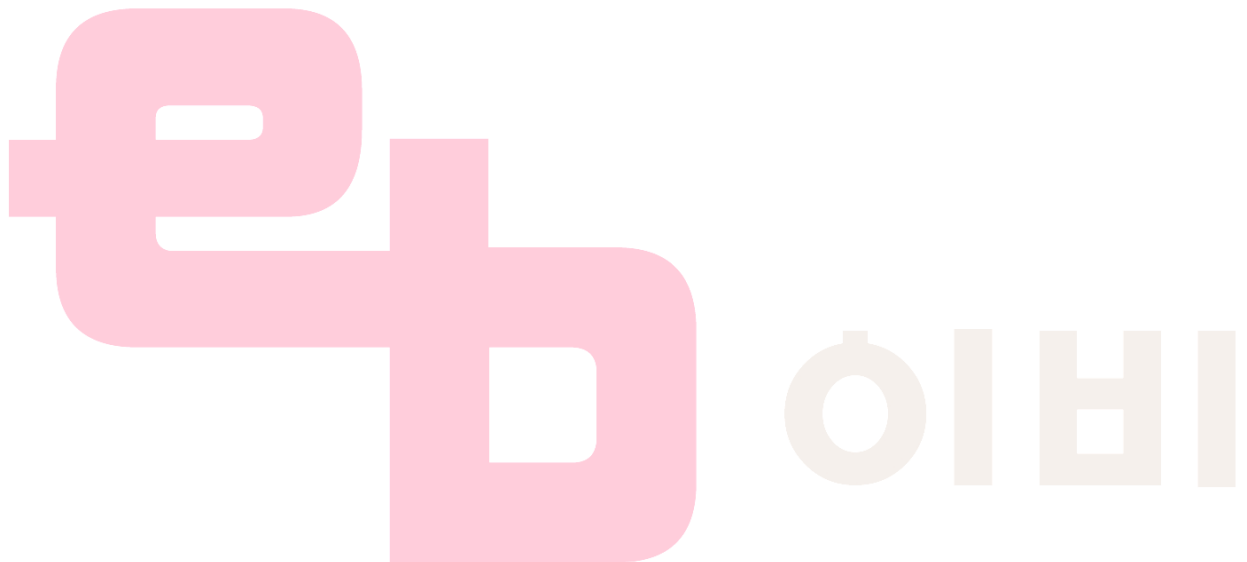


Traffic Card System

Manual for Installer of Manned Charger (ECR-300E)



System Name: Manned Charge System

Stage Name: ECUADOR AFC

Version: Ver. 1.0



Revision History

[illegible]

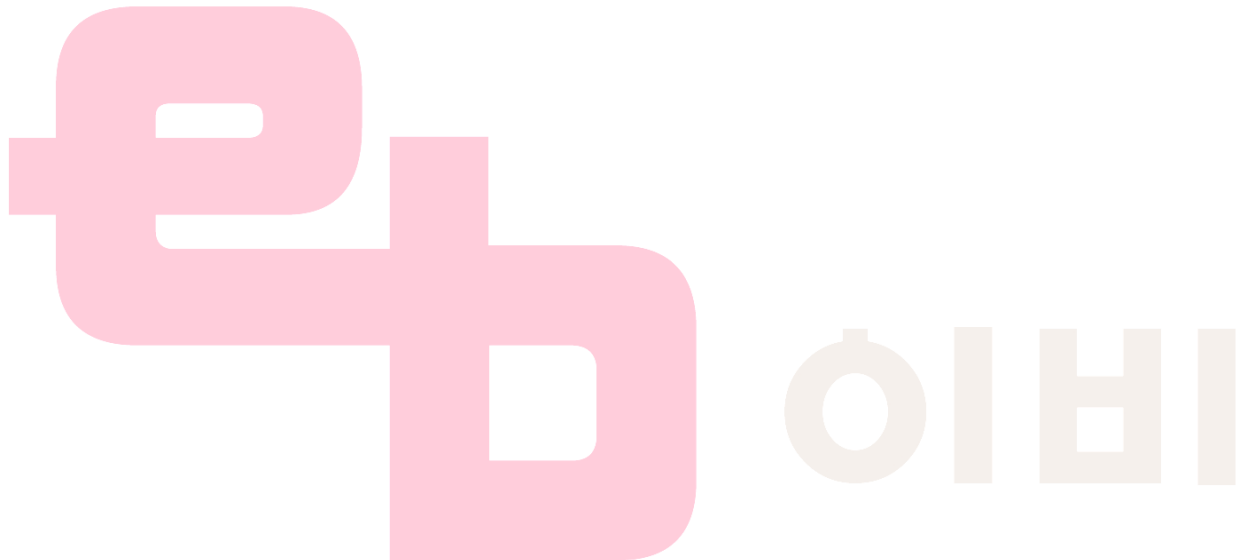
¹ Change Reason: Enter change contents choosing if change contents are addition/correction/deletion/review/approval for previous document.

² Change contents : Write the location where changes occur and the change contents in detail(Describe the chapter, section, change contents)

