





**Operator Manual** 

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# **NH-1800CE Operator Manual**



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# **Revision Record**

Date	Page	Version	Description of Change
November 2007	All	1.0	New Publication
January 2008	Chapter 2,5,6,7	1.1	<ul> <li>Modifying pictures of the Chapter 5,6,7</li> <li>(5-2, 12, 13, 15, and 6-2, 50, 86, 87, and 7-48, 49, 52, 54)</li> <li>Updating "Description of Precaution Symbols" in Chapter2.</li> </ul>
April 2008	Chapter 6	1.2	- Updating "Error Code Table" in Chapter 6. (Addition of error code : 2000500, D00C100, D00C200, D410000, D410100)
July 2008	Chapter 6, 7	1.3	<ul> <li>Updating screen and description for each menu and its sub menus in Chapter 6.</li> <li>Updating error codes in Chapter 7.</li> </ul>
March 2009	Chapter 7	1.4	- Updating error codes in Chapter 7.
May 2009	Chapter 4, 5, 6	1.5	<ul> <li>Changing this manual formation.</li> <li>(Adding Chapter 4 and 7 so Chapter 0~7 → Chapter 0~6.)</li> <li>Updating screen and description for each menu and its sub menus in Chapter 5.</li> <li>Updating error codes in Chapter 6.</li> </ul>
September 2009	Chapter 5,6	1.6	<ul> <li>Updating chapter 5.</li> <li>Modifying specification of the receipt paper in chapter</li> <li>6.</li> </ul>
September 2009	Chapter 6	1.7	- Updating chapter 6. (Adding transaction flow and advertisement image update guide)
November 2009	Chapter 2	1.8	- Updating chapter 2.
February 2010	Chapter3,4,6	1.9	<ol> <li>Modifying image in 3-3, 3-4, 4-3, 4-15 pages.</li> <li>Modifying temperature specification in 3-9 page.</li> </ol>



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# **Chapter 1. Introduction**



## 1. Introduction

## 1.1 About the NH-1800CE

The NH-1800CE is designed to meet the everyday demands of immediate cash needs for individuals with a compact size to fit in virtually any place. This Automated Teller Machine (ATM) is connected to a network processor to verify accounts and any other inquires through the insertion of a customer's card. The NH-1800CE is easy to use, easy to service and is able to support customer's needs.

## 1.2 Features

#### H/W Features

- Electronic combination Lock
- Mechanical, Combo, Cencon lock Options
- 8 inch wide TFT LCD
- 800 × 600 Resolution of back-lit LCD
- Support LAN (TCP/IP) communication (Dial up modem optional)
- 2,000 new bills capacity for one cassette
  - $\Rightarrow$  Support up to 6,000 new bills for three cassettes. (Optional)
- DIP type magnetic card reader / Support IC card (EMV Level-1 Ready)
- Thermal line receipt printer Semi-Automatic paper load
- Modular design for easy maintenance
- UL 291 Business hour listed safe compliance

#### **Functional Features**

- Electronic journal with up to 2,000 transactions of capacity , up/down loading supported
- Supports English, Spanish, French, Korean and Japanese
- Detailed average history report feature
- Quick setup feature
- Advertisement feature for store promotion
- Error code description for easy to service



## 1.3 What is in this manual

This NH-1800CE Automated Teller Machine Manual contains all information needed for normal operational use.

This manual contains Unit Specifications, ATM Opening & Closing Procedures, Operator Functions, Customer Transactions, Error Recovery and etc.

Some of the information in this manual may differ according to the network processor to be connected.



# **Chapter 2. Precautions for Safety**



## 2. Precautions for Safety

### 2.1 Overview

#### **Common Precaution for Safety**



Precautions outlined this manual provide information on safe and proper handling of the product. Non-compliance of the precautions may result in injury or damage to the product.

This precaution symbol with sample term tells you safety warnings during equipment handlings.

#### Please read the following instructions before operating equipment.

- Operate equipment in the order outlined in this manual.
- Follow precautions indicated in this manual, as well as the equipment itself.
   Failure to properly address these precautions may lead to injury or damage to the product.
- Avoid operations not addressed in this manual.
- If you cannot remedy system problems using the methods outlined in this manual, please refer to contact information listed in the manual.
- Any change or modifications in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
- 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.



## 2.2 Description of Precaution Symbols

Symbol	Description
	Electrical Shock
	• Do not remove cover. Only a maintenance engineer is allowed to open the
4	cover.
	Do not touch. You may receive electric shock.
	<ul> <li>Make sure to turn off the power when servicing the equipment.</li> </ul>
	High Temperature
	<ul> <li>Do not touch the equipment when it is running.</li> </ul>
	<ul> <li>The equipment can get extremely hot and may cause a burn.</li> </ul>
	<ul> <li>Make sure to close the cover before running the equipment.</li> </ul>
	Be Careful when Moving
	• The equipment is heavy. Make sure at least 2 people to lift or move the
	equipment.
	• Do not attempt to move the equipment alone. You may be injured by dropping
	the heavy equipment.
	Fire Hazard
	• Place the equipment in an area away from any combustible materials.
	• The equipment may catch on fire from overheating or short circuit of the power
	supply unit.
	Disassembly
	• Do not disassemble or modify the equipment unless you are a certified
	engineer.
	Contact the service center for maintenance, adjustments and repairs.
	Improper disassembly may cause fire or electrical shock.
	Fall down
	• Do not place the equipment where the floor cannot sustain the weight of the
	equipment, or on slanted or unstable surface.
	Equipment may fall down and cause injury or damage.

Symbol	Description
	Unplug the Equipment
	• Stop using the equipment immediately if it smokes, emits an unusual smell,
	makes abnormal sounds, or if liquids or other foreign materials enter the
	equipment.
	• If the above-mentioned abnormalities occur, immediately turn off the power,
	unplug the equipment and contact the service center.
	• If you ignore these symptoms, the equipment may catch on fire or cause
	electric shock.

#### CAUTION!!

- 1. TO REDUCE THE RISK OF FIRE, USE ONLY No. 26 AWG OR LARGER TELECOMMUNICATION LINE CORD
- 2. RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSED OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS
- 3. FOR PLUGGABLE EQUIPMENT, THE SOCKET-OUTLET SHALL BE INSTALLED NEAR THE EQUIPMENT AN SHALL BE EASILY ACCESSIBLE
- 4. THE EQUIPMENT IS TO BE SECURED TO THE BUILDING STRUCTURE BEFORE OPERATION
- 5. THIS EQUIPMENT SHALL NOT BE SET UP TO MAKE AUTOMATIC CALLS TO THE TELECOM '111' EMERGENCY SERVICE.
- 6. THIS EQUIPMENT IS NOT INTENDED TO BE CONNECTED TO A LINE IN PARALLEL WITH OTHER TERMINAL EQUIPMENT.
- 7. THIS EQUIPMENT SHOULD NOT BE USED UNDER ANY CIRCUMSTANCES WHICH MAY CONSTITUTE A NUISANCE TO OTHER TELECOM CUSTOMERS.

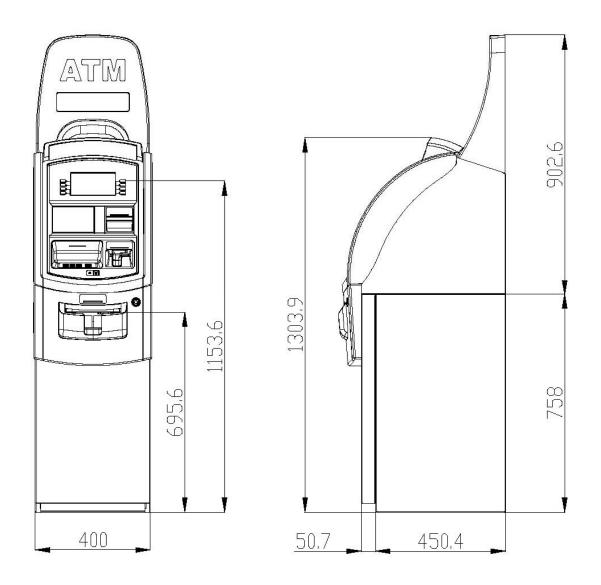


# **Chapter 3. Hardware Specifications**



# 3. Hardware Specifications

## 3.1 Dimensions



Width x Length x Height : 410 x 580 x 1304 (mm)

Fig. 3.1 NH-1800CE Dimension



## 3.2 Component Locations



Fig. 3.2 Component Location



## 3.3 LCD & Customer Keypad



#### Fig 3.3 LCD & Customer Keypad

### <u>LCD</u>

- Screen Size : 8.0 "
- Wide TFT Color
- Resolution : 800 × 600 pixels

#### <u>Keypad</u>

- 10 Alphanumeric , , , CANCEL, CLEAR, ENTER, BLANK Keypads
- 8 Function Keys
- Each Keypads has integral raised Braille symbols



## 3.4 Cash Dispenser Unit





1-Casstte Cash Dispenser

3-Cassette Cash Dispnesr

Fig. 3.4 Cash Dispensing Unit

### Cash Dispensing Unit

- Manual shutter (Tray type)
- Dispensing speed: 4 notes/second
- Support 1 cassette / up to 3 cassettes (optional)
- Capacity of 2,000 notes (Based on new bills)
- Capacity of 6,000 (Based on new bills)
- Reject bin with capacity of 200 notes
- Method of reject: note by note rejection
- Low level cassette detection
- Two notes detection function
- Supporting New Zealand Dollar and various currencies



## 3.5 Receipt Printer



Fig. 3.6 Receipt Printer

#### **Receipt Printer**

- 3" Thermal line printer with cutter
- 100mm/sec Printing Speed
- Semi-Automatic roll paper setting
- Support graphics / Bar Code printing
- See Appendix B : RECEIPT PAPER SEPECIFICATIONS



## 3.6 Magnetic Card Reader



Fig. 3.7 Magnetic Card Reader

### Magnetic Card Reader

- Dip type Card Reader (ISO Track 1 & 2 Read)
- IC CARD Supporting / EMV Ready
- Readable ejection speed : 6 inches ~ 39.3 inches/second
- MTBF : 1 million passes
- See Appendix D : MAGNETIC CARD SPECIFICATIONS

MTBF : Mean Time Between Failures



## 3.7 Main Control Board



Fig. 3.8 Main Control Board

- CPU : X-Scale PXA270 520MHz
- Memory : SDRAM (64MB), Flash Memory (64 MB) , NV-RAM : 512 KB
- Operating system : Windows CE
- Serial ports : 7 Ports
- Host Communication : LAN (TCP/IP)
- USB Ports : 2 Ports



## 3.8 Operating Environment

#### **Power Requirements**

100 ~240 Vac ±10% 3.2A 50/60Hz , 100 Watt

#### **Power Connections**

The NH-1800CE ATM must be connected to a dedicated power circuit. This circuit must consist of **LINE**, **NEUTRAL** and **GROUND** leads connected directly to the power circuit breaker panel. This circuit cannot be shared with any other equipment.

#### Temperature

- In storage : 14°F 140°F (-10°C ~ 60°C, 15°C/H)
- While operating : 41°F 104°F (5°C ~ 40°C, 10°C/H)

#### <u>Humidity</u>

- In storage : 10% < RH < 90%, Non-Condensed
- While operating : 25% < RH < 85%, Non-Condensed



# **Chapter 4. Operating Instructions**



## 4. Operating Instructions

## 4.1 Opening and Closing the Door

#### 4.1.1 How to open the electronic lock



1) Insert the key into the lock and turn it clockwise to open the front bezel.



 2) The default combination for Electronic Lock is 1-2-3-4-5-6. Enter this sequence on the Electronic Lock keypad.



Turn the Vault Door handle counterclockwise.
 The Vault Door will open.



## 4.1.2 Opening and Closing the Front Panel



1) Insert the Front Panel key and turn it clockwise.



2) Please pull the Front Panel outward.

3) Take the reverse order of above description to close the Front panel.



## A. Optional : Dial Lock

## A.1 Opening and Closing the Security Cover and Door



1) Turn the Security Cover key clockwise to open the Security Cover.

 To unlock the Combination Lock, please refer to A.2 and A.3.



 Turn the Security Door Handle counterclockwise, then pull the Security Door to open it.

4) Take the reverse order of above description to close the Security cover and door.

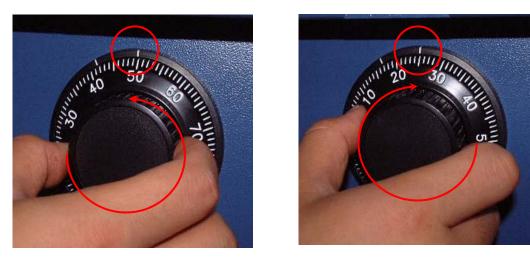


#### NH-1800CE

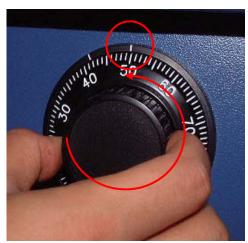
### A.2 How to open the mechanical combination lock

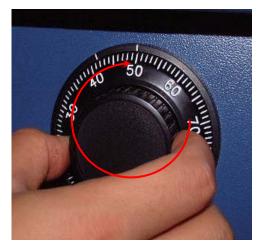
Make sure that this lock would be set 50-25-50 as factory default setting.

- 1) Turn to the counterclockwise for more than four times and set to "50."
- 2) Turn to the clockwise and stop at "25" at the third times.



- 3) Turn to the counterclockwise and stop at "50" at the second times.
- 4) Turn to the clockwise until the dial does not move any more.





Note: The center scale mark is used to open the safe unit

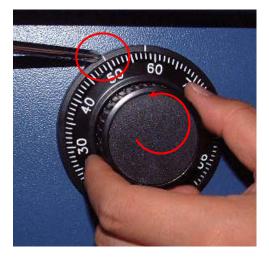
5) The safe door will open when turning the handle to counterclockwise.



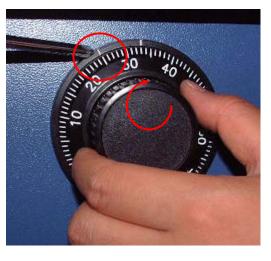
#### A.3 How to set the new password

For example, let's assume that you would like to set the following number (10-50-70)

- 1) Open the safe door as described in the above.
- 2) To close the mechanical lock, turn the handle to clockwise with the door opening
- 3) Turn to the counterclockwise for more than four times and set to "50" at left scale indicator as shown in the Fig.4.1.
- 4) Turn to the clockwise and stop at "25" at the third time as shown in the Fig.4.2.
- 5) Turn to the counterclockwise and stop at "50" at the second times as shown in the Fig.4.3.









change the password.

Note: The left scale mark is used to





6) Push the change bar completely until it is held by the dial change home (Fig.4. 4) inside the safe door and turn to the clockwise by 90 degrees (Fig.4.5).



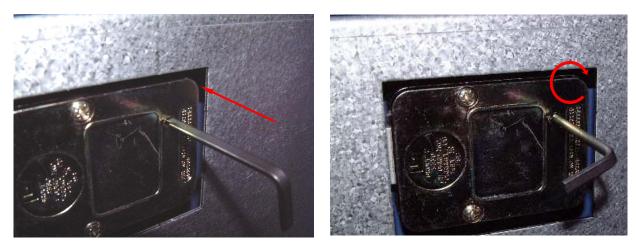


Fig.4.4

Fig.4.5

- 7) Turn to the counterclockwise more than four times and position at left scale indicator to "10" (target number to change).
- 8) Turn to the clockwise for three times and position the scale to "50" (target number to change).
- 9) Turn to the counterclockwise for two times and position the scale to "70" (target number to change).

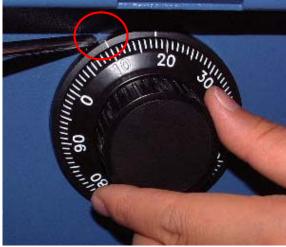


Fig.4.6

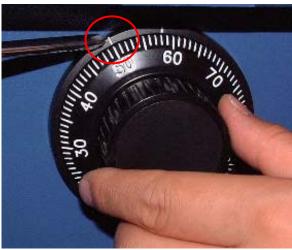


Fig.4.7



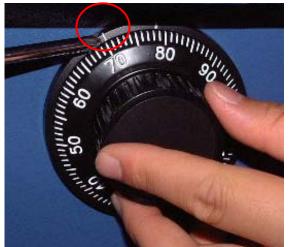


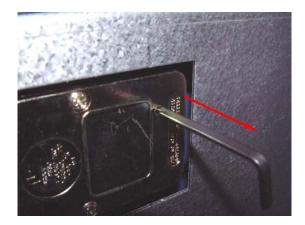
Fig.4.8

Note: Do not use number 25 – 35 as the last password number.

10) When password setting is completed, turn the change bar counterclockwise and remove it from the safe as shown in the Fig.4.9.









- 11) When password setting is completed, try to turn the dial more than a couple of times while the door is open to see if the door is opened or not. (Make sure to run the open/close test for at least two or three times.)
- 12) When all setting is completed, inform the password to the person in charge while paying attention to password disclosure or lost.

Note: Special attention must be paid and lost dial number cannot be restored.



## 4.2 Replenishing the Cash Cassette



 With one hand holding the cassette handle and the other hand supporting the cash cassette from bottom, pull it up and out carefully.



2) Place the cash cassette on a flat level platform and turn the cassette key clockwise to unlock the cassette cover. Then lift the cassette cover.



 Pull the cash plate back until it is locked against the cash plate latch.







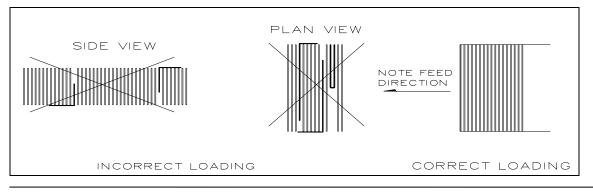
4) Replenish the cassette (Take note as below)

5) Unlock the cash plate by pulling it again and move it smoothly.

[Precaution!] Be careful not to hurt your hand when cash plate is released.

#### NOTE :

- 1. Fan the notes so that the notes are not sticking together.
- 2. Remove all notes with holes or notes that are torn.
- 3. Unfold the folded notes.
- 4. Place the notes correctly.







 Close the cassette cover and turn the cassette key counter clock-wise until it is locked. Remove the key when it is locked.



<Replenishing the cash cassette>

7) With one hand holding the cassette handle and the other hand supporting the cassette from the bottom, place the cassette carefully on the set guide of the CDU and push it in until it is locked in place.



## 4.3 Emptying the Reject Bin

### Emptying Reject box in Cash Dispenser





1) Insert the reject box key, turn it clockwise.

2) Open the lid of reject box.



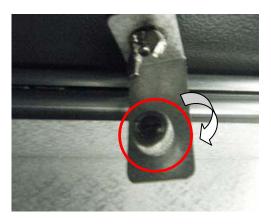
<Emptying the reject box>

3) Take bills in reject box and turn the key counter clockwise to close the box lid.



## 4.4 How to Clear Jam

## Cash Dispenser

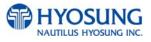


 Turn the screw which is located under CDU body to have the cash dispenser unit not to move, clockwise as pictured left.

- 2) Pull the rail of CDU outward while pressing the green button on the CDU.



3) Lift up the upper cover of CDU.





< Removing note jam in cash dispenser>

4) Turn the pulley located in left upper in order to move jammed note into a well removed position.

5) Take out the jammed note carefully.

 Remove the cash cassettes to check whether there is any jammed note inside of CDU body. If so, remove the jammed note from it.



## 4.5 Loading the Receipt Paper

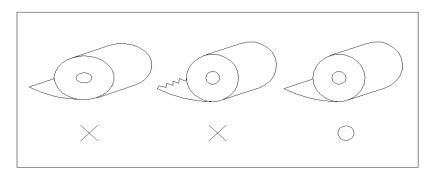


 Open the Front Panel with key and pull this outward completely with hands. (Please see the Chapter 4.1.2)

- 2) Prepare the new paper roll. Please see the NOTE described below
- Remove the green paper holder by carefully pulling it off and add the receipt paper into the spindle. And then insert the green paper holder tightly again to fix it.

#### NOTE:

- 1. Make sure the roll is in its proper roll form. (A deformed roll may cause jamming problems)
- 2. When replacing the new roll, make sure the end of the roll paper has a clean cut. (See the below figure.)







4) The shiny side of the paper should be faced up to be printed properly and the metallic tension guide should be surrounded with paper to reduce the tension during feeding



 Insert the leading edge of paper into the loading guide of the receipt printer slowly. When the machine is initialized, the paper is going to start feeding

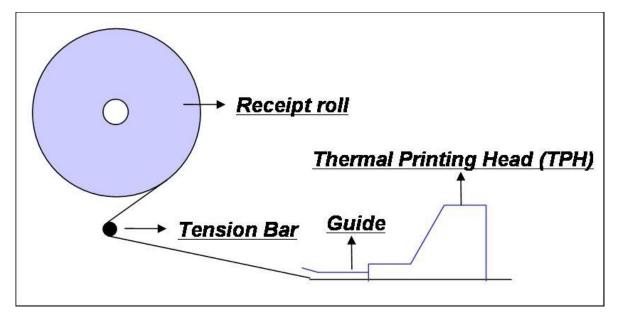


6) If the paper does not feed at all during initializing, make sure that paper has a CLEAN CUT at the end and the green lever behind the transport path is on its right place (It must not be lifted up).

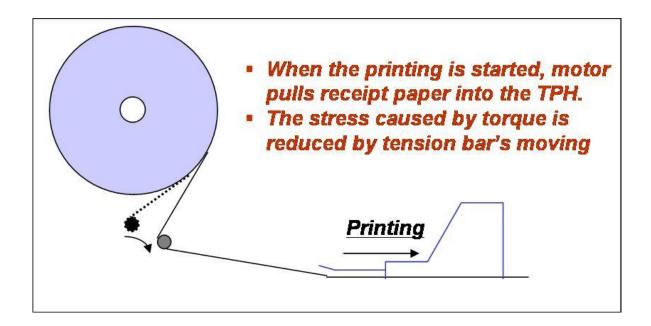


 When finished loading paper, close the Front Panel and remove the key.





### NOTE: THE BASIC MECHANISM OF RECEIPT PRINTER





# 4.6 How to Clear a Receipt Jam



 Open the Front Panel with key and pull this outward completely with hands. To remove a jammed paper inside transport path, press the green lever down to release the lower roller assembly.



 To take out a jammed paper in front of transport path, lift up the transparent window guide and remove the jamming receipt carefully.



3) After finishing clearing the receipt, load the receipt paper properly. Please make sure to return the green lever to its right place one more time before closing the Front Panel. When finished loading paper, close the Front Panel and remove the key.



# **5. Operator Function**



# 5.1 BASIC SYSTEM OPERATION

### 5.1.1 PASSWORD FOR ENTERING SUPERVISOR MODE



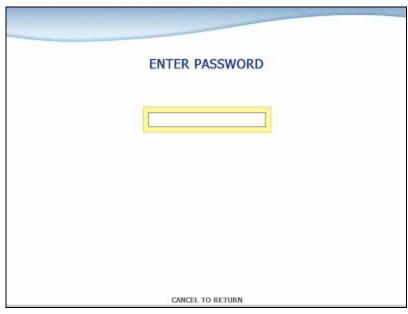
- Location of Function Key on ATM –

To enter Supervisor mode press the ENTER, CLEAR, CANCEL, 1, 2 and 3 keys in order. The default password is "555555"(6 digits). The default password is changeable in Supervisor mode. After entering the correct password of 6 digits, press <Enter> key in order to enter Supervisor main menu. Pressing <Clear> key erases the entered number and pressing **CANCEL** key goes to inservice-mode.

Depending on authority, there are three kinds of default password like below table.

Authority	Default Password
OPERATOR	111111 (6 digits)
SERVICE	222222 (6 digits)
MASTER	555555 (6 digits)





If the correct password is entered, the OPERATOR FUCNTION menu will be displayed.

Please make sure that default password should be changed to different password for your security as soon as this machine is installed at field site.

<ul> <li>Authorities</li> </ul>	for	each	Mode

No			Working Managem	ent Function			Au	CE	rity
	Main	Sub1	Sub2	Sub3	Sub4	Sub5	м	s	0
			1ST CST	-	-		0	0	0
			2ND CST	-	-		0	0	0
		ADD CASH	3RD CST	-	-		0	0	0
			4TH CST	-	-		0	0	0
1	SETTLEMENT		APPLY	-	-	-	0	0	0
		DAY TOTAL	-	-	-		0	0	0
		TRIAL DAY TOTAL	-	-	-		0	0	0
		CASSETTE TOTAL	-	-	-		0	0	0
		TRIAL CASSETTE							
		TOTAL	-	-	-		0	0	0
2	JOURNAL	CLEAR JOURNAL	_	_	-		0	0	0
		CLEAR TRANS.							
		SEQUENCE NO.	-	-	-		0	0	0



NH	-1	8	00	C	Е
	_	U	00		

No			Working Managem	ent Function			Aı	CE	
	Main	Sub1	Sub2	Sub3	Sub4	Sub5	м	s	0
			PREV	-	-		0	0	0
			NEXT	-	-		0	0	0
			PREV 50	-	-		0	0	0
			NEXT 50	-	-		0	0	0
		VIEW JOURNAL	MOVE START	_	-		0	0	0
			MOVE LAST	-	-		0	0	0
			PRINT THIS	-	-		0	0	0
			SEARCH						
			JOURNAL	-	-		0	0	0
		PRINT JOURNAL	-		-		0	0	0
		LAST X PRINT	_	-	-		0	0	0
			PREV		-		0	0	0
			NEXT		-		0	0	0
			PREV 10		-		0	0	0
			NEXT 10		-		0	0	0
		ERROR CODE	MOVE FIRST	-	-		0	0	0
		CODE	MOVE LAST	-	-		0	0	0
			PRINT THIS	-	-		0	0	0
			SEARCH						
3	REPORT		ERROR CODE	-	-		0	0	0
		SW VERSION	-	-	-		0	0	0
		PRINT ALL SETUP	-	-	-		0	0	0
			PRINT	-	-		0	0	0
		ERROR	CLEAR	-	-		0	0	0
		SUMMARY	PREV	-	-		0	0	0
			NEXT	-	-		0	0	0
		REJECT	PRINT	-	-		0	0	0
		ANALYSIS	CLEAR	-	-		0	0	0
4	DIAGNOSTICS	INITIALIZE	-	-	-		0	0	х
		RECEIPT					_	_	v
		PRINTER	-	-	-		0	0	Х



No			Working Managem	ent Function			Δι	CE	
	Main	Sub1	Sub2	Sub3	Sub4	Sub5	м	s	0
		CASH DISPENSER	_		-		0	0	x
		MODEM		_	-		0	0	х
		CARD SCAN	-	-	-		0	0	x
				CDU SENSOR	-		0	0	x
			SENSOR	SPR SENSOR	-	-	0	0	x
				ALL FLICKER	-	-	0	0	x
		AUXILIARY UNIT		EPP FLICKER	-	-	0	0	x
			FLICKER	CDU FLICKER	-	-	0	0	х
				SPR FLICKER	-	-	0	0	х
				MCU FLICKER	-	-	0	0	х
		AGING	-	-	-		0	0	х
5	CUSTOMER		WELCOM						
	SETUP		MESSAGE	-	-		0	0	0
			RECEIPT HEADER	-	-		0	0	0
		CHANGE	RECEIPT TAIL	-	-		0	0	0
		MESSAGE	RECEIPT						
			ADDRESS &				0		0
			PHONE	-	-		0	0	0
			NUMBER						
		BIN LIST	EXTENDED BIN	PREV	-		0	0	х
			LIST	NEXT	-		0	0	х
			ADD	-	-		0	0	х
			EDIT	-	-		0	0	х
			DELETE	-	-		0	0	х
			DELETE ALL	-	-		0	0	х
			ALLOW ONLY						
			LISTED BIN	-	-	-	0	0	х
			EN/DISABLE				_		
			VIEW BIN LIST	PREV PAGE	-	-	0	0	х
				NEXT PAGE	-	-	0	0	х
				PREV 50	-	-	0	0	х



			Working Managem	ont Eurotion				CE	
No							Αι	ithoi	rity
	Main	Sub1	Sub2	Sub3	Sub4	Sub5	М	s	0
				NEXT 50	-	-	0	0	х
				ADD NEW	BIN		0	0	х
				EDIT	PROPERTIES	CONFIRM BIN	0	0	х
				DELETE	-	-	0	0	х
				SEARCH	SEARCH BIN	-	0	0	х
			PRINT BIN LIST				0	0	х
			DELETE ALL BIN						
			LIST				0	0	х
			MOD 10 CHECK	EN/DISABLE	-		0	0	х
				EN/DISABLE	-		0	0	х
			BALANCE AT	CONTINUE					~
			START	EN/DISABLE	-		0	0	х
				CREDIT CARD					X
			ACCOUNTS	EN/DISABLE	-		0	0	Х
			SELECT RECEIPT	EN/DIABLE	-		0	0	х
		OPTIONAL		EN/DISABLE	-		0	0	х
		FUNCTION		AFTER CARD	-		0	0	х
			PRE-DIALING	AFTER PIN	-		0	0	х
				AFTER ACCOUNT	-		0	0	х
				CERTIFICATION	-		0	0	х
				EN/DISABLE	-		0	0	х
			CHECK CASHING	MESSAGE TYPE	-		0	0	х
				PIN OPTION					~
				EN/DISABLE	-		0	0	х
		SURCHARGE	EN/DISABLE	-	-		0	0	х
		MODE	SURCHARGE						
			OWNER	-	-		0	0	Х
			AMOUNT	-	-		0	0	х
			SURCHARGE	EN/DISABLE	-		0	0	х
			PERCENT	PERCENTAGE	-		0	0	x



			Working Managar	nont Eurotion				CE	
No		1	Working Manager	nent Function			Αι	Itho	rity
	Main	Sub1	Sub2	Sub3	Sub4	Sub5	м	s	ο
				WARNING					~
				MANNER	-		0	0	Х
				LOCATION	-		0	0	х
		ADVERTISEMENT	TIMER	_	-		0	0	х
				SCREEN1					~
				EN/DIABLE	-		0	0	Х
				COUPON1					~
				EN/DISABLE	-		0	0	Х
			SCREEN 1	PREVIEW	-		0	0	х
				COUPON1 TEXT	-		0	0	х
				AWARD COUPON					
				ON BIN			0	0	х
				EN/DISABLE					
				SCREEN2					v
				EN/DIABLE	-		0	0	Х
				COUPON2					v
				EN/DISABLE	-		0	0	Х
			SCREEN 2	PREVIEW	-		0	0	х
				COUPON2 TEXT	-		0	0	х
				AWARD COUPON					
				ON BIN			0	0	х
				EN/DISABLE					
				SCREEN3	_		0		х
				EN/DIABLE	-		0	0	^
				COUPON3			0		х
				EN/DISABLE	-		0	0	^
		SCREEN 3	PREVIEW	-		0	0	х	
				COUPON3 TEXT	-		0	0	х
				AWARD COUPON					
				ON BIN			0	0	х
				EN/DISABLE					



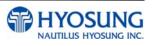
			Working Managen	nent Function				CE	
No							Αι	ithoi	rity
_	Main	Sub1	Sub2	Sub3	Sub4	Sub5	м	S	ο
				SCREEN4	_		0	0	x
				EN/DIABLE	-		0	0	^
				COUPON4					v
				EN/DISABLE	-		0	0	Х
			SCREEN 4	PREVIEW	-		0	0	х
				COUPON4 TEXT	-		0	0	х
				AWARD COUPON					
				ON BIN			0	0	х
				EN/DISABLE					
				SCREEN5					~
				EN/DIABLE	-		0	0	Х
				COUPON5					~
				EN/DISABLE	-		0	0	Х
			SCREEN 5	PREVIEW	-		0	0	х
				COUPON5 TEXT	-		0	0	х
				AWARD COUPON					
				ON BIN			0	0	х
				EN/DISABLE					
				SCREEN6					
				EN/DIABLE	-		0	0	Х
				COUPON6					
				EN/DISABLE	-		0	0	Х
			SCREEN 6	PREVIEW	-		0	0	х
				COUPON6 TEXT	-		0	0	х
				AWARD COUPON					
				ON BIN			0	0	х
				EN/DISABLE					
			STATUS						
		STANDARD3	MONITORING	-	-		0	х	х
		OPTION	EN/DISABLE						



