47	49	51	53	55			
Character	Program	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				
57	59	61	63	65	67	69	71	73	75	77	79	81	83	85	87	89	91	93	95	97	99	103	
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	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	Not used	

A-3-21. Set menu table file

A-3-21-1 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-3-22. Batch X/Z file

A-3-22-1 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
Mode	X/Z code (1)	X/Z code (2)	X/Z code (3)	X/Z code (4)	X/Z code (5)	X/Z code (6)	X/Z code (7)	X/Z code (8)	

A-3-23. Receipt / Slip message file

A-3-23-1 Receipt / Slip message

File name: Receipt / Slip message

File No.: 032 Max. allocatable records: 96

0	40
Character	

Refer to page 154 of the programming manual for details.

A-3-24. Check endorsement message file

A-3-24-1 Check endorsement message

File name: Check endorsement message

File No.: 033 Max. allocatable records: 4

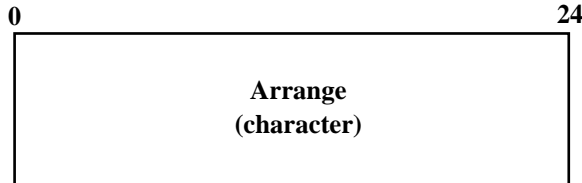
0	40
Character	

A-3-25. Arrangement file

A-3-25-1 Arrangement group (1) ~ (5)

File name: Arrangement group (1)
File name: Arrangement group (2)
File name: Arrangement group (3)
File name: Arrangement group (4)
File name: Arrangement group (5)

File No.: 038 Max. allocatable records: 9999
File No.: 138 Max. allocatable records: 9999
File No.: 238 Max. allocatable records: 9999
File No.: 338 Max. allocatable records: 9999
File No.: 438 Max. allocatable records: 9999

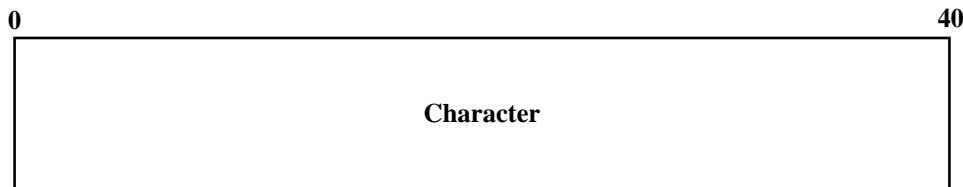


A-3-26. Character recall file

A-3-26-1 Character recall

File name: Character recall

File No.: 039 Max. allocatable records: 9999

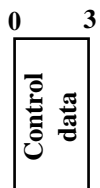


A-3-27. Check print file

A-3-27-1 Check print

File name: Check print

File No.: 041 Max. allocatable records: 9

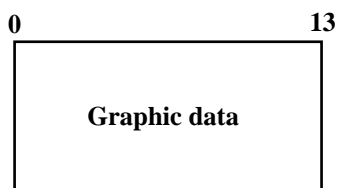


A-3-28. Graphic logo file

A-3-28-1 Graphic logo (external printer)

File name: Graphic logo (external printer)

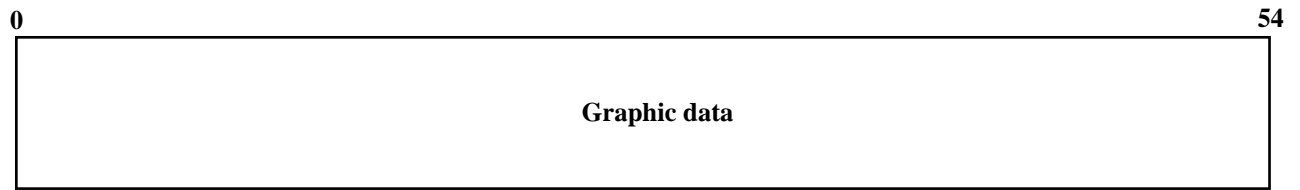
File No.: 047 Max. allocatable records: 432 (fixed)
or 864 (fixed)



A-3-28-2 Graphic logo (internal printer)

File name: Graphic logo (internal printer)