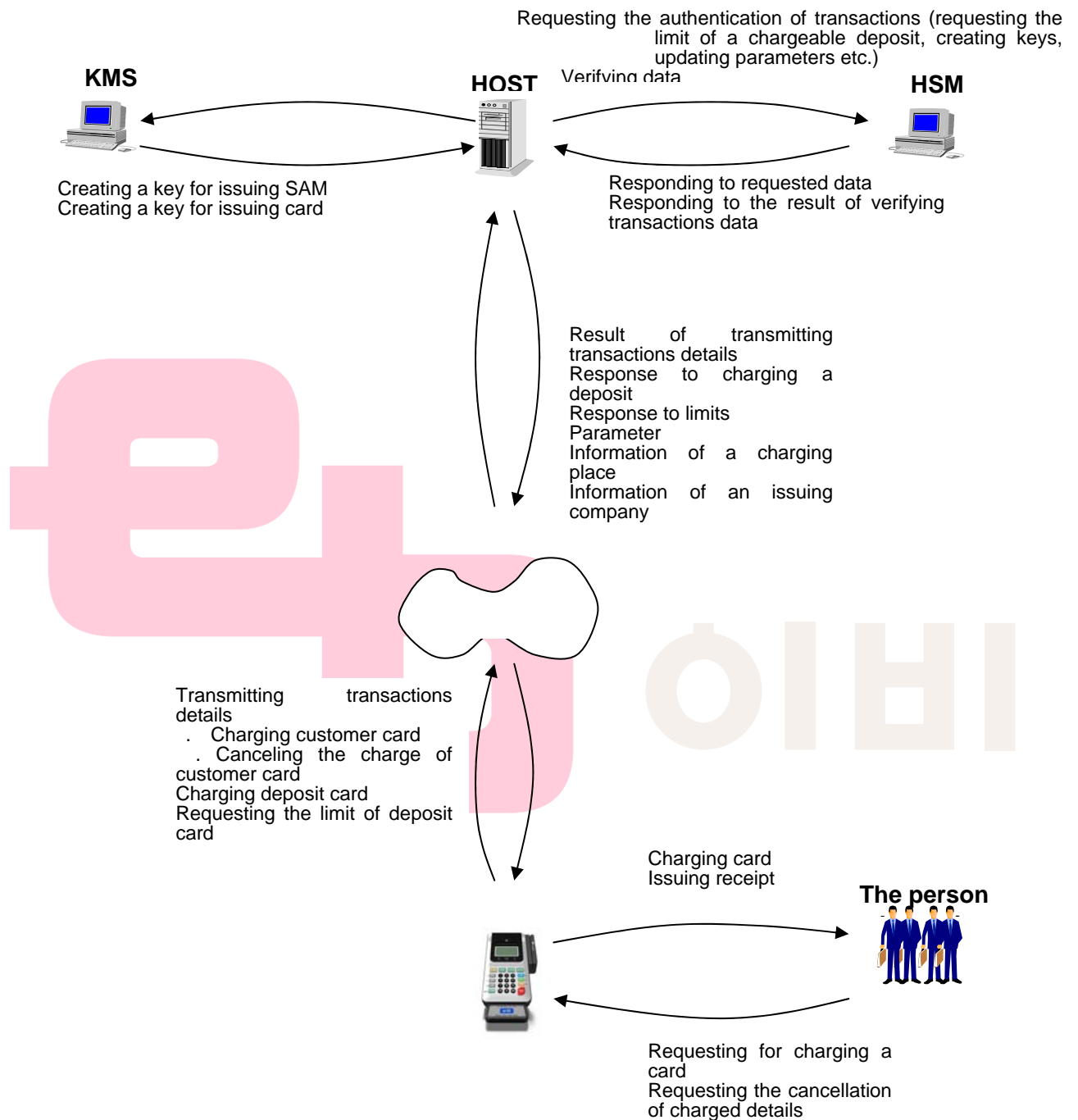
Contents

1. CONSTITUTION DRAWINGS OF CHARGER SYSTEM	4
2. FUNCTION OF CHARGER	5
2.1 Function of automatic diagnostics in power on	5
2.2 Function of testing production	5
2.3 Function of handling traffic card	6
2.3.1 Inquiring the information of prepaid traffic card	6
2.3.2 Charging traffic card	6
2.4 Function of handling SAM	6
2.4.1 Inquiring the information of SAM.....	6
2.4.2 Charging SAM.....	6
2.4.3 Deducting SAM	오류! 책갈피가 정의되어 있지 않습니다.
2.4.4 Approving payment transactions	7
2.5 Saving and managing transactions details	7
2.6 Totaling and inquiring transactions details	7
2.7 Transmitting transactions data	7
2.8 Managing charger	9
2.8.1 Installing charger	9
2.8.2 Receiving a deposit	9
2.8.3 Reporting the receipt of a deposit	9
2.8.4 Setting up charger	9
2.8.5 Upgrading program	10
2.8.6 Function of dumping saved data	10
2.8.7 Changing charger	10
2.9 Function of printing out	10
2.10 Function of displaying a fare for customer.....	10
2.11 Function of indicating troubles	10
3. HARDWARE SPECIFICATION	11
3.1 Drawgins of external form	오류! 책갈피가 정의되어 있지 않습니다.
3.2 Block diagram	13
3.3 Standards	오류! 책갈피가 정의되어 있지 않습니다.
4. SOFTWARE SPECIFICATION	15
4.1 Drawings of function structure	15
5. INSTALLATION AND SET UP	16
5.1 Installing charger.....	17
5.2 Setting up date	19
5.3 Setting up time	19
5.4 Setting up the use of password.....	20
5.5 Changing password	21
5.6 Inquiring the information of a charging place	22
5.7 Setting up the use of an indicator for customer	24
5.8 Printing out the information of a charging place.....	25

5.9 Automatically printing out a receipt.....	26
5.10 Setting up detailed total.....	26
5.11 Setting up the use of exchanger.....	27
5.12 Changing phone number.....	27
5.13 Totalling transactions data.....	28
5.14 Totalling backup data.....	29
5.15 Transmitting backup data..... 오류! 책갈피가 정의되어 있지 않습니다.	
5.16 Adjusting the brightness of screen.....	31
5.17 Choosing used language.....	31
6. MEASURE PLAN FOR POTENTIAL TROUBLES.....	32
6.1 Handling transactions data not transmitted when terminal fails.....	32
6.2 In the case that SAM(electric wallet) is damaged.....	32
6.3 When a receipt is not automatically printed out.....	32
7. USER' S INFORMATION	



1. Constitution Drawings of Charger System



2. Function of Charger

2.1 Function of automatic diagnostics in power on

Charger checks the following in power on.

- Checking whether memory is normal or not
- Checking whether RTC is normal or not
- Checking whether RF Module(RC531) is normal or not
- Checking whether printer(status of paper) is normal or not
- Checking whether MODEM is normal or not
- Displaying the version of charger
- Displaying the number of charger

2.2 Function of testing production

Charger should be delivered from warehouse after you complete the test of the following items.

Whether memory is normal or not

- Whether RTC is normal or not
- Whether RF Module(RC531) is normal or not
- Whether SAM is normal or not
- Whether printer is normal or not (trial printing)
- Whether MODEM is normal or not
- Whether communication ports are normal or not
 - COM1: Indicator for customer
 - COM2: Exclusive lines (RS-232C)
- Whether keypad is normal or not
- Whether LCD is normal
- Whether IC card slot is normal or not (6 ports)
- RF Card Test(Type A,B)

2.3 Function of handling traffic card

2.3.1 Inquiring the information of prepaid traffic card

Verifying whether there is such abnormality as damaging the data of prepaid traffic card, forging the card or not

Confirming the final use information of prepaid traffic card

– Object of use, distinction of getting on or off, date of use, time, used amount, card number etc.

The balance of prepaid traffic card is displayed to the screen of charger or indicator for customer.

2.3.2 Charging traffic card

Verify whether prepaid traffic card electric wallet is normal or not, deduct the amount whose charge is requested from SAM if the balance of SAM is enough, charge charged amount into prepaid traffic card, and store the transactions data.

Charge fee is downloaded when you charge the next deposit, being calculated in HOST.

You can charge prepaid traffic card within the balance range of electric wallet.

It is the principle to input charged amount by key.

Charge progress status is displayed to an indicator for customer.

You can issue charge receipt choosing the automatic or manual issue, and it is possible to issue it again.

Seoul Mifare card and EB CPU card is currently usable as chargeable card.

2.4 Function of handling SAM

2.4.1 Inquiring the information of SAM

Charger inquires SAM ID and current balance when it inquires the information of SAM.

2.4.2 Charging SAM

Charging place pays a deposit on the account of the bank of its managing corporation, and request for charging SAM to charge host.

Charging place requests for charging SAM to charge host.

Charge host verifies the payment of a deposit from bank, and sends the charge information of SAM to charger. Charger charges SAM embedded according to the information received from charge host.

When SAM is charged, the balance in, before, after charging is displayed.
A charged detail is printed out. (in case that printout of receipt is automatic)

2.4.3 Deducting SAM

In case that charge transactions of traffic card is normal, the amount requested for charge is deducted and transactions details is saved.

Because charged SAM is deducted from current balance, it is necessary to settle up the charged amount received from the user of prepaid traffic card with the administration corporation after the fact.

2.4.4 Approving payment transactions

In the payment transactions of traffic card, charger receives the approval information into SAM (electric wallet) and carries out the payment transactions of traffic card, and saves the transactions details.

2.5 Saving and managing transactions details

Charger stores transactions details in main and backup memory in order to prevent damage or loss.

Transactions details to be saved are as follows.

- Charge transactions details
- Charge cancellation transactions details
- Information details of a charging place
- Information details of issuing companies and keys

2.6 Totaling and inquiring transactions details

It is possible to total transactions details by printer and screen for the convenience of user.

It is possible to inquire total details by day and by period.

It should be possible to total by case in order to prevent the loss of data.

Total details are as follows.