Main         Sub1         Sub2         Sub3         Sub4         Sub5         M         S         O           COMMUNICATION         - <t< th=""><th>No</th><th></th><th></th><th>Working Managem</th><th>ent Function</th><th></th><th></th><th>_</th><th>CE</th><th></th></t<>	No			Working Managem	ent Function			_	CE	
COMMUNICATION         -         -         -         0         X         X           COMMUNICATION         -         -         0         X         X           CRC EN/DISABLE         -         -         0         X         X           CRC EN/DISABLE         -         -         0         X         X           STANDARD1         TERMINAL         -         -         0         X         X           OPTION         REVERSALAT         -         -         0         X         X           NOS ERROR         -         -         -         0         X         X           SELECT         COMMUNICATION         TCP/IP         -         0         X         X           PROCESSOR         COMMUNICATION         TCP/IP         0         X         X           END/DABLE         DIALUP         -         0         X         X           END/CESSOR         COMMUNICATION         TCP/IP         0         X         X           NO EOT         -         0         X         X           NO ENQ         -         0         X         X           NO ENQ/EOT         -         0										
HEADER         -         -         0         X         X           COMMUNICATION ID         -         -         0         X         X           CRC EN/DISABLE         -         -         0         X         X           STANDARD1         TERMINAL STATUS         -         -         0         X         X           OPTION         REVERSAL AT HOST ERROR         -         -         -         0         X         X           SELECT PROCESSOR         COMMUNICATION         TCP/IP         -         0         X         X           EN/DISABLE         DIALUP         -         0         X         X           SELECT PROCESSOR         COMMUNICATION         TCP/IP         0         X         X           MO EOT         -         0         X         X           NO ENQ         -         0         X         X           NO ENQ         -         0         X         X           NO ENQ COT OPTION         NO ENQ         0         X         X           MOS ENQ/EOT         -         0         X         X           MOS ENQ/EOT         -         0         X         X      <	-	Main	Sub1		Sub3	Sub4	Sub5	м	S	0
COMMUNICATION ID         .					-	-		0	х	х
ID         -         -         -         0         X         X           CRC EN/DISABLE         -         -         0         X         X           STANDARD1         TERMINAL         STATUS         -         -         0         X         X           OPTION         EN/DISABLE         -         -         0         X         X           OPTION         REVERSAL AT         -         -         0         X         X           NOTION         REVERSAL AT         -         -         0         X         X           PROCESSOR         COMMUNICATION         TCP/IP         -         0         X         X           EOT OPTIONAL         -         0         X         X           NO EOT         -         0         X         X           NO ENQ         -         0         X         X           NO ENQ / EOT         0         X         X           NO ENQ / EOT         0         X         X           MESSAGE         STANDARD 1         -         0         X         X           MESSAGE         STANDARD 2         0         X         X           EPS<										
CRC EN/DISABLE         -         -         0         X         X           STANDARD1         TERMINAL         STATUS         -         -         0         X         X           OPTION         REVERSALAT         -         -         0         X         X           SELECT         PROCESSOR         COMMUNICATION         DIALUP         -         0         X         X           GENERAL         -         -         0         X         X         X           PROCESSOR         COMMUNICATION         DIALUP         -         0         X         X           SELECT         COMMUNICATION         TCP/IP         -         0         X         X           PROCESSOR         COMMUNICATION         TCP/IP         -         0         X         X           NO EOT         -         0         X         X           NO ENQ         -         0         X         X           NO ENQ EOT         -         0         X         X           NO ENQ EOT         -         0         X         X           MESSAGE         STANDARD 1         -         0         X         X           E					-	-		0	х	х
STANDARD1         TERMINAL STATUS         -         -         -         0         X         X           OPTION         REVERSALAT HOST ERROR ENDISABLE         REVERSALAT HOST ERROR         -         -         -         0         X         X           SELECT PROCESSOR         COMMUNICATION ENDISABLE         DIALUP         -         0         X         X           GENERAL         -         0         X         X           PROCESSOR         COMMUNICATION ENDICOPTIONAL         COMMUNICATION TCP/IP         0         X         X           GENERAL         -         0         X         X           NO EOT REQUIRED         -         0         X         X           NO ENQ REQUIRED         -         0         X         X           NO ENQ EOT REQUIRED         -         0         X         X           MESSAGE FORMAT         STANDARD 1         0         X         X           EPS         0         X         X           VISA FRAMED         0         X         X           STANDARD         0         X         X           EPS         0         X         X           STANDARD         0										
STANDARDI OPTION         STATUS ENDISABLE         -         -         -         0         X         X           NOTION         REVERSAL AT HOST ERROR         REVERSAL AT HOST ERROR         -         -         -         0         X         X           SELECT PROCESSOR         COMMUNICATION         DIALUP         -         0         X         X           GENERAL         -         0         X         X         X           NO EOT         -         0         X         X           NO EOT         -         0         X         X           NO ENQ         -         0         X         X           NO ENQ         -         0         X         X           NO ENQ         -         0         X         X           NO ENQ EOT         -         0         X         X           REQUIRED         -         0         X         X           MESSAGE         STANDARD 1         -         0         X         X           EPS         -         0         X         X           TCPIP TYPE         ACK         0         X         X					-	-		0	Х	X
STANDARD1 OPTION         EN/DISABLE         Image: Constraint of the sector of the sect										
OPTION         REVERSAL AT HOST ERROR EN/DISABLE         -         -         -         0         X         X           SELECT PROCESSOR         COMMUNICATION         DIALUP         -         .         0         X         X           GENERAL         -         .         0         X         X           PROCESSOR         COMMUNICATION         TCP/IP         .         .         X         X           GENERAL         .         .         .         X         X           FORMAT         .         .         .         .         X         X           NO EOT         .         .         .         .         .         .         X           NO ENQ         .         .         .         .         .         .         X           NO ENQ FOT         .         .         .         .         .         X         X           NO ENQ/EOT         .         .         .         .         .         .         X         X           MESSAGE         STANDARD 1         .         .         .         .         X         X           FORMAT         STANDARD 3         .         .					-	-	-	0	Х	Х
HOST ERROR EN/DISABLE         -         -         -         0         X         X           SELECT PROCESSOR         COMMUNICATION         DIALUP         -         0         X         X           GENERAL         -         0         X         X           FOROESSOR         GENERAL         -         0         X         X           GENERAL         -         0         X         X           NO EOT REQUIRED         -         0         X         X           NO ENQ REQUIRED         -         0         X         X           NO ENQ REQUIRED         -         0         X         X           NO ENQ REQUIRED         -         0         X         X           MESSAGE         STANDARD 1         -         0         X         X           MESSAGE         STANDARD 2         -         0         X         X           TCPIP TYPE         ACK CONTROLLED         0         X         X										
EN/DISABLE         DIALUP         -         -         ×         ×           PROCESSOR         COMMUNICATION         TCP/IP         -         0         X         X           PROCESSOR         COMMUNICATION         TCP/IP         -         0         X         X           GENERAL         -         0         X         X           EOT OPTIONAL         -         0         X         X           NO EOT         -         0         X         X           NO EOT         -         0         X         X           NO EOT         -         0         X         X           NO ENQ         -         0         X         X           NO ENQ/EOT         -         0         X         X           NO ENQ/EOT         -         0         X         X           MESSAGE         STANDARD 1         -         0         X         X           MESSAGE         STANDARD 2         -         0         X         X           TCPIP TYPE         ACK         -         0         X         X			OPTION							
SELECT PROCESSOR         COMMUNICATION         DIALUP         -         0         X         X           PROCESSOR         TCP/IP         -         0         X         X           GENERAL         -         0         X         X           EOT OPTIONAL         -         0         X         X           NO EOT         -         0         X         X           NO EOT         -         0         X         X           NO ENQ         -         0         X         X           NO ENQ/EOT OPTION         NO ENQ         0         X         X           NO ENQ/EOT         -         0         X         X           NO ENQ/EOT         -         0         X         X           REQUIRED         -         0         X         X           MESSAGE         STANDARD 1         -         0         X         X           FORMAT         STANDARD 2         -         0         X         X           TCPIP TYPE         ACK         -         0         X         X				HOST ERROR	-	-	-	0	х	х
PROCESSOR         COMMUNICATION         TCP/IP         -         .         X         X           GENERAL         -         .         X         X           EOT OPTIONAL         -         .         X         X           EOT OPTIONAL         -         .         X         X           NO EOT         -         .         X         X           NO ENQ         -         .         .         X           NO ENQ         -         .         .         X           NO ENQ         -         .         .         X           NO ENQ/EOT         -         .         .         X           NO ENQ/EOT         -         .         .         X           MESSAGE         STANDARD 1         .         .         X           MESSAGE         STANDARD 2         .         .         X           FORMAT         STANDARD 3         .         .         X         X           TCPIP TYPE         ACK         .         .         X         X				EN/DISABLE						
PROCESSOR       TCP/IP       -       0       X       X         GENERAL       -       0       X       X         EOT OPTIONAL       -       0       X       X         NO EOT       -       0       X       X         REQUIRED       -       0       X       X         NO ENQ       -       0       X       X         MESSAGE       STANDARD 1       -       0       X       X         MESSAGE       STANDARD 2       -       0       X       X         FORMAT       STANDARD 3       -       0       X       X         TCPIP TYPE       ACK       -       0       X       X			SELECT	COMMUNICATION	DIALUP	-		0	Х	Х
EOT OPTIONAL         -         .         X         X           NO EOT         -         .         .         X         X           REQUIRED         -         .         .         X         X           NO ENQ         -         .         .         X         X           NO ENQ FOT         -         .         .         X         X           NO ENQ FOT         -         .         .         X         X           MESSAGE         STANDARD 1         -         .         X         X           FORMAT         STANDARD 2         -         .         X         X           FORMAT         STANDARD 3         -         .         X         X           TCPIP TYPE         ACK         .         .         X         X           CONTROLLED         -         .         X         X			PROCESSOR		TCP/IP	-		0	Х	Х
NO EOT         - <td></td> <td></td> <td></td> <td></td> <td>GENERAL</td> <td>-</td> <td></td> <td>0</td> <td>Х</td> <td>Х</td>					GENERAL	-		0	Х	Х
REQUIRED         -         o         X         X           NO ENQ         -         -         o         X         X           NO ENQ         -         o         X         X           REQUIRED         -         o         X         X           NO ENQ/ EOT         -         o         X         X           NO ENQ/ EOT         -         o         X         X           MESSAGE         STANDARD 1         -         o         X         X           FORMAT         STANDARD 2         -         o         X         X           FORMAT         STANDARD 3         -         o         X         X           EPS         -         o         X         X           TCPIP TYPE         ACK         -         o         X         X					EOT OPTIONAL	-		0	х	Х
REQUIRED         REQUIRED         Image: Comparison of the co					NO EOT			0	v	$\mathbf{v}$
NO ENQ       - <td></td> <td></td> <td></td> <td></td> <td>REQUIRED</td> <td>-</td> <td></td> <td>0</td> <td>^</td> <td>^</td>					REQUIRED	-		0	^	^
REQUIRED       NO ENQ/ EOT       -				ENQ/EOT OF HON	NO ENQ				v	v
Image: Normal and Standard 1         -         0         X         X           MESSAGE         STANDARD 1         -         0         X         X           MESSAGE         STANDARD 2         -         0         X         X           FORMAT         STANDARD 3         -         0         X         X           FORMAT         STANDARD 3         -         0         X         X           EPS         -         0         X         X           TCPIP TYPE         ACK         -         0         X         X           CONTROLLED         -         0         X         X					REQUIRED	-		0	^	^
REQUIRED       Image: Standard 1       Image: Standard 2       Image: Stan					NO ENQ/ EOT				~	
MESSAGE FORMATSTANDARD 2-0XXFORMATSTANDARD 3-0XXEPS-0XXKSTANDARD-0XXTCPIP TYPEACK CONTROLLED-0XX					REQUIRED	-		0	Х	х
FORMAT       STANDARD 3       -       o       X       X         EPS       -       o       X       X         VISA FRAMED       -       o       X       X         STANDARD       -       o       X       X         TCPIP TYPE       ACK       -       o       X       X         CONTROLLED       o       o       X       X					STANDARD 1	-		0	х	х
EPS     -     o     X     X       VISA FRAMED     -     o     X     X       STANDARD     -     o     X     X       TCPIP TYPE     ACK     -     o     X     X       CONTROLLED     o     v     v     v				MESSAGE	STANDARD 2	-		0	х	х
VISA FRAMED       -       .       x       x         STANDARD       -       .       x       x         TCPIP TYPE       ACK       -       .       x       x         CONTROLLED       -       -       .       .       x       x				FORMAT	STANDARD 3	-		0	х	х
TCPIP TYPE     STANDARD     -     o     X     X       ACK     -     o     X     X       CONTROLLED     -     -     o     X     X					EPS	-		0	х	х
TCPIP TYPE     STANDARD     -     o     X     X       ACK     -     o     X     X       CONTROLLED     -     -     o     X     X						-		0		х
TCPIP TYPE ACK - 0 X X					-		0			
CONTROLLED - O X X			TCPIP TYPE							
						-		0	Х	х
SSLEN/DISABLE - O X X						_		0	х	х



No			Working Managem	ent Function				CE	
	Main	Sub1	Sub2	Sub3	Sub4	Sub5	M	itho S	
	man	Cubi	REVERSAL	0000		0000			
			RETRY COUNT	-	-		0	Х	Х
6	SYSTEM		YEAR	-	-		0	0	0
	SETUP		MONTH	_	-		0	0	0
			DAY	_	-		0	0	0
		DATE & TIME	HOUR	_	-		0	0	0
			MINUTE	-	-		0	0	0
			APPLY	-	-		0	0	0
		SPEAKER	UP	_	-		0	0	0
		VOLUME	DOWN	_	-		0	0	0
			IP ADDRESS		-		0	0	х
			SUBNET MASK	-	-		0	0	x
		TERMINAL IP	GATEWAY	-	-		0	0	х
		(TCP IP)	DNS	-	-		0	0	х
			DHCP						
			EN/DISABLE	-	-		0	0	Х
			DEFAULT						
			LANGUAGE	-	-		0	0	0
			ENGLISH						
		LANGUAGE	EN/DISABLE	-	-		0	0	0
		EN/DISABLE	SPANISH						
			EN/DISABLE	-	-		0	0	0
			FRENCH						
			EN/DISABLE	-	-		0	0	0
			OPERATOR						
			PASSWORD		-		0	0	0
		CHANGE	SERVICE				0	0	x
		PASSWORD	PASSWORD	-	-		0	0	
			MASTER	_	_		0	x	x
			PASSWORD	-	-		0	^	^



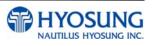
No			Working Managem	ent Function			CE		
NO							Αι	ithoi	rity
_	Main	Sub1	Sub2	Sub3	Sub4	Sub5	М	S	0
			HOST	_	-		0	0	x
		MODEM	INITIAL STRING				Ŭ	Ŭ	^
		PARAMETERS	RMS				0	0	х
		(DIAL UP)	INITIAL STRING	-	-		0	0	^
			MODEM TEST	-	-		0	0	х
				COUNTRY	-		0	0	х
				CDU TYPE	-		0	0	х
		DEVICE SETUP	CDU SETUP	CASSETTE					~
				VOLUME	-		0	0	Х
				EXECUTE	-		0	0	х
		SYSTEM	SOFTWARE						
		CONTROL	UPDATE	-	-		0	0	0
			REBOOT		-		0	0	0
			BACKUP ALL						
			JOURNAL TO USB	-	-		0	0	0
			BACKUP	FROM	-		0	0	0
			JOURNAL BY	ТО	-		0	0	0
			DATE TO USB	SEARCH	-		0	0	0
			BACKUP LOG TO						
			USB	-	-		0	0	0
			BACKUP NVRAM	_	-		0	0	0
			RESTORE NVRAM	-	-		0	0	0
			CLEAR NVRAM	SELECT	1800CE		0	х	х
				MACHINE TYPE	5000CE		0	х	x
					5300CE		0	х	х
						CLEAR ALL	0	х	х
						CLEAR			
						SETTING	0	Х	х
						CLEAR			
						JOURNAL	0	Х	х



	Working Management Function							CE	
No							Au	thor	rity
	Main	Sub1	Sub2	Sub3	Sub4	Sub5	м	s	ο
						CLEAR TRANS SEQUENCE NUMBER	0	x	x
						CLEAR LOG	0	х	х
7	HOST SETUP		KEY MODE	-	-		0	х	х
			KEY INDEX	-	-		0	х	х
			CHECK KEY	-	-		0	х	х
				MASTER KEY PART A	-		0	х	x
		KEY		MASTER KEY PART B	-		0	х	x
		MANAGEMENT	EDIT KEY	UNIQUE KEY PART A	-		0	x	x
			-	UNIQUE KEY PART B	-		0	х	x
				MAC KEY PART A	-		0	х	х
				MAC KEY PART A	-		0	х	х
			SERIAL NUMBER	-	-		0	х	х
		TELEPHONE	HOST PHONE 1	-	-		0	х	х
		NUMBER	HOST PHONE 2	_	-		0	х	х
			URL EN/DISABLE	-	-		0	х	х
			HOST ADDRESS 1	-	-		0	Х	х
		HOST ADDRESS	PORT NUMBER 1	-	-		0	х	х
			HOST ADDRESS 2	-	-		0	х	х
			PORT NUMBER 2	-	-		0	Х	х
		TERMINAL ID	-	-	-		0	Х	х
		HEALTH CHECK	EN/DISABLE	-	-		0	0	х
		MESSAGE	SEND INTERVAL	-	-		0	0	х
		REMOTE	RMS EN/DISABLE	EN/DISABLE	-		0	0	х
		MONITOR		RMS RING COUNT	-		0	0	Х



			Montrine Monogon	ant Function				CE	
No			Working Managem				Autho		
	Main	Sub1	Sub2	Sub3	Sub4	Sub5	м	s	ο
				ATM LISTENING					X
				PORT	-		0	0	Х
				EN/DISABLE-	-		0	0	x
				URL En/Disable	-		0	0	х
				PHONE NUMBER1	-		0	0	х
			RMS Status Send	PHONE NUMBER2	-		0	0	х
			En/Disable	INTERVAL	-		0	0	х
				RMS ADDRESS	-	-	0	0	х
				RMS LISTENING					v
				PORT	-	-	0	0	Х
			RMS PASSWORD	-	-		0	0	х
		ROUTING ID	-	-	-		0	х	х
			EN/DISABLE	-	-		0	0	0
			TOTAL TYPE	-	-		0	0	0
		AUTO DAY TOTAL	HOUR	-	-		0	0	0
			MINUTE	-	-		0	0	0
		DISPENSE LIMIT	-	-	-		0	0	х
			LB 0	-	-		0	0	х
			LB 1	-	-		0	0	х
			LB 2	-	-		0	0	х
		FAST CASH	RB 0	-	-		0	0	х
			RB 1	-	-		0	0	х
8	TRANSACTION		RB 2	-	-		0	0	х
	SETUP	LOW CURRENCY							
		CHECK	-	-	-		0	0	х
		EN/DISABLE							
			1ST CASSETTE	-	-		0	х	x
			2ND CASSETTE	-	-		0	х	x
		DENOMINATION	3RD CASSETTE	-	-		0	х	x
			4TH CASSETTE	-	-		0	х	x



### 5.1.2 When an Error Occurs

When you try to enter Supervisor Mode or go into **IN SERVICE MODE** from supervisor menu, the screen below will be displayed if there is any ERROR.

Press **DEVICE INITIALIZE** button, if the error is caused by a device so it can be cleared by initializing. Press **OPERATOR FUNCTION** button, if you have to set up any information to clear the error. And set up the information which is missed.

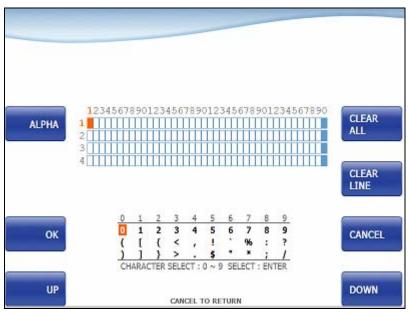


**NOTE:** If the machine goes out of service, he error code will not always appear on the screen. If you do not see an error code, enter operator function and go to reports. Look in the error summary for error codes.



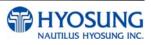
### 5.1.3 How to Use KeyPad

This section explains the basic operation of the KeyPad.



[Default KeyPad Character Table Screen]

	Shift Sta	atus		0	1	2	3	4	5	6	7	8	9
				0	1	2	3	4	5	6	7	8	9
	NUMBER		-	(	ſ	-	<	,	!	4	%	:	?
	-			)	1	}	>		\$	"	*	;	/
				+	Space	A	D	G	J	М	Р	Т	W
			UPPER	-	Q	В	Е	н	к	Ν	R	U	х
F1		F3		=	Z	С	F	Ι	L	0	S	V	Y
	ALPHA			+	Space	а	d	g	j	m	р	t	w
			LOWER	-	q	b	е	h	k	n	r	u	x
				=	z	С	f	i	I	0	S	v	у
				The character on the current cursor position on the screen wil be					wil be				
	TABLE		-	select	selected								



#### How to Enter the Character

A. The Keypad Character Table will appear on the bottom of the screen in all keypad input screens.

B. F1 key gives the option for ALPHA or NUMBER, Table mode. Default is NUMBER.

C. F3 key gives the option for Upper or Lowercase characters. It is valid only in the ALPHA mode.

Default is Uppercase.

D. The input of characters is limited to the space provided.

E. Key can be changed whenever you press it to choose proper character. For example, when key "1" is pressed once it is "SPACE", pressed twice it is "Q", pressed third time it is "Z" in case of the Alpha mode. When the desired character is selected, press ENTER.

F.  $\blacktriangleleft$ , keys move the cursor position in the ALPHA or NUMBER mode. In the TABLE mode  $\triangleleft$ , keys are used to select the character.

G. F2 key is used to clear the whole screen and returns the cursor to its initial position.

H. F4 key and CLEAR key in pinpad are used to clear the current line.

J. F5 key is used to save the current changes.

I. **F6** key and **CANCEL** key in pinpad are used to exit. (If you didn't press F5 key after changing, the changes will be ignored.)

J. F7 key is used to move the cursor position UP.

J. **F8** key is used to move the cursor position **DOWN**.



# 5.2 SUPERVISOR MENU

The following screen below is the main screen of Supervisor mode. Supervisor mode in this machine is largely composed of ATM Status and Function.

- A. ATM Status
- 1) Machine Kind
- 2) Country Code
- 3) Program version
- 4) Serial Number
- 5) Line Type (Dial-up, TCP/IP)
- 6) Message Format
- 7) Terminal ID
- 8) The Media Status of 1st Cassette
- 9) The Media Status of 2nd Cassette
- 10) The Media Status of 3rd Cassette
- 11) The Media Status of 4th Cassette
- 12) 1st Cassette : Remaining notes(Denomination) e.g) if 1000 notes of \$20, 1000(\$20)
- 13) 2nd Cassette : Remaining notes(Denomination)
- 14) 3rd Cassette : Remaining notes(Denomination)
- 15) 4th Cassette : Remaining notes(Denomination)
- 17) Reject Box Status(Rejected Count)
- 18) Error Code
- 19) The Status of Receipt Printer(SPR)
- 20) Current Date and Time



- B. Functions
- F1) SETTLEMENT
- F2) CUSTOMER SETUP
- F3) JOURNAL
- F4) SYSTEM SETUP
- F5) REPORT
- F6) HOST SETUP
- F7) DIAGNOSTICS
- F8) TRANSACTION SETUP

In order to move to the in-service mode, press the **CANCEL** key in pinpad. In order to reset terminal error, press the **CLEAR** key in pinpad.

1800CE (USA) V01.0	00CE (USA) V01.03.10							
	TERMINAL ID : AAPAU001							
CST1(NORMAL)	CST2(MISSING)	CST3(LOW)	CST4	REJECT(OK)				
1047(\$10)	18(\$20)	20(\$50)	NOT AVAILABLE	2				
SETTLEME	Error of C during ini	] - [40036(00)] S 2, C313 sensor Tialization	SY	STOMER SETUP				
REPC				IST SETUP				
DIAGNOST		7/13/2009 16:3 CANCEL TO RETURN	SE	ANSACTION TUP				



### C. Field Values

CLASS	VALUE (eg.)	Remarks
MACHINE KIND	1800CE	
COUNTRY CODE	USA, Canada, Mexico, Australia, New	
	Zealand	
PROGRAM VERSION	V01.04.00	
LINE TYPE	TCP/IP	
	DIAL-UP	
MESSAGE FORMAT	STANDARD1	
	STANDARD2	
	STANDARD3	
	EPS	
TERMINAL ID	AAPAU001	
ERROR CODE	[00000(00)]	
	STATUS	
CST1(Remaining Notes)	BILLS COUNT - 1047(\$10)	
	N/A	
CST2(Remaining Notes)	BILLS COUNT - 18(\$20)	
	N/A	
CST3(Remaining Notes)	BILLS COUNT - 20(\$50)	
	N/A	
CST4(Remaining Notes)	N/A	Not Available
CST1(Media Status)	MISSING	
	NORMAL	
	LOW	
	EMPTY	
	FULL	
CST2(Media Status)	MISSING	
	NORMAL	
	LOW	
	EMPTY	
	FULL	

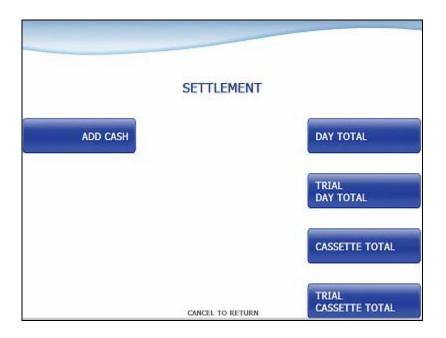


CST3(Media Status)	MISSING	
	NORMAL	
	LOW	
	EMPTY	
	FULL	
CST4(Media Status)	N/A	Not Available
REJECT	REJECT COUNT(CDU) – (0)	
SPR	ОК	
	NG	



## **5.3 SETTLEMENT**

This menu contains ADD CASH, DAY TOTAL, TRIAL DAY TOTAL, CASSETTE TOTAL and TRIAL CASSETTE TOTAL. Please press each button on this menu to go to next screen or to operate the related function. To go back to the previous screen, press the **CANCEL** key in pinpad.



- 1) ADD CASH: Go to the next screen
- 2) DAY TOTAL: Do settlement with host. After settlement, clear transaction information.
- 3) TRIAL DAY TOTAL: Just do settlement with host. (Not clear transaction info.)
- 4) CASSETTE TOTAL: Show note count and then clear note count.
- 5) TRIAL CASSETTE TOTAL: Just show note count. (Not clear note count.)

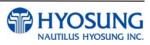


### 5.3.1 ADD CASH

By pressing button on this menu, you can select cassette to add note count. (Cassette numbers are designated from top to bottom). Input the note count you want to add and press the **ENTER** key in the pinpad. If you completed the all cassettes, you have to press APPLY button to effect the value changes.

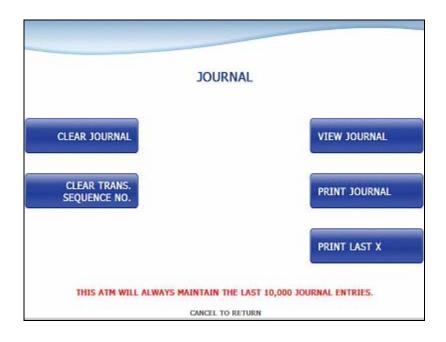
*Note*: The total note count you enter must not exceed the maximum note count. (Max. count : 2,000/CST)

		DD CAS			
MUST PRE	SS 'APPLY' BUT	TON TO EF	FECT THE VALUE	CHANGES	
1ST CST		DENOM.	BILL COUNT		
101 001	1ST CST	\$10	1047		
	2ND CST	\$20	18		
2ND CST	3RD CST	\$50	20		
	4TH CST	N/A	N/A		
2000 600 a 10					
3RD CST					
· · · · ·					



# 5.4 JOURNAL

This JOURNAL menu contains CLEAR JOURNAL, CLEAR TRANS. SEQUENCE NO., VIEW JOURNAL, PRINT JOURNAL, and PRINT LAST X sub menu.



1) CLEAR JOURNAL: The CLEAR JOURNAL function is used to delete all journal data

2) CLEAR TRANS. SEQUENCE NO.: This function will reset the journal sequence number to <0000>. This may be useful if you switch processing or switch Terminal ID numbers and want to keep new records.

3) PRINT JOURNAL: The PRINT JOURNAL function is used to print out all the journals which have not been printed from the last printed journal. If you want to stop printing, you may stop it by pressing **CANCEL** key.

4) VIEW JOURNAL: Go to the next screen

5) PRINT LAST X: Go to the next screen



### 5.4.1 VIEW JOURNAL

You can see the various kinds of journal data by using each field and button. The VIEW function is used to display the Journal data on the customer screen. The Journal record will be displayed on the screen.

	VIEW JOURNAL							
TODAY	07/11/2009	TOTAL COUNT	292					
	JC ( 07/11/2009 1:	DURNAL DATA 2149133 - J#10292 ]						
PREV	- INIK LOBIN MODE -	O OPERAIOR MODE * MAGIER	NEXT					
PREV 50			NEXT 50					
MOVE START			MOVE LAST					
PRINT THIS		CEL TO RETURN	SEARCH JOURNAL					

Use **PREV** or **NEXT** button to show just one data before or after, and **PREV 50** or **NEXT 50** button are for data before 50 or after 50 EA. If you use **MOVE FIRST** or **MOVE LAST** button, you can see first or last journal. Besides, you can check up journal data you would try to search by using **SEARCH JOURNAL** button and just print out the current journal by pressing **PRINT THIS** button.



#### 5.4.1.1 SEARCH JOURNAL

You can search a specific journal with a journal index and see it if the index is valid.

SEARCH JO	
CURRENT INDEX	292
CANCEL TO R	ETURN

#### 5.4.2 PRINT LAST X

The PRINT LAST X function is used to print out recent journal data. If you want to print recent journal data, enter the count of data you want on JOURNAL main screen and then press ENTER key. Then the data you request is printed.

If you want to stop printing, you may stop by pressing **CANCEL** key.

PRINT LAST X PLEASE INPUT COUNT FOR LAST X JOURNAL	
LAST X COUNT	
CANCEL TO RETURN	



### 5.5 REPORT

This report menu consists of 5 sub-menus. ERROR CODE, ERROR SUMMARY, SW VERSION, PRINT ALL SETUP and REJECT ANALYSIS. You can print out all information regarding each device as well as system value set up. If you want to go back the previous screen, press the **CANCEL** key.

	REPORT	
ERROR CODE		ERROR SUMMARY
S/W VERSION		
PRINT ALL SETUP		REJECT ANALYSIS
	CANCEL TO RETURN	



### 5.5.1 ERROR CODE

ERROR CODE offers detailed descriptions of error codes and way to deal with the errors on a working ATM machine.

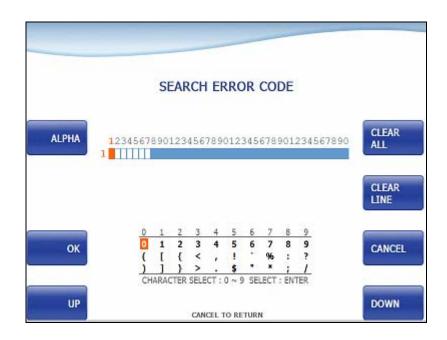
		-	
	ERRO	R CODE	
	ERROR CODE	F000E00	]
PREV	DESC RMS Phone Number is in RMS Enable	RIPTION not imported	NEXT
PREV 10	CORRECT Enter BMS phone num	IVE ACTION	NEXT 10
MOVE FIRST			MOVE LAST
PRINT THIS	CANCEL	TO RETURN	SEARCH ERROR CODE

PREV/NEXT buttons are to navigate previous and next error codes one by one and PREV 10/NEXT
10 are to do by 10 EA.. MOVE FIRST/MOVE LAST buttons are to go to the first error code and the last one. PRINT THIS button is for printing information about the error code displaying in the screen.
SEARCH ERROR CODE button is to search for a specific error code immediately.



#### 5.5.1.1 SEARCH ERROR CODE

You can search a specific error code if that exists. In order to use the function, please input the specific error code in the field and select **OK** button. If there is no result in database, "**INVALID ERROR CODE**" displays.





#### 5.5.2 SW VERSION

This menu shows each software version. Each versions will be displayed. (APPLICATION, CDU EP, CDU SP, SPR EP, SPR SP, MCU EP, MCU SP and etc.)