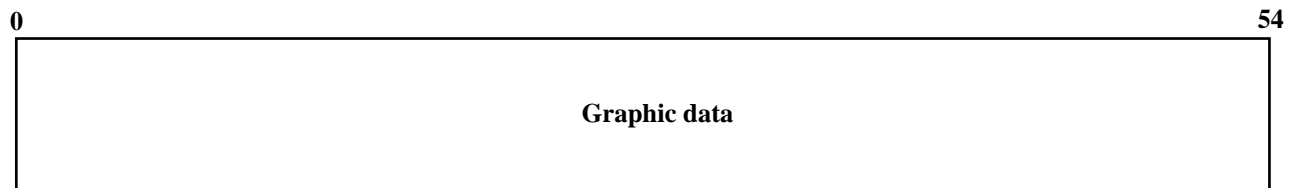
File No.: 067 Max. allocatable records: 168 (fixed)



A-3-28-3 Watermark (internal printer)

File name: Watermark (internal printer)

File No.: 068 Max. allocatable records: 168 (fixed)

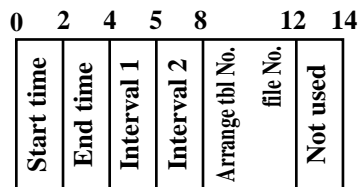


A-3-29. Scheduler file

A-3-29-1 Scheduler

File name: Scheduler

File No.: 062 Max. allocatable records: 99



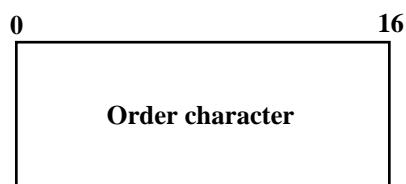
Refer to page 57 of the programming manual for details.

A-3-30. Order character file

A-3-30-1 Order character

File name: Order character

File No.: 065 Max. allocatable records: 99



A-3-31. Euro program file

A-3-31-1 Euro program file

File name: Euro program

File No.: 099 Max. allocatable records: 3 (fixed)



1st record

Description	Choice	Program code
Exchange rate: Subtotal in local (main currency) to Euro (sub currency)	Significant numbers	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> D ₈ D ₇ D ₆ D ₅ D ₄ D ₃
Exchange rate decimal position (0 ~ 6) Example (D ₈ ~ D ₂): 123.456 = 1234563, 1.23456 = 1234565	Significant number	<input type="text"/> D ₂
Rounding: Cut off = 0/2, Round off = 1, Round up = 3	Significant number	<input type="text"/> D ₁

2nd record

Description	Choice	Program code
Exchange rate: Tendered amount in Euro (sub currency) to local (main currency)	Significant numbers	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> D ₈ D ₇ D ₆ D ₅ D ₄ D ₃
Exchange rate decimal position (0 ~ 6) Example (D ₈ ~ D ₂): 123.456 = 1234563, 1.23456 = 1234565	Significant number	<input type="text"/> D ₂
Rounding: Cut off = 0 / 2, Round off = 1, Round up = 3	Significant number	<input type="text"/> D ₁

3rd record

Description	Choice	Program code
Monetary mode of sub currency: (0 ~ 3)	Significant number	<input type="text"/> D ₆
Open cash drawer even if in partial tender.	No = 0 Yes = 1	<input type="text"/> D ₅
Drawer number for sub currency: Main = 0 / 1, Sub (option) = 2 ~ 4	Significant number	<input type="text"/> D ₄
Print Euro totals on X/Z report.	No = 0 Yes = 1	<input type="text"/> D ₃
Print change due in currency that is not used for actual change.	a No = 0 Yes = 1	<input type="text"/> (a+b+c) D ₂
Actual change currency	b Main = 0 Sub = 2	
Display symbol of sub currency on the popup display	c E = 0 L = 4	
Print total in sub currency while finalizing.	a No = 0 Yes = 1	<input type="text"/> (a+b+c) D ₁
Print tax amount in sub currency while finalizing.	b No = 0 Yes = 2	
Print amount tender / total in sub currency while finalizing.	c No = 0 Yes = 4	

A-3-32. System files

A-3-32-1 Key table

File name: Key table

File No.: 074 Max. allocatable records: 192 (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	38	
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.	not used	not used	PGM2 Char code 1	PGM2 Char code 2	PGM2 Char code 1	PGM2 Char code 2	PGM2 Char code 1	PGM2 Char code 2	PGM2 Char code 1	PGM2 Char code 2
																		for		for		for			
																		TE-8500F		TE-8000F		TE-7000S			

Key table record No.	Hard key code
001	000
002	001
003	002
004	003
:	:

A-3-32-2 System connection table

File name: System connection table

File No.: 901 Max. allocatable records: 33

0	12	14	16	18			
Logical ID		Distinct M/BM	CHK PGM Status	CHK PGM	Order PGM	Order Status	Check cluster No.