- The number of charge details cases and the amount of money
- The number of cases transmitted/not transmitted and the amount of money
- The number of total use cases standardizing the date of totaling and the amount of money

2.7 Transmitting transactions data

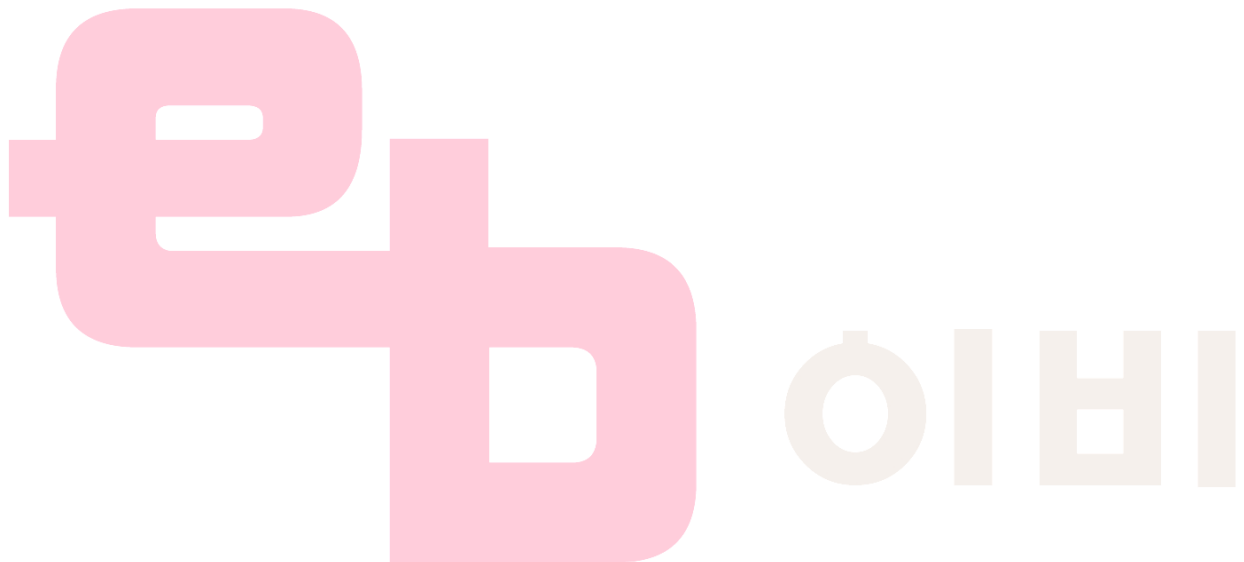
If the status of charger matches with such conditions as the number of regular cases and the maximum transmitted amount of money, charger tries to transmit transactions data automatically.

It is supposed that transmission conditions can be changed in charge host.

When power is on, if there are data not transmitted, charger tries to transmitting them automatically.

Transmitted data are composed of charge data and charge cancellation data.

It is possible to charge SAM when transmitting data is completed.



2.8 Managing charger

2.8.1 Installing charger

Charger receives various information and parameters necessary for operating charger by connection using charge host and public phone network(PSTN)

The installation of charger is done by installer and charger receives operation information changed during the use of charger automatically.

All information necessary for operating charger are downloaded in charge host.

Operation information changed during a use is automatically updated from charge host.

It is possible to verify password when inputting power.

The date and time of charger should be matched with those of charge host.

2.8.2 Receiving a deposit

There is a charging place in the account of the bank of the administration corporation so that prepaid traffic card is quickly charged and it is convenient to handle the settlement of the revenue between a charging place and the administration corporation.

Charging fee is automatically paid to a charging place each time a deposit is charged.

2.8.3 Reporting the receipt of a deposit

Bank reports the receipt data of a deposit to charge host in online in order that the deposit paid on the account of the administration corporation is quickly charged into the electric wallet in a charging place.

2.8.4 Setting up charger

You can set up and change the following functions by operating keys in order to manage and use charger.

- Changing date
- Changing time
- Setting up the use of password (when power is on)
- Changing password (when power is on)
- Inquiring the information of a charging place
- Printing out details set up
- Setting up an indicator for customer
- Setting up the automatic printout of a receipt
- Totaling sales
- Changing phone number

2.8.5 Upgrading program

When it is necessary to change program during the operation of charge, it is possible to change it easily by using USB.

2.8.6 Function of dumping saved data

When troubles occur in terminal, you can save all contents saved in memory into computer or other terminal by using USB.

2.8.7 Changing charger

When faults except the fault of memory board and SAM occur, it is possible to reuse by changing memory board and SAM inside charger.

2.9 Function of printing out

Charger can print out the data of all transactions details.

The contents of receipt which can be printed out are as follows.

- A receipt of charging traffic card
- A receipt of charging SAM
- A receipt of canceling just prior transactions

All receipt should be reprinted out.

Sales total can be printed out.

The information of a charging place can be printed out.

2.10 Function of displaying a fare for customer

The balance of prepaid traffic card and the amount requested for charging and the balance after charging are displayed on an indicator for customer with a lighting LED lamp.

2.11 Function of indicating troubles

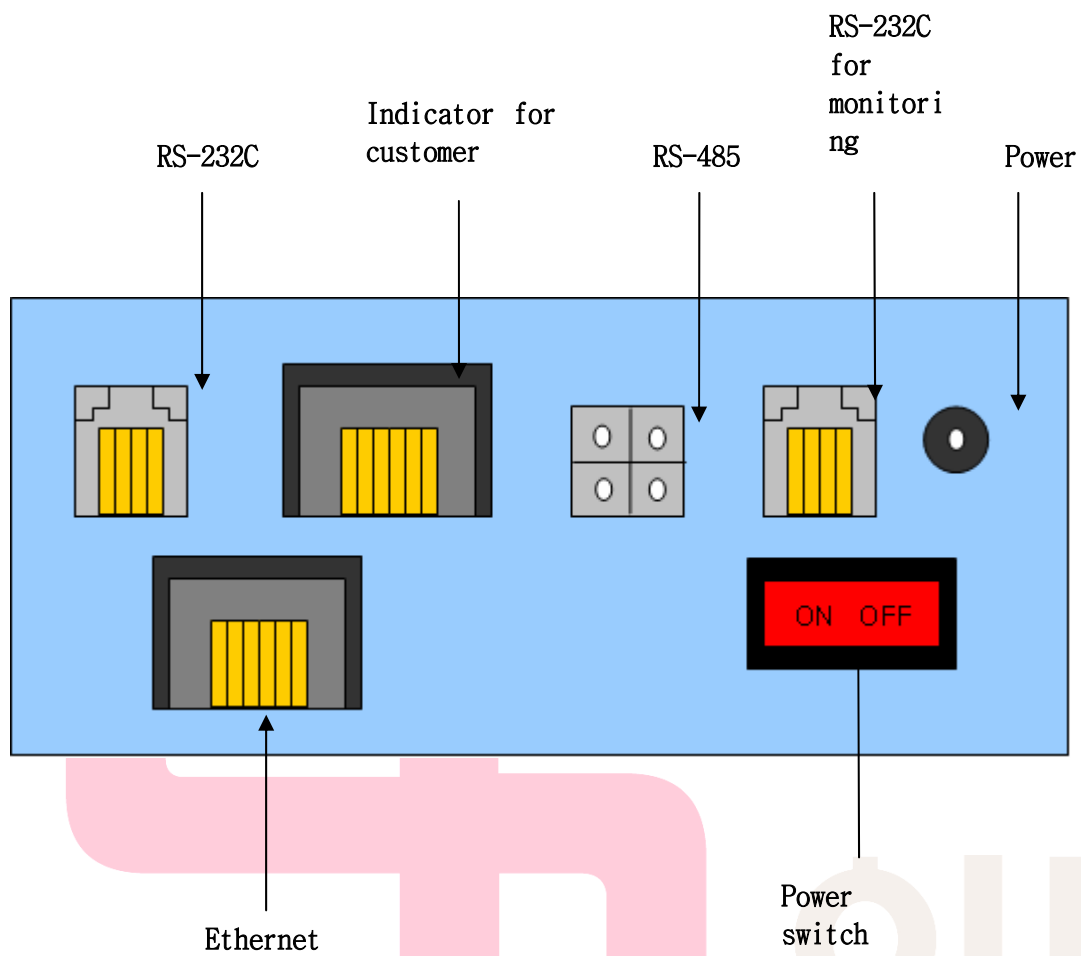
When the following serious troubles occur, alarm sounds and charger displays the screen requesting A/S and the contents of troubles and codes on LCD screen.