	AP		SP		EP
AP	V01.04.00	CDU	V 05.02.36	CDU	CDUA3QT010217
os	V01.01.10	SPR	V 05,00.23	SPR	SPR54
MWI	V06.03.00	MCU	V 05.00.06	MCU	V 01.00.00
RMS	V01.03.09	PIN	V 05.00.19	PIN	V03.02.01
		SIU	V 05.00.08	SIU	N/A



### 5.5.3 PRINT ALL SETUP List

### [ DIAL – UP]

NO	ITEM	DESCRIPTION	REMARKS
1	DATE	CURRENT DATE & TIME	
2	HOST PROCESSOR	HOST PROTOCOL TYPE	
3	NETWORK TYPE	DIAL-UP , TCP/IP	
4	ENQ/EOT OPTION	ENQ/EOT OPTION	
5	VERSION INFORMATION	AP / SP / EP VERSION	
6	HOST SETUP	TERMINAL ID	
		STANDARD 3 OPTION	
		ROUTING ID	
		HOST PHONE NUMBER	
		HEALTH CHECK OPTION	
		AUTO DAY TOTAL OPTION	
		RMS OPTION	
7	TRANSACTION SETUP	DISPENSE LIMIT	
		CURRENCY ID	
		EXCHANGE RATE (MEXICO)	
		DENOMINATION	
		FAST CASH	
		LOW CURRENCY CHECK	
8	CUSTOMER SETUP	WELCOME MESSAGE INFO	
		RECEIPT HEADER INFO	
		RECEIPT ADDRESS INFO	
		RECEIPT PHONE INFO	
		SURCHARGE OPTION	
		MOD10 MODE	
		BALANCE AT START OPTION	
		SELECT RECEIPT OPTION	
		REVERSAL RETRY COUNT	
		CHECK CASHING OPTION	
		BIN LIST	
		ADVERTISEMENT TIMER	
		ADVERTISEMENT #n MODE	
		COUPON #n MODE	

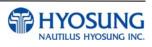


9	SYSTEM SETUP	CURRENT CASSETTE REJECT	
		CURRENT BILLS	
		SERIAL NUMBER	
		SPEAKER VOLUME	
		MODEM INITIAL STRING	
		LANGUAGE MODE	
10	OTHERS	KEY MODE	
		MASTER KEY INDEX	
		MASTER KEY LIST	



### [ T<u>CP / IP]</u>

NO	ITEM	DESCRIPTION	REMARKS
1	Date	CURRENT DATE & TIME	
2	HOST PROCESSOR	HOST PROTOCOL TYPE	
3	NETWORK TYPE	DIAL-UP , TCP/IP	
4	TCP/IP TYPE	TCP/IP TYPE	
5	SSL MODE	SSL OPTION	
6	VERSION INFORMATION	AP / SP / EP VERSION	
7	HOST SETUP	TERMINAL ID	
		STANDARD 3 OPTION	
		ROUTING ID	
		HOST ADDRESS INFO	
		HEALTH CHECK OPTION	
		AUTO DAY TOTAL OPTION	
		RMS OPTION	
8	TRANSACTION SETUP	DISPENSE LIMIT	
		CURRENCY ID	
		EXCHANGE RATE (MEXICO)	
		DENOMINATION	
		FAST CASH	
		LOW CURRENCY CHECK	
9	CUSTOMER SETUP	WELCOME MESSAGE INFO	
		RECEIPT HEADER INFO	
		RECEIPT ADDRESS INFO	
		RECEIPT PHONE INFO	
		SURCHARGE OPTION	
		MOD10 MODE	
		BALANCE AT START OPTION	
		SELECT RECEIPT OPTION	
		REVERSAL RETRY COUNT	
		CHECK CASHING OPTION	
		BIN LIST	
		ADVERTISEMENT TIMER	
		ADVERTISEMENT #n MODE	
		COUPON #n MODE	



10	SYSTEM SETUP	CURRENT CASSETTE REJECT	
		CURRENT BILLS	
		SERIAL NUMBER	
		SPEAKER VOLUME	
		ATM IP OPTION	
		LANGUAGE MODE	
11	OTHER	KEY MODE	
		MASTER KEY INDEX	
		MASTER KEY LIST	



# 5.5.4 ERROR SUMMARY

ERROR SUMMARY menu offers a statistics of error codes on an ATM machine. It lists the errors by the number of times they occurred. You can print these errors.

	E	RROR SUMM	ARY	
	START	DATE: 07/03/2009	18:39:10	
	NO	ERROR CODE	COUNT	
	11	2080300	3	
	12	4003900	3	
	13	0000000	3	
	14	400C600	2	
	15	400C100	2	
	16	F001600	2	
and the second second	17	9740000	2	-
PRINT	18	4000400	1	CLEAR
- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	19	9742100	1	
	20	4000000	1	

**PREV/NEXT** buttons are to navigate previous and next pages and **PRINT** button prints all of error code history.

**CLEAR** button erases the history stacked in an ATM machine and set **START DATE** to the present date as well. (START DATE displays "01/01/2000 00:00:00" in ATM machines which have never done the CLEAR function.)



# 5.5.5 REJECT ANALYSIS

REJECT ANALYSIS menu offers a statistics of note reject on an ATM machine. It lists the rejects by the number of times or note counts they occurred. You can print these rejects.

R	EJECT	ANALYS	SIS	
START DATE : 06/29/2009 16:21:00				
	CST1	CST2	CST3	CST4
DISPENSED	0	0	0	N/A
REJECTED	0	0	0	N/A
SKEW	0	0	0	N/A
GAP TOO CLOSE	0	0	0	N/A
LONG NOTE	0	0	0	N/A
SHORT NOTE	0	o	o	N/A
DOUBLE DETECT	0	0	0	N/A

**PRINT** button prints the reject analysis information.

**CLEAR** button erases the reject analysis information and set **START DATE** to the present date as well. (START DATE displays "01/01/2000 00:00:00" in ATM machines which have never done the CLEAR function.)



# **5.6 DIAGNOSTICS**

This report menu consists of 8 sub-menus. **INITIALIZE**, **RECEIPT PRINTER**, **CASH DISPENSER**, **MODEM**, **CARD SCAN(or MCU TEST)**, **AUXILIARY UNIT** and **AGING**. Please press each button on this menu to go to next screen or to operate the related function. To go back to the previous screen, press the **CANCEL** key in pinpad.

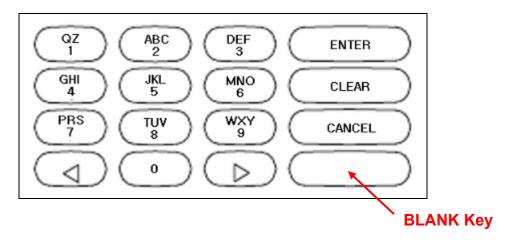
	DIAGNOSTICS	
INITIALIZE	NORMAL	CARD SCAN
RECEIPT PRINTER	TEST COUNT 1	
CASH DISPENSER	0/1	AUXILIARY UNIT
MODEM	CANCEL TO RETURN	AGING



### Changing the TEST COUNT

The TEST COUNT means the number of test.

If you want to change the test count, press **BLANK** key then input the test count and press **ENTER** key. To delete the test count while inputting, press **CLEAR** key. To cancel the test while testing, press **CANCEL** key.



## NOTE: TEST COUNT affects when testing RECEIPT PRINTER, CASH DISPENSER, and MODEM.

Case 1) If you input test count '0', the test count will be "UNLIMIT"

- Case 2) If you input test count 10, the test will perform 10 times.
- Case 3) If you cancel a test and then perform same test, the test count will be continue.

e.g. If you cancel a test when the tested count is 3, and then perform same test, the tested count starts at 3.

- Case 4) If you cancel a test and then perform another test, the test count will be initialized.
- e.g. If you cancel a test when the tested count is 3, and then perform another test, the tested count starts at 0.



## 5.6.1 INITIALIZE

The INITIALIZE has the function of resetting each unit of the NH-1800. If an error occurs while executing, the system will stop and display an error code. Confirm the detailed error description in the ERROR CODE of REPORT MENU.

### Accessing the INITIALIZE

- 1) Select 'DIAGNOSTICS' in the OPERATOR FUNCTION
- 2) Select the 'INITIALIZE' in the DIAGNOSTICS menu. All units will be initialized.
- 3) When the ATM is in the normal state, the SUCCESS message will be displayed.

## 5.6.2 RECEIPT PRINTER

The RECEIPT PRINTER has the function of printing a sample receipt and cutting out one receipt. If an error occurs while executing, the system will stop and display an error code. Confirm the detailed error description in the ERROR CODE of REPORT MENU.

### Accessing the RECEIPT PRINTER

1) Select 'DIAGNOSTICS' in the OPERATOR FUNCTION.

2) Select the 'RECEIPT PRINTER' in the DIAGNOSTICS menu. Test String will be printed from the receipt printer.

3) When the ATM is in the normal state, the SUCESS message will be displayed.

## 5.6.3 CASH DISPENSER

The CASH DISPENSER has the function of testing the dispense mechanisms. This function will dispense one note from the cassette and dump into the reject bin. If an error occurs, the system will stop and display an error code. Confirm the detailed error description in the ERROR CODE of REPORT MENU

### Accessing the CASH DISPENSER

1) Select 'DIAGNOSTICS' in the OPERATOR FUNCTION.

2) Select the 'CASH DISPENSER' in the DIAGNOSTICS menu. The CASH DISPENSER test will be

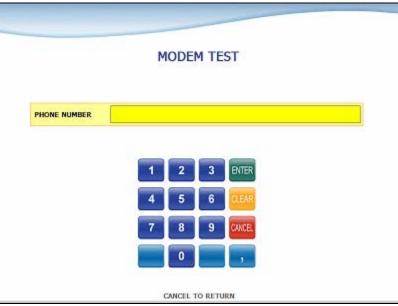
performed.

3) When the ATM is normal state, the SUCCESS message will be displayed.



## 5.6.4 MODEM

The MODEM has the function of testing the modem for any errors. Input the desired PHONE NUMBER, then press **ENTER** Key for TEST DIAL. This function is used to check the function of the modem dial.



### Accessing the MODEM

- 1) Select 'DIAGNOSTICS' in the OPERATOR FUNCTION.
- 2) Select the 'MODEM' in the DIAGNOSTICS menu.
- 3) The MODEM TEST will be displayed.



## 5.6.5 CARD SCAN (or MCU TEST)

The CARD SCAN has the function of testing the magnetic stripe reader and the card itself.

	CARD SCAN	
1501 :		
LEN: 0		
1502 :		
LEN: 0		
1503 :		
LEN : 0		

### Accessing the CARD SCAN

- 1) Select 'DIAGNOSTICS' in the OPERATOR FUNCTION.
- 2) Select 'CARD SCAN' in the DIAGNOSTICS menu. And if the display is ready, please insert and remove the card quickly.
- 3) The card data will be displayed.

The MCU TEST has the function of testing the magnetic stripe reader, IC reader and the card itself. If card reader is capable IC reader, MCU TEST will be display instead of CARD SCAN.

IN	MCU TEST SERT CARD BEFORE PRESS TEST	BUTTON	
ISO1 :	SERT OARD BEFORE FRESS FEST	BOTTON	
LEN :			
ISO2 :			
LEN :			
ISO3 :			
LEN :			
ATR DATA :			



# 5.6.6 AUXILIARY UNIT

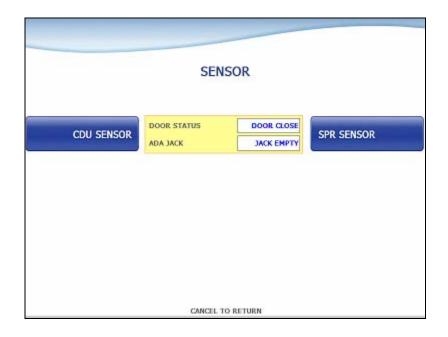
This AUXILIARY UNIT contains **SENSOR** and **FLICKER**. Please press each button on this menu to go to the next screen. To go back to the previous screen, press the **CANCEL** key in pinpad.

	AUXILIARY UNIT	
SENSOR		FLICKER
	CANCEL TO RETURN	



### 5.6.6.1 SENSOR

This SENSOR contains **CDU SENSOR** and **SPR SENSOR**. Please press each button on this menu to go to the next screen. To go back to the previous screen, press the **CANCEL** key in pinpad.



The SENSOR has the function of testing if all the sensors are in proper working condition.

The sensors are tested by turning the sensors on and off.

#### Accessing the SENSOR

1) Select 'DIAGNOSTICS' in the OPERATOR FUNCTION.

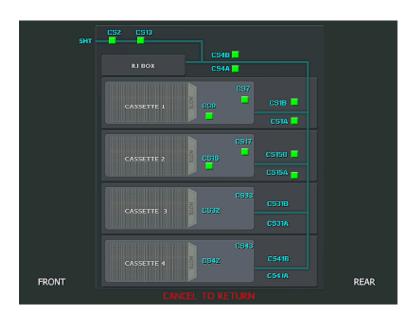
2) Select 'AUXILIARY UNIT' in the DIAGNOSTICS menu and then select 'SENSOR' in the AUXILIARY menu.

3) DOOR STATUS and ADA JACK data will be displayed on the center. If you want to see the CDU SENSOR or SPR SENSOR, then press the button in each.



### 5.6.6.1.1 CDU SENSOR

The CDU SENSOR has the function of testing if all the sensors are in proper working condition. The sensors are tested by turning the sensors on and off. If any sensor is normal, the sensor will be displayed as **GREEN COLOR**. And if any sensor detects an object or is abnormal, the sensor will be displayed as **RED COLOR**. Moreover, if any sensor doesn't exist, the sensor will not be displayed.



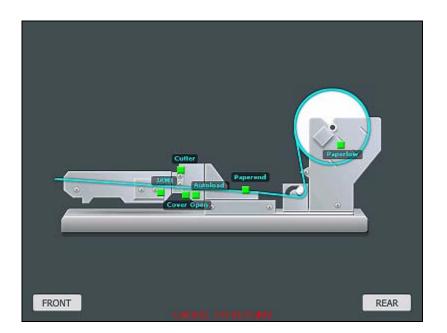
### Accessing the SENSOR

- 1) Select 'DIAGNOSTICS' in the OPERATOR FUNCTION.
- 2) Select 'AUXILIARY UNIT' in the DIAGNOSTICS menu
- 3) Select 'SENSOR' in the AUXILIARY menu and then select 'CDU SENSOR' in the SENSOR menu.



### 5.6.6.1.2 SPR SENSOR

The SPR SENSOR has the function of testing if all the sensors are in proper working condition. The sensors are tested by turning the sensors on and off. If any sensor is normal the sensor will be displayed as **GREEN COLOR**. And if any sensor detects an object or is abnormal, the sensor will be displayed as **RED COLOR**. Moreover, if any sensor doesn't exist, the sensor will not be displayed.



### Accessing the SENSOR

- 1) Select 'DIAGNOSTICS' in the OPERATOR FUNCTION.
- 2) Select 'AUXILIARY UNIT' in the DIAGNOSTICS menu
- 3) Select 'SENSOR' in the AUXILIARY menu and then select 'SPR SENSOR' in the SENSOR menu.



### 5.6.6.2 FLICKER

This FLICKER contains **ALL FLICKER SENSOR, EPP FLICKER, CDU FLICKER, SPR FLICKER** and **MCU FLIKCER**. Please press each button on this menu to change test mode ON, OFF or FLICKING. To go back to the previous screen, press the **CANCEL** key in pinpad.

	FLIC	KER	
	ALL FLICKER	FLICKING	
ALL FLICKER	EPP	OFF	EPP FLICKER
	CDU	OFF	
	SPR	OFF	
	MCU	OFF	CDU FLICKER
			SPR FLICKER
	CANCEL TO	RETURN	MCU FLICKER

### Accessing the SENSOR

1) Select 'DIAGNOSTICS' in the OPERATOR FUNCTION.

2) Select 'AUXILIARY UNIT' in the DIAGNOSTICS menu and then select 'FLICKER' in the AUXILIARY menu.

3) Select any button to test EPP, CDU, SPR, MCU in each or ALL FLICKER..

### 5.6.8 AGING

The AGING function is only used at the factory.

### Accessing the AGING

- 1) Select 'DIAGNOSTICS' in the OPERATOR FUNCTION.
- 2) Select 'AGING' in the 'DIAGNOSTICS' menu.
- 3) All units will be tested unlimitedly. When you press "CANCEL" key, the testing will be stopped.



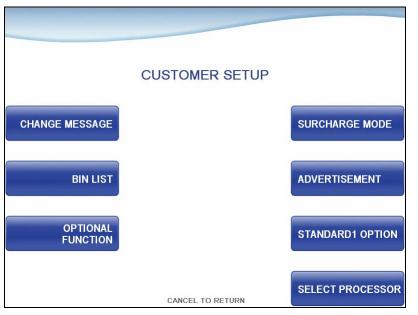
# **5.7 CUSTOMER SETUP**

This customer setup menu contains CHANGE MESSAGE, BIN LIST, OPTIONAL FUNCTION, SURCHARGE MODE, ADVERTISEMENT, STANDARD3 OPTION and SELECT PROCESSOR. Please press each button on this menu to go to the next screen. To go back to the previous screen, press the CANCEL key in pinpad.



[ STANDARD 3]

[STANDARD 1, 2, EPS]

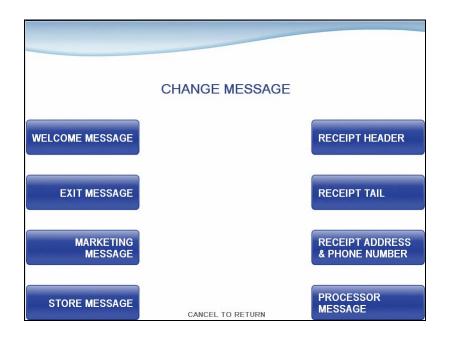




# 5.7.1. CHANGE MESSAGE

CHANGE MESSAGE menu has each of 8 sub menus. The displayed menu depends on which country uses. If you press the **WELCOME MESSAGE** button, the current display will be changed into the **WELCOME MESSAGE**. If you press the EXIT MESSAGE button, you can change the message on Exit Screen. And you can change the message in the RECEIPT. If you press the **RECEIPT HEADER** button, the current display will be changed into the **RECEIPT HEADER**. And you can set the receipt header message in the RECEIPT, If you press the **RECEIPT TAIL** button, the current display will be changed into the **RECEIPT TAIL** button, the current display will be changed into the **RECEIPT TAIL** button, the current display will be changed into the **RECEIPT TAIL** button, the current display will be changed into the **RECEIPT TAIL**. And you can set the receipt tail message in the RECEIPT. If you press the **RECEIPT ADDRESS & PHONE NUMBER** button, it will be changed the **RECEIPT ADDRESS & PHONE NUMBER** button, it will be changed the **RECEIPT ADDRESS & PHONE NUMBER** button, it will be changed the **RECEIPT ADDRESS & PHONE NUMBER** in the RECEIPT. At last, the display can go back to the previous menu by pushing the <<CANCEL> key

MARKETING MESSAGE, STORE MESSAGE and PROCESSOR MESSAGE button will be changed the message in the RECEIPT also.





Refer to figure of the Sample Receipt below for the location of the messages. The default receipt format will not include any messages.

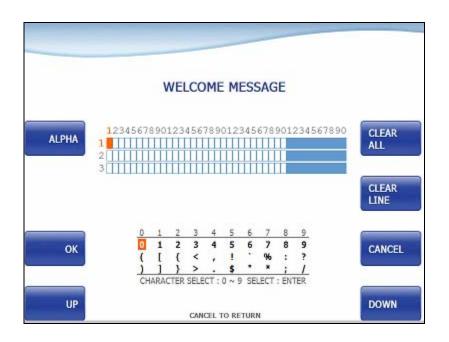
Spanish transactions will be printed in English.

	7	bent You for Unity Or M
ADDRESS1		
ADDRESS2		
ADDRESS3		
PHONE NUMBER		
	USADED 1	
	HEADER 1	
	HEADER 2	
TERMINAL #	= 12345878	
	= 0136	
AUTH. #		
DATE & TIME	= 03/22/2007	20:05:20
BUSINESS DATE	= 03/22/2007	
CARD NUMBER	=	4443
	= WITHDRAWAL	
CCOUNT = FRO	M CHECKING	
	UNT = \$0.00	
EQUESTED AMU	OUNT = \$20.00	
ACCOUNT RALAM	CE = \$0.00	
	E = \$0.00	
T#: 127421	J#:0264	
	: 6-40047(00)	
. LASH UISPE	TAIL	
	TALL	

-Location of Messages on Receipt-



### 5.7.1.1 WELCOME MESSAGE

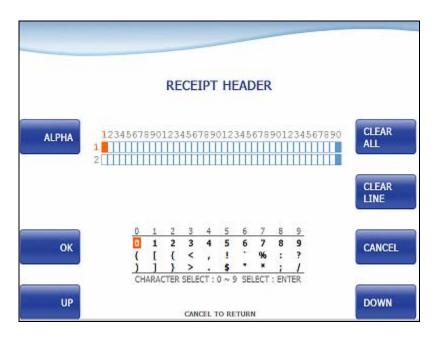


The WELCOME MESSAGE function is used to edit the welcome text.

Please input the welcome message in the field and select **OK** button. If it succeeded, "**OPERATION SUCCESSFUL!**" displays.



### 5.7.1.2 RECEIPT HEADER

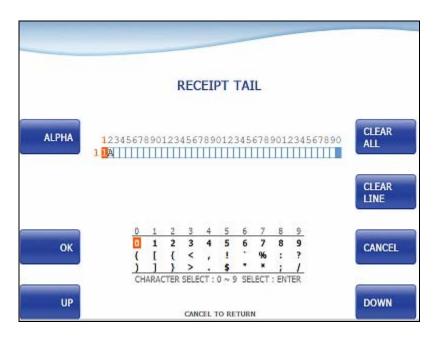


The RECEIPT HEADER function is used to edit the message at the header of receipt.

Please input the receipt header in the field and select **OK** button. If it succeeded, "**OPERATION SUCCESSFUL!**" displays.



### 5.7.1.3 RECEIPT TAIL

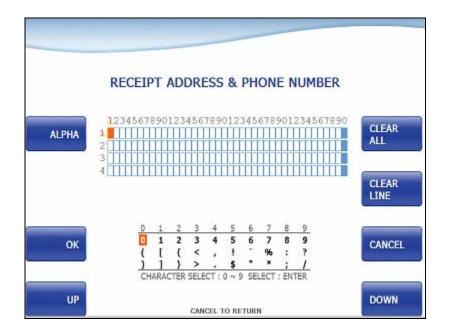


The RECEIPT TAIL function is used to edit the message at the tail of receipt.

Please input the receipt tail in the field and select **OK** button. If it succeeded, "**OPERATION SUCCESSFUL!**" displays.



## 5.7.1.4 RECEIPT ADDRESS & PHONE NUMBER

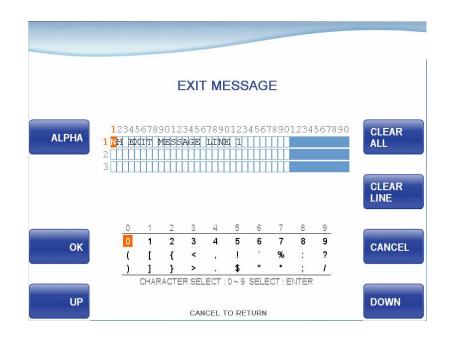


The RECEIPT ADDRESS & PHONE NUMBER function is used to edit the message at the address & phone number of receipt.

Please input the receipt address & phone number in the field and select **OK** button. If it succeeded, "**OPERATION SUCCESSFUL!**" displays.



### 5.7.1.5 EXIT MESSAGE

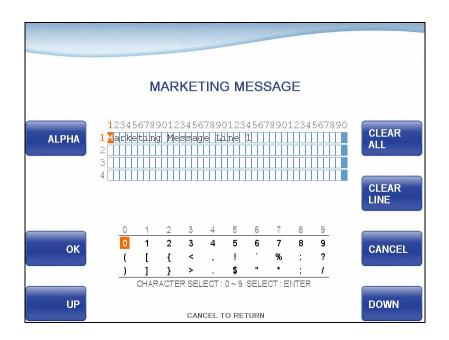


The EXIT MESSAGE function is used to edit the exit text. The message will be displayed at the end of transaction screen.

Please input the exit message in the field and select **OK** button. If it succeeded, "**OPERATION SUCCESSFUL!**" displays.



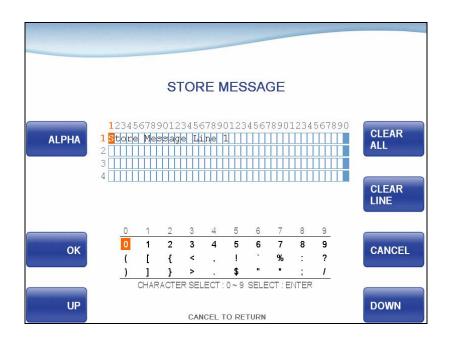
### 5.7.1.6 MARKETING MESSAGE



The MARKETING MESSAGE function is used to edit the marketing message text on receipt. Please input the marketing message in the field and select **OK** button. If it succeeded, "**OPERATION SUCCESSFUL!**" displays.



### 5.7.1.7 STORE MESSAGE

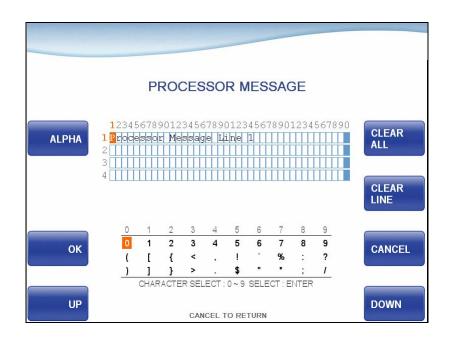


The STORE MESSAGE function is used to edit the store message text on receipt.

Please input the store message in the field and select **OK** button. If it succeeded, "**OPERATION SUCCESSFUL!**" displays.



### 5.7.1.8 PROCESSOR MESSAGE



The PROCESSOR MESSAGE function is used to edit the processor message text on receipt. Please input the processor store marketing message in the field and select **OK** button. If it succeeded, "**OPERATION SUCCESSFUL!**" displays.

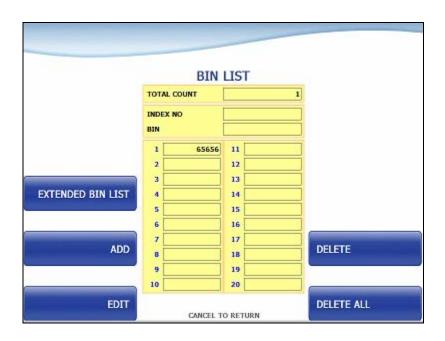


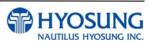
# 5.7.2. BIN(Bank Identification Number) LIST

The "BIN LIST" is used to register the bank identification number. When the cardholders make transaction with the given BIN code, ATM doesn't request any additional fee. However, it is necessary to confirm the connected host because host will decide whether it uses or not

You can input and edit it by using such as **ADD**, **DELETE**, **EDIT**, **DELETE ALL** button.

Please press **EXTENDED BIN LIST** button on this menu to see the Extended Bin List. To go back to the previous screen, press the **CANCEL** key in pinpad.,





## 5.7.2.1 EXTENDED BIN LIST

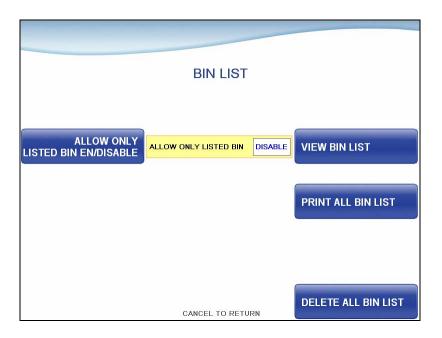
EXTENDED BIN LIST menu show the BIN LIST. This function support additional 3,000 BIN LIST exclusive of the basic 20 BIN LIST. Use **PREV** or **NEXT** button to show BIN LIST before or after. You can change EXTENDED BIN LIST via **FILE UPDATE** using RMS or USB. To go back to the previous screen, press the **CANCEL** key in pinpad.,

	EXTE	NDED BIN LI	ST	
	TOTAL COUN	a 🗌 🗌	3000	
61 ~ 72	73 ~ 84	85 ~ 96	97 ~ 108	109 ~ 120
1234567890	1234567890	1234567890	1234567890	123456789
1234567890	1234567890	1234567890	1234567890	123456789
1234567890	1234567890	1234567890	1234567890	123456789
1234567890	1234567890	1234567890	1234567890	123456789
1234567890	1234567890	1234567890	1234567890	123456789
1234567890	1234567890	1234567890	1234567890	123456789
1234567890	1234567890	1234567890	1234567890	123456789
1234567890	1234567890	1234567890	1234567890	123456789
1234567890	1234567890	1234567890	1234567890	123456789
1234567890	1234567890	1234567890	1234567890	123456789
1234567890	1234567890	1234567890	1234567890	123456789
1234567890	1234567890	1234567890	1234567890	123456789



## 5.7.2.2 MULTIPLE BIN LIST

MUTLIPLE BIN LIST menu show the BIN LIST. This function support additional 8,000 BIN LIST and various BIN PROPERITES like Block Surcharge, Withdrawal Surcharge, Balance Surcharge, Accept Card, Decline Card and Award Coupon.



**ALLOW ONLY LISTED BIN EN/DISALBE** option is enabled; it ensures that only cards with BIN Numbers in BIN LIST are accepted.

**VIEW BIN LIST** can show, add, edit and delete BIN LIST. **PRINT ALL BIN LIST** can print the registered BIN LIST on receipt. And **DELETE ALL BIN LIST** can delete all BIN LIST.



## 5.7.2.3 VIEW BIN LIST

VIEW BIN LIST menu show the BIN LIST. BIN LIST is displayed 10 properties per page.

	VIEW BIN LIST							
	τοται		4	INDEX NO				
PREV PAGE	INDEX	BIN		ACTION	VALUE	NEXT PAGE		
		255901 255901	BLOCK SU			<u> </u>		
		955880		AL SURCHARGE	2.50			
PREV 50	4	955880	BALANCE S	URCHARGE	1.00	NEXT 50		
ADD NEW						EDIT		
SEARCH		<u>.</u>	CANCEL T	) RETURN		DELETE		

Use **PREV PAGE** or **NEXT PAGE** button to show just one page before or after, and **PREV 50** or **NEXT 50** buttons are for 50 or after 50 BIN.

To Add a BIN Property, use **ADD NEW** button. To edit or delete, use **EDIT** or **DELETE** button and Input INDEX NO and press enter key. Besides, you can check up BIN data you would try to search by **SEARCH** button.



### **5.7.2.4 BIN PROPERTIES**

	BIN PROPERTI	ES	
DIN	CURRENT INDEX		ACTION
BIN	BIN 95588	80	ACTION
	ACTION WITHDRAWAL SURCHA	RGE	
	VALUE	\$ 2.00	
	OTHER ACTIONS	VALUE	VALUE
	BALANCE SURCHARGE	1.00	1991 <del>- 199</del> 1 - 1991
	AWARD COUPON		
	CANCEL TO RETURN	i j	APPLY

In case adding and editing BIN properties, this screen enables you to add or change

Press **BIN** button to input BIN. After entering BIN, if press enter key on pinpad, if there are other actions for same BIN, the actions are displayed at below.

Press **ACTION** button to change bin action, it will be toggled block surcharge, withdrawal surcharge, balance surcharge, accept card, decline card and award coupon. If you select withdrawal surcharge or balance surcharge, press **VALUE** button to input the surcharge amount.



If all properties what you would like to input are entered, press APPLY button to finish the adding/editing job. If adding bin action is not valid as compared with added bin action like block surcharge and withdrawal surcharge, you can see the screen the confirm screen.

	ONFIRM TO MOI		
	DO YOU WANT TO MODIF	THE BINLIST	?
YES	CURRENT BIN	111111	NO
	WITHDRAWAL SURCHAR	GE 1.50	
	ACTION	VAULE	
	BLOCK SURCHARGE		
	CANCEL TO RE	ETURN	



### 5.7.2.5 SEARCH BIN

SEARCH BIN
SEARCH BIN
CANCEL TO RETURN

The SEARCH BIN screen allows finding the registered BIN

Enter BIN and press enter key on pinpad, the screen will move the page located in BIN



# **5.7.3 OPTIONAL FUNCTION**

OPTIONAL FUNCTION menu contains MOD 10 CHECK, BALANCE AT START, CHECK CASHING, ACCOUNTS, SELECT RECEIPT, PRE DIALING, NEED MORE TIME and EMV. Please press each button on this menu to go to next screen.