Description	Choice	Program code
Logical ID characters (within 12 characters)	Significant characters	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
		D ₂₄ D ₂₃ D ₂₂ D ₂₁ D ₂₀ D ₁₉
Terminal: Oneself = 02, Others = 01	Significant numbers	<input type="text"/> <input type="text"/>
		D ₁₂ D ₁₁
Check tracking master/backup master (program value): Master = 01, Backup master = 02, Self master = 03, Satellite = 00	Significant numbers	<input type="text"/> <input type="text"/>
		D ₁₀ D ₉
Check tracking master/backup master (current value): Master = 01, Backup master = 02, Self master = 03, Satellite = 00	Significant numbers	<input type="text"/> <input type="text"/>
		D ₈ D ₇
Always "00000"		<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Check tracking cluster number (0 ~ 9) ("0" means no designation.)	Significant number	<input type="text"/>
		D ₁

File Format

A-3-32-3 I/O parameter table

File name: I/O parameter table

File No.: 902 Max. allocatable records: 15

0	5
Program	

Refer to page 65 ~ 67 of the programming manual for details.

A-3-32-4 Printer connection table

File name: Printer connection table

File No.: 903 Max. allocatable records: 24

0	1	13	25	26	27
Type	Main ECR ID	Backup ECR ID	Main printer No.	Backup printer No.	

Refer to page 198 of the programming manual for details.

A-3-32-5 System error log

File name: System error log

File No.: 999 Max. allocatable records: 999

0	2	4	6	7	9	11
Terminal No.	Date	Time	Operation	Error code	Error function	

Refer to page 98, 202, 203 of this manual for details.

A-3-32-6 Auto program control

File name: Auto program control

File No.: 905 Max. allocatable records: 20

0	2	3
File No.	Program	

Refer to page 77 of the programming manual for details.

A-3-32-7 LCD color control

File name: LCD color control

File No.: 906 Max. allocatable records: 10

0	8
Program	

Refer to page 78 ~ 80 of the programming manual for details.

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A-4. 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-4-1 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, and Australia.)
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

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Error messages

A-5. Error messages

A-5-1 Error messages

When an error occurs on a TE-7000S series 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.

Error 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	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	Take away jammed paper from the terminal and turn off / on the terminal.
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	Enter a check number.
E018 Enter Table number.	Table number compulsory	Enter a table number.
E019 Enter Number of covers.	Cover compulsory	Enter the number of customers.
E020 Enter Seat number.	Seat number compulsory	Enter 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.
E026 Condiment Stay downCompulsory ERR. Enter condiment Item(s).	Condiment staydown compulsory error	Enter condiment item(s).
E028 Not found PLU or C/D is mismatch.	Scanning PLU is not found. OBR code is mismatched.	Program the item data. 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	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 and finalize.
E057 No item exists in detail.	Round repeat items 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.	Eat-in or takeout compulsory	Press Eat-in or Takeout key.
***** E060 Printer offline.	Printer offline. "*****" means ECR logical ID and printer number.	Close the printer cover.
***** E061 Printer error.	Printer downed. "*****" means ECR logical ID and printer number.	The contents are printed on the backup printer.
***** 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.

Error message	Meaning	Action
***** E062 Printer paper end. *****	Paper 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 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.	The contents are printed on the backup printer.
E070 Terminal out of action. Cannot print. YES:Retry to print. NO :Backup to R/J printer. ESC:Discard data.		
***** 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.	The contents are printed on the backup printer.
***** E073 Your receipt/order may not be issued. *****	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	Check flash memory.
E083 Cannot create E-Journal. Check Flash memory.	Electronic journal file cannot be created.	
***** 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

Error 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 program 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 illegal.	Check the CF card data.
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 in the CF card duplication error	Follow the prompt message.

A-5-2 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	Mode change : REG2 mode
REG2 Mode	Signing on a training operator
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 reconfiguration 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.