- RTC error
- SAM error
- Error in RF module
- Not possible to save memory

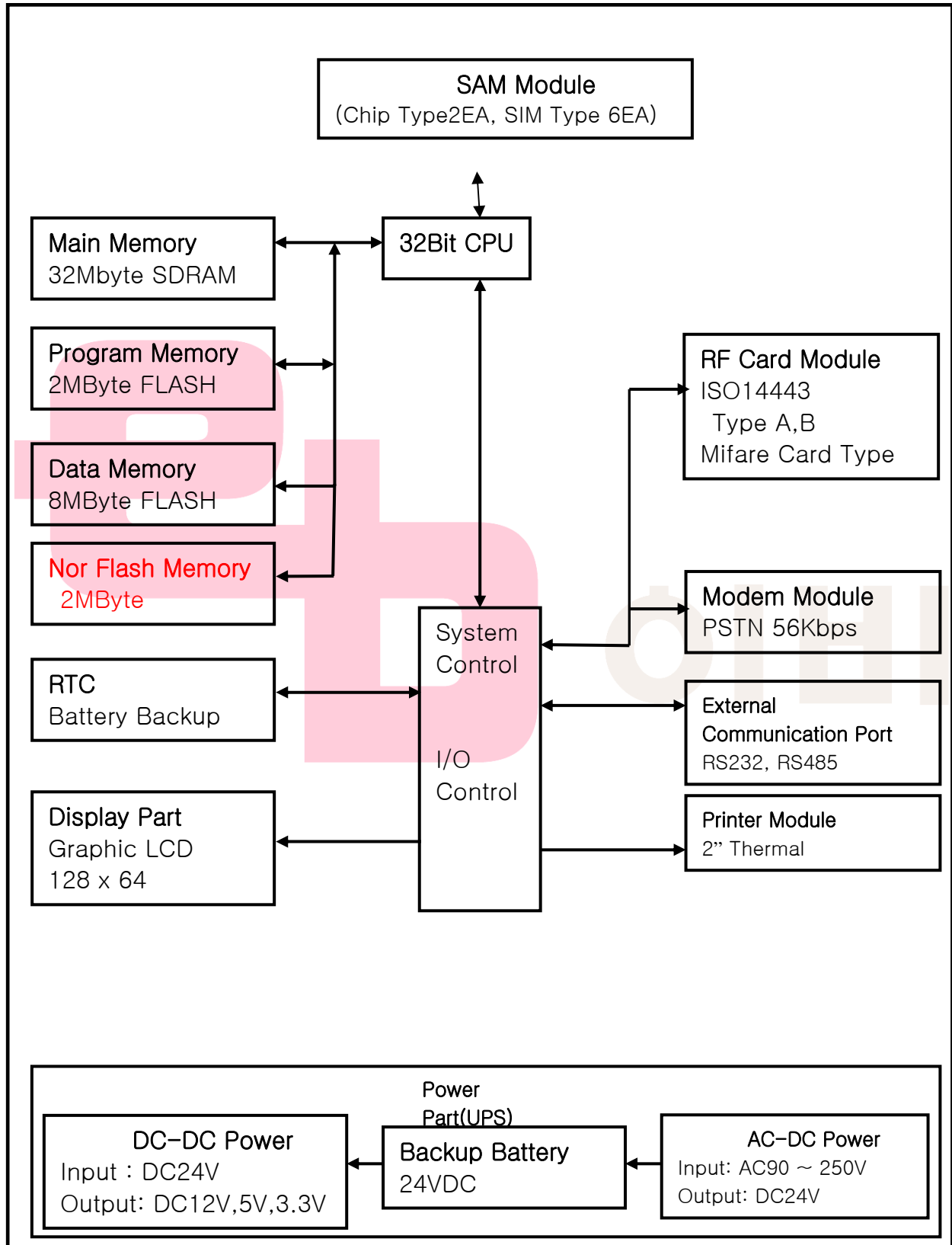
3. HARDWARE Specification

3.1 Drawings of external form





3.2 BLOCK DIAGRAM

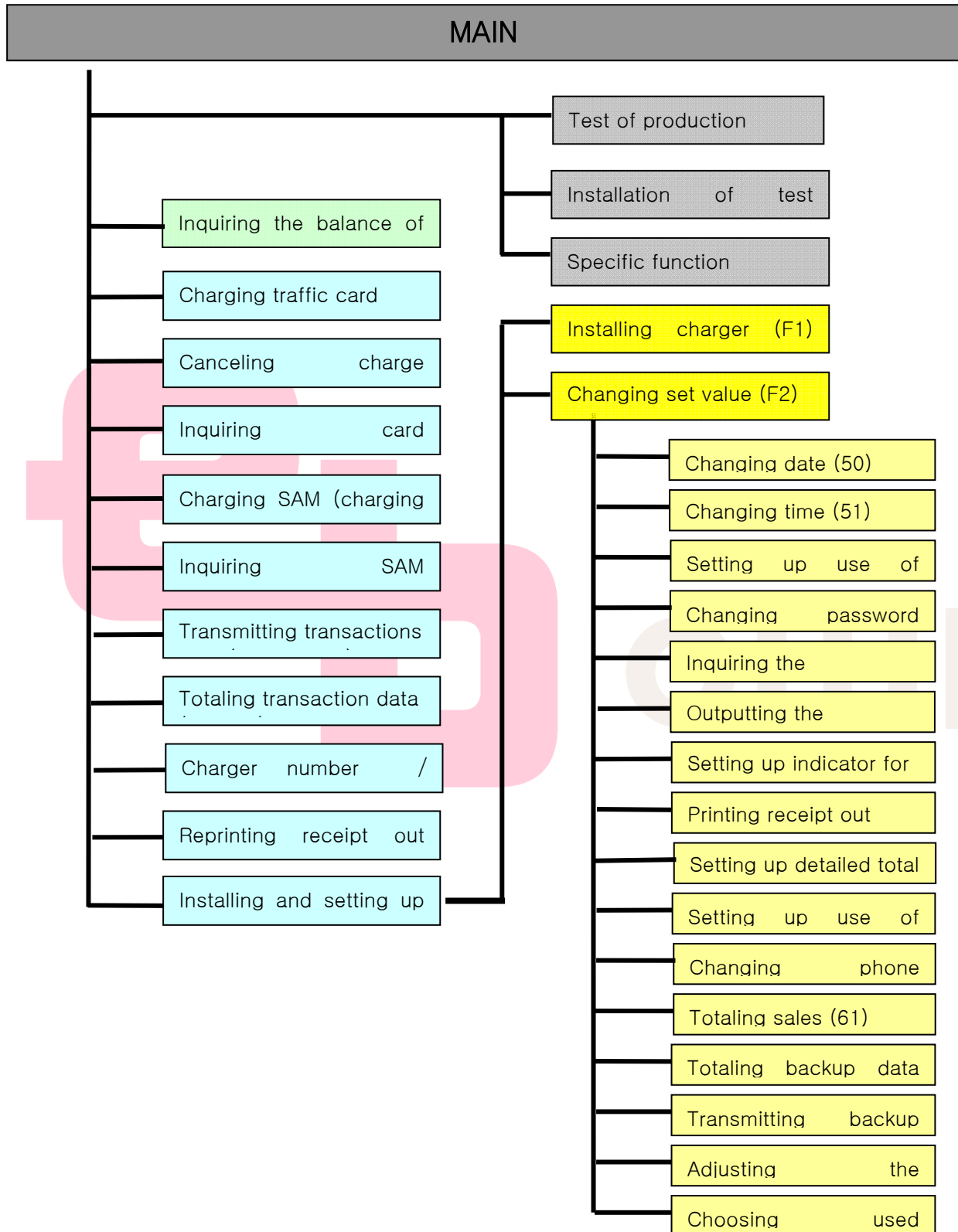


3.3 Standards


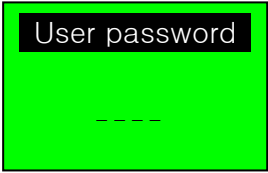
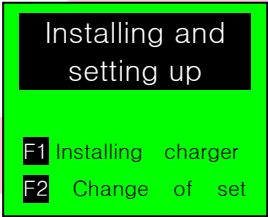
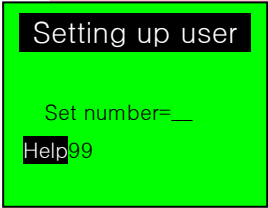
Division	Contents
CPU	32Bit, PLL embedded, 3.3Volt Operation
Memory	32Mbyte(SDRAM) – Main Memory 2MBytes(Flash) – Program Memory 8MByte – data Flash Memory(NAND) 2Mbyte – Data Backup Nor Flash Memory
RF Card Module (Contactless)	RF Type Mifare-1, ISO14443 Type-A,B Module Sensing distance – within 5 cm, Security algorithm – Des, 3-Des
Printer	2" Thermal Printer English 32 letters/row, Korean 16 letters/row
Multi-SAM Module	Micro Chip Type SAM – 2EA, SIM CARD Slot – 6 EA
RTC	RTC(Backup Battery) with CPU embedded
Communication Port 1	2 internal RS-232C (prepaid, Ministry of Information and Communication, 6SIM) 4 External [RS-485(subway),MODEM(PSTN) port, Console port]
Communication Port 2	USB Master ,USB Slave Port
Key PAD	Number 11key,Function Key 13
Display (Customer)	7 digit 7 Segment LED 1 Line (Dual Display) LED lamp for displaying the balance before and after charge and the charged amount
Display (Main)	128 x 64 Graphic LCD , LED Backlight
Power Part	Input – DC 24Volts Output – DC 3.3Volts, 5Volts, 12Volts

4. SOFTWARE Specification

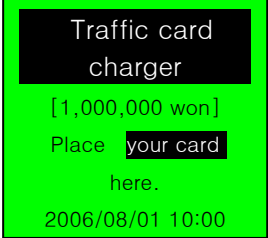
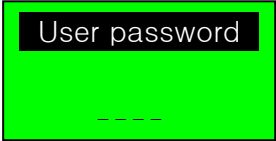
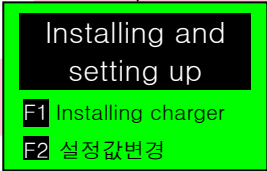
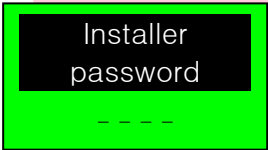
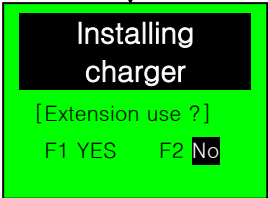

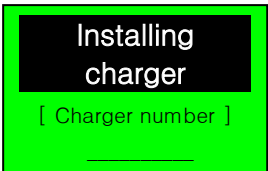