To go back to the previous screen, press the CANCEL Key in pinpad

[ DIALUP] STANDARD 1

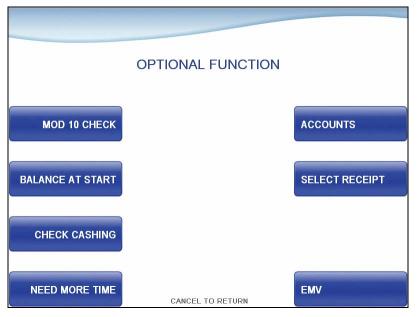
	OPTIONAL FUNCTION	
MOD 10 CHECK		ACCOUNTS
BALANCE AT START		SELECT RECEIPT
CHECK CASHING		PRE DIALING
NEED MORE TIME	CANCEL TO RETURN	EMV

[ DIALUP] STANDARD 2, 3, EPS

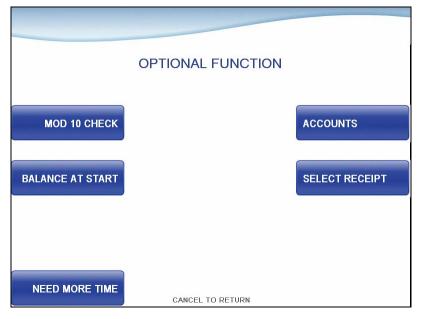
	OPTIONAL FUNCTION	
MOD 10 CHECK		ACCOUNTS
BALANCE AT START		SELECT RECEIPT
		PRE DIALING
NEED MORE TIME	CANCEL TO RETURN	

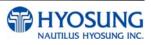


[TCP/IP] STANDARD 1



# [TCP/IP] STANDARD 2, 3, EPS

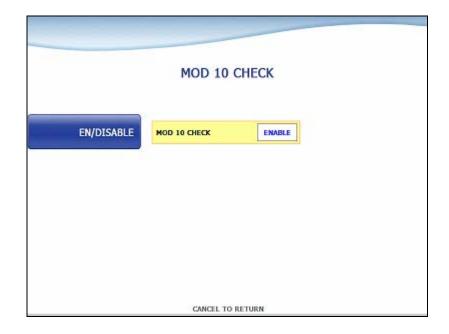




# 5.7.3.1 MOD 10 CHECK

MOD 10 CHECK is to check the card data's validation.

Please press EN/DISABLE button to set up MOD 10 CHECK.





#### 5.7.3.2 BALANCE AT START

If BALANCE AT START is enabled, the screen with which a customer can check his/her balance will be inserted into the normal transaction flow.

Please press **EN/DISABLE** button to set up BALANCE AT START and **CONTINUE EN/DISABLE** button to set up whether it'll CONTINUE the TRANSACTION after BALANCE AT START.

	BALANCE AT	START	
EN/DISABLE	BALANCE AT START CONTINUE	ENABLE	CONTINUE EN/DISABLE
	CANCEL TO RE	TURN	



## 5.7.3.3 CHECK CASHING

This function is one of the options of the Value Added Service which exchanges checks for cash. To use the function, you should call technical support.

The certification screen will appear if you didn't certified.

		[	CE	ER	TIF	IC/	AT	101	V]		
		-	_	-	-	-	-	-			
			С	ERT	LIE.	ICA	TIC	DN			
ALPHA	1234567	890	123	456	789	012	345	678	901	234567890 CL AL	ear L
	*										EAR
	D	1	2	3	4	5	6	7	8	9	
ок	0	1	2	3	4	5	6	7	8	9 CA	NCEL
Site	(	1	{	<	,	1		%	:	?	
	) CH	HARA	} CTER	> SELE		<b>\$</b> 0~5	SE	ECT	; : EN	TER	
UP				CAN	CEL	O RE	TUP	a.		DO	WN

[after CERTIFICATION]

	CHECK CA	SHING	
EN/DISABLE	CHECK CASHING MESSAGE TYPE	ENABLE TYPE_A	MESSAGE TYPE
PIN OPTION	PIN OPTION	ENABLE	
EN/DISABLE			
	CANCEL TO F		



### 5.7.3.4 ACCOUNTS

ACCOUNTS is to set up the accounts which is used on transaction. You can see CHECKING ACCOUNT, SAVINGS ACCOUNT and CREDIT CARD ACCOUNT however, only CREDIT CARD ACCOUNT can be set up.

Please press **CREDIT CARD EN/DISABLE** button to set up CREDIT CARD ACCOUNT.

ACCOUNT	S SETUP	
CHECKING	ENABLE	CREDIT CARD
SAVINGS	ENABLE	EN/DISABLE
CREDIT CARD	ENABLE	



### 5.7.3.5 SELECT RECEIPT

If SELECT RECEIPT is **ENABLED**, the ATM MACHINE will show the screen which a customer can select whether printing the receipt after a transaction or not.

Please press **EN/DISABLE** button to set up SELECT RECEIPT..

If SELECT RECEIPT is **DISABLED**, the ATM MACHINE will print out the receipt unconditionally.

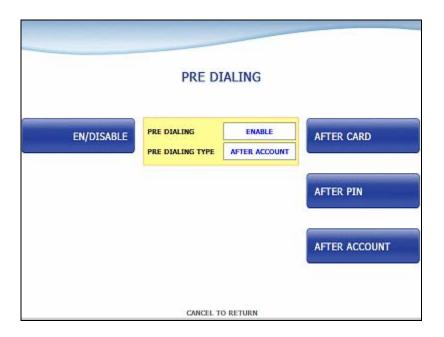
	SELECT RE	CEIPT	
EN/DISABLE	SELECT RECEIPT	DISABLE	
	CANCEL TO R	ETURN	

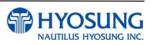


#### 5.7.3.6 PRE DIALING

PRE DIALING is a function to improve the performance speed of transaction by making a connection to the host server earlier than normal.

Please press EN/DISABLE button to set up PRE DIALING and one of three buttons (AFTER CARD, ATER PIN and AFTER ACCOUNT) to determine the time when the ATM MACHINE makes a connection.





#### 5.7.3.7 NEED MORE TIME

NEED MORE TIME is a function to ask to need more time at transaction procedure for customers when user selection timeout occurs.

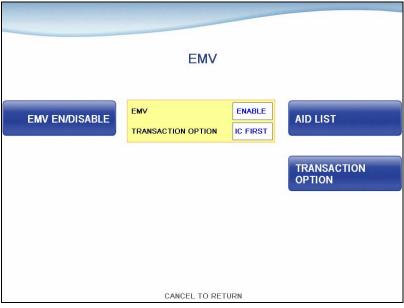
	NEED MORE	TIME
EN/DISABLE	NEED MORE TIME	ENABLE
	CANCEL TO RE	TURN

Press **EN/DISABLE** button to set up. If enabled and timeout occurs, the screen message ("Do you need more time?") will be displayed on transaction screen. If disabled timeout occurs, the transaction will be cancelled.



#### 5.7.3.8 EMV

EMV screen is a function to support EMV transaction with IC card and to check the supported AID LIST in terminal.



Press **EN/DISABLE** button to set up, when enabled, the EMV card reader activated. Press AID LIST button to check the AID LIST available Application ID of IC card on terminal, Press TRANSACTION OPTION button to toggle between IC FIRST and MS FIRST.



#### 5.7.3.9 AID LIST

This screen lists all of the EMV AIDs that loaded on terminal. The available AID count is 60.

	AID LI	ST	
	TOTAL COUNT	8	
	1         A0000002771010           2         A000000031010           3         A000000032010           4         A000000038010           5         A000000041010           6         A000000043060           7         A000000046000           8         A0000002501		
PF	REV CANCEL TO P	RETURN	

If press PREV or NEXT button, you can see the next or previous 20 AIDs.



# 5.7.4. SURCHARGE MODE / OPERATOR FEE MODE / CONVENIENCE FEE MODE

The SURCHARGE MODE contains the enable/disable of the surcharge warning screen and setting the surcharge amount and surcharge owner. When the SURCHARGE MODE is disabled and also if the swiped card data contains BIN number that was entered during installation, the surcharge warning message will not be displayed. When the SURCHARGE MODE is enabled, the SURCHARGE OWNER, AMOUNT and SURCHARGE PERCENT will be displayed in the surcharge warning screen during transaction. The factory default is surcharge enabled, surcharge amount is \$1.50 and the surcharge owner is none.

SURCHARGE PERCENT is to set up the percentage of surcharge.

S	URCHARGE MODE
SURCHARGE MODE	ENABLE
SURCHARGE OWNER	OWNER
SURCHARGE AMOUNT	\$ 2.50
EN/DISABLE	SURCHARGE OWN
AMOUNT	SURCHARGE

[USA, CANANDA and NEW ZEALAND]



# [AUSTRALIA]

ATMOP	ERATOR FEE MODE
ATM OPERATOR FEE MODE	ENABLE
ATM OPERATOR FEE OWNER	OWNER
WITHDRAWAL AMOUNT	\$ 3.00
BALANCE AMOUNT	\$ 1.00
EN/DISABLE	ATM OPERATOR FEE OWNER
WITHDRAWAL AMOUNT	BALANCE AMOUNT
	CONTACT INFO

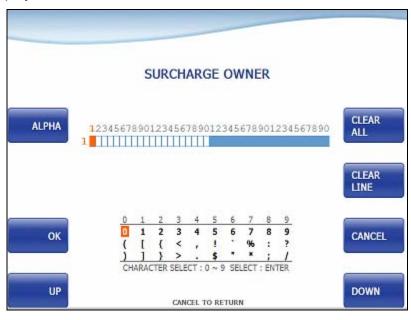
In case Australia, you can set the BALANCE AMOUNT and CONTACT INFO.

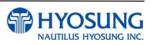


### 5.7.4.1 SURCHARGE OWNER

The SURCHARGE OWNER function is used to edit the surcharge owner.

Please input the surcharge owner in the field and select OK button. If it succeeded, "OPERATION SUCCESSFUL!" displays.





### 5.7.4.2 SURCHARGE PERCENT

The SURCHARGE PERCENT displays which are to set the surcharge percent.

	SURCHARGE PE	RCENT	
SURCHARGE PER	CENT	ENABLE	
PERCENTAGE (%)	È	15	
	BE CHARGED THE GRE/ MOUNT OR PERCENT	BEGINNING	
EN/DISABLE		WARNING	MANNER

- 1) EN/DISABLE
- Set whether to use PERCENT SURCHARGE MODE.
- 2) PERCENTAGE
- Set PERCENTAGE (%).
- 3) WARNING MANNER

- Set whether to use maximum value or minimum value between PERCENTAGE and SURCHARGE AMOUNT. (GREATER: Maximum value, LESSER: Minimum value.)

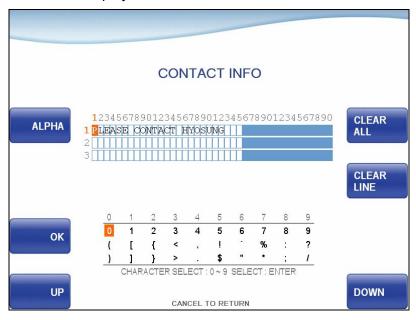
- 4) LOCATION
- Set surcharge warning screen option
- BEGINNING: Shows Surcharge warning screen before customer selected amount.
- AFTER AMOUNT: Shows Surcharge warning screen after customer selected amount.



#### 5.7.4.3 CONTACT INFO

The CONTACT INFO function is used to edit the surcharge contact Information at surcharge warning screen and on receipt.

Please input the surcharge contact Information in the field and select OK button. If it succeeded, "OPERATION SUCCESSFUL!" displays.





# 5.7.5. ADVERTISEMENT

ADVERTISEMENT function provides **SIX** different advertisement screens. If you press the **TIMER** button, you can change the advertisement display timer and the range is between 5 and 30. Please press each button on this menu to go to next screen.



The advertisement image can be updated by SW Update with JPG format images. For more information, please refer to "Advertisement Update Guide" document.



#### 5.7.5.1 SCREEN n.

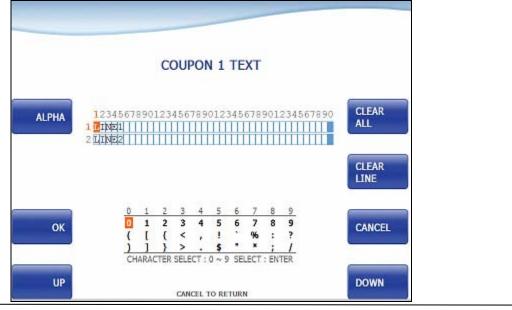
Please press **SCREEN n EN/DISABLE** button to set up SCREEN n, **COUPON n EN/DISABLE** button to set up COUPON n, **PREVIEW** button to preview SCREEN n and **COUPON n TEXT** to change coupon n text. AWARD COUPON ON BIN PROPERITES is enabled, the selected coupon are issued base on AWARD COUPON BIN properties in BIN LIST.

	SCREEN 1		
SCREEN 1		ENABLE	
COUPON 1		ENABLE	
COUPON 1 TEXT LINE 1		LINE1	
COUPON 1 TEXT LINE 2		LINE2	
AWARD COUPON ON BIN PROPER	TIES	DISABLE	
SCREEN 1 EN/DISABLE		COUPON 1 EN/DISABLE	
		COUPON 1	
PREVIEW		TEXT	
		AWARD COUPO ON BIN EN/DISA	
	CANCEL TO RETURN	N CALENTER DISA	

#### 5.7.5.1.1 COUPON n. TEXT

The **COUPON n TEXT** function is used to edit the coupon n text.

Please input the welcome message in the field and select OK button. If it succeeded, "OPERATION SUCCESSFUL!" displays.





# 5.7.6. STANDARD 1 OPTION / STANDARD 3 OPTION

## [STANDARD1 OPTION]

STANDARD 1 OPTION contains **TERMINAL STATUS EN/DISABLE** and **HOST ERROR EN/DISABLE**.

STANDARD1 OPTION	
TERMINAL STATUS         ENABLE           REVERSAL AT HOST ERROR         ENABLE	HOST ERROR EN/DISABLE
	TERMINAL STATUS

STANDARD 1 OPTION function is used to get the additional information when Nautilus Hyosung message is selected.

1) TERMINAL STATUS function is to decide whether terminal status field in message is sent or not.

2) REVERSAL AT HOST ERROR function is to decide whether initiated reversal transaction when host communication error occurs.



# [STANDARD 3 OPTION]

STANDARD 3 OPTION contains **STATUS MONITORING EN/DISABLE**, **COMMUNICATION HEADER**, **COMMUNICATION ID** and **CRC EN/DISABLE**.

In case of COMMUNICATION HEADER is enabled, CRC EN/DISABLE option can be configured.

STANDARD	
STATUS MONITORING	DISABLE
COMMUNICATION HEADER	ENABLE
COMMUNICATION ID	0000000
CRC EN/DISABLE	DISABLE
TUS MONITORING EN/DISABLE	COMMUNICATION
CRC EN/DISABLE	

STANDARD 3 OPTION function is used to get the additional information when Triton message is selected.

1) STATUS MONITORING function is to decide whether status monitoring field in message is sent or not.

2) COMMUNICATION HEADER function is to decide whether communication header in message is included or not.

3) COMMUNICATION ID function is able to save the COMMUNICATION ID. The COMMUNICATION ID has to be set if using the COMMUNICATION HEADER function.

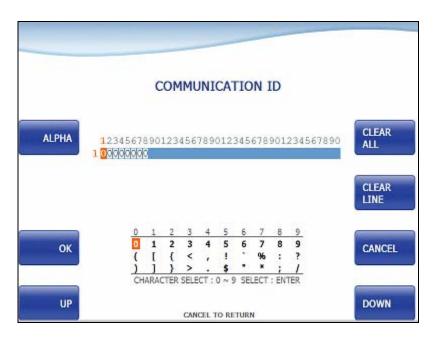
4) CRC(Cyclic Redundancy Checking) OPTION function is to set up whether CRC is used or not during communication with host.



# 5.7.6.1 COMMUNICATION ID

The COMMUNICATION ID function is used to edit the communication id.

Please input the communication id in the field and select OK button. If it succeeded, "OPERATION SUCCESSFUL!" displays.





# 5.7.7. SELECT PROCESSOR

# [DIALUP] SELECTHOST menu contains COMMUNICATION, MESSAGE FORMAT, EOT/ENQ OPTION, REVERSAL RETRY COUNT and STANDARD3 OPTION (STANDARD 3)

	SELECT PROCESSOR	
COMMUNICATION		MESSAGE FORMAT
EOT/ENQ OPTION		
		REVERSAL RETRY COUNT
	CANCEL TO RETURN	

[DIALUP]



[TCP/IP] SELECT PROCESSOR menu contains COMMUNICATION, MESSAGE FORMAT, EOT/ENQ OPTION, TCPIP TYPE, REVERSAL RETRY COUNT and STANDARD3 OPTION (STANDARD3)

	SELECT PROCESSOR	
COMMUNICATION		MESSAGE FORMAT
EOT/ENQ OPTION		
		REVERSAL RETRY COUNT
	CANCEL TO RETURN	

[TCP/IP] – In case of selecting VISA FRAMED for TCP/IP TYPE

[TCP/IP] – In case of selecting STANDARD or ACK CONTROLLED for TCP/IP TYPE

	SELECT PROCESSOR	
COMMUNICATION		MESSAGE FORMAT
		ТСР/ІР ТҮРЕ
		REVERSAL RETRY COUNT
	CANCEL TO RETURN	



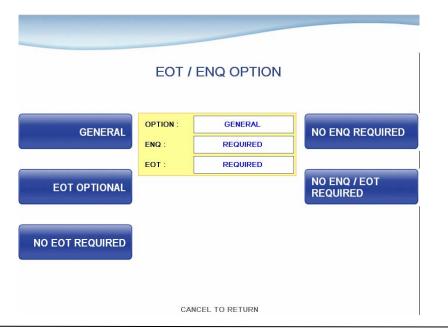
### 5.7.7.1 COMMUNICATION

This is to set up a type of line to communicate with Host. Select DIALUP or TCP/IP. In case of setting up DIALUP, communicate with host using modem. And in case of setting up TCP/IP, communicate with host using LAN.

	COMMUN	ICATION	
DIALUP	NETWORK TYPE	TCP/IP	ТСР/ІР
	CANCEL 1	O RETURN	

## 5.7.7.2 ENQ/EOT OPTION

ENQ/EOT OPTION contains GENERAL, EOT OPTIONAL, NO EOT REQUIRED and NO ENQ REQUIRED functions. You can select one of these options





#### 5.7.7.3 MESSAGE FORMAT

This menu sets up message format to use during communicating with Host.

You can select one of message type to communicate with a data processing company or bank in this menu (STANDARD1, STANDARD2, STANDARD3 and EPS). If STANDARD3 is selected, STANDARD3 OPTION button is displayed on the CUSTOMER SETUP Screen.

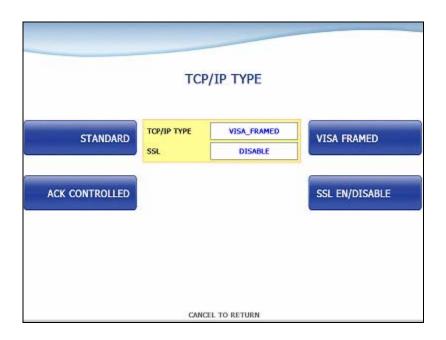
STANDARD 1 is a HYOSUNG message type and STANDARD 2 is a CSP200 message type, STANDARD 3 is Triton 9600 message type and EPS is an extended CSP200 message type.

	MESSAGE	FORMAT	
STANDARD1	MESSAGE FORMAT	STANDARD3	STANDARD2
STANDARD3			EPS
	CANCEL TO	RETURN	



### 5.7.7.4 TCP/IP TYPE

In case of supporting TCPIP, this is providing a function setting up communication flow to use when communicating with host. In this menu, you can change TCP/IP TYPE and can decide whether 'ENABLE' or 'DISABLE' about SSL OPTION. There are three kind of TCP/IP type in this TCP/IP COMMUNICATION menu (STANDARD TCP/IP, VISA FRAMED TCP/IP, and ACK CONTROLLED TCP/IP).

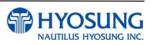




### 5.7.7.5 REVERSAL RETRY COUNT

REVERSAL RETRY COUNT function is used to set the try count of reversal transaction. CURRENT REVERSAL RETRY COUNT displays count of current setting value. You can enter the count and then press **ENTER** (or **CONFIRM**) if you want to change try count of reversal transaction. (You should ask your DP about count of reversal transaction before change try count.)

	ERSAL RETRY COUNT IT NEW VALUE FROM 0 TO 999(INFINITE)
REVERSAL RETRY COUNT	2
	CANCEL TO RETURN

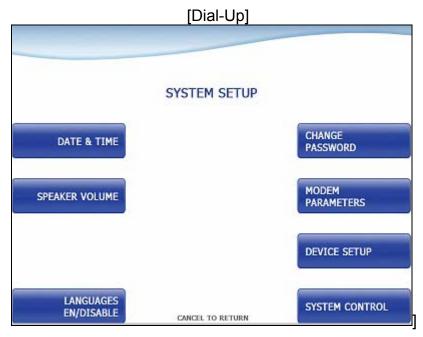


# 5.8 SYSTEM SETUP

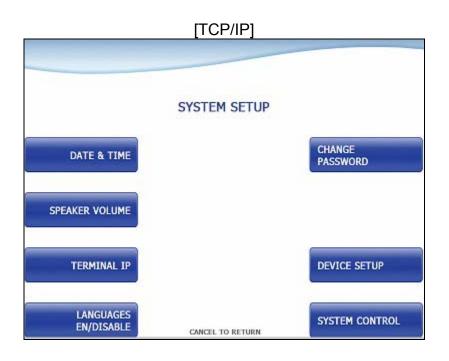
[DIALUP] This system setup menu contains DATE & TIME, CHANGE PASSWORD, SPEAKER VOLUME, MODEM PARAMETERS, DEVICE SETUP, LANGUAGE EN/DISABLE and SYSTEM CONTROL.

[TCP/IP] This system setup menu contains DATE & TIME, CHANGE PASSWORD, SPEAKER VOLUME, TERMINAL IP, DEVICE SETUP, LANGUAGE EN/DISABLE and SYSTEM CONTROL.

Please press each button on this menu to go to next screen. To go back to the previous screen, press the **CANCEL** key in pinpad.







## 5.8.1 DATE & TIME

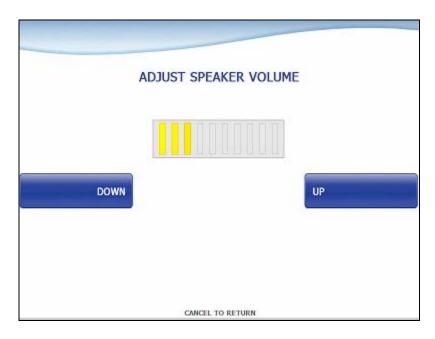
You can set system date and time by pressing **YEAR**, **HOUR**, **MONTH**, **MINUTE** and **DAY** button. If you press each menu, the cursor will be positioned and you can change the value. This value is saved by pressing **APPLY** key, on the other hand, to go back to the previous screen, press the **CANCEL** key in pinpad.

		-	
MUST PRES		& TIME TO EFFECT THE W	LUE CHANGES
YEAR	YEAR	2009	HOUR
	MONTH	07	
	DAY	11	(
MONTH	HOUR	15	MINUTE
	MINUTE	06	
DAY			
	CANCEL	TO RETURN	APPLY



## 5.8.2 SPEAKER VOLUME

The SPEAKER VOLUME function is used to set speaker volume by using DOWN and UP buttons. Once the button is pressed, ATM beeps.



## 5.8.3 TERMINAL IP

TERMINAL IP menu contains **DHCP EN/DISABLE**, **IP ADDRESS**, **SUBNET MASK**, **GATEWAY** and **DNS** buttons. If you press **DHCP EN/DISABLE** button will change DHCP status, ENABLE to DISABLE, or DISABLE to ENABLE. In case of DHCP is disabled, IP ADDRESS, SUBNET MASK, GATEWAY and DNS buttons will be displayed.

	TERMINAL IP	
DHCP	DISABL	E
IP ADDRESS	150.11.5.12	6
SUBNET MASK	255.255.0.	0
GATEWAY	150.11.1.25	4
DNS	0.0.0.	0
P EN/DISABLE		
IP ADDRESS	SUBNET MA	ASK



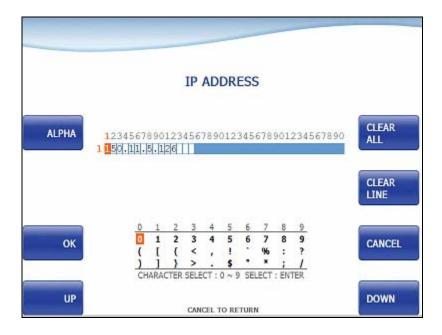
If **DHCP** value is **ENABLE**, ATM uses **DYNAMIC IP** to connect to host. Otherwise, ATM uses STATIC IP. If you change DHCP value from ENABLE to DISABLE, you should set up STATIC IP again use **IP ADDRESS, SUBNET MASK, GATEWAY** and **DNS** buttons.

*Note:* In case of selecting "IN SERVICE" on OP MAIN, if the value of DHCP (or IP, SUBNET MASK, GATEWAY, DNS) is different from the original value of DHCP (or IP, SUBNET MASK, GATEWAY, DNS) when entering in OP mode, exit OP and execute reboot.

#### 5.8.3.1 IP ADDRESS

The IP ADDRESS function is used to edit the ip address.

Please input the ip address in the field and select OK button. If it succeeded, "OPERATION SUCCESSFUL!" displays.

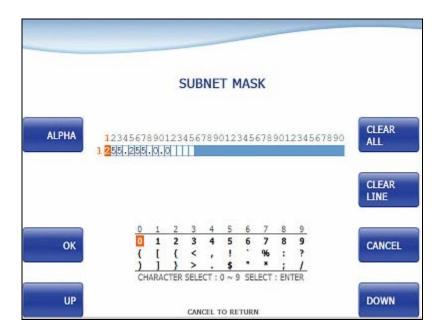




### 5.8.3.2 SUBNET MASK

The SUBNET MASK function is used to edit the subnet mask.

Please input the subnet mask in the field and select OK button. If it succeeded, "OPERATION SUCCESSFUL!" displays.

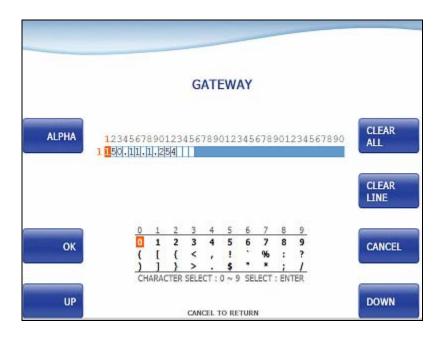




#### 5.8.3.3 GATEWAY

The GATEWAY function is used to edit the gateway.

Please input the gateway in the field and select OK button. If it succeeded, "OPERATION SUCCESSFUL!" displays.

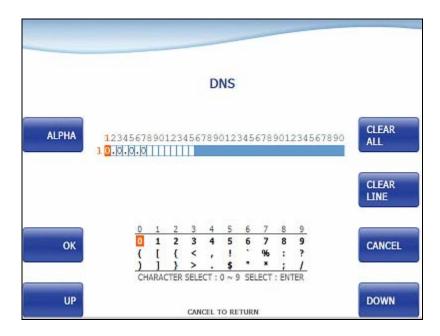




### 5.8.3.4 DNS

The DNS function is used to edit the dns.

Please input the dns in the field and select OK button. If it succeeded, "OPERATION SUCCESSFUL!" displays.





# 5.8.4 LANGUAGE EN/DISABLE

You can select language type to be displayed in screen. There are three types of language "ENGLISH", "SPANISH", "FRENCH". You can change default language pressing DEFAULT LANGUAGE SELECT button. If you press each EN/DISABLE button, one of ENABLE/DISABLE will be changed.

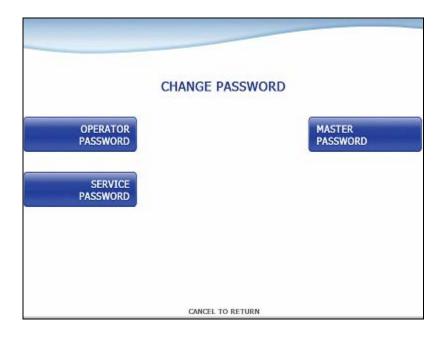
*Note:* The Language which is selected as **DEFAULT LANGUAGE** cannot be changed.

	LANGUAGE EN	/DISABLE	
ILT LANGUAGE	DEFAULT LANGUAGE	ENGLISH	
SELECT	ENGLISH	ENABLE	
	SPANISH	DISABLE	
ENGLISH EN/DISABLE	FRENCH	DISABLE	SPANISH EN/DISABLE
ENJOIGNDEE			Enjorandee
FRENCH			
EN/DISABLE			



# 5.8.5 CHANGE PASSWORD

You can change PASSWORD. Depending on authority, there are three passwords **OPERATOR PASSWORD**, **SERVICE PASSWORD** and **MASTER PASSWORD**.



#### 5.8.5.1 OPERATOR PASSWORD

This menu enables you to change current operator password as new one. To change the current password, you should input the proper one in current password field. The factory default value of operator password is "111111".

OPERATOR PASSWORD
CURRENT PASSWORD NEW PASSWORD
CONFIRM PASSWORD
CANCEL TO RETURN



#### 5.8.5.2 SERVICE PASSWORD

This menu enables you to change current service password as new one. To change the current password, you should input the proper one in current password field. The factory default value of service password is "222222".

SERVICE PASSWORD	
CURRENT PASSWORD	
CANCEL TO RETURN	_

#### 5.8.5.3 MASTER PASSWORD

This menu enables you to change current master password as new one. To change the current password, you should input the proper one in current password field. The factory default value of master password is "555555".

MASTER PASSWORD
CURRENT PASSWORD
CANCEL TO RETURN



### 5.8.6 MODEM PARAMETERS

This MODEM PARAMETERS menu contains **HOST INITIAL STRING**, **RMS INITIAL STRING** and **MODEM TEST**.

	MODEM PARAMETERS
HOST INITIAL STRING	AT&F&Q6+MS=V228
RMS INITIAL STRING	AT8F18C1X3W2
IOST INITIAL STRING	MODEM TEST
RMS INITIAL STRING	
	CANCEL TO RETURN

#### 1) INITIAL STRINGs

The **HOST INITIAL STRING** and **RMS INITIAL STRING** functions are used to edit the modem initial string when the special circumstance is required by a nonstandard modem initial string. Before editing the initial string, consult with service personnel.

#### 2) MODEM TEST

The **MODEM TEST** function is used to perform the modem reset test.

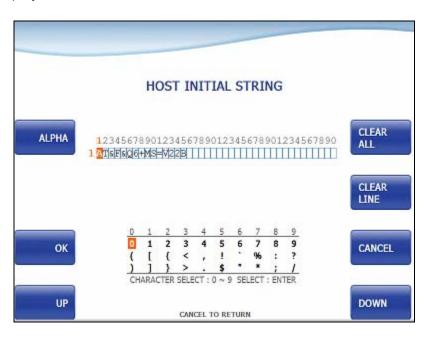
When the error is occurred, contact the service personnel.



# 5.8.6.1 HOST INITIAL STRING

The HOST INITIAL STRING function is used to edit the host initial string.

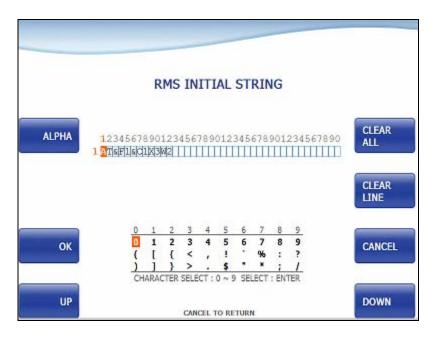
Please input the host initial string in the field and select OK button. If it succeeded, "OPERATION SUCCESSFUL!" displays.



#### 5.8.6.2 RMS INITIAL STRING

The RMS INITIAL STRING function is used to edit the rms initial string.

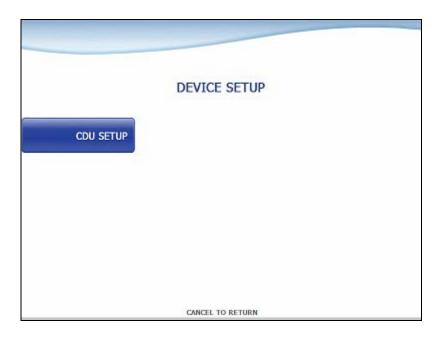
Please input the rms initial string in the field and select OK button. If it succeeded, "OPERATION SUCCESSFUL!" displays.