Error messages

A-5-3 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.
0084	Register power down / Flag clear operation is made.
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

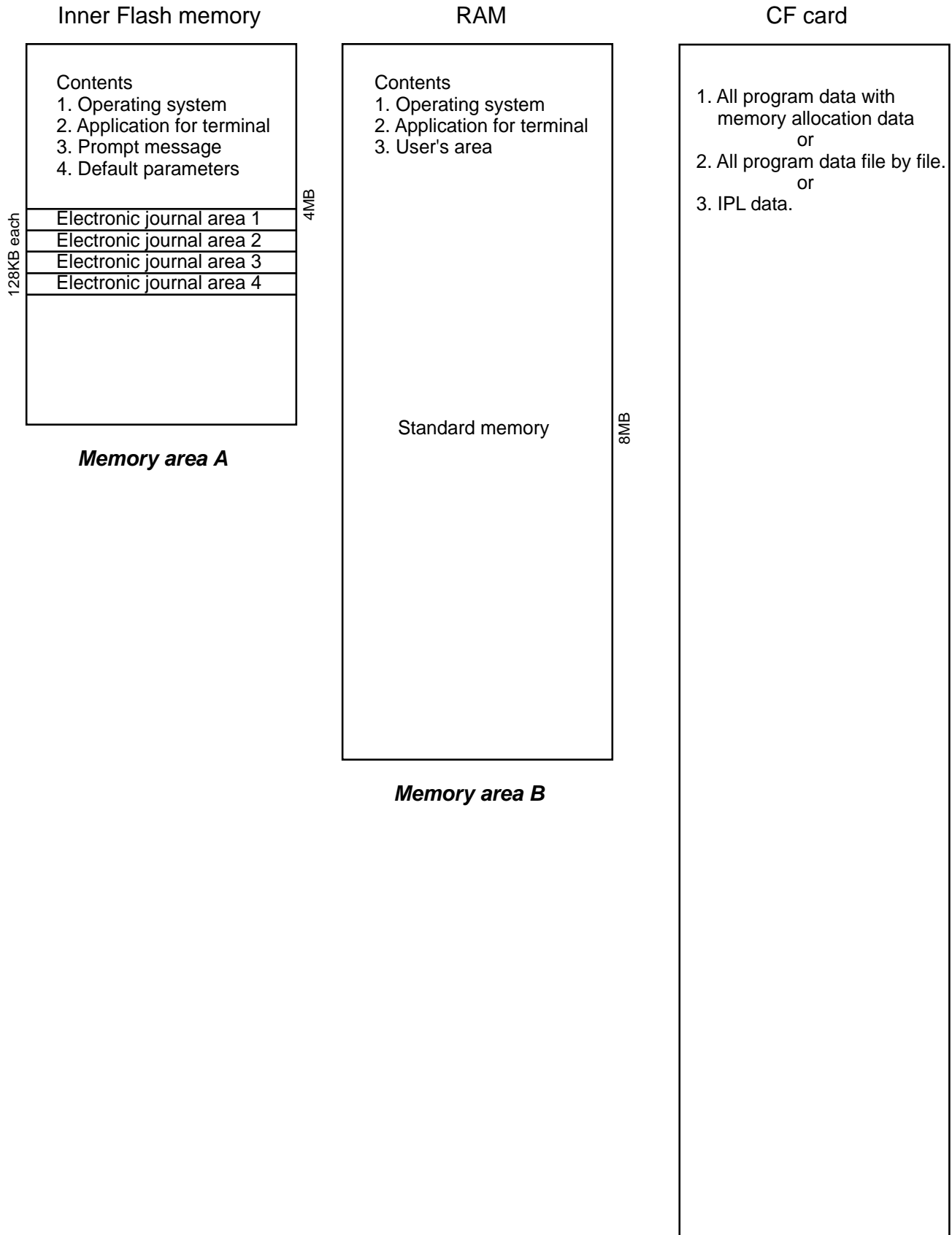


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A-6. Memory map

This chapter shows the memory map of the TE-7000S series terminal and their behaviors by initialization operations.

A-6-1 Memory map



A-6-2 Memory behavior

Memory behavior under the following operations

Note: These operations are followed by the initialization operation.

1. 44449999 <ST>
Clears Memory area (A), and ready to load the IPL data and default parameters from other terminal or CF card.
2. 10000 ~ 60000 / 80000 <ST>
Clears Memory area (B) and ready to load the user program from other terminal, CF card or PC.
3. nn00010000 ~ nn00060000 / nn00080000 <ST>
Set the selected machine ID “nn” and clears Memory area (B) and ready to load the user program from other terminal, CF card or PC.

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CASIO®

CASIO COMPUTER CO., LTD.

6-2, Hon-machi 1-chome
Shibuya-ku, Tokyo 151-8543, Japan

IR0301-A

Printed in Japan
TE-7000 REF*E