4.1 Drawings of function structure

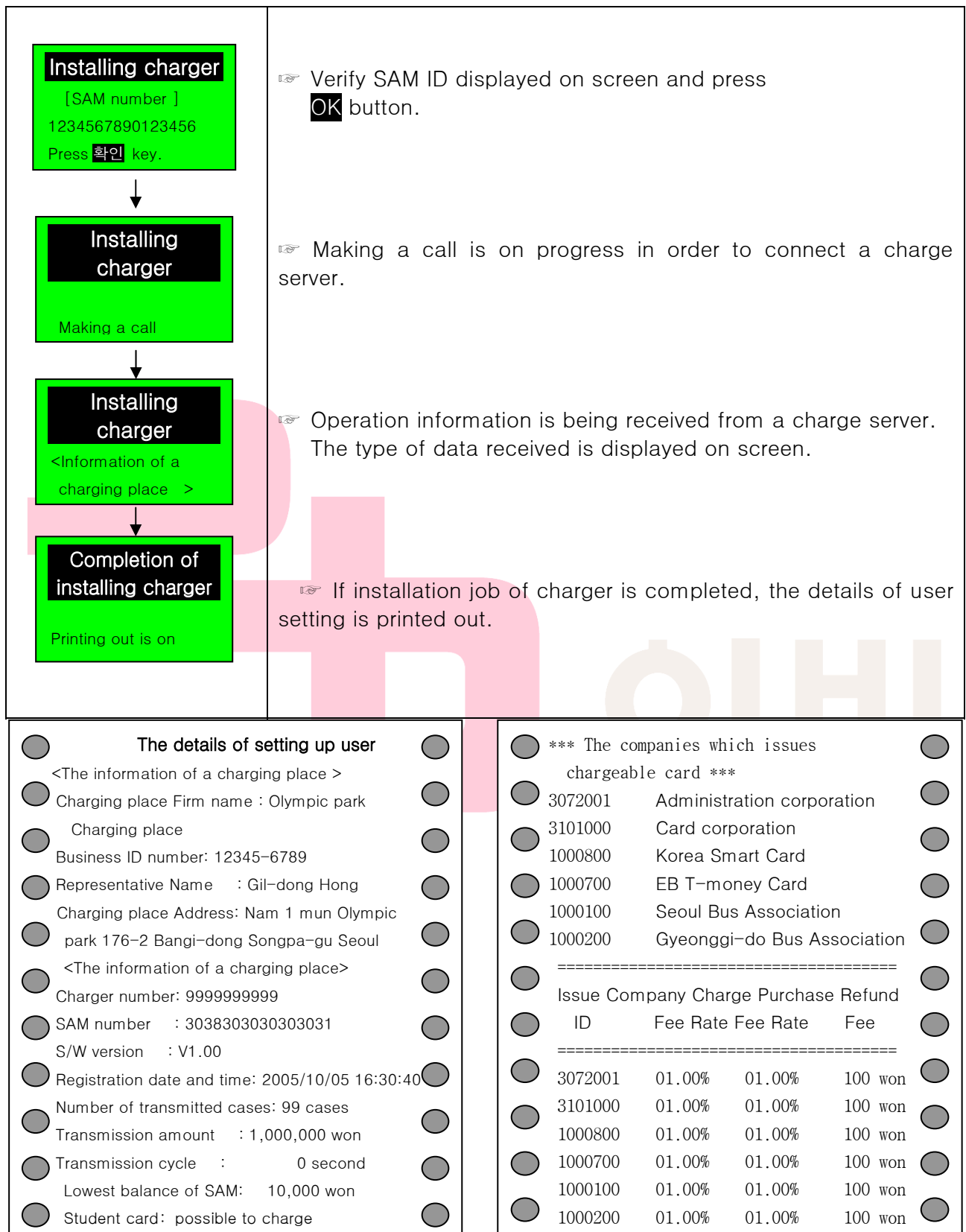


5. Installation and Set up

Screen	Handled contents
 <p>Traffic card charger</p> <p>[1,000,000 won]</p> <p>Place your card here.</p> <p>2006/08/01 10:00</p>	<ul style="list-style-type: none"> - If Specific function key is inputted in initial screen, the function of installing charger and changing set value operates.
 <p>User password</p> <p>-----</p>	<ul style="list-style-type: none"> - Four ciphers of user password (1764) is verified.
 <p>Installing and setting up</p> <p>F1 Installing charger</p> <p>F2 Change of set</p>	<ul style="list-style-type: none"> - Job is chosen. If F1 key is inputted, installation of charger is done. If F2 key is inputted, job of setting up is done according to the set number inputted next.
 <p>Setting up user</p> <p>Set number=___</p> <p>Help99</p>	<ul style="list-style-type: none"> - If F2 key is inputted, environment variables of terminal use is set up or changed. - It is demanded to input set number. <p>< Set number ></p> <ul style="list-style-type: none"> 50 : Changing date 51 : Changing time 52 : Using password 53 : Changing password 54 : Inquiring the information of a charging place 55 : Outputting the the information of a charging place 56 : Whether you use an indicator for customer or not(default: use) 57 : Automatic or manual printout of receipt (default: manual) 58 : Setting up detailed total 59 : Setting up the use of exchanger (default: not use) 60 : Changing phone number 61 : Totaling sales 62 : Totaling backup data 63 : Transmitting backup data 64 : Adjusting the brightness of screen 65 : Choosing used language 99 : Help