# 5.8.7 DEVICE SETUP

This DEVICE SETUP menu contains **CDU SETUP**. Please press the **CDU SETUP** button on this menu to go to next screen.

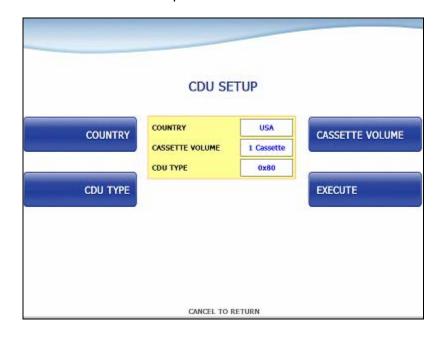


Note: When you change Device Setup Information, contact the service personnel.



#### 5.8.7.1 CDU SETUP

This CDU SETUP menu contains **COUNTRY**, **CDU TYPE**, **CASSETTE VOLUME and EXECUTE**. Please press each button on this menu to operate the related function..



Press the buttons **COUNTRY**, **CDU TYPE** and **CASSETTE VOLUME**. Then the CDU SETUP INFORMATION will be changed.

If you changed the information correctly, press the **EXECUTE** button to **APPLY**.

1) COUNTRY	
------------	--

USA	CANADA	KOREA	CHINA	JAPAN	MEXICO
DEUTSCH	INDONESIA	ENGLAND	TURKEY	ROMANIA	AUSTRALIA
INDIA	TAIWAN	EURO	VIETNAM	UKRAINA	ISRAEL
OTHER					

2) CDU TYPE

0x00	0x01	0x03	0x0b
0x41	0x43	0x47	0x80
0x81			

#### **3) CASSETTE VOLUME**

1 CASSETTE 2 CASSETTE 3 CASSETTE 4 CASSETTE	
---	--



# 5.8.8 SYSTEM CONTROL

This SYSTEM CONTROL menu contains **SOFTWARE UPDATE**, **REBOOT**, **BACKUP ALL JOURNAL TO USB**, **BACKUP JOURNAL BY DATE TO USB**, **BACKUP LOG TO USB**, **BACKUP NVRAM**, **RESTORE NVRAM** and **CLEAR NVRAM**.

Please press each button on this menu to go to next screen or to operate the related function.. And if you want to go back to the previous screen, press the **CANCEL** key.

SYSTEM CONTROL				
PLEASE PLUG YOUR USB MEMORY STICK IN THE USB SLOT				
	BEFORE PRESSING THE BUTTONS			
SOFTWARE UPDATE		BACKUP ALL JOURNAL TO USB		
REBOOT		BACKUP JOURNAL BY DATE TO USB		
BACKUP NVRAM		BACKUP LOG TO USB		
RESTORE NVRAM	CANCEL TO RETURN	CLEAR NVRAM		

You can back up a various kinds of journal data and log data you want in this menu. Please make sure that USB drive is connected into USB slot before pressing the button. When **BACKUP ALL JOURNALS TO USB, BACKUP JOURNAL BY DATE TO USB** or **BACKUP LOG TO USB** button is selected, this data will be sent into USB flash drive. When **SOFTWARE UPDATE** is entered, it will change to the screen of **SOFTWARE UPDATE**. This is because Software Update functionality is supported at SYSTEM CONTROL menu. When SYSTEM CONTROL is submitted the files in USB flash drive will be copied to the ATM.

Terminal configuration data is saved at NVRAM, so BACKUP NVRAM and RESTORE NVRAM button is to use the backup and restore terminal configurations



#### 5.8.8.1 SOFTWARE UPDATE

This is a menu to update software. Please make sure that new software is included in USB driver and is connected into USB slot before implementing it. When SW UPDATE button is selected, new software in USB driver is transferred to a directory of ATM and ATM will start to reboot automatically. If you want to go back the previous screen, press the **CANCEL** key.

CONFIRM TO U	JPDATE SOFTWARE
DO YOU WANT	TO UPDATE SOFTWARE?
YES	NO
CANC	EL TO RETURN





#### 5.8.8.2 REBOOT

If you press the **YES** button, the ATM will restart.

CONFIRM TO F	REBOOT
THIS ATM WILL RESTART. DO YOU	WANT TO CONTINUE?
YES	NO
CANCEL TO RET	URN

#### 5.8.8.3 BACKUP JOURNAL BY DATE TO USB

Input the **START DATE** and **END DATE** using **FROM** and **TO** buttons. And press the **SEARCH** button. Then, the journal date between START DATE and END DATE will be sent to USB drive.

		RNAL BY DAT	
FROM	DATE TYPE : TODAY FROM TO	MM/DD/YYYY 07/11/2009	SEARCH
	IF SEARCH RES THE SAVE BUTT FROM RESULT :	TO	
	CANCEL	TO RETURN	



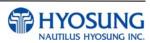
#### 5.8.8.4 CLEAR NVRAM

To clear NVRAM on the MX5000CE / MX5300CE / NH1800CE, begin by entering the Operator Function Menu using the Master Password. Then enter SYSTEM SETUP, SYSTEM CONTROL and CLEAR NVRAM in sequence.

#### 5.8.8.4.1 SET THE MACHINE TYPE

Select the machine type (1800CE / 5000CE / 5300CE) for Clearing NVRAM.

	SET THE TYPE OF MACHINE	
1800CE		5000CE
		5300CE
	CANCEL TO RETURN	



#### 5.8.8.4.2 CLEARING NVRAM



#### 1) CLEAR ALL

This will delete all programmed parameters and make all setting information (including passwords) to the default settings. This does NOT include the master keys which are stored in EPP.

#### 2) CLEAR SETTING

This will delete all programmed parameters and make all information (including passwords) to the default settings. This does NOT include the master keys which are stored in EPP, denomination, journal data.

3) CLEAR JOURNAL

This will delete all journal data permanently

#### 4) CLEAR TRANS. SEQUENCE NO.

This function will reset the journal sequence number to <0000>. This may be useful if you switch processing or switch Terminal ID numbers and want to keep new records.

#### 5) CLEAR LOG

This will delete all logs permanently

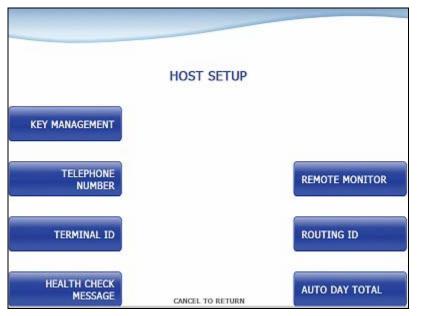
# **NOTE:** Be careful when using these features (NVRAM clearing) – The initialized data can NOT be recovered.



# 5.9 HOST SETUP

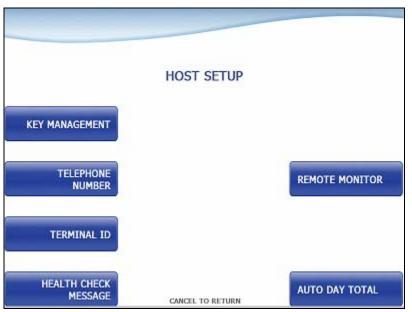
[DIALUP] This host setup menu contains KEY MANAGEMENT, TELEPHONE NUMBER, TERMINAL ID, HEALTH CHECK MESSAGE, REMOTE MONITOR, ROUTING ID and AUTO DAY TOTAL [TCP/IP] This host setup menu contains KEY MANAGEMENT, HOST ADDRESS, TERMINAL ID, HEALTH CHECK MESSAGE, REMOTE MONITOR, ROUTING ID and AUTO DAY TOTAL.

Pressing function key beside menu button goes to next screen. To go back to the previous screen, press the **CANCEL** key in pinpad.



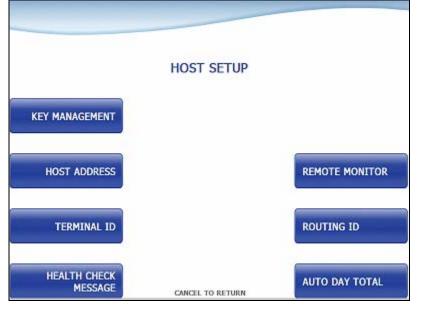
#### [DIALUP] STANDARD 1, 2 EPS



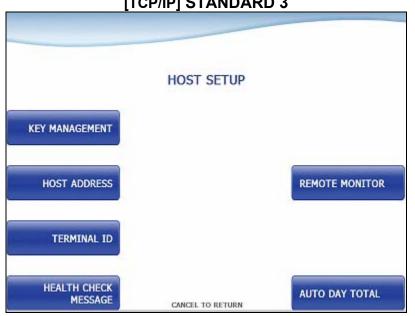


# [DIALUP] STANDARD 3

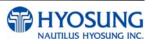
# [TCP/IP] STANDARD 1, 2 EPS







# [TCP/IP] STANDARD 3



#### **5.9.1 KEY MANAGEMENT**

#### START SCREEN

SECURE MODE	
ENTER PASSWORD	
ENTER PASSWORD 1	
	and the second se
	CANCEL

Enter the **PASSWORD 1** and **PASSWORD 2** to execute **KEY MANAGEMENT**.

(Default PASSWORD 1 is '000000'. And default PASSWPRD 2 is '000000' as well)

If you enter PASSWORD 1 and PASSWORD 2 correctly, the main screen of KEY MANAGEMENT will be displayed as below.

[In Case RKT Capable EPP] KEY MANAGEMENT
EDIT KEY
EDIT KEY
CHANGE PASSWORD
CHECK KEY
CHANGE TO RETURN



#### 5-113

# [In Case RKT NOT Capable EPP]

KEY MODE     UNIQUE KEY, MAC       KEY INDEX     00       KEY CDIGIT     00 96	00 EDIT KEY 00 96 CHANGE PASSWORE	K	Y MANAGEMENT	
KEY MODE KEY CDIGIT 00 96 EDIT KEY	00 96	KE	HODE UNIQUE KEY, MAC	]
KEY CDIGIT 00 96	00 96 CHANGE PASSWORD		INDEX 00	EDIT KEY
			DIGIT 00 96	EDIT KET
KEY INDEX CHANGE PASS	SERIAL NUMBER	KEY INDEX		CHANGE PASSWORD
CHECK KEY		CHECK KEY		SERIAL NUMBER



#### [In Case RKT Capable EPP]

#### 5.9.1.1 REMOTE KEY IFNO

The information of RKT Keys can be displayed by pressing **REMOTE KEY INFO** button. Write down the description here.

	REMOT	e key info	
	EPP Serial Number	1234567890123456	
	CA Public Key	ок	
	EPP Public Key	ок	
	EPP Private Key	ок	
EF	PP Public Key Signature	ок	
S	erial Number Signature	ок	
	HOST Public Key	NG	
	Dlownload Public Key	ок	
	CANCE	L TO RETURN	

RKT Keys are keys and signature when REMOTE KEY TRANSFER function is executed.

#### Accessing the KEY INDEX

- 1) Select the 'HOST SETUP' in the OPERATOR FUNCTION menu.
- 2) Select the 'KEY MANAGEMENT' in the HOST SETUP menu.
- 3) Select the 'REMOTE KEY MODE' in the KEY MANAGEMENT menu. Change the KEY MODE.



#### 5.9.1.2 CHECK KEY

The CHECK KEY function is used to display the check sum of all injected Keys. The key which is displayed as "\_\_\_\_\_" means it is in empty state.

The authorized people can verify the injected key(s) with this menu after key injection.

		CHE	CK KE	ΞY		
	PAGE	KEY NAME	USE	TYPE LENGTH	KCV	
revious						Nex

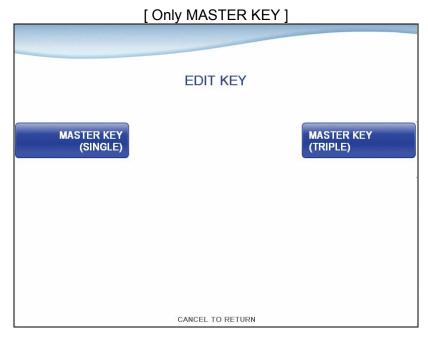
#### Accessing the CHECK MASTER KEY

- 1) Select the 'HOST SETUP' in the OPERATOR FUNCTION menu.
- 2) Select the 'KEY MANAGEMENT' in the HOST SETUP menu.
- 3) Select the 'CHECK KEY' in the KEY MANAGEMENT menu.
- 4) It will display the check sum of all injected master key.

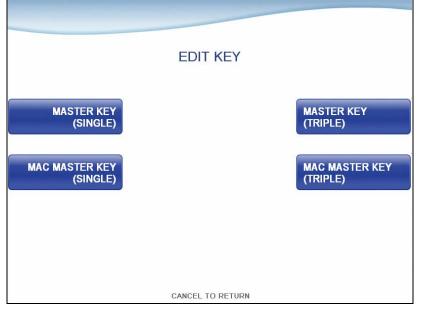


# 5.9.1.3 EDIT KEY

The EDIT KEY function is used to select key which will be entered, Master Key or Mac Master Key.



# [ MASTER KEY and MAC MASTER KEY]



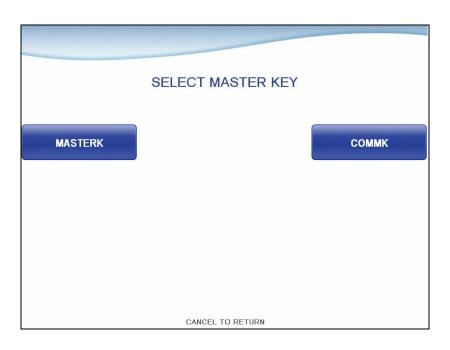
#### Accessing the EDIT KEY

- 1) Select the 'HOST SETUP' in the OPERATOR FUNCTION menu.
- 2) Select the 'KEY MANAGEMENT' in the HOST SETUP menu.
- 3) Select the 'EDIT KEY' in the KEY MANAGEMENT menu.



#### 5.9.1.4 SELECT MASTER KEY

The SELECT MASTER KEY function is used to select Master Key or Mac Master Key which is to be entered.



#### Accessing the SELECT MASTER KEY

- 1) Select the 'HOST SETUP' in the OPERATOR FUNCTION menu.
- 2) Select the 'KEY MANAGEMENT' in the HOST SETUP menu.
- 3) Select the 'EDIT KEY' in the KEY MANAGEMENT menu.
- 4) Select the key which you want to enter in the EDIT KEY menu.



#### 5.9.1.5 ENTER MASTER KEY

The ENTER MASTER KEY function is used to enter Master Key or Mac Master.

The authorized people by bank or DP will enter the Key(s) with this menu.

	ENTER MASTER KEY	
	KEY NAME : MASTERK3 KEY TYPE : Triple Master Key	
	Enter the key by using EPP. (PART A)	
IMPOR	KCV (PART A) : AF 04 78 If KCV is correct, press 'IMPORT' button. If KCV is not correct, press 'ENTRY' button to enter key part againg.	
ENTR		CANCEL

#### Accessing the SELECT MASTER KEY

- 1) Select the 'HOST SETUP' in the OPERATOR FUNCTION menu.
- 2) Select the 'KEY MANAGEMENT' in the HOST SETUP menu.
- 3) Select the 'EDIT KEY' in the KEY MANAGEMENT menu.
- 4) Select the key which you want to enter in the EDIT KEY menu.

#### A. HOW TO EDIT MASTER KEY or MAC MASTER KEY

- 1) Press ENTRY button
- 2) Enter the **MASTER KEY PART A**.

3) Check the key check value of **MASTER KEY PART A**. If key check value is correct, press **IMPORT** button. Otherwise press **ENTRY** button to enter **MASTER KEY PART A** again.

4) After importing MASTER KEY PART A, press ENTRY button to enter MASTER KEY PART B.

5) Enter the **MASTER KEY PART B**.

6) Check the key check value of **MASTER KEY PART B**. If key check value is correct, press **IMPORT** button. Otherwise press **ENTRY** button to enter **MASTER KEY PART B** again.

7) After importing **MASTER KEY PART B**, the **CHECK SUM** of **MASTER KEY** will be displayed.



#### [In Case RKT NOT Capable EPP]

#### 5.9.1.1 KEY MODE

The KEY MODE can be changed by pressing **KEY MODE** button. Write down the description here. There are various kinds of KEY MODE. Those are [**DES**], [**TDES**], [**DUAL MASTER KEY**], [**MAC**], [**TDES, MAC**], [**TDES, TMAC**], [**UNIQUE KEY, DES**], [**UNIQUE KEY, TDES**] and [**UNIQUE KEY, MAC**].

#### Accessing the KEY INDEX

1) Select the 'HOST SETUP' in the OPERATOR FUNCTION menu.

- 2) Select the 'KEY MANAGEMENT' in the HOST SETUP menu.
- 3) Select the 'KEY MODE' in the KEY MANAGEMENT menu. Change the KEY MODE..

#### 5.9.1.2 KEY INDEX

The KEY INDEX function is used to set the KEY INDEX. The range is 0 to 15.

You can enter multiple master keys and have to select one of them. For security issue, DP may change key index when they need to change keys.

#### Accessing the KEY INDEX

1) Select the 'HOST SETUP' in the OPERATOR FUNCTION menu.

2) Select the 'KEY MANAGEMENT' in the HOST SETUP menu.

3) Select the 'KEY INDEX' in the KEY MANAGEMENT menu. Input the KEY INDEX and press ENTER key.



#### 5.9.1.3 CHECK KEY

The CHECK KEY function is used to display the check sum of all injected Keys. The key which is displayed as "\_\_\_\_\_" means it is in empty state.

The authorized people can verify the injected key(s) with this menu after key injection.

[84	CHEC		art Bj	
<b>#0</b>	00 98	#8		
#1		#9		
#2		#10		
#3	1	#11		
24	1	#12		
#5		#13		
#6	1	814		
#7		#15	BC A5	

#### Accessing the CHECK MASTER KEY

- 1) Select the 'HOST SETUP' in the OPERATOR FUNCTION menu.
- 2) Select the 'KEY MANAGEMENT' in the HOST SETUP menu.
- 3) Select the 'CHECK KEY' in the KEY MANAGEMENT menu.
- 4) It will display the check sum of all injected master key.



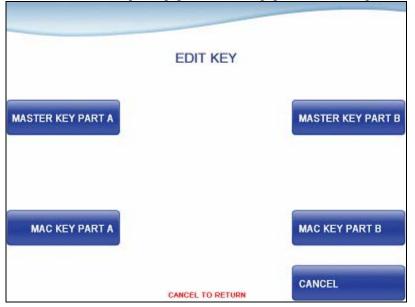
#### 5.9.1.4 EDIT KEY

The EDIT KEY function is used to enter the Master Key, Unique Key and Mac Key.

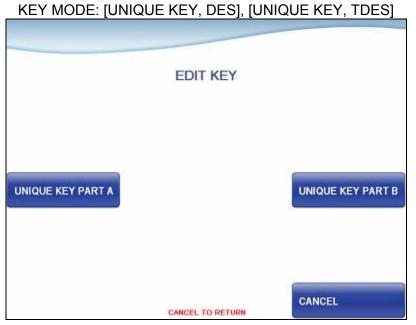
. The authorized people by bank or DP will enter the  $\ensuremath{\mathsf{Key}}(s)$  with this menu.

KEY MODE: [DE	S], [TDES], [DUAL	MASTER KEY]
	EDIT KEY	
MASTER KEY PART A		MASTER KEY PART B
	CANCEL TO RETURN	CANCEL

KEY MODE: [MAC], [TDES, MAC], [TDES, TMAC]







#### KEY MODE: [UNIQUE KEY, MAC]

	EDIT KEY	
UNIQUE KEY PART A		UNIQUE KEY PART B
MAC KEY PART A		MAC KEY PART B
	CANCEL TO RETURN	CANCEL

#### Accessing the EDIT KEY

- 1) Select the 'HOST SETUP' in the OPERATOR FUNCTION menu.
- 2) Select the 'KEY MANAGEMENT' in the HOST SETUP menu.
- 3) Select the 'EDIT KEY' in the KEY MANAGEMENT menu.



#### A. HOW TO EDIT MASTER KEY

1) Press **MASTER KEY PART A** button

2) Enter the MASTER KEY INDEX.

3) Enter the **MASTER KEY PART A**.

4) Verify the **MASTER KEY PART A**.

5) After inputting the **MASTER KEY PART A**, the **CHECK SUM** will be displayed. Press **ENTER** after confirming the check sum.

6) Press MASTER KEY PART B button

6) Enter the MASTER KEY INDEX.

7) Enter the MASTER KEY PART B

8) Verify the **MASTER KEY PART B**.

5) After inputting the **MASTER KEY PART B**, the **CHECK SUM** will be displayed. Press **ENTER** after confirming the check sum.

**NOTE** : You have to input the **SAME KEY INDEX** for **MASTER KEY PART A** and **MASTER KEY PART B**.

#### **B. HOW TO EDIT UNIQUE KEY**

1) Press UNIQUE KEY PART A button

2) Enter the UNIQUE KEY INDEX.

3) Enter the UNIQUE KEY PART A.

4) Verify the **UNIQUE KEY PART A**.

5) After inputting the **UNIQUE KEY PART A**, the **CHECK SUM** will be displayed. Press **ENTER** after confirming the check sum.

6) Press UNIQUE KEY PART B button

6) Enter the UNIQUE KEY INDEX.

7) Enter the UNIQUE KEY PART B

8) Verify the UNIQUE KEY PART B.

5) After inputting the **UNIQUE KEY PART B**, the **CHECK SUM** will be displayed. Press **ENTER** after confirming the check sum.

**NOTE**: You have to input the **SAME KEY INDEX** for **UNIQUE KEY PART A** and **UNIQUE KEY PART B**.



#### **B. HOW TO EDIT MAC KEY**

- 1) Press MAC KEY PART A button
- 2) Enter the MAC KEY INDEX.
- 3) Enter the MAC KEY PART A.
- 4) Verify the **MAC KEY PART A**.

5) After inputting the **MAC KEY PART A**, the **CHECK SUM** will be displayed. Press **ENTER** after confirming the check sum.

- 6) Press MAC KEY PART B button
- 6) Enter the MAC KEY INDEX.
- 7) Enter the MAC KEY PART B
- 8) Verify the **MAC KEY PART B**.

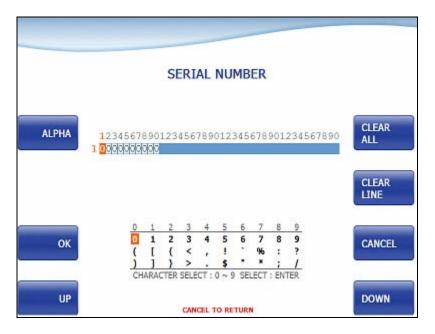
5) After inputting the **MAC KEY PART B**, the **CHECK SUM** will be displayed. Press **ENTER** after confirming the check sum.

NOTE: You have to input the SAME KEY INDEX for MAC KEY PART A and MAC KEY PART B.



#### 5.9.1.5 SERIAL NUMBER

The SERIAL NUMBER function is used to insert the ATM machine number for RMS.



#### Accessing the SET MASTER KEY SERIAL NUMBER

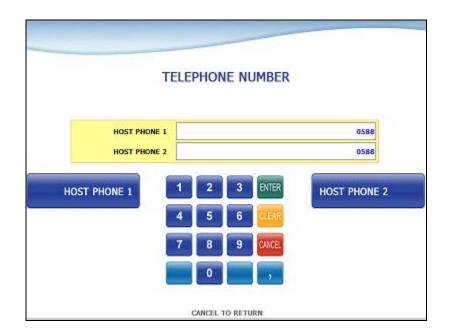
- 1) Select the 'HOST SETUP' in the OPERATOR FUNCTION menu.
- 2) Select the 'KEY MANAGEMENT' in the HOST SETUP menu.
- 3) Select the 'SERIAL NUMBER' in the KEY MANAGEMENT menu. And insert serial number.



# 5.9.2 TELEPHONE NUMBER (Only Dial-Up)

If you press each button on this menu, phone number of host can be input. You can input character, number and special symbol up to 1~20 digits by using '<' or '>'.

This function is used to enter the primary phone number and the back-up phone number of the host. When dialing to host is failure (busy, no answer or etc), ATM switches to other phone number automatically.





# 5.9.3 HOST ADDRESS

HOST ADDRESS SETUP contains URL EN/DISABLE, HOST ADDRESS 1, PORT NUMBER 1, HOST ADDRESS 2 and PORT NUMBER 2.

Press **PORT NUMBER 1** and **PORT NUMBER 2** buttons, and then the values can be input on this screen. These values can be saved by pressing **ENTER** key

HOST ADDRESS 1 and HOST ADDRESS 2 buttons go to the next page.

To go back to the previous screen, press the **CANCEL** key in pinpad.

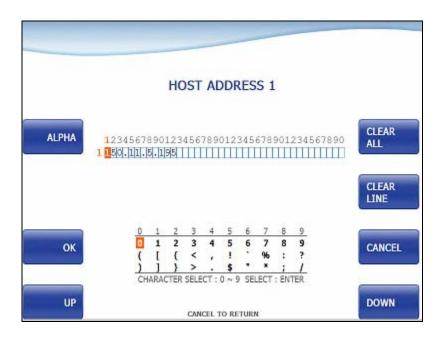
	HOST ADDRESS
URL EN/DISABLE	DISABLE
HOST ADDRESS 1	150.11.5.195
PORT NUMBER 1	31701
HOST ADDRESS 2	150.11.5.195
PORT NUMBER 2	31701
URL EN/DISABLE	HOST ADDRESS
HOST ADDRESS 1	



#### 5.9.3.1 HOST ADDRESS 1

The HOST ADDRESS 1 function is used to edit the host address 1.

Please input the host address 1 in the field and select OK button. If it succeeded, "OPERATION SUCCESSFUL!" displays.



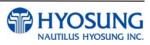


#### 5.9.3.2 HOST ADDRESS 2

The HOST ADDRESS 2 function is used to edit the host address 2.

Please input the host address 2 in the field and select OK button. If it succeeded, "OPERATION SUCCESSFUL!" displays.

			н	OST	A	DR	RES	S 2					
ALPHA	123456	700	0100	45.6	700	01.0	245	670	104	5940	6789		CLEAR
ALTIN	123456	10.20		450	189		10	0/8	11		0/89		ALL
												-	CLEAD
													CLEAR
		1 32		- <u>1</u> .	12	a and	2	2	14	9253			LINE
	<u>.</u>	0 1	2	3	4	5	6	7	8	9			LINE
ок			2	3	4	5	6	7	8.	9			
ОК	ľ		2		4	_		7 7 %					LINE

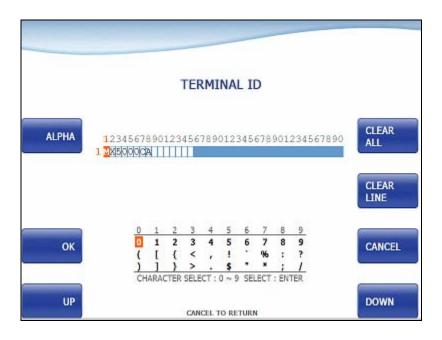


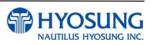
# 5.9.4 TERMINAL ID

The TERMINAL ID function is used to edit the terminal id number of ATM.

Please input the terminal id in the field and select OK button. If it succeeded, "OPERATION SUCCESSFUL!" displays.

Host will identify ATM by looking at terminal ID. Terminal ID will be included in host message and will be printed on the receipt.

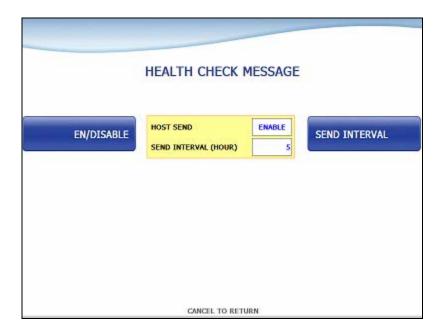




# 5.9.5 HEALTH CHECK MESSAGE

If you press **EN/DISABLE**' button, either "ENABLE" or "DISABLE" can be selected. ATM sends its status periodically to the host when "**HOST SEND**" is set up to "Enable". The interval is dependent on "**SEND INTERVAL**".

If you press 'SEND INTERVAL' button, the value of SEND INTERVAL can be adjusted. (1  $\sim$  24). This value is saved by pressing ENTER button.





# 5.9.6 REMOTE MONITOR

- Display which is to set the information for using Remote Management System (RMS)
- 1) RMS EN/DISABLE function is used to connect to the RMS mode to enable or to disable. The default option is "ENABLE".
- 2) RMS STATUS SEND EN/DISABLE function is used to send the status message to RMS in enable or in disable.
- 3) The RMS PASSWORD function is used to set the RMS password to connect to ATM from RMS.

	REMOTE MC	NITOR	
RMS EN/DISABLE	NETWORK TYPE	TCP/IP	RMS STATUS SEN
	RMS	ENABLE	EN/DISABLE
	RMS STATUS SEND	ENABLE	
RMS PASSWORD	RMS PASSWORD		

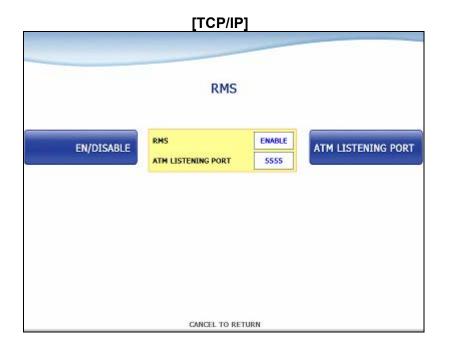


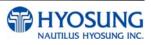
#### 5.9.6.1 RMS EN/DISABLE

- Dialup : Display which is to set the **RMS RING COUNT** for the reception on standby of the ATM.

- TCP/IP : Display which is to set the **RMS LISTENING PORT** for the reception on standby of the ATM. Default port is 5555

	[DIALU	<b>&gt;</b> ]	
	RMS		
EN/DISABLE	RMS RMS RING COUNT	ENABLE 1	RMS RING COUNT
	CANCEL TO RE	TURN	

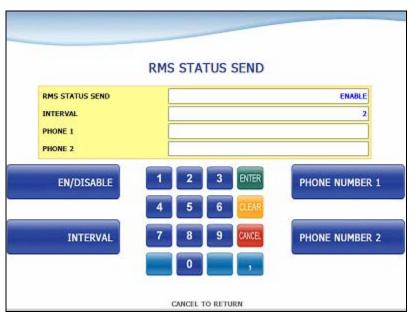




### 5.9.6.2 RMS STATUS SEND EN/DISABLE

- Display which is to set the function to transfer STATUS to RMS from the ATM.

# [DIAL-UP]



1) RMS STATUS SEND

- Display whether RMS STATUS SEND function is ENABLE or DISABLE.
- Set the value using **EN/DISABLE** button.
- 2) INTERVAL
- Display "RMS STATUS SEND" cycle (unit: hours)
- Set the value using INTERVAL button. (Input the number from 1 to 24.)
- 3) PHONE 1, PHONE 2
- Display RMS TELEPHONE NUMBER for RMS COMMUNICATION
- Set the values using PHONE NUMBER 1 and PHONE NUMBER 2. (Input the number up to 20.)



# [TCP/IP]

	RMS STATUS	SEND	
RMS STATUS SEND	ENABLE	URL EN/DISABLE	ENABLE
INTERVAL			2
RMS ADDRESS			5555
EN/DISABLE		l	irl en/disabli
INTERVAL		R	MS ADDRESS

- 1) RMS STATUS SEND
- Display whether RMS STATUS SEND function is enabled or not.
- Set the value using **EN/DISABLE** button.
- 2) RMS INTERVAL
- Display "RMS STATUS SEND" cycle (unit: hours)
- Set the value using INTERVAL button. (Input the number from 1 to 24.)
- 3) URL EN/DISABLE

- Display whether to use URL or IP ADDRESS. If the value is ENABLE, that means the ATM uses URL ADDRESS.

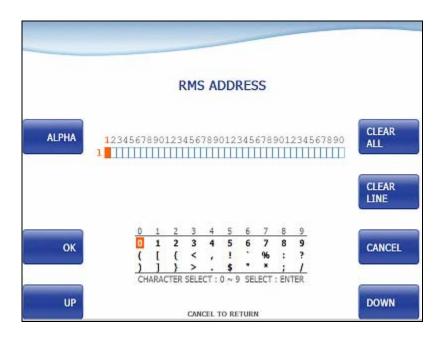
- Set the value using URL EN/DISABLE button.
- 4) RMS ADDRESS
- Display "RMS ADDRESS".
- Set the value using **RMS ADDRESS** button. If you press this button, It goes to next screen.
- 5) RMS LISTENNING PORT
- Display "RMS LISTENING PORT".
- Set the value using **RMS LISTENING PORT** button. (Input the number from 0 to 65535)
- Default port is 9999



#### 5.9.6.2.1 RMS ADDRESS

The RMS ADDRESS function is used to edit the rms address.