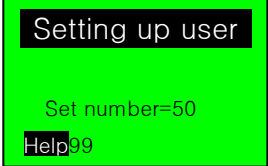
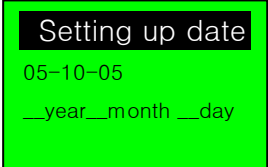
5.1 Installing charger

Screen	Handled contents
 <p>Traffic card charger [1,000,000 won] Place your card here. 2006/08/01 10:00</p>	<ul style="list-style-type: none"> - If Specific function key is inputted in initial screen, Installation and setting up of charger is done.
 <p>User password -----</p>	<ul style="list-style-type: none"> - Four ciphers of user password (1764) is verified.
 <p>Installing and setting up F1 Installing charger F2 설정값변경</p>	<ul style="list-style-type: none"> - If F1 key is inputted, installation job of charger is done.
 <p>Installer password -----</p>	<ul style="list-style-type: none"> - Four ciphers of user password (3587) is verified.
 <p>Installing charger [Extension use ?] F1 YES F2 No</p>	<ul style="list-style-type: none"> - When charger is installed, communication line is PSTN(phone line). Whether exchanger is used or not is chosen. F1: Using exchanger F2: Not using exchanger
 <p>Installing charger [Inputting phone number] _____</p>	<ul style="list-style-type: none"> - It is demanded to input phone number for connecting a charge host. (ex.:15440120)
 <p>Installing charger [Charger number] _____</p>	<ul style="list-style-type: none"> - It is demanded to input ten ciphers of charger number.

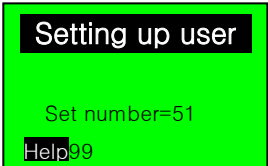
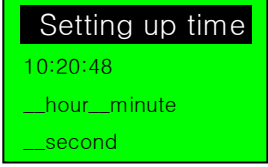


* The above printout can be different from the fact.

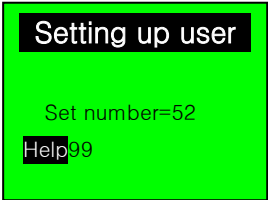
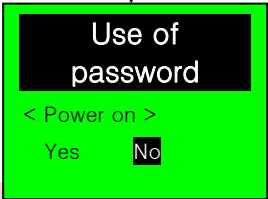

5.2 Setting up date

Screen	Handled contents
 	<p>☞ If you input set number “ 50” , you can change current date.</p> <p>☞ Current date is displayed on screen. Input new date and push OK button. If you push Cancel button, current screen return to the screen inputting set number.</p>

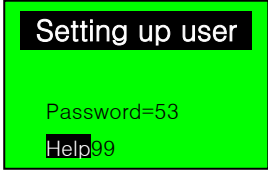
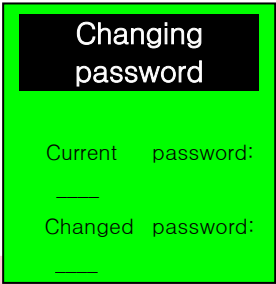
5.3 Setting up time

Screen	Handled contents
 	<p>☞ If you input set number “ 51” , you can change current time.</p> <p>☞ Current time is displayed on screen. Input new time and push OK button. If you push Cancel button, current screen can returns to the screen inputting set number.</p>

5.4 Setting up the use of password

Screen	Handled contents
 <p>Setting up user</p> <p>Set number=52</p> <p>Help99</p> <p>↓</p>  <p>Use of password</p> <p>< Power on ></p> <p>Yes No</p> <p>↓</p>  <p>Inputting password</p> <p>_____</p>	<p>☞ If you input set number “ 52” , you can use the function of verifying password when charger power is on.</p> <p>☞ In case of using password, Only user who knows the password he or she is using can change the password or cancel the use of password.</p> <p>☞ Choose whether you use password or not, and push OK button.</p> <p>5,000 won: Yes (Using password)</p> <p>30,000 won: No (Not using password)</p> <p>☞ This screen is displayed only when you use password.</p> <p>☞ Input the password you will use. It is supposed that password should be inputted twice for verification.</p> <p>☞ If you push Cancel button, Current screen returns to the screen inputting set number.</p>

5.5 Changing password

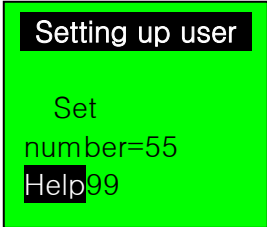
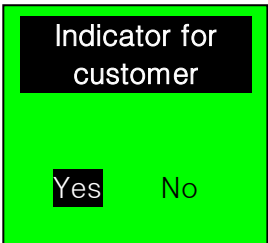
Screen	Handled contents
 <p>Setting up user</p> <p>Password=53</p> <p>Help99</p> <p>↓</p>  <p>Changing password</p> <p>Current password:</p> <p>_____</p> <p>Changed password:</p> <p>_____</p>	<p>☞ If you input set number “ 53” , you can change password.</p> <p>☞ Input the password you are using. Only use who knows the password he or she is using can change it.</p> <p>☞ Input new password you will change twice.</p> <p>☞ If you push Cancel button, current screen returns to the screen inputting set number.</p>

5.6 Inquiring the information of a charging place

Screen	Handled contents
<div>Setting up user</div> <div>Set number=54</div> <div>Help99</div>	<p>☞ If input set number “ 54” , you can inquire the information of a charging place received from charge server.</p> <p>☞ If you push Cancel button during inquiry, Current screen return to the screen inputting set number.</p>
<div>Inquiring the information of a charging place</div> <div>Charging place Name: Gyeonggi-do charging</div>	<p>☞ The name of a charging place is displayed on screen. If you push OK button, next screen is displayed.</p>
<div>Inquiring the information of a charging place</div> <div>Representative Name: Kil-dong Hong</div>	<p>☞ The representative name of a charging place is displayed on screen. If you push OK button, next screen is displayed, and if you push F4 button, previous screen is displayed.</p>
<div>Inquiring the information of a charging place</div> <div>Charging place Address: 123</div>	<p>☞ The address of a charging place is displayed on screen. If you push OK button, next screen is displayed, and if you push F4 button, previous screen is displayed.</p>
<div>Inquiring the information of a charging place</div> <div>Business ID number: 1234567890</div>	<p>☞ Business ID number is displayed on screen. If you push OK button, next screen is displayed, and if you push F4 button, previous screen is displayed.</p>
<div>Inquiring the information of a charging place</div> <div>Terminal number: 9999999999</div>	<p>☞ The number of terminal is displayed on screen. If you push OK button, next screen is displayed, and if you push F4 button, previous screen is displayed.</p>
<div>Inquiring the information of a charging place</div> <div>Firm name of charging place: Test</div>	<p>☞ The firm name of a charging place is displayed on screen. If you push OK button, next screen is displayed, and if you push F4 button, previous screen is displayed.</p>

Screen	Handled contents
<div>Inquiring of the information of a charging place</div> <div>HOST Phone number: 8620943 8620943</div> <div>↓</div> <div>Inquiring of the information of a charging place</div> <div>Registration Date and time: 2005/10/05 10:00</div> <div>↓</div> <div>Inquiring of the information of a charging place</div> <div>The number of transmitted cases : 35 cases Transmitted amount of money 100000 원</div>	<p>☞ The phone number for connecting charge server is displayed on screen. If you push OK button, next screen is displayed, and if you push F4 button, previous screen is displayed.</p> <p>☞ The date when the operation information of charge is received most lately is displayed on screen. If you push OK button, next screen is displayed, and if you push F4 button, previous screen is displayed.</p> <p>☞ The conditions where transactions data are automatically transmitted on screen. If you push OK button, next screen is displayed, and if you F4 button, previous screen is displayed.</p>

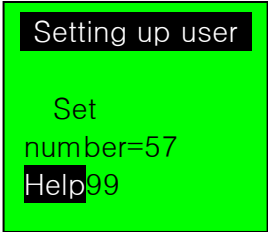
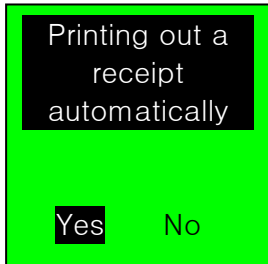
5.7 Setting up the use of an indicator for customer