Please input the rms address in the field and select OK button. If it succeeded, "OPERATION SUCCESSFUL!" displays.



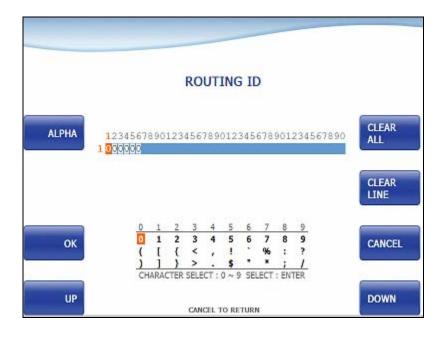


# 5.9.7 ROUTING ID

The ROUTING ID function is used to edit the Routing ID Number of ATM. Routing ID refers to the Bank ID. This field is contained to STANDARD 1, STANDARD 2 and EPS format.

Please input the routing id in the field and select OK button. If it succeeded, "OPERATION SUCCESSFUL!" displays.

To go back to the previous screen, press the **CANCEL** key in pinpad.





# 5.9.8 AUTO DAY TOTAL

AUTO DAY TOTAL feature allows the ATM to complete a Day Total operation (Without Actually closing out the machine) at a predetermined time each day. This is useful if you are doing accounting of your ATM on a day-to-day basis. Your processor cuts off its transactions each day at a set time. By enabling Auto Day Total at the same time, your day's balance should match the host. This information will appear as a journal record so, you will need to access your journal to print or view the totals.

	AUTO DA	Y TOTAL	
EN/DISABLE	AUTO DAY TOTAL	ENABLE	TOTAL TYPE
ENJOIDINGEE	TOTAL TYPE	DAY TOTAL	
	HOUR	20	
	MINUTE	30	HOUR
			<u> </u>
			MINUTE
			FILINGTE

# 1) EN/DISABLE

- Display whether AUTO DAY TOTAL function is enabled or not.
- Set the value using **EN/DISABLE** button.

# 2) TOTAL TYPE

- Display AUTO DAY TOTAL TYPE

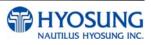
DAY TOTAL: ATM sends total to your processor then initialize total

TRIAL DAY TOTAL: ATM sends total to your processor

- Set the value using **TOTAL TYPE** button.

# 3) HOUR / MINUTE

- Display the time for the ATM to total itself
- Set the value using **HOUR** and **MINUTE** button.



# 5.10 TRANSACTION SETUP

This transaction setup menu contains DISPENSE LIMIT, LOW CURRENCY CHECK EN/DISABLE,

**FAST CASH** and **DENOMINATION**. By pressing each button, you can execute each function or enter each sub menu. To go back to the previous screen, press the **CANCEL** key in pinpad.

	TRANSACTION	I SETUP	
DISPENSE LIMIT	DISPENSE LIMIT \$	200 DISABLE	LOW CURRENCY CHECK EN/DISABLE
FAST CASH			DENOMINATION
	CANCEL TO RET	TURN	

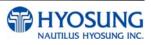
# 1) DISPENSE LIMIT

This function is used to set the maximum amount of notes that can be dispensed per transaction. The amount must be a multiple of denomination. And the maximum dispensed count a transaction must not be over a total of 40 notes.

(eg. You can't input over \$4000 on DISPENSE LIMIT if max denomination is \$100 on ATM.)

# 2) LOW CURRENCY CHECK EN/DISABLE

This function is used to set the detection of cassette low level (100 bills or less). If enabled, hardware will report the low condition to the software and the machine will go to "OUT OF SERVICE" mode under low note condition.



# 5.10.1 FAST CASH

FAST CASH function is used to set the cash amount which is to be displayed on the FAST CASH screen. The maximum amount must be less than the DISPENSE LIMIT.

You can set 6 kinds of values which are frequently requested by customer using this function. By using this function, customers withdraw the money more easily.

			-			
		FAST	CASH	1		
LBO	LB0 LB1	\$ 20 \$ 60	RB0 RB1	\$ 40 \$ 80	RBO	
LB1	LB2	\$ 100	RB2	\$ 120	RB1	
LB2					RB2	
		CANCEL	TO RETUR	:N		



#### 5.10.2 DENOMINATION

This function is used to set the denomination of note to be set in the cassette. Pressing function key beside menu button selects the cassette to set the denomination of note. Input the note value you want and press the **ENTER** key in the pinpad. If you completed the all cassette setting, you have to press **APPLY** button to effect the value changes.

MUST P	RESS 'APPLY' BUTTON T	TO EFFECT THE VA	LUE CHANGES
ST CASSETTE	COU CURRENCY	USD	
OT CASSETTE	1ST CASSETTE	20	1
	2ND CASSETTE	N/A	
	3RD CASSETTE	N/A	1
	4TH CASSETTE	N/A	



# Chapter 6. Appendix



# 6. Appendix

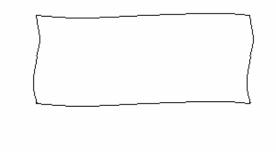
# A. BILL CONDITIONS

#### A.1 Acceptable condition

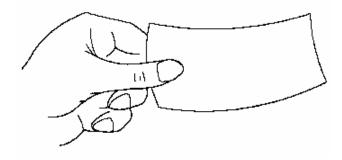
• Bill which is very clean and can readily be recognized as a true bill



• Bill that has sufficient life or sizing to be handled easily



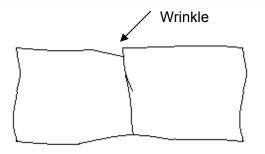
• Bill which can be manually held straightly when one end is held by a hand and the bill is slightly curved vertically



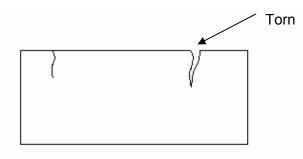


#### A.2 Unacceptable condition

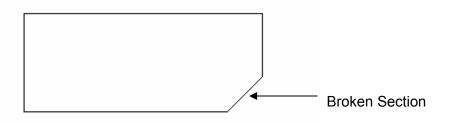
- Bill having serious wrinkles, torn or broken section wherein paper fiber is broken and separation begins
  - ✓ Wrinkle



✓ Torn

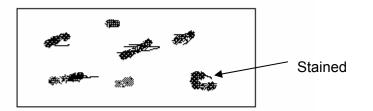


✓ Broken section

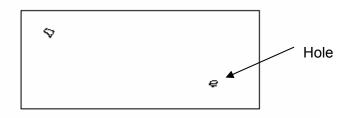




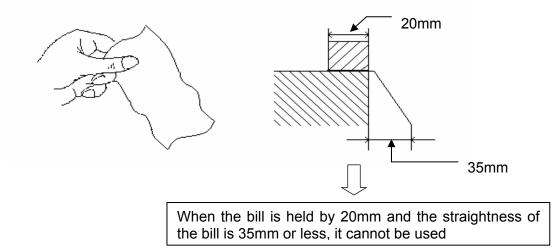
• Bill having adequate life or sizing, but stained seriously



• Bill with holes (Perforated bill)

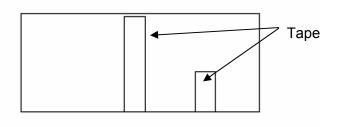


• Bill ragged and cannot be held straightly when one end is supported by a hand

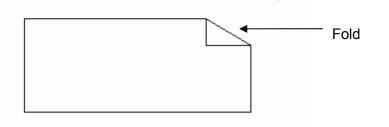




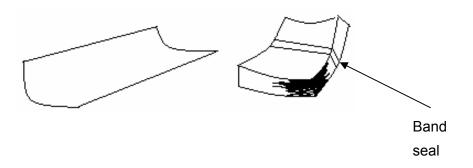
• Bill with cellophane tape, scotch tape, etc



• Bill with folds

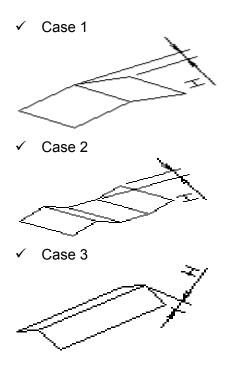


• Gradually curved bill (bills tied by hand seal, etc)





• Bill with folded lines



Bill distortion should not exceed 10 mm



# **B. RECEIPT PAPER SPECIFICATIONS**

#### **B.1 Applicable Product**

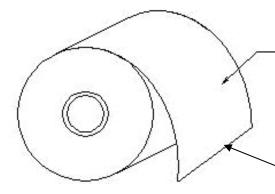
This purchase specification applies to the receipt paper

### **B.2 Specification**

- 1) Paper type: Thermal roll paper
- 2) Print color: Black

#### **B.3 Specification of the Receipt Paper**

- 1) Paper type: Thermal roll paper
- 2) Print color: Black
- 3) Specification: Paper detects heat.
- 4) Use anything among three below as you can get easily in your field.
- 1 Paper basis weight : 55±3 g/  $\texttt{m}^{\text{*}}$  , Paper thickness : 58±4  $\,$   $\mu \texttt{m}$
- 2 Paper basis weight : 65±3 g/m², Paper thickness : 68±3  $\,\mu\text{m}$
- 3 You can use ones within the following range.
- Paper basis weight : 52 g/m<sup>2</sup> ~ 68 g/m<sup>2</sup>,
- Paper thickness : 54  $\mu$ m ~ 71  $\mu$ m



PRINTING SURFACE

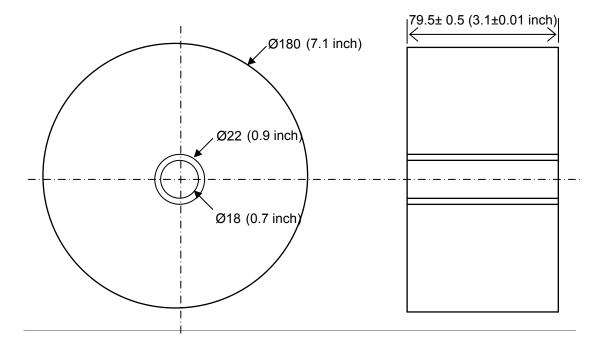
(Thermal printing side is **OUTSIDE**, **NOT INSIDE** of roll paper)

Beginning and ending edge of the paper should be that of the printing specifications.

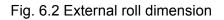
Fig.6.1 Paper Specifications



#### **B.4 Roll appearance**



- All measurements are in mm.



Note 1) Store the paper roll separately to prevent damage to the paper.

Note 2) Do not connect the papers with tape.

Note 3) Make sure the paper end is not attached to the paper pipe.

Note 4) Make sure the paper is rolled evenly.



#### **B.5 Paper Handling Precautions**

- 1) Store it away from high temperature and humidity If the paper is stored in a place where temperature is above 50 °C or humidity is above 90% RH, the coloring capability may deteriorate or the paper surface may inflate.
- 2) Refrain from exposing to direct sunlight

The paper surface can be inflated if you expose it to direct sunlight or leave it under the fluorescent lamp for a long time.

3) Keep it away form the organic solvents

Paper color may change if the paper comes in contact with organic solvents or glues containing organic solvent.

4) Keep it away from plastics

If the paper comes in contact with materials containing plastics, its coloring capability may deteriorate or de-coloring of the paper may occur.

5) Miscellaneous

If the paper comes in contact with carbon copy paper or if the paper surface is scratched with a metallic object, de-coloring may occur C.2.3 Specification:



# C. MAGNETIC CARD SPECIFICATIONS

Item	ISO Card (Unit : Inch)	
Length	R=0.13 ± 0.01 3.36~3.37 0.267~0.031	
Card Bending	Below 0.079	
Magnetic Stripe Position	Over 3.25 Card upper side Magnetic Stripe (Card rear side) Uses third track	

Fig.6. 3 Magnetic Card Specifications



# D. ERROR CODE TABLE

### **D.1 Receipt Printer**

Error Code	Description	Trouble shooting
1106910	LOST SLIP", DEV_SPR	
2001000	Receipt paper jam	Remove any jammed paper from the printer.
2001200	Receipt printer feed plate open	Close the feed plate.
2001300	Out of receipt (Receipt paper empty)	Replenish the receipt paper.
2001400	Receipt printer head overheated before printing	Check the printer head and change if necessary.
2010100	Receipt printer lever opened	Close the lever of print head completely
2010200	Receipt printer head overheated	Wait the time until the temperature of head adequately slow down and try to initialize
2010300	Receipt paper jam	Remove jammed paper between printer head and rollers
2010400	Receipt paper empty	<ol> <li>Replenish receipt paper</li> <li>Check the status of sensor and its connector</li> </ol>
2010500	Receipt paper setting error	<ol> <li>Check the status of setting paper</li> <li>Check the status of sensor and its connector</li> </ol>
2010600	Command is received while doing self-test	After terminating self-test and initialize receipt printer
2010700	No receipt paper	<ol> <li>Replenish receipt paper in paper charger</li> <li>Check the status of Near End sensor and its connector</li> </ol>
2010800	Receipt paper cutting error	<ol> <li>Check the Cutter module</li> <li>Check if printer head lever is properly close</li> </ol>
2010900	No sensing black mark (dark sensor)	<ol> <li>Check the status of Black mark sensor</li> <li>Check if Dip switch # 6 is correctly set (Dip switch # 6 is set by On in case of not using Black mark)</li> </ol>
2010A00	The size of image print data is abnormal	Check the AP version and initialize
2080100	Receipt printer lever opened	Close the lever of print head completely



Error Code	Description	Trouble shooting
2080200	Receipt printer head overheated	Wait the time until the temperature of head adequately slow down and try to initialize
2080300	Receipt paper jam	Remove jammed paper between printer head and rollers
2080400	Receipt paper empty	<ol> <li>Replenish receipt paper</li> <li>Check the status of sensor and its connector</li> </ol>
2080500	Receipt paper setting error	<ol> <li>Check the status of setting paper</li> <li>Check the status of sensor and its connector</li> </ol>
2080600	Command is received while doing self-test	After terminating self-test and initialize receipt printer
2080700	No receipt paper	<ol> <li>Replenish receipt paper in paper charger</li> <li>Check the status of Near End sensor and its connector</li> </ol>
2080800	Receipt paper cutting error	<ol> <li>Check the Cutter module</li> <li>Check if printer head lever is properly close</li> </ol>
2080900	No sensing black mark (dark sensor)	<ol> <li>Check the status of Black mark sensor</li> <li>Check if Dip switch # 6 is correctly set (Dip switch # 6 is set by On in case of not using Black mark)</li> </ol>
2080A00	The size of image print data is abnormal	Check the AP version and initialize
9720000	Receipt printer communication error during SP opening	Check if communication cable or COM port is not connected
9722010	Receipt Printer communication failure during COM port open	1. Do RESET at Operator Function 2. Reboot ATM
9722DN0	Receipt Printer communication failure during sending command to Receipt Printer	1. Do RESET at Operator Function 2. Reboot ATM
97912XX	DEV_SPR Time Over Error	1. Reboot ATM 2. Call your attendant
97922XX	DEV_SPR FATALERROR (WARNING)	1. Reboot ATM 2. Call your attendant
A010100	Open lever detected before executing command	Close the feed lever.
A010200	Printer thermal head overheated while executing command	Check the thermal printer head and change if necessary.
A010300	Paper jam detected before executing command	Remove any jammed paper from the printer.
A010400	Paper setting error detected before executing command	Remove and re-install the receipt paper.
A010500	Paper check error detected before executing command	Remove and re-install the receipt paper.



Error Code	Description	Trouble shooting
A010800	Paper cutter software check error detected before executing command	Check for and remove any jammed paper.
A080100	Open lever detected while executing command	Remove any jammed paper.
A080200	Receipt printer head overheated while printing	Check the thermal printer head and change if necessary.
A080300	Paper jam detected while executing command	Remove and re-install the receipt paper.
A080400	Paper setting error detected before executing command	Remove and re-install the receipt paper.
A080500	Paper check error in doing command	Remove any jammed paper.
A080800	Paper cutter software check error detected while executing command	Check for and remove any jammed paper.
ADN0100	No response detected for 30 seconds after sending command	Check cable and connection between the CE and printer.
ADN0F00	No response detected for 30 seconds after sending command	Check cable and connection between the CE and printer.
ADN1100	No response detected after 3 retries	Check cable and connection between the CE and printer.
ADN1200	No response detected between ENQ-ACK after 5 retries of ENQ	Check the cable and connection between the CE and printer.
ADN1300	No response detected after 5 retries because of timeout between STX-BCC interval	Check cable and connection between the CE and printer.



### **D.2 Card Reader**

Error Code	Description	Trouble shooting
8217091	Card in card reader	Remove card
1101910	LOST CARD", DEV_MCU	
9723010	Failed to open device	Check the serial port or cable
9723016	Time out to receive data	Check the serial port or cable
9723019	Polling down	Check the serial port or cable
9730100	IC CARD DENIAL	
9730200	IC CARD ONLINE DATA ERROR	
9730300	IC CARD ERROR	
97913XX	DEV_MCU Time over Error Code	1. Reboot ATM 2. Call your attendant
97923XX	DEV_MCU FATALERROR (WARNING)	1. Reboot ATM 2. Call your attendant
9799301	MCU RETRACT OVER	Clear the count of retracted card at OP mode
90001	Card Read Error	<ol> <li>Check Magnetic Card</li> <li>Check Card Read module and cable connection</li> </ol>
90002	Invalid IC card communication	<ol> <li>Power Off/On</li> <li>Check DIP MCR</li> <li>Check cable connection</li> </ol>
90003	DIP MCR latch failure	<ol> <li>Power Off/On</li> <li>Check DIP MCR (Clamp Lever)</li> <li>Check cable connection</li> </ol>
90004	DIP MCR unlatch failure	<ol> <li>Power Off/On</li> <li>Check DIP MCR (Clamp Lever)</li> <li>Check cable connection</li> </ol>
90005	DIP MCR power on failure	<ol> <li>Power Off/On</li> <li>Check DIP MCR</li> <li>Check cable connection</li> </ol>
90006	DIP MCR power off failure	<ol> <li>Power Off/On</li> <li>Check DIP MCR</li> <li>Check cable connection</li> </ol>
D0006	CARD NOT SUPPORTED	Check your card



Error Code	Description	Trouble shooting
D0014	Invalid Card Number	Check your account
D0054	Expire Card	Check your card
D0057	Transaction not Permitted – Card	Check your card
		1. Power Off/On
IDN0X	DIP MCR connection failure	2. Check DIP MCR
		3. Check cable connection

### **D.3 Journal Printer**

Error Code	Description	Trouble shooting
9721111	Off line status	<ol> <li>Check communication cable connected properly</li> <li>Check power cable connected properly</li> </ol>
9721112	On busy	1. Check printer's working status
9721121	Mechanics Error	1. Recover printer's mechanical Error 2. Reboot ATM
9721122	Recoverable Error	1. Recover printer's Error 2. Reboot ATM
9721123	Unrecoverable Error	1. Reboot ATM
9721124	Paper jammed	1. Remove jammed paper
97911XX	DEV_JPR Time over Error Code	1. Reboot ATM 2. Call your attendant
97921XX	DEV_JPR FATALERROR (WARNING)	1. Reboot ATM 2. Call your attendant



## D.4 Cash Dispenser

Error Code	Description	Trouble shooting
1102910	LOST WITHDRAW CASH", DEV_CSH	
1102920	LOST DEPOSIT CASH", DEV_CSH	
1103910	LOST CARD & SLIP", DEV_MCU   DEV_SPR	
2000100	No cassette	Insert or re-insert the cassette(s). Check cassette sensor.
2000200	Note shortage	Replenish the cassette.
2000300	Reject bin full	Remove notes from the reject bin and try the Cassette Total function again.
2000500	Cash Dispenser Unit data setting error	Check Cash Dispenser Unit information. (Currency, Denomination, etc)
2001600	Note detected in stacker (shutter or presenter type)	Clear any notes from the stacker.
2021500	Sensor detects note in delivery path before CDU dispenses	Remove note from the CDU delivery path.
2131500	CS4 sensor detects note in delivery path before CDU dispenses. Sensor is located along the delivery path right before the reject bin.	Remove note from the CDU delivery path.
21A1500	CS1A sensor detects note in delivery path before CDU dispenses. Sensor is located along the delivery path right after where the note exits the 1st cassette.	Remove note from the CDU delivery path.
21B1500	CSB sensor detects note in delivery path before CDU dispenses. Sensor is located along the delivery path right after where the note exits the 1st cassette.	Remove note from the CDU delivery path.
24A1500	CS3A sensor detects note in delivery path before CDU dispenses. Sensor is located along the delivery path right after where the note exits the 3rd cassette.	Remove note from the CDU delivery path.
24B1500	CS3B sensor detects note in delivery path before CDU dispenses. Sensor is located along the delivery path right after where the note exits the 3rd cassette.	Remove note from the CDU delivery path.
4000000	Cash Dispenser(CDU) received the undefined	1. Get the trace file and log files in D:\trace2. Call
	command from AP software	your attendant
4001100	Detecting CS2 Dark (Front Access Type:Reject	1. Remove notes on CS2 sensor 2. Clean CS2
+001100	box is opened.)	



Error Code	Description	Trouble shooting
4001400	CS4A sensor detects note in delivery path before/after CDU dispenses	1. Remove note from the CDU delivery path.2. Clean CS4A
4001500	CS2 or CS4A sensor detects note in delivery path before/after CDU dispenses	1. Remove note from the CDU delivery path.2. Clean CS2 and CS4A
4001800	CS4B sensor detects note in delivery path before/after CDU dispenses	1. Remove note from the CDU delivery path.2. Clean CS4B
4001900	CS2 or CS4B sensor detects note in delivery path before/after CDU dispenses	1. Remove note from the CDU delivery path.2. Clean CS2 and CS4B
4001C00	CS4A or CS4B sensor detects note in delivery path before/after CDU dispenses	1. Remove note from the CDU delivery path.2. Clean CS4A and CS4B
4001D00	CS2, CS4A or CS4B sensor detects note in delivery path before/after CDU dispenses	1. Remove note from the CDU delivery path.2. Clean CS2, CS4A and CS4B
4002100	CS1A sensor detects note in delivery path before/after CDU dispenses	1. Remove note from the CDU delivery path.2. Clean CS1A
4002200	CS1B sensor detects note in delivery path before/after CDU dispenses	1. Remove note from the CDU delivery path.2. Clean CS1B
4002300	CS1A or CS1B sensor detects note in delivery path before/after CDU dispenses	1. Remove note from the CDU delivery path.2. Clean CS1A and CS1B
4002800	CS13 sensor detects note in delivery path before/after CDU dispenses	1. Remove note from the CDU delivery path.2. Clean CS13
4002900	CS1A or CS13 sensor detects note in delivery path before/after CDU dispenses	1. Remove note from the CDU delivery path.2. Clean CS1A and CS13
4002A00	CS1B or CS13 sensor detects note in delivery path before/after CDU dispenses	1. Remove note from the CDU delivery path.2. Clean CS1B and CS13
4002B00	CS1A, CS1B or CS13 sensor detects note in delivery path before/after CDU dispenses	1. Remove note from the CDU delivery path.2. Clean CS1A, CS1B and CS13
4003000	Failed in checking the main motor echo	<ol> <li>Initialize</li> <li>Check Main Motor Encoder Slit</li> <li>Initialize after Power On/Off</li> <li>Check Encoder Sensor CS8 BRKT</li> <li>Check CS8 Sensor Cable</li> <li>Change Main Motor Encoder Slit Sensor CS8</li> </ol>
4003100	Failed in checking the reject gate solenoid echo	
4003200	Failed in checking the present gate solenoid echo	



Error Code	Description	Trouble shooting
4003300	Check sum error (No information is set)	<ol> <li>Check Cash Dispenser Information after reading Cash Dispenser version</li> <li>Initialize</li> <li>Initialize after executing Cash Dispenser Information Set('P') Command</li> <li>Change Cash Dispenser B/D</li> </ol>
4003400	Error of two sheets detecting sensor(CS5_1) for initializing	<ol> <li>Check CS5_1 Sensor Cable</li> <li>Check second Dip Switch in Cash Dispenser B/D</li> <li>Change CS5_1 Sensor</li> </ol>
4003600	Error of CS 2, CS13 sensor during initialization	1.Remove a jammed note in CS13 sensor. 2.Replace CS13 sensor.
4003700	Error of 2 sheets detecting sensor (CS5_1 / CS5_2) for dispensing	<ol> <li>Check Cash Dispenser Board Segment</li> <li>Initialize</li> <li>Read data of 'Read Double Sensor'</li> <li>Command</li> </ol>
4003800	Error in checking SRAM	
4003900	Gate operation sensor (CS3) error before initial recovery	<ol> <li>Initialize after removing notes or dust over Gate</li> <li>Check CS3 Sensor BKRT</li> <li>Check CS3 Sensor Cable</li> <li>Exchange Sensor after abnormal operating CS3 Gate detecting Sensor</li> <li>Replace Reject Solenoid 1</li> </ol>
4003A00	When more than 5 sheets of cash dispensing is required during a test	<ol> <li>Check command that Cash Dispenser is received</li> <li>Check Cash Dispenser EP ROM Version or specification</li> </ol>
4003B00	When CS15A or CS 15B sensor is detected as dark after initial recovery	<ol> <li>Remove notes or dust on CS15A Sensor</li> <li>Check CS15A Sensor Cable</li> <li>Exchange Sensor after abnormal operating CS15A Sensor</li> </ol>
4004000	Cassette is removed during dispensing	<ol> <li>Check the cassette catcher</li> <li>Set the cassette properly</li> </ol>
4004100	Error if re-driving is over 5 times during separated rejection	<ol> <li>Check notes in Reject Box</li> <li>Rearrange notes in Cassette</li> <li>Remove dust in CS15AB, CS31AB, CS41AB</li> <li>CS1AB Sensor</li> <li>Check dust existing in CS5 Sensor Guide</li> <li>Check dust existing in Main Motor Encoder Slit</li> <li>Check index value of notes each cassette</li> </ol>
4004200	In case the number of notes detected outlet sensor(CS13) is less than the number of required notes	<ol> <li>Check notes dispensed and rejected</li> <li>Remove notes jammed in CDU</li> <li>Remove dust in CS13 Sensor</li> <li>Exchange sensor after abnormal operating CS13 Sensor</li> </ol>



Error Code	Description	Trouble shooting
4004300	Error if total reject is more than 20 sheets	<ol> <li>Check notes in Reject Box</li> <li>Rearrange notes in Cassette</li> <li>Remove dust in CS1AB, CS15AB, CS31AB, CS41AB Sensor</li> <li>Check dust in existence CS5 Sensor Guide</li> <li>Check notes index value</li> </ol>
4004400	Error if continuous 5 times are rejected	<ol> <li>Check notes in Reject Box</li> <li>Rearrange notes in Cassette</li> <li>Check dust in Main Motor Encoder Slit</li> <li>Remove dust in CS15AB, CS31AB, CS1AB Sensor</li> <li>Exchange CS8 Encoder Slit Sensor</li> </ol>
4004500	In case the number of notes detected outlet sensor(CS13) is more than required notes	<ol> <li>Check notes dispensed and rejected</li> <li>Remove dust in CS13 Sensor</li> <li>Exchange sensor after abnormal operating CS13 Sensor</li> </ol>
4004600	Program error(Separated rejection)	<ol> <li>Initialize after Reset Power</li> <li>Upgrade Cash Dispenser Firmware or re- download</li> <li>Exchange Cash Dispenser B/D</li> </ol>
4004700	1 cassette mis-feed error (Separated rejection)	<ol> <li>Check notes in 1 Cassette</li> <li>Check Sensor(CS6) Poll</li> <li>Check jam in 1 cassette and reload</li> <li>Remove dust in CS1A, CS1B Sensor</li> <li>Exchange 1 cassette box when there are many error</li> </ol>
4004800	Error if the number of dispensed notes is not matched to the requested	1. Check CS13 sensor (note jam and dust) 2. Replace CS13 sensor
4004900	Error to dispense 0 sheets to be required (Separated rejection	<ol> <li>Check received command</li> <li>Check communication cable</li> <li>Check Cash Dispenser Firmware Version</li> </ol>
4004A00	Error of note jam (Separated rejection)	<ol> <li>Remove jammed notes on Cash Dispenser return path</li> <li>Remove dust in CS1~CS4 sensor</li> <li>Install after rearranging notes in cassette</li> </ol>
4004B00	Continuous 3 times error if note is long (once tried, twice retried)=>Separated rejection	<ol> <li>Check state of notes in reject box</li> <li>Rearrange notes in cassette</li> <li>Check Index of notes</li> <li>Check foreign objects in the main motor encoder slit</li> <li>Replace the CS8 encoder slit sensor</li> </ol>
4004C00	In case the number of notes detected outlet sensor(CS13) is more than that of notes detected on CS1A,B sensor	1. Check CS1 sensor 2. Reconnect CS1 sensor
4004D00	Error of being removed 1st cassette before separate rejection	<ol> <li>Set cassette #1 correctly</li> <li>Check the catcher inside cassette #1 guide</li> </ol>
4004E00	Error of being removed 2nd cassette before separate rejection	<ol> <li>Set cassette #2 correctly</li> <li>Check the catcher inside cassette #2 guide</li> </ol>



Error Code	Description	Trouble shooting
4005100	Received a request for over 150 notes dispensing on the Cash Dispenser from the upper unit.	<ol> <li>Check the Cash Dispenser received command</li> <li>Check the abnormal communication cable.</li> <li>Check the Cash Dispenser firmwave version and refer to specifications.</li> </ol>
4005200	The remaining notes at the sensor in front of the CST after dispense operation (CS1A, CS1B)	<ol> <li>Remove the remaining notes at a sensor in front of the CST</li> <li>Realign notes in the cassette</li> <li>Check abnormal clutch.</li> <li>Check abrasion of the cassette box pick unit.</li> </ol>
4005300	Error for the double note detection during separation.	
4005400	Cash Dispenser EP Program Error during dispense operation (failed table search)	<ol> <li>Initialize after resetting the power</li> <li>Upgrade the Cash Dispenser firmware or download software again</li> <li>Replace the Cash Dispenser B/D</li> </ol>
4005500	Timeout due to note's length error passed through the CS13 during dispense operation	<ol> <li>Remove a jammed note between the tray and Cash Dispenser</li> <li>Remove a jammed note at the position of the CS13 sensor</li> <li>Remove a dust on the CS13 sensor</li> </ol>
4005600	Abnormal operation of the gate solenoid during dispense operation.	<ol> <li>Remove a jammed note on the gate</li> <li>Remove notes in the reject box and remount the reject box</li> <li>Check if the CS3 sensor bracket is bended.</li> <li>Check if the CS3 sensor cable is disconnected (CN10 #9~10)</li> <li>Exchange a sensor after abnormal operating CS3 Gate detecting sensor.</li> <li>Replace the reject solenoid 1</li> </ol>
4005700	Cash dispenser configuration error	<ol> <li>Replace cash dispenser PCB</li> <li>Reconfigure cash dispenser setup data</li> </ol>
4005800	Retract box position error during command reserved operation	<ol> <li>Mount the retract box or open the box cover</li> <li>Check if CS62 sensor poll is abnormal</li> <li>Check if the CS62 sensor cable is disconnected (Cash Dispenser Board CN10 #5~2).</li> </ol>
4005900	Initial jam time error	<ol> <li>Remove jammed notes</li> <li>Clean the sensors (CS1~CS15) in cash dispenser</li> </ol>
4005B00	2 Cassette Miss Feed Error (Fail to reject bill separately.)	
4005D00	Continuously detected 2 notes for three times or more during dispense operation	<ol> <li>Check notes' status in the reject box</li> <li>Realign notes in the cassette</li> <li>Check foreign objects at the position of the CS5 Sensor Guide</li> <li>Check if the CS5 cable is disconnected</li> <li>(CS5_1:Cash Dispenser B/D CN10 #11~12, 25~28/ CS5_2:CN12)</li> </ol>



Error Code	Description	Trouble shooting
4006000	Something is detected in C31AB sensor before dispensing bills from 3rd cassette.	
4006100	Something is detected in C31AB sensor before dispensing bills.	
4006200	Bills are remained in CS1AB sensor after dispensing bills.	
4006300	Bills are remained in CS31AB sensor after dispensing bills	
4006A00	CS15AB ~ CS13 Time out(Jam) during dispensing bills from second cassette.	
4006B00	Something is detected on CS31A, CS31B sensor during initialization	
4007000	Something is detected on CS41AB sensor before dispensing bills from fourth cassette.	
4007200	Something is detected on CS41AB sensor during dispensing bills.	
4007300	Bills is remained in CS41AB sensor after dispensing bills.	
4007A00	CS31AB ~ CS13 Time out (Jam) during dispensing bills from fourth cassette.	
4007B00	Something is detected on CS41A, CS41B sensor in initialization	
4007C00	Missfeed error in 4th cassette	
4007D00	Trying to dispense bills from 4th cassette but the 4th cassette doesn't installed.	
4008000	Something is detected on CS15AB sensor before dispensing operation	
4008100	Something is detected in C15AB sensor during dispensing operation	
4008200	Bill is remained in CS15AB sensor after dispensing operation	



Error Code	Description	Trouble shooting
4008F00	CS13 sensor detects a bill with hole during dispensing	
4009A00	CS31AB~CS13 Time out(Jam) during dispensing from 3rd cassette.	
4009D00	Trying to dispense bills from 3rd cassette but the 3rd cassette doesn't installed.	
4009F00	3 cassette miss feed error	
400AC00	Something is detected on CS2 sensor after dispense operation	
400BC00	Communication error - Command Length doesn't match.	
400BE00	Bill pickup sensor(CS1, CS15) recognized has a hole and CS4 sensor detects it or CS4 snesor detects the gap too close	
400C100	Cassette Jam during dispense operation (1 CST Encoder Error).	1.Remove a jammed note in 1 Cassette. 2.Replace 1 cassette box when multiple errors occur.
400C200	Cassette Jam during dispense operation (2 CST Encoder Error).	1.Remove a jammed note in 2 Cassette. 2.Replace 2 cassette box when multiple errors occur.
400C300	Cassette Jam during dispense operation (3 CST Encoder Error).	1.Remove a jammed note in 3 Cassette. 2.Replace 3 cassette box when multiple errors occur.
400C400	Cassette Jam during dispense operation (4 CST Encoder Error).	1.Remove a jammed note in 4 Cassette. 2.Replace 4 cassette box when multiple errors occur.
400C600	Error of CS 2, CS13 sensor during initialization	1.Remove a jammed note in CS13 sensor. 2.Replace CS13 sensor.



Error Code	Description	Trouble shooting
400C700	Something is detected on CS12 sensor during dispensing bills or initialization.	
400C800	Something is detected on CS14 sensor during dispensing bills or initialization.	
400C900	Something is detected on CS14 sensor after dispense operation	
400CC00	Bill is remained on the sensor in front of cassette during resetting.	
400D000	Bills are passed on CS13~CS12 sensor - Timeout[Jam],	
400D100	Bills are passed on CS12~CS14 sensor - Timeout[Jam],	
400FF00	Bill jam	<ol> <li>Remove the jammed notes</li> <li>Initialize</li> </ol>
4DN0000	Cash Dispenser communication failure during sending command to cash dispenser	1. Do RESET at Operator Function 2. Reboot ATM
4DN0100	Cash Dispenser communication failure during receiving command to cash dispenser	1. Do RESET at Operator Function 2. Reboot ATM
4DN8100	Communication error of Shutter	
8216091	Cash jammed on Cash Dispenser	<ol> <li>Remove jammed notes on Cash Dispenser return path</li> <li>Remove dust in CS1~CS4 sensor</li> </ol>
9712000	Failed to create file	<ol> <li>Reboot ATM</li> <li>Reinstall software</li> <li>Replace hard disk drive</li> </ol>
9712100	Failed to read file	<ol> <li>Reboot ATM</li> <li>Reinstall software</li> <li>Replace hard disk drive</li> </ol>
9712200	Failed to write file	<ol> <li>Reboot ATM</li> <li>Reinstall software</li> <li>Replace hard disk drive</li> </ol>
9712300	Failed to close file	<ol> <li>Reboot ATM</li> <li>Reinstall software</li> <li>Replace hard disk drive</li> </ol>
9712400	Failed to delete file	<ol> <li>Reboot ATM</li> <li>Reinstall software</li> <li>Replace hard disk drive</li> </ol>
9712500	Failed to copy file	<ol> <li>Reboot ATM</li> <li>Reinstall software</li> <li>Replace hard disk drive</li> </ol>



Error Code	Description	Trouble shooting
9712600	Failed to create directory	<ol> <li>Reboot ATM</li> <li>Reinstall software</li> <li>Replace hard disk drive</li> </ol>
9719000	Failed to execute an extra command in the status of Cash Unit Exchange	<ol> <li>Reboot ATM</li> <li>Reinstall software</li> <li>Replace hard disk drive</li> </ol>
9719100	In case of not being the status of Cash Unit Exchange out of End Exchange	<ol> <li>Reboot ATM</li> <li>Reinstall software</li> <li>Replace hard disk drive</li> </ol>
9719200	In case of carrying out Cash In Start command at two times	<ol> <li>Reboot ATM</li> <li>Reinstall software</li> <li>Replace hard disk drive</li> </ol>
9719300	In case of not being the status of Cash In out of End Cash In	<ol> <li>Reboot ATM</li> <li>Reinstall software</li> <li>Replace hard disk drive</li> </ol>
9719400	Invalid Cash Unit ID	Reconfigure cash dispenser setup data
9719500	Invalid Cash Unit number	Reconfigure cash dispenser setup data
9719600	The abnormal of the number of Cash Unit	Reconfigure cash dispenser setup data
9719700	No. of dispensed notes that software counts is not matched to it cash dispenser responded	<ol> <li>Initialize after resetting the power</li> <li>Upgrade the Cash Dispenser firmware or download software again</li> <li>Replace the Cash Dispenser B/D</li> </ol>
971A000	Invalid denomination	Reconfigure denomination at supervisor mode
971A100	Invalid currency	Reconfigure currency at supervisor mode
971A200	CASSETTE OFF POSITION". Not dispensable	<ol> <li>Reconfigure denomination</li> <li>Reconfigure currency</li> </ol>
971A300	In case the number of bills dispensed exceeds the maximum dispensing bill	<ol> <li>Check cash dispenser driver (CDM SP) version</li> <li>Reconfigure the maximum dispensable count</li> </ol>
971A400	In case the number of coins dispensed exceeds the maximum dispensing coin	<ol> <li>Check coin dispenser driver version</li> <li>Reconfigure the maximum dispensable count</li> </ol>
971A500	Invalid mix number	1. Reconfigure cash dispenser at supervisor mode
971A600	In case automatic Retry of SP fails 3 times	
971A700	There is no setting information about automatic Retry standard	
971B000	In case of being executed Reject or Retract command without being the bills in stacker.	<ol> <li>Check a dust in stacker</li> <li>Reconfigure the maximum dispensable count</li> </ol>
971C000	Not supported command	Reinstall software



Error Code	Description	Trouble shooting
971D100	Partial dispense	<ol> <li>Check the replenished amount and replenish</li> <li>Check the notes in cassette #1</li> </ol>
971D200	Partial dispense from cassette #2	<ol> <li>Check the replenished amount and replenish</li> <li>Check the notes in cassette #2</li> </ol>
971D300	Partial dispense from cassette #3	<ol> <li>Check the replenished amount and replenish</li> <li>Check the notes in cassette #3</li> </ol>
971DX00	In case partial bills dispensed by dispensing demand when Partial Dispense option is on.	
9740000	Cash Dispenser communication failure during COM port open	1. Do RESET at Operator Function 2. Reboot ATM
9740101	In case incorrect cassette type is set.	
9740102	In case nonexistent Note Index is set.	
9741100	When sensing CS2 Dark (Error code, 400FF00 is subdivided by location of sensor.)	
9741400	When sensing CS4A Dark (Error code, 400FF00 is subdivided by location of sensor.)	
9741800	When sensing CS4B Dark (Error code, 400FF00 is subdivided by location of sensor.)	
9742100	When sensing CS21A,B Dark (Error code, 400FF00 is subdivided by location of sensor.)	
9742800	When sensing CS13 Dark (Error code, 400FF00 is subdivided by location of sensor.)	
9743B00	When sensing CS15A,B Dark (Error code, 400FF00 is subdivided by location of sensor.)	
9744700	Cash picking-up fail while cash in cassette #1 is enough	<ol> <li>Check bill jam or no note in cassette #1</li> <li>Check cash dispenser</li> </ol>
9745B00	Cash picking-up fail while cash in cassette #2 is enough	<ol> <li>Check bill jam or no note in cassette #2</li> <li>Check cash dispenser</li> </ol>
9746B00	When sensing CS31A,B Dark (Error code, 400FF00 is subdivided by location of sensor.)	



Error Code	Description	Trouble shooting
9747B00	When sensing CS41A, B Dark (Error code, 400FF00 is subdivided by location of sensor.)	
9747C00	Cash picking-up fail while cash in cassette #4 is enough	<ol> <li>Check bill jam or no note in cassette #2</li> <li>Check cash dispenser</li> </ol>
974FF00	When sensing bills in the Stacker (Error code, 400FF00 is subdivided by location of sensor.)	
9749F00	Cash picking-up fail while cash in cassette #3 is enough	<ol> <li>Check bill jam or no note in cassette #2</li> <li>Check cash dispenser</li> </ol>
97914XX	DEV_Cash Dispenser Time over Error Code	1. Reboot ATM 2. Call your attendant
97924XX	DEV_Cash Dispenser FATAL ERROR (WARNING)	1. Reboot ATM 2. Call your attendant
9799499	DISPENSER COUNT ERROR	Check the sensor on cash dispenser
C004F00	The Number of dispensed notes does not match	<ol> <li>Check the number of dispensed notes.</li> <li>Perform a test on the Cash Dispenser Unit.</li> </ol>



### D.5 Modem

Error Code	Description	Trouble shooting
D030000	Modem is not responding	Check the modem controller.
D030100	The target call address has call blocking enabled.	<ol> <li>Check modem cable</li> <li>Contact to technician support team</li> </ol>
D030200	The specified terminal identifier is invalid.	1. Check modem cable 2. Contact to technician support team
D030300	All call appearances on the specified address are currently in use.	1. Check modem cable 2. Contact to technician support team
D030400	The disable address parameter contains dialing control characters that are not processed by the service provider.	<ol> <li>Check modem cable</li> <li>Contact to technician support team</li> </ol>
D030500	The specified country/region code is invalid.	<ol> <li>Check modem cable</li> <li>Contact to host and phone company</li> </ol>
D030600	The operation failed for an unspecified or unknown reason.	Contact to technician support team
D030700	Insufficient resources to complete the operation	Contact to technician support team



### D.6 Miscellaneous

Error Code	Description	Trouble shooting
1030100	DEV_PIN (Key data error from host)	Contact to host
2000400	Vault door open	Close the vault door. Check door switch.
9701010	Failed to connect communication between SP of PIN and EP of one	Check if communication cable or COM port is not connected
9701012	Failed to deliver to data of EPP's SP	Check if communication cable or COM port is not connected
9701016	Received data time out of EPP	Check if communication cable or COM port is not connected
9701017	Delivered data time out of EPP	Check if communication cable or COM port is not connected
9701031	Failed to read Register of EPP	Reboot ATM
9701040	Failed to produce Thread of EPP	Reboot ATM
9701060	Failed to create buffer	Reboot ATM
9701111	BCC error of EPP	Check BCC logic of EPP
9701151	EPP is down when it receives an 'Get Status' command	1. Reboot ATM 2. Replace pinpad
9701152	EPP is down when it receives an 'Clear Func Key' command	1. Reboot ATM 2. Replace pinpad
9722020	File Open Error	1. Reboot ATM 2. Call your attendant
9722060	Memory Allocate Error (PrintForm Allocate IndexBuffer Fail)	1. Reboot ATM 2. Call your attendant
9722068	Invalid Media Name	1. Reboot ATM 2. Call your attendant
97221A2	Invalid Unit	1. Reboot ATM 2. Call your attendant
97221C1	Form is not Found	1. Reboot ATM 2. Call your attendant
97221C4	Form Name is NULL	1. Reboot ATM 2. Call your attendant
97221C5	Invalid Form	1. Reboot ATM 2. Call your attendant



Error Code	Description	Trouble shooting
97221C6	PrintForm() offset is Invalid	1. Reboot ATM 2. Call your attendant
97221C7	Invalid Form (Too many Fields)	1. Reboot ATM 2. Call your attendant
97221D1	Media is not Found	1. Reboot ATM 2. Call your attendant
97221D3	Media Overflow when form size is larger than media size	1. Reboot ATM 2. Call your attendant
97221D4	Media Name is NULL	1. Reboot ATM 2. Call your attendant
97221D5	Invalid Media (Attribute for Media definition is not proper)	1. Reboot ATM 2. Call your attendant
97221D6	Invalid Media (Area size is larger than media size)	1. Reboot ATM 2. Call your attendant
97221D7	Invalid Media (Size of Media Name is exceeded to 2048 bytes totally)	1. Reboot ATM 2. Call your attendant
97221E1	Field is not Found	1. Reboot ATM 2. Call your attendant
97221E2	Field Error (This Field must have initial value)	1. Reboot ATM 2. Call your attendant
97221E3	Non-Indexed value for Indexed Field	1. Reboot ATM 2. Call your attendant
97221E4	Invalid Field	1. Reboot ATM 2. Call your attendant
97221E5	Invalid Field (This Field's width is 0)	1. Reboot ATM 2. Call your attendant
9740020	Failed to create file	1. Reboot ATM 2. Call your attendant
9740025	Failed to copy file	1. Reboot ATM 2. Call your attendant
9745500	System power off while dispensing	



Error Code	Description	Trouble shooting
97915XX	DEV_BRM Time over Error Code	1. Reboot ATM 2. Call your attendant
97916XX	DEV_PBM Time over Error Code	1. Reboot ATM 2. Call your attendant
97918XX	DEV_PIN Time over Error Code	1. Reboot ATM 2. Call your attendant
9791AXX	DEV_FNG Time over Error Code	1. Reboot ATM 2. Call your attendant
9791BXX	DEV_VFD Time over Error Code	1. Reboot ATM 2. Call your attendant
97925XX	DEV_BRM FATALERROR (WARNING)	1. Reboot ATM 2. Call your attendant
97926XX	DEV_PBM FATALERROR (WARNING)	1. Reboot ATM 2. Call your attendant
97928XX	DEV_PIN FATALERROR (WARNING)	1. Reboot ATM 2. Call your attendant
9792AXX	DEV_FNG FATALERROR (WARNING)	1. Reboot ATM 2. Call your attendant
9792BXX	DEV_VFD FATALERROR (WARNING)	1. Reboot ATM 2. Call your attendant
9799901	DOOR CHECK	1. Reboot ATM 2. Call your attendant
9799902	LIGHT ERROR	1. Reboot ATM 2. Call your attendant
9799903	SPL ERROR	1. Reboot ATM 2. Call your attendant
9799904	PIN ERROR	1. Reboot ATM 2. Call your attendant
9799905	SENSOR CHECK	1. Reboot ATM 2. Call your attendant
9799907	UPS ERROR	1. Reboot ATM 2. Call your attendant



Error Code	Description	Trouble shooting
9799908	SCREEN ERROR	1. Reboot ATM 2. Call your attendant
991@@91	ON TRANSACTION POWER OFF	1. Check power supply 2. Check backup battery
D000100	Error while modem initializing	Check the modem connection and the modem test.
D000200	Reversal transaction failure	Check for any CDU error codes and the number of notes dispensed to customer.
D000300	PIN ERROR	Transaction was denied by host
D000400	INVALID PIN	Reboot ATM
D000500	BANK UNAVAILABLE	Transaction was denied by host
D000600	CARD NOT SUPPORTED	Transaction was denied by host
D000700	INSUFFICIENT FUNDS	Transaction was denied by host
D000800	INELIGIBLE TRANSACTION	Transaction was denied by host
D000900	INELIGIBLE ACCOUNT	Transaction was denied by host
D001000	DAILY LIMIT EXCEEDED	Transaction was denied by host
D001100	UNABLE TO PROCESS	Transaction was denied by host
D001200	Invalid transaction	Check the transaction from the host and try again.
D001300	Invalid amount	Check the transaction from the host and try again.
D001400	Invalid card number	Check the transaction from the host and try again.
D001500	UNABLE TO PROCESS	Transaction was denied by host
D001600	WITHDRAWAL LIMIT ALREADY REACHED	Transaction was denied by host
D001700	INVALID AMOUNT	Transaction was denied by host
D001800	EXTERNAL DECLINE	Transaction was denied by host



Error Code	Description	Trouble shooting
D001900	SYSTEM ERROR	Transaction was denied by host
D002000	Surcharge screen should have been displayed	Check the transaction from the host and try again. Check BIN List
D002100	ROUTING LOOKUP PROBLEM	Transaction was denied by host
D002200	UNABLE TO PROCESS	Transaction was denied by host
D002300	TRANSACTION NOT SUPPORTED	Transaction was denied by host
D002400	Exceeds Issuer Withdrawal Limit	Check the transaction from the host and try again.
D003900	No Credit Account	Check the transaction from the host and try again.
D005100	Insufficient Funds	Check the transaction from the host and try again. Try Balance Inquiry
D005200	No Checking Account	Check the transaction from the host and try again.
D005300	No Savings Account	Check the transaction from the host and try again.
D005400	Expire Card	Check the transaction from the host and try again.
D005500	Incorrect Pin	Check the transaction from the host and try again.
D005700	Transaction not Permitted – Card	Check the transaction from the host and try again.
D005800	Transaction not Permitted – Terminal	Check the transaction from the host and try again.
D006100	Exceeds Withdrawal Limit	Check the transaction from the host and try again.
D007500	PIN Tries Exceeded	Check the transaction from the host and try again.
D007800	No Account	Check the transaction from the host and try again.
D008000	Invalid Date	Check the transaction from the host and try again.



Error Code	Description	Trouble shooting
D008300	Can not Verify PIN	Check the transaction from the host and try again. Try different cards.
D008600	Can not Verify PIN	Check the transaction from the host and try again. Try different cards.
D009100	Bank Unavailable	Check the transaction from the host and try again.
D009200	System Unavailable	Check the transaction from the host and try again.
D009300	Transaction Serial Number mismatch	Check the terminal setting from the host.
D009400	Record format mismatch.	Check the terminal setting from the host.
D009500	Routing ID mismatch.	Check the terminal setting from the host.
D009600	Terminal ID mismatch.	Check the terminal setting from the host.
D009700	Response Type mismatch (Reversal)	Check the terminal setting from the host.
D009800	Response Type mismatch (Day Close)	Check the terminal setting from the host.
D009900	Response Type mismatch (Config.)	Check the terminal setting from the host.
D009A00	Response Type mismatch (Withdrawal/Balance/Transfer)	Check the terminal setting from the host.
D009B00	STX error	Check the terminal setting from the host.
D009C00	ETX error	Check the terminal setting from the host.
D009D00	FS out (after response code)	Check the terminal setting from the host.
D009E00	FS out (after retrieval reference number)	Check the terminal setting from the host.
D009F00	FS out (after system trace audit number)	Check the terminal setting from the host.
D00A000	FS out (after account balance)	Check the terminal setting from the host.



Error Code	Description	Trouble shooting
D00A100	FS out (after available balance)	Check the terminal setting from the host.
D00A200	FS out (after surcharge amount)	Check the terminal setting from the host.
D00A300	FS out (after authorization response text)	Check the terminal setting from the host.
D00A400	ETX wrong position	Check the terminal setting from the host.
D00A500	FS out (after total cash dispense amount)	Check the terminal setting from the host.
D00A600	FS out (after total non-cash dispense amount)	Check the terminal setting from the host.
D00A700	FS out (after total surcharge amount)	Check the terminal setting from the host.
D00A800	FS out (after config surcharge amount)	Check the terminal setting from the host.
D00A900	ETX out (config)	Check the terminal setting from the host.
D00AC00	Invalid data received from the host (MAC data mismatch)	Check the terminal setting from the host.
D00B000	TERMINAL ID MISMATCHED	
D00B100	TRANSACTION CODE MISMATCHED	
D00B200	SECOND FIELD ID CODE MISMATCHED	
D00B300	FIRST DES KEY WRONG SIZE	
D00B400	SURCHARGE AMOUNT WRONG SIZE	
D00B500	Sequence Number MISMATCHED	
D00B600	INVALID RESPONSE CODE ERROR	
D00B700	Authorization Number Error	
D00B800	BUSINESS DATE Error	
D00B900	Transaction time Number Error	
D00BA00	BUSINESS DATE Error	



Error Code	Description	Trouble shooting
D00BB00	Balance amount Error	
D00BC00	Actual Surcharge Error	
D00BD00	Sequence Number MISMATCHED	
D00BF00	BUSINESS DATE Error	
D00C000	Settlement Error	
D00C100	Host Mac result error	Check the key mode and MAC value
D00C200	ATM Mac result error	Check the key mode and MAC value
D011100	REVERSAL DECLINED	
D022200	PIN CHANGE DECLINED	
D100000	No connection	<ol> <li>Check phone number</li> <li>Check modem cable</li> <li>Contact phone company</li> </ol>
D110000	Cannot receive ENQ from the host	<ol> <li>Check phone number</li> <li>Check modem cable</li> <li>Contact telephone company</li> </ol>
D120000	Transmission error : Failed to receive the whole data within 5 seconds after requesting the modem to send the data.	<ol> <li>Check modem and modem cable connection</li> <li>Contact telephone company</li> </ol>
D130000	Receiving NAK more than 3 times	<ol> <li>Check modem and modem cable connection</li> <li>Contact telephone company</li> </ol>
D140100	Disconnected by Unknown Reason	<ol> <li>Check modem and modem cable connection</li> <li>Contact telephone company</li> </ol>
D140200	Disconnected by rejected call from remote party	Try again later.
D140300	Disconnected because the local phone was picked up	Try again later.
D140400	Disconnected by Forwarded	<ol> <li>Check modem and modem cable connection</li> <li>Contact telephone company</li> </ol>
D140500	Disconnected by Unreachable	<ol> <li>Check modem and modem cable connection</li> <li>Contact telephone company</li> </ol>



Error Code	Description	Trouble shooting
D140600	Disconnected by Congestion	<ol> <li>Check modem and modem cable connection</li> <li>Contact telephone company</li> </ol>
D140700	Disconnected by Incompatible	<ol> <li>Check modem and modem cable connection</li> <li>Contact telephone company</li> </ol>
D140800	Disconnected by un-known reason	<ol> <li>Check modem and modem cable connection</li> <li>Contact telephone company</li> </ol>
D140900	Disconnected by Bad Address	<ol> <li>Check modem and modem cable connection</li> <li>Contact telephone company</li> </ol>
D141000	Disconnected by Unavailable	<ol> <li>Check modem and modem cable connection</li> <li>Contact telephone company</li> </ol>
D150000	<ol> <li>Modem dial connection time-out (while dialing the modem).</li> <li>No response from host for 60 seconds.</li> </ol>	<ol> <li>Check modem and modem cable connection</li> <li>Contact telephone company</li> </ol>
D160100	Disconnected by Bad Address	<ol> <li>Check modem and modem cable connection</li> <li>Contact telephone company</li> </ol>
D160200	Disconnected by Unavailable	<ol> <li>Check modem and modem cable connection</li> <li>Contact telephone company</li> </ol>
D160300	Disconnected by Out of Order	<ol> <li>Check modem and modem cable connection</li> <li>Contact telephone company</li> </ol>
D170000	No carrier (while sending/receiving data after dial connection)	Check host.
D170100	No Carrier during ENQ data receive from host	Check host.
D170200	No Carrier before sending data send to host	Check host.
D170300	No Carrier during sending data send to host	Check host.
D170400	No Carrier during ACK/NAK data send to host	Check host.
D170500	No Carrier during ACK/NAK data receive from host	Check host.
D170600	No Carrier during receiving data	Check host.



Error Code	Description	Trouble shooting
D170700	NAK retry error.	<ol> <li>Check modem and modem cable connection</li> <li>Contact telephone company</li> </ol>
D170800	Send retry error	<ol> <li>Check modem and modem cable connection</li> <li>Contact telephone company</li> </ol>
D170900	Modem initialize fail	Check modem
D171000	Modem Comport Failed	Check modem
D180000	No Dial Tone(in Modem dial connection)	Check telephone line connection. Test Modem.
D190000	No Answer	Contact telephone company (Check telephone line connection. Check phone number.)
D200000	Dial(Line) busy	Try again later. Check phone number.
D210000	Time out(30sec.) for initializing modem before Modem Dial connecting	Check telephone line connection. Test Modem.
D220000	not receiving EOT from HOST	Check telephone line connection. Test Modem. Check host.
D230000	No response from Host - Dialing time out to Host	Check telephone line connection. Test Modem. Check phone number.
D250000	Cannot connect to the host	Check telephone line connection
D251000	Timeout while Sending	Check telephone line connection
D251100	Communication error while Sending	Check telephone line connection
D251200	Socket error while Sending	Check telephone line connection
D251300	Timeout while Receiving	Check telephone line connection
D251400	Communication error while Receiving	Check telephone line connection
D251500	Socket Error while Receiving	Check telephone line connection
D320000	No response from Host/Dialing time out to Host	Check telephone line connection
D320100	Outbound call is aborted	Check telephone line connection. Test Modem.
D320200	Fail to dial out	Check telephone line connection. Test Modem.
D320300	No Line Reply	



Error Code	Description	Trouble shooting
D320400	Get Line ID Failed	
D320500	Modem Comport Failed	
D320600	Call Failed	
D320700	No Answer	
D320800	Modem Call Other Error	
D410000	CRC Mismatch	Check telephone line connection
D410100	No CRC Received	Make sure that the host is using CRC
DA0xxx0	Host Denial Error	Refer to E7. Description for error code organization
F000100	Number of Bill is not inputted	Enter number of bill. (required)
F000200	Parameter is not properly set (Surcharge Owner)	Enter surcharge owner. (required)
F000300	Parameter is not properly set (Surcharge Amount)	Enter surcharge amount. (required)
F000400	Parameter is not properly set (Adver. Text refreshing timer)	Enter Ad text refresh timer.
F000500	Parameter is not properly set (Advertisement text)	Enter Ad text.
F000600	Parameter is not properly set (Dispense limit)	Enter Dispense limit.
F000700	Parameter is not properly set (Denomination)	Enter Denomination. (required)
F000800	Parameter is not properly set (Fast Cash)	Enter Fast Cash amount.
F000900	Master Key Index invalid	Check Master key index.
F000A00	Master Key empty	Enter Master key. (required)
F000B00	Host Phone Number is not inputted	Enter Host phone number. (required)
F000C00	Error Retry Timer is not inputted	Enter Retry timer.
F000D00	RMS Password is not inputted in RMS Enable	Enter RMS password.



Error Code	Description	Trouble shooting	
F000E00	RMS Phone Number is not inputted in RMS Enable	Enter RMS phone number.	
F000F00	Terminal Number is not inputted	Enter Terminal number. (required)	
F001000	Routing ID is not inputted	Enter Routing ID. (required)	
F001100	Master Key Serial Number is not inputted	Enter Master key serial number.	
F001200	Non-Cash Type text is not inputted	Enter Non-cash type text.	
F001300	Parameter is not properly set	Check proper parameters in setting.	
F001400	NVRAM Failure	Try to clear NVRAM	
F001500	ATM Serial No. Empty	Enter ATM serial number. (required)	
F001600	Default master password was not changed		
F001F00	Machine serial number is not set	Check serial number. 2. Set serial number.	
F002F00	Host type is not set	Check host type. 2. Set host type.	
F003F00	Communication ID invalid (only triton)	Contact to technician support team .	
F004F00	EPP(Pinpad) key mode is invalid	<ol> <li>Check modem cable</li> <li>Contact to technician support team</li> </ol>	
F005F00	Denomination is invalid	<ol> <li>Check modem cable</li> <li>Contact to technician support team</li> </ol>	
F006F00	Failed Host Connection!	<ol> <li>Check Host Connection.</li> <li>Contact to technician support team.</li> </ol>	
F007F00	Invalid Exchange Rate	Download the exchange rate from RMS	
F00FF00	Failed to write Journal	1.Back up journal to thumb drive 2.Clear journal 3.Reboot ATM	
FFFFFF	NVRAM is broken	1. Reset Master Password 2. Clear NVRAM	



Error Code	Description	Trouble shooting
POWERAB	UPS ABNORMAL	Check UPS
POWERAC	POWER OUT OR AC OFF	Check AC power status and environment
POWERBA		<ol> <li>Check AC power status and environment</li> <li>Check UPS</li> </ol>
SDN0100	Service Panel (SPL) communication error	Check the cables and connections.



## D.7 Description for error code organization

If an error occurs, you can understand cause of error through error code and help operator to judge situation. Below example is forms and contents for error code "5-40047(00)".

- 1. 5 in front "-" is procedure number, and you can analysis the procedure that an error occurs through that number.
- 1) Procedure number, the number in front of "-", is none as follow situations :
  - (1) Reboot the system when errors occur:
  - (2) Fail to restore automatically when errors occur:
  - (3) When transferring from Operator Mode to Transaction Mode not ruling out the error.
- 2) "1" After users insert the card, procedure number is 1.
- 3) "3" When sending message from ATM to Host, procedure number is 3.
- 4) "5" When receiving transaction success message from Host, procedure number is 5.
- 5) "6" After confirming notes during withdrawal, procedure number is 6.
- 6) "9" When receiving transaction refusal message from Host, procedure number is 9.
- 2. "40047(00)" back of "-" is a description for an error. (Refer to Error Code)
- 3. If an error occurs, below message will be displayed on the screen.

#### HOST DENIAL ERROR CODE

1. When receiving HOST DENY message, below error code will be displayed on the screen.

TERMINAL ID : XXXXXXXXXXXXXXXXXX

ERROR CODE : 9-DA0XX(X0)

ERROR DESCRIPTION

-When HOST DENY ERROR CODE is 2 byte, DA0XX(00) will be displayed.

(Value of XX means denial code.)

- When HOST DENIAL ERROR CODE is 3 bytes, DA0XX(X0) will be displayed.

(Value of XXX means denial code.)



# E. Installation Guide

## E.1 Installation Requirements and Necessary Tools

• Installation condition and space

Following conditions should be met before installing equipment.

- 1) Temperature while operating should be between 41°F 104°F
- 2) Relative humidity while operating should be between 25% < RH < 85%, Non-Condensed
- 3) Avoid locations where intense direct light is reflected off the LCD screen.
- 4) Avoid locations where strong static electricity can occur.
- 5) Avoid placing the product next to equipment that produces electromagnetic waves. It could interfere with data transfer.
- 6) The floor must allow easy wheelchair access from the front or the side.
- 7) Space required for servicing the machine should be considered before installation.



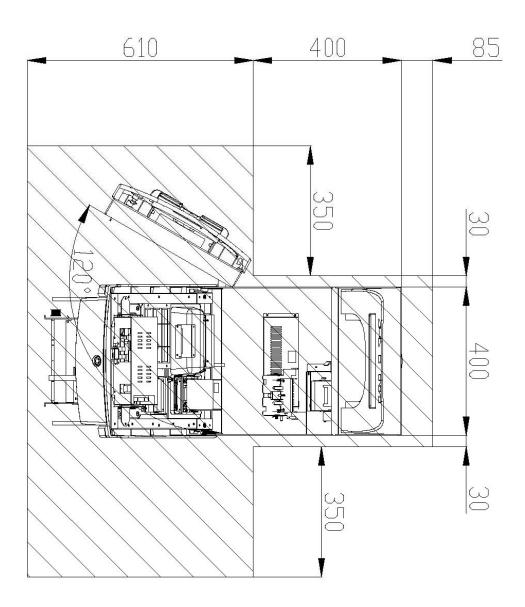


Fig. 6. 4 Installation space #1 (Plane view)



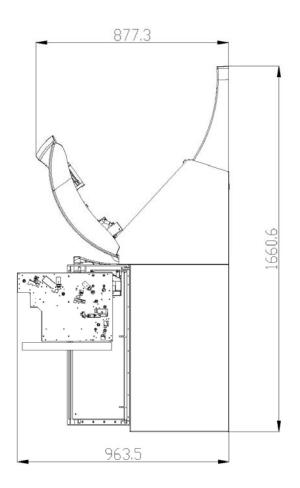


Fig. 6. 5 Installation space #2 (Side view)

• Tools required for installation

In order to move the machine and place it in a proper location, you should seek the help of professionals trained in moving heavy equipment.

Following tools are needed to install the machine.