Screen	Handled contents
 <p>Setting up user</p> <p>Set number=55</p> <p>Help99</p> <p>↓</p>  <p>Indicator for customer</p> <p>Yes No</p>	<p>☞ If you input set number “ 55” , you can set up the function of using an indicator for customer.</p> <p>☞ Choose whether you use an indicator for customer or not, push OK button.</p> <p>5,000 won: Yes (Using an indicator for customer)</p> <p>30,000 won: No (Not using an indicator for customer)</p>

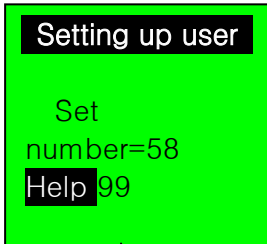
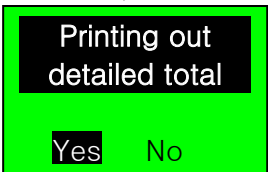
5.8 Printing out the information of a charging place

Screen	Handled contents
<div>Setting up user</div> <div>Set number=56 Help99</div> <div>↓</div> <div>User setup details</div> <div>Charger is printing out, wait for a minute</div>	<p>☞ If you input set number “ 56” , Current details of setup is printed out.</p> <div> <div>User setup details</div> <div> <div><The information of a charging place></div> <div>Charging place Firm name: Olympic park</div> <div>Charging place</div> <div>Business ID number: 12345-6789</div> <div>Representative name : Gil-dong Hong</div> <div>Charging place address: South 1 gate Olympic park 176-2 Bangi-dong Songpa-gu Seoul</div> <div><The information of charger></div> <div>Charger number: 9999999999</div> <div>SAM number : 3038303030303031</div> <div>S/W version : V1.00</div> <div>Registration date and time: 2005/10/05 16:30:40</div> <div>Number of transmission cases: 99 cases</div> <div>Transmission amount : 1,000,000 won</div> <div>Transmission cycle : 0 second</div> <div>SAM lowest balance: 10,000 won</div> <div>Student card : Chargeable</div> </div> </div> <div> <div>*** The companies which issue chargeable card ***</div> <div> <div>3072001 Administration corporation</div> <div>3101000 Card corporation</div> <div>1000800 Korea Smart Card</div> <div>1000700 EB T-money Card</div> <div>1000100 Seoul Bus Association</div> <div>1000200 Gyeonggi-do Bus Association</div> </div> <div>=====</div> <div> <div>Issue Company Charge Purchase Refund</div> <div>ID Fee rate Fee rate Fee</div> <div>=====</div> <div> <div>3072001 01.00% 01.00% 100 won</div> <div>3101000 01.00% 01.00% 100 won</div> <div>1000800 01.00% 01.00% 100 won</div> <div>1000700 01.00% 01.00% 100 won</div> <div>1000100 01.00% 01.00% 100 won</div> </div> </div> </div>

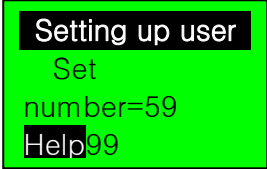
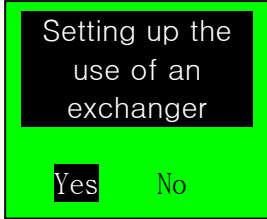
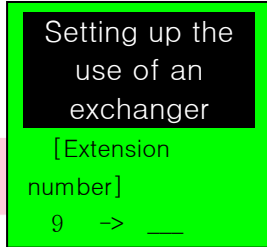
5.9 Automatically printing out a receipt

Screen	Handled contents
 <p>Setting up user</p> <p>Set number=57</p> <p>Help99</p> <p>↓</p>  <p>Printing out a receipt automatically</p> <p>Yes No</p>	<p>☞ If you input set number “ 57” , you can set up the function of printing out a receipt automatically.</p> <p>☞ Choose whether you print out a receipt automatically, push OK button.</p> <p>5,000 won: Yes (Printing out a receipt automatically)</p> <p>30,000 won: No (Printing out a receipt manually)</p>

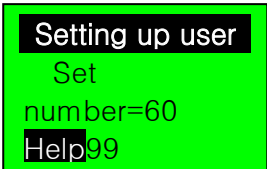
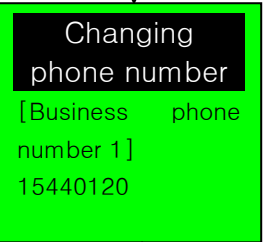

5.10 Setting up detailed total

Screen	Handled contents
 <p>Setting up user</p> <p>Set number=58</p> <p>Help 99</p> <p>↓</p>  <p>Printing out detailed total</p> <p>Yes No</p>	<p>☞ If you input set number “ 58” , you can set up the function of printing out detailed total table. This function is applied only to totaling by printer</p> <p>☞ Choose whether you print out detailed total table, push OK button.</p> <p>5,000 won: Yes (Printing out detailed total table)</p> <p>30,000 won: No (Not printing out detailed total table)</p>

5.11 Setting up the use of an exchanger

Screen	Handled contents
 <p>Setting up user Set number=59 Help99</p> <p>↓</p>  <p>Setting up the use of an exchanger</p> <p>Yes No</p> <p>↓</p>  <p>Setting up the use of an exchanger</p> <p>[Extension number] 9 -> _</p>	<p>☞ If you input set number “ 59” , you can set up the function of using an exchanger.</p> <p>☞ The charger which is installed in the place where an interphone is used should be set up as Yes.</p> <p>☞ Choose whether you use an exchanger or not, push OK button. 5,000 won: Yes (Using an exchanger) 30,000 won: No (Not using an exchanger)</p> <p>☞ This screen is displayed only in case of using an exchanger.</p> <p>☞ Input an exchange number, push OK button.</p>

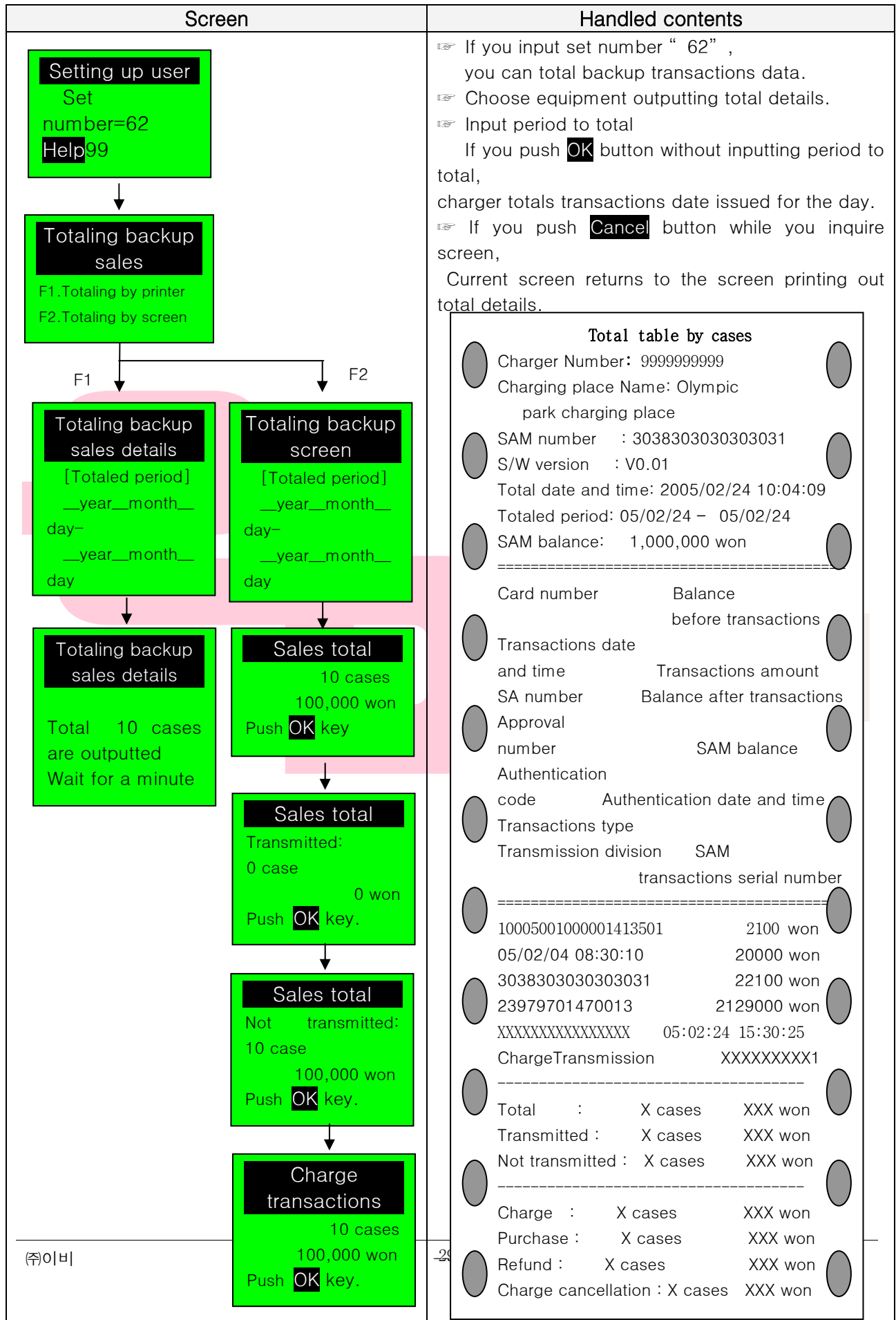
5.12 Changing phone number

Screen	Handled contents
 <p>Setting up user Set number=60 Help99</p> <p>↓</p>  <p>Changing phone number</p> <p>[Business phone number 1] 15440120</p> <p>↓</p>  <p>Changing phone number</p> <p>[Business phone number 2] 15440120</p>	<p>☞ If you input set number “ 60” , you can change a phone number for connecting charge server.</p> <p>☞ Input a phone number, push OK button.</p> <p>☞ If you push Cancel button, current screen returns to the screen inputting set number.</p>

5.13 Totaling transactions data

Screen	Handled contents
<pre> graph TD A["Setting up user Set number=61 Help99"] --> B["Totaling transactions data F1 Totaling printer data F2 Totaling screen data F3 Deleting sales data"] B -- F2 --> C["Totaling screen data [Totaled period] __year__month__day- __year__month__day"] B -- F1 --> D["Totaling sales details [Totaled period] __year__month__day- __year__month__day"] C --> E["Sales total 10 case 100,000 won Push OK key."] D --> F["Totaling sales details It is printing out, wait for a minute."] E --> G["Sales total Transmitted: 10 cases 100,000 won Push OK key."] G --> H["Sales total Not transmitted: 0 case 0 won Push OK key."] H --> I["Charge transactions 10 cases 100,000 won Push OK key."] </pre>	<p>☞ If you input set number “ 61” , you can total transactions data.</p> <p>☞ Choose the equipment printing out total details. If you push Cancel button, current screen returns to the screen inputting set number.</p> <p>☞ Input the period when you want to total. If you push OK button without inputting the period to total, Transactions data issued for the day is totaled.</p> <p>☞ If the printout of totaled data is completed, current screen returns to the screen choosing the printout equipment of total details.</p> <p>☞ If you push Cancel button during inquiring screen or inquiry is completed, current screen returns to the screen choosing the printout equipment of total details.</p>

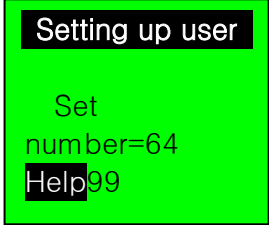
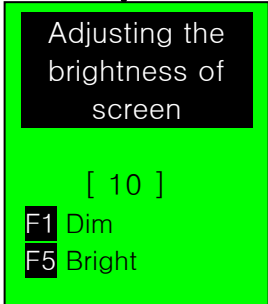
5.14 Totaling backup data



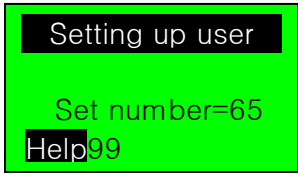
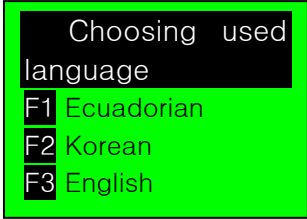
5.15 Transmitting backup data

Screen	Handled contents
<div>Setting up user</div> <div>Set number=63 Help99</div>	<p>☞ If you input set number “ 63” , you can transmit backup transactions data into charge server.</p>
<div>Transmitting backup data</div> <div>[transmission period] __year__month__day - __year__month__day</div>	<p>☞ Input the transactions period of backup data transmitted. If you push OK button without inputting the transactions period, transactions data issued for the day is transmitted into charge server.</p>
<div>Transmitting backup data</div> <div>System is making a call.</div>	<p>☞ System is making a call to charge server.</p>
<div>Transmitting backup data</div> <div>Transmission: 10/100</div>	<p>☞ The number of total case to transmit and number of transmitted case is displayed on screen.</p>
<div>Transmitting backup data</div> <div>Transmission is completed.</div>	<p>☞ If transmission is completed, current screen returns to the screen inputting set number.</p>

5.16 Adjusting the brightness of screen

Screen	Handled contents
 <p>Setting up user</p> <p>Set number=64</p> <p>Help99</p> <p>↓</p>  <p>Adjusting the brightness of screen</p> <p>[10]</p> <p>F1 Dim</p> <p>F5 Bright</p>	<p>☞ If you input set number “ 64” , you can adjust the brightness of LCD screen of charger.</p> <p>☞ Choose the brightness of screen, push OK button.</p> <p>F1: Dim</p> <p>F5: Bright</p>

5.17 Choosing used language

Screen	Handled contents
 <p>Setting up user</p> <p>Set number=65</p> <p>Help99</p> <p>↓</p>  <p>Choosing used language</p> <p>F1 Ecuadorian</p> <p>F2 Korean</p> <p>F3 English</p>	<p>– If you input set number “ 65” , the screen choosing used language is shown.</p> <p>– F1 : Displaying LCD font in Ecuadorian</p> <p>– F2 : Displaying LCD font in Korean</p> <p>– F3 : Displaying LCD font in English</p>

6. Measure plan for potential troubles

6.1 Handling transactions data not transmitted when terminal fails

1) How to use USB

If you back up all data of failed charger using USB and transplant them into changed charger, you can transmit transactions data not transmitted into charge server.

2) When memory is normal

If you change charger and equip the memory board of failed charger into changed charger, you can transmit transactions data not transmitted into charge server.

3) In case that memory is damaged

You input transactions details into charge server collecting stored receipts.

4) When main memory is damaged, you can recover it from backup memory and transmit backup transactions data by date.

6.2 In the case that SAM(electric wallet) is damaged

1) If A/S personnel hear the fact that SAM is damaged, he visits to a charging place with a new SAM and transmits transactions details into charge server with highest priority. He prints out sales total table (detailed total) if necessary.

2) A/S personnel collects damaged SAM, inserts a new SAM into charger, and installs charger.

After charging SAM is completed, he verifies balance.

6.3 When a receipt is not automatically printed out

In case that a receipt is jammed or damaged, charger prints out again by the function of reprinting out a receipt

7. User' s Information

Cautions

Modifications not expressly approved by the party responsible for compliance could void the user' s authority to operate the equipment.

FCC compliance Information

This device complies with part 15 of FCC Rules. Operation is subject to the following two conditions: 1. This device may not cause harmful interference, and 2. This device must accept any interference received. Including interference that may cause undesired operation.

Information to User

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.