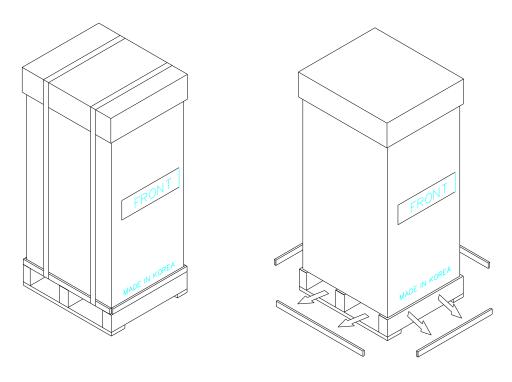
- Wire cutter
- Lifter
- Screw driver (Flat, Phillips)
- Wrench (Spanner)
- Leveling tool



# E.2 How to Install this ATM at Customer Site

## • Unpacking

- 1) Unpack the machine on top of the palette.
- 2) Cut the straps that are fastened around the box with a knife. (refer to Fig. 6.6) (Be careful when cutting the straps.)
- 3) Use an appropriate tool to remove the nails from the palette. (refer to Fig. 6.7)
- 4) Remove the lid, then box from the top. Do not discard the packaging materials until you have verified any shipping damage claim. Contact your distributor immediately if you see any shipping damage. Store the box in a safe place to re-use or discard of appropriately.
- 5) Verify the contents carefully with the packing list to be sure all items listed are included. Notify your distributor of any shortages.
- 6) If only the palette needs to be removed, lift the whole machine from the bottom and set it aside.









## • Physical Installation

To install NH 1800CE ATM, perform the following steps.

 Place the "Anchor bolts locate sheet" at the place where the machine is to be installed. (refer to Fig. 6.8)

Place the system on a flat surface. Be careful when opening the top or bottom of the machine so it can be off balance

- 2) Place the Anchor nuts into the ground according to the anchor bolts locate sheet.(4 places)
- 3) Place NH 1800CE ATM on top of the sheet.
- 4) Open the Security cover with the key provided.
- Using the supplied combination (factory preset at 50-25-50) open the Security Door. This combination should be changed as soon as possible. Refer to Chapter 5 for instructions on changing the lock combination.
- 6) After the anchor nuts are in place according to the anchor holes on the bottom of NH 1800CE ATM, tighten the anchor bolts tightly. (refer to 6.8)



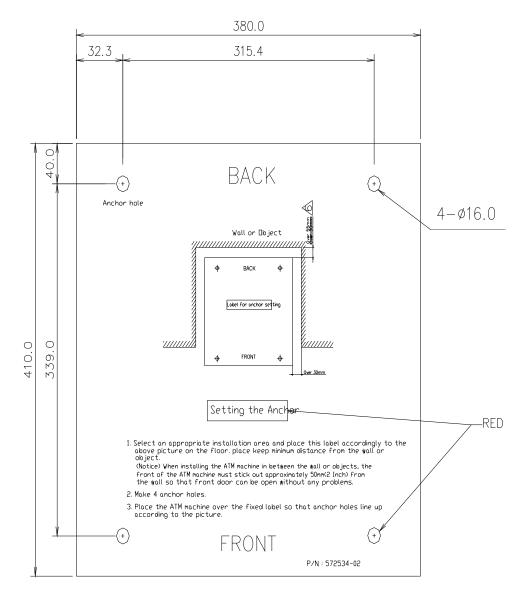


Fig. 6. 8 Anchor diagram of NH 1800CE ATM



# Hardware Installation

- 1) Verify the power voltage (110/220V) to be used and set the appropriate voltage on the power supply.
- Verify that the telephone line to be used for the ATM is in proper working order. Hyosung recommends the use of shielded phone line in locations with close proximity to other appliances. (For Dial-up)
- 3) Open the security door and remove any shipping materials and note any warning or installation instructions.
- 4) Remove the screw, which is set to hold the Cash Dispensing Unit platform in place.
- 5) Remove the cash cassette from the box, fill the cassette with the appropriate amount of notes, and place it in the Cash Dispensing Unit carefully. Place the appropriate denomination label on the front of the cassette.
- 6) Before closing the vault, thoroughly test the combination lock by locking and unlocking the lock several times. It is much easier to diagnose potential lock problems before shutting the door
- Open the top of the ATM. Place the receipt paper in the Receipt Printer. The paper prints only on one side (shiny side) always check the roll when you install paper.
   Place the roll so that the coated side (shiny side) will be facing up.
- Connect the Power cable and telephone cable to the appropriate outlets on the wall. (verify once again if the power voltage is 110V or 220V)
- 9) Turn the power on and verify if all systems are operational. If any part of the system is not operational then an error code will be displayed. Verify with the Error Code and follow the appropriate steps. If the error is not corrected please contact your local distributor. Set all the system parameters. For more detailed information refer to Chapter 5 and Chapter 6.



# E.3 Software Quick Installation Guide

## • Clear NVRAM

(1) NVRAM(Non Volatile Random Access Memory)

There are many important data in the NVRAM such as journal and configuration data. To clear all of configuration and journal data to the initial status, clear NVRAM after S/W installation. If you upgrade ATM machine operating in the field, you must backup journal and remember configuration information before clearing NVRAM.

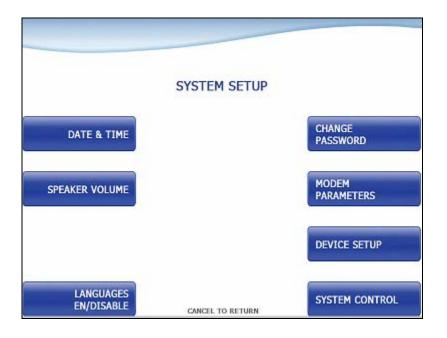
(2) Clear NVRAM

1) Enter Supervisor Menu as Master Password

1800CE (USA) V01.0		/N : 1111111111 TANDARD3 TCP/IP					
	TERMINAL ID : AAPAU001						
CST1(NORMAL)	CST2(MISSING)	CST3(LOW)	CST4	REJECT(OK)			
1047(\$10)	18(\$20)	20(\$50)	NOT AVAILABLE	2			
SETTLEME	SETTLEMENT [] - [40036(00)]						
JOURN	IAL	AR' key to reset term		STEM SETUP			
REPO	RT		но	IST SETUP			
DIAGNOSTI	ics 0	7/13/2009 16:3 CANCEL TO RETURN	SE	ANSACTION TUP			



2) Select "SYSTEM SETUP" menu



3) Select "SYSTEM CONTROL" menu

		-	
	CLEAR N	VRAM	
CLEAR ALL	MACHINE TYPE	1800CE	CLEAR SETTING
			CLEAR JOURNAL
			CLEAR TRANS. SEQUENCE NO.
	CANCEL TO	RETURN	CLEAR LOG

- 4) Select "CLEAR ALL" menu.
- 5) Confirm and select "Yes" menu.
- 6) All NVRAM data will be cleared and ATM will be automatically rebooted.



# E.4 Installation Guide for NH 1800CE

• DIAL-UP INITIAL SETTING

# (1) DIAL-UP SETTING

1) Input Master password to enter main screen.

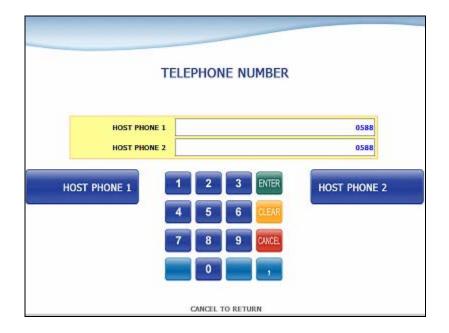
1800CE (USA) V01.0	1800CE (USA) V01.03.10						
	TERMINAL ID : AAPAU001						
CST1(NORMAL)	CST2(MISSING)	CST3(LOW)	CST4	REJECT(OK)			
1047(\$10)	18(\$20)	20(\$50)	NOT AVAILABLE	E 2			
SETTLEME	SETTLEMENT [ ] - [40036(00)] Error of CS 2, CS13 sensor during initialization						
JOURN		AR' key to reset term		STEM SETUP			
REPO	DRT		н	DST SETUP			
DIAGNOST		7/13/2009 16:3 CANCEL TO RETURN	SE	ANSACTION			

2) Select "HOST SETUP" menu.

	HOST SETUP	
KEY MANAGEMENT		
TELEPHONE NUMBER		REMOTE MONITOR
TERMINAL ID		ROUTING ID
HEALTH CHECK MESSAGE	CANCEL TO RETURN	AUTO DAY TOTAL



3) Select "TELEPHONE NUMBER" menu.



- 4) Be sure to input the telephone numbers both in the HOST PHONE #1 and in the HOST PHONE #2 after selecting "HOST PHONE #1" and "HOST PHONE #2" menu and click '**ENTER**' on the pinpad.
- 5) After above procedures, enter "99" (IN SERVICE) on the pinpad in the main screen.



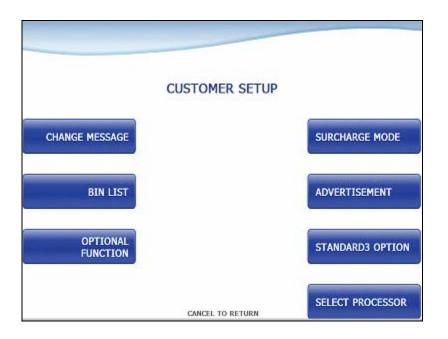
#### • TCP/IP INITIAL SETTING

#### (1) TCP/IP SETTING

1) Input Master password to enter main screen.

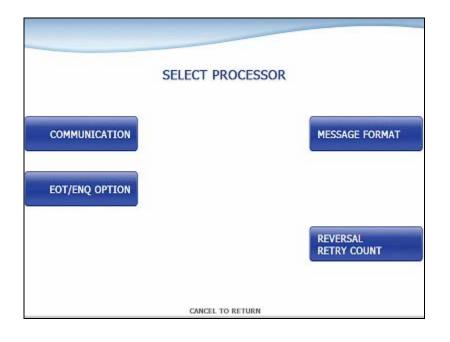
1800CE (USA) V01.	1800CE (USA) V01.03.10					N : 111111111 ANDARD3 TCP/IP
	т	ERMIN	AL ID : AAPAUO	01		
CST1(NORMAL)	CST2(MIS	SING)	CST3(LOW)	CST4	F	REJECT(OK)
1047(\$10)	18(\$2	0)	20(\$50)	NOT AVAI	LABLE	2
SETTLEME	SETTLEMENT [] - [40036(00)] Error of CS 2, CS13 sensor during initialization					TOMER SETUP
REPC	REPORT			ninal error	ноя	5T SETUP
DIAGNOST	ICS	0	7/13/2009 16:3 CANCEL TO RETURN		TRA SET	INSACTION UP

3) Select "CUSTOMER SETUP" menu.





4) Select "SELECT PROCESSOR" menu.



5) Select "COMMUNICATION" menu.

	COMMUN	ICATION	
DIALUP	NETWORK TYPE	TCP/IP	ТСР/ІР
	CANCEL 1	O RETURN	

- 6) Select "TCP/IP" menu and message in the COMMUNICATION box will be changed from DIALUP to TCP/IP.
- 7) Click 'CANCEL' button and SELECT PROCESSOR screen will be back.



8) Select "MESSAGE FORMAT" menu in the SELECT PROCESSOR screen.

	SELECT PROCESSOR	
COMMUNICATION		MESSAGE FORMAT
EOT/ENQ OPTION		тсрујр туре
		REVERSAL RETRY COUNT
	CANCEL TO RETURN	

9) Select "STANDARD1" menu in the MESSAGE FORMAT screen. Click 'CANCEL' on the pinpad to go 'SELECT PROCESSOR

	MESSAGE	FORMAT	
STANDARD1	MESSAGE FORMAT	STANDARD3	STANDARD2
STANDARD3			EPS
	CANCEL TO	RETURN	



- 10) Select "TCPIP TYPE" menu in the SELECT HOST screen.
- 11) Set "STANDARD" in the TCP/IP TYPE menu and set DISABLE in the SSL OPTION menu. Click 'CANCEL' button to go SELECT screen.

	тср	/IP TYPE	
STANDARD	TCP/IP TYPE	VISA_FRAMED	VISA FRAMED
	SSL	DISABLE	
ACK CONTROLLED			SSL EN/DISABLE
	CANC	EL TO RETURN	

12) Click 'CANCEL' button and CUSTOMER SETUP screen will be shown. Click 'CANCEL' button once more to go to the OP MAIN screen. And select "SYSTEM SETUP" menu.

	SYSTEM SETUP	
DATE & TIME		CHANGE PASSWORD
SPEAKER VOLUME		
TERMINAL IP		DEVICE SETUP
LANGUAGES EN/DISABLE	CANCEL TO RETURN	SYSTEM CONTROL

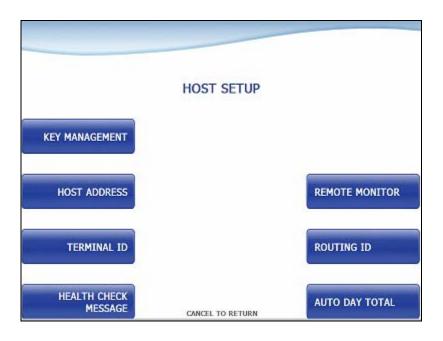
13) Select "TERMINAL IP" menu.



	TERMINAL IP	
DHCP		DISABLE
IP ADDRESS		150.11.5.126
SUBNET MASK		255.255.0.0
GATEWAY	150.11.1.254	
DNS		0.0.0
IP ADDRESS	2	SUBNET MASK
GATEWAY		DNS

14) Set "DHCP EN/DISABLE" as DISABLE to activate buttons related with "STATIC IP"

- 15) Select "IP ADDRESS", "GATEWAY", "SUBNET MASK" and "DNS" and set the input values individually.
- 16) Select "HOST SETUP" menu in the OP MAIN screen.
- 17) Select "HOST ADDRESS" menu in the HOST SETUP screen.





H	OST ADDRESS
URL EN/DISABLE	DISABLE
HOST ADDRESS 1	150.11.5.195
PORT NUMBER 1	31701
HOST ADDRESS 2	150.11.5.195
PORT NUMBER 2	31701
URL EN/DISABLE	HOST ADDRESS 2

- 19) Select "HOST ADDRESS 1", "PORT NUMBER 1", "HOST ADDRESS 2", "PORT NUMBER 2" in the HOST ADDRESS screen and set input values individually.
- 20) After finishing all setting up, "CANCEL" on the pinpad in the main screen. Then ATM will be rebooted automatically with the "REBOOTING" message shown.

# F. Transaction Screen Flow

This chapter shows you the demonstration screen for NH1800CE.

# F.1 TRANSACTION PROCESS (USA)

# F.1.1 AP MAIN

This is a main AP screen and the customer can start to do transaction by inserting and quickly removing the card on card reader.



## F.1.2 SELECT LANGUAGE

Language a customer would like to use in transaction can be selected in this screen.





## F.1.3 Enter PIN

This screen is to enter PIN of customer's card



# **F.1.4 SELECT TRANSACTION**

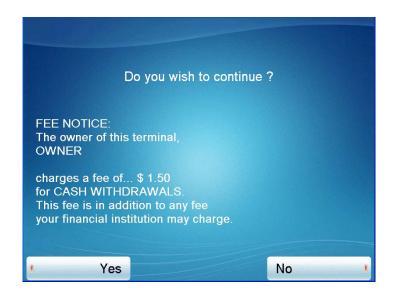
This screen is to select transaction type the customer wants to transact such as withdrawal, balance inquiry and transfer is selected in this screen.





## F.1.4.1 WITHDRAWAL: FEE NOTICE

This screen is to show a customer the information of surcharge.



## F.1.4.2 WITHDRAWAL: SELECT RECEIPT PRINTING OR NOT

This screen is to ask a customer if he/she wants to get the receipt or not.





# F.1.4.3 WITHDRAWAL: SELECT ACCOUNT (Checking, Saving, Credit Card)

This screen is to ask a customer where he/she wants to withdraw in checking, saving, credit card



## F.1.4.4 WITHDRAWAL: SELECT THE AMOUNT OF WITHDRAWAL

This screen is to select the amount of withdrawal. If there is not any amount to withdraw, please select the "OTHER" key and can input the amount the customer would like to withdraw.

	ell me the amount d like to withdraw.	Enter the amount you would like to withdraw. Then press ENTER
\$ 20	\$ 40 .	Multiple of amount: \$ 20 Max amount : \$ 800
\$ 60	\$ 80	\$ 0
\$ 100	\$ 200	
Other	Exit	Exit



#### F.1.4.5 WITHDRAWAL: CONNECTING HOST

This screen is to show the customer that the transaction is in progress.



# F.1.4.6 WITHDRAWAL: DISPENSING MONEY

This screen is to show the customer that his/her request amount is being dispensed

l'm dispensing your money. Please wait !	



#### F.1.4.7 WITHDRAWAL: PLEASE TAKE RECEIPT

This screen is to show the customer that the transaction has been successfully completed and to notify the customer to take his/her receipt.





#### F.1.4.8 TRANSFER: SELECT RECEIPT PRINTING OR NOT

This screen is to ask a customer if he/she gets the receipt or not.



#### F.1.4.9 TRANSFER: SELECT ACCOUNT TO TRANSFER FROM

This screen is to ask a customer where he/she wants to transfer from; checking, saving, credit card





#### F.1.4.10 TRANSFER: SELECT ACCOUNT TO TRANSFER TO

This screen is to ask a customer where he/she wants to transfer to; checking, saving, credit card



## F.1.4.11 TRANSFER: ENTER TRANSFER AMOUNT

This screen is to select the amount of transfer.





#### F.1.4.12 TRANSFER: PRINTING TRANSACTION

This screen is to show the customer that it is printing transaction results.





#### F.1.4.13 INQUIRY: SELECT RECEIPT PRINTING OR NOT

This screen is to ask a customer if he/she wants to get the receipt or not.



## F.1.4.14 INQUIRY: SELECT ACCOUNT TO INQUIRE

This screen is to ask a customer which account he/she wants to inquire





#### F.1.4.15. INQUIRY: PRINTING TRANSACTION

This screen is to show the customer that it is printing transaction results.





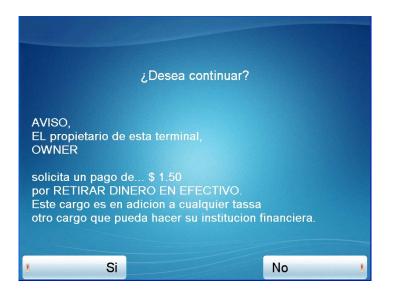
# F.1.5 SELECT TRANSACTION - SPANISH

This screen to select transaction type the customer wants to transact such as withdrawal, balance inquiry and transfer is selected in this screen.



## F.1.5.1 WITHDRAWAL: FEE NOTICE

This screen is to show a customer the information of surcharge.





#### F.1.5.2 WITHDRAWAL: SELECT RECEIPT PRINTING OR NOT

This screen is to ask a customer if he/she wants to get the receipt or not.



#### F.1.5.3 WITHDRAWAL: SELECT ACCOUNT

This screen is to ask a customer where he/she wants to withdraw in checking, saving, credit card





#### F.1.5.4 WITHDRAWAL: SELECT THE AMOUNT OF WITHDRAWAL

This screen is to select the amount of withdrawal. If there is not any amount to withdraw, Please select the "OTHER" key and can input the amount a customer would like to withdraw.

Seleccione la	cantidad a retirar.	Cantidad por favor ingrese la cantidad a retirar Oprima ENTER.
\$ 20	\$ 40	Cantidad es multiple: \$ 20 Cantidad max: \$ 800
\$ 60	\$ 80	\$0
\$ 100	\$ 200	
• Otro	Salida	Salida

## F.1.5.5 WITHDRAWAL: CONNECTING HOST

This screen is to show the customer that the transaction is in progress.





#### F.1.5.6 WITHDRAWAL: DISPENSING MONEY

This screen is to show the customer that his/her request amount is being dispensed





## F.1.5.7 TRANSFER: SELECT RECEIPT PRINTING OR NOT

This screen is to ask a customer if he/she wants to get the receipt or not.



#### F.1.5.8 TRANSFER: SELECT ACCOUNT TO TRANSFER FROM

This screen is to ask a customer where he/she wants to transfer from; checking, saving, credit card





#### F.1.5.9 TRANSFER: SELECT ACCOUNT TO TRANSFER TO

This screen is to ask a customer where he/she wants to transfer to; checking, saving, credit card



#### F.1.5.10 TRANSFER: ENTER TRANSFER AMOUNT

This screen is to select the amount of transfer.





## F.1.5.11 INQUIRY: SELECT ACCOUNT TO INQUIRE

This screen is to ask a customer which account he/she wants to inquire



#### F.1.5.12 INQUIRY: PRINTING TRANSACTION

This screen is to show the customer that it is printing transaction results.





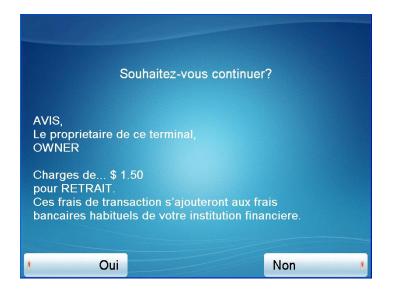
#### F.1.6 SELECT TRANSACTION - FRENCH

This screen is to select transaction type customer wants to transact such as withdrawal, balance inquiry and transfer is selected in this screen.



## F.1.6.1 WITHDRAWAL: FEE NOTICE

This screen is to show a customer the information of surcharge.





#### F.1.6.2 WITHDRAWAL: SELECT RECEIPT PRINTING OR NOT

This screen is to ask a customer if he/she wants to get the receipt or not.



#### F.1.6.3 WITHDRAWAL: SELECT ACCOUNT

This screen is to ask a customer where he/she wants to withdraw in checking, saving, credit card





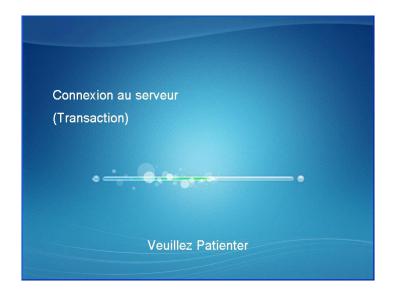
#### F.1.6.4 WITHDRAWAL: SELECT THE AMOUNT OF WITHDRAWAL

This screen is to select the amount of withdrawal. If there is not any amount to withdraw, Please select the "OTHER" key and can input the amount the customer would like to withdraw.

(	Choisissez le monta	ant que vous souhaitez retirer.	Entrez le montant que vous souhaitez retirer Pressez ENTER
1	\$ 20	\$ 40	Multiple du montant: \$ 20 Montant max: \$ 800
	\$ 60	\$ 80 •	\$ 0
	\$ 100	\$ 200	
1	Autre	Sortie	Sortie

#### F.1.6.5 WITHDRAWAL: CONNECTING HOST

This screen is to show the customer that the transaction is in progress.





#### F.1.6.6 WITHDRAWAL: DISPENSING MONEY

This screen is to show the customer that his/her request amount is being dispensed





## F.1.6.7 TRANSFER: SELECT RECEIPT PRINTING OR NOT

This screen is to ask a customer if he/she wants to get the receipt or not.



#### F.1.6.8 TRANSFER: SELECT ACCOUNT TO TRANSFER FROM

This screen is to ask a customer where he/she wants to transfer from; checking, saving, credit card





#### F.1.6.9 TRANSFER: SELECT ACCOUNT TO TRANSFER TO

This screen is to ask a customer where he/she wants to transfer to; checking, saving, credit card



## F.1.6.10 TRANSFER: SELECT THE AMOUNT OF TRANSFER

This screen is to select the amount of transfer.





#### F.1.6.11 INQUIRY: SELECT ACCOUNT TO INQUIRE

This screen is to ask a customer which account he/she wants to inquire



## F.1.6.12 INQUIRY: PRINTING TRANSACTION

This screen is to show the customer that it is printing transaction results.





# F.2 TRANSACTION PROCESS (AUSTRALIA ONLY)

#### F.2.1 AP MAIN

This is a main AP screen and the customer can start to do transaction by inserting and quickly removing the card on card reader.



## F.2.2 INPUT PIN

This screen is to enter the PIN





#### **F.2.3 SELECT TRANSACTION**

This screen is to select to transaction type the customer wants to transact such as withdrawal and balance inquiry is selected.



## F.2.3.1 SELECT RECEIPT PRINTING OR NOT

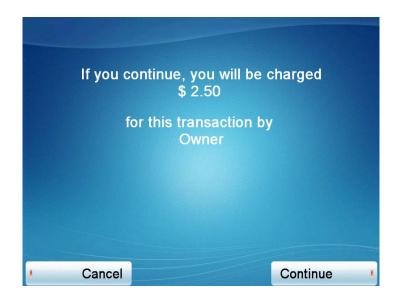
This screen is to ask a customer if he/she gets the receipt or not.





## F.2.3.2 WITHDRAWAL: DISPLAY FEE

This screen is to show a customer the information\_of ATM operator fee.



## F.2.3.3 WITHDRAWAL: SELECT ACCOUNT (Cheque, Savings, Credit Card)

This screen is to ask a customer where he/she wants to withdraw in checking, saving, credit card





## F.2.3.4 WITHDRAWAL: SELECT THE AMOUNT OF WITHDRAWAL

This screen is to select the amount of withdrawal. If there is not any amount to withdraw, please select the "OTHER" key and can input the amount the customer would like to withdraw.

	ct the amount se to withdraw.	Enter the amount you would like to withdraw Then press ENTER.
\$ 20	\$ 40	Multiple of amount : \$ 20 Max amount : \$ 800
\$ 60	\$ 80	\$0
\$ 100	\$ 200	
• Other	Exit	Exit

## F.2.3.5. WITHDRAWAL: CONNECTING HOST

This screen is to show the customer that the transaction is in progress.





## F.2.3.6. WITHDRAWAL: DISPENSING MONEY

This screen is to show the customer that "your request amount is being dispensed"



## F.2.3.7. WITHDRAWAL: PLEASE TAKE RECEIPT

This screen is to show the customer that the transaction has been successfully completed and to notify the customer to take his/her receipt.





## F.2.3.8. BALANCE ENQUIRY: SELECT ACCOUNT TO ENQUIRY

This screen is to ask a customer which account he wants to inquire



## F.2.4 THANK YOU

This screen shows the customer that the customer request has been successfully completed.





## F.3.5 OUT OF SERVICE

This screen notifies the customer the ATM is currently out of service





# F.3 TRANSACTION PROCESS (NEW ZEALAND ONLY)

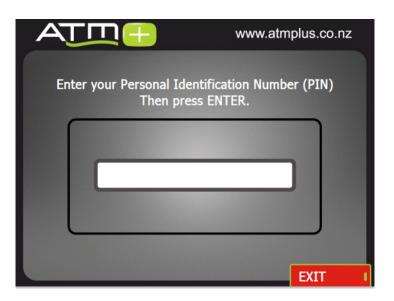
#### F.3.1 AP MAIN

This is a main AP screen and a customer can start to do transaction after inserting and quickly removing the card on card reader.



## F.3.2 INPUT PIN

This screen is to enter the PIN of customer's card





## **F.3.3 SELECT TRANSACTION**

This screen is to ask the transaction type the customer wants to transact such as withdrawal and balance inquiry is selected in this screen.



## F.3.3.1 WITHDRAWAL: FEE NOTICE

This screen is to show a customer the information of convenience fee.





## F.3.3.2 WITHDRAWAL: SELECT ACCOUNT (Chequing, Savings, Credit Card)

This screen is to ask a customer where he/she wants to withdraw in checking, saving, credit card



## F.3.3.3 WITHDRAWAL: SELECT THE AMOUNT OF WITHDRAWAL

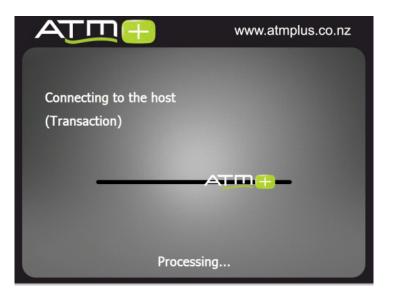
This screen is to select the amount of withdrawal. If there is not any amount to withdraw, please select the "OTHER" key and can input the amount the customer would like to withdraw.

	www.atmplus.co.nz	www.atmplus.co.nz
Please tell me you would like		Enter the amount you would like to widthdraw. Then press ENTER.
\$ 20	\$ 40	MULTIPLE OF AMOUNT IS \$ 20 MAX AMOUNT \$ 350
\$ 60	\$ 80	\$ 0
L \$ 100	\$ 200	
OTHER	EXIT	EXIT



## F.3.3.4. WITHDRAWAL: CONNECTING HOST

This screen is to show the customer that the transaction is in progress.



## F.3.3.5. WITHDRAWAL: DISPENSING MONEY

This screen is to show the customer that his/her request amount is being dispensed





## F.3.3.6. WITHDRAWAL: PLEASE TAKE RECEIPT

This screen is to show the customer that the transaction has been successfully completed and to notify the customer to take his/her receipt.



## F.3.3.7. INQUIRY: SELECT ACCOUNT TO INQUIRE

This screen is to ask a customer which account he wants to inquire





## F.3.3.8. INQUIRY: PRINTING TRANSACTION

This screen is to show the customer printing his/her balance



## F.3.4 THANK YOU

This screen shows the customer that the customer request has been successfully completed.





## F.3.5 OUT OF SERVICE

This screen notifies the customer the ATM is currently out of service.





# G. Supported USB Memory and HUB G.1 USB Memory

## G.1.1 Supported USB Memory

No.	Vendor	Modem Model	Memory	Remarks
1	Sony Corporation (VID:0x054C)	Storage Media (PID:0x0243)	512MB	
2	SMI Corportation (VID:0x090C)	USB Disk (PID:0x1000)	512MB	
3	Kingston (VID:0x0951)	Data Traveler (PID:0x1603)	512MB	
4	pq1 (VID:0x3538)	USB Mass Storage Device (PID:0x0042)	512MB	
5	LEXAR Media (VID:0x05DC)	JD FIREFLY (PID:0A560)	1GB	
6	LG (VID:0x090C)	USB Driver (PID:0x1000)	1GB	
7	Memorex (VID:0x12F7)	TD Classic 003B (PID:0x1A00)	1GB	

Served VID : Vendor ID, PID : Product ID

## G.1.2 Supported Memory Specifications

- 1) File System: FAT
- 2) Number of supported drivers: 1
- 3) Memory: 2GB or below
- Example : 1) SANDisk 512MB is not supported because it has 2 file systems.

(CDFS and FAT)

2) Sony Storage Media is supported because it is FAT, 1 driver and 512 MB size.



# G.2 Supported USB HUB Types

No.	Vendor	Modem Model	VID(HUB CHIP Vendor)	PID
1	Macsense Connectivity	UH-Mini4i	0x05E3(Genesys Logics inc)	0x0606
2	INLAND	Inland USB2.0 HUB	0x0409(NEC Corporation)	0x005A
3	VAKO International Inc	USB 2.0 Aluminum HUB	0x05E3(Genesys Logics inc)	0x0606
4	PPA Int'l	I.Connector(PPA 4Port HUB)	0x05E3(Genesys Logics inc)	0x0606
5	ZIO	USB 2040 Mini	0x05E3(Genesys Logics inc)	0x0606
6	DSP Inc	E-Star QU24WR	0x05E3(Genesys Logics inc)	0x0606



# H. Advertisement & Receipt Header image Update Guide

## H.1 Preparation

Software Update function in Nautilus Hyosung's Windows CE Machine is applicable to update advertisement images.

## H.1.1 Supported Image Format

The following table describe the supporting format of advertisement image

Model	Image Size	DPI	Color	File Format	Max Size (one image)
MX-5050CE	640 X 480	72	16bit color	JPEG	300KB
MX-5000CE	800 X 600	72	16bit color	JPEG	300KB
NH-1800CE	800 X 600	72	16bit color	JPEG	300KB
MX-5300CE	800 X 600	72	16bit color	JPEG	300KB

The following table describe the file name and path of advertisement images

The file path depends on image size. The path in blow table indicates image size is 800 X 600

Advertisement	File Name	Path
Screen #1	Adv_01.jpg	\ATM\800_600\Advertisement
Screen #2	Adv_02.jpg	\ATM\800_600\Advertisement
Screen #3	Adv_03.jpg	\ATM\800_600\Advertisement
Screen #4	Adv_04.jpg	\ATM\800_600\Advertisement
Screen #5	Adv_05.jpg	\ATM\800_600\Advertisement
Screen #6	Adv_06.jpg	\ATM\800_600\Advertisement

The path in blow table indicates image size is 640 X 480

Advertisement	File Name	Path
Screen #1	Adv_01.jpg	\ATM\640X480\Advertisement
Screen #2	Adv_02.jpg	\ATM\640X480\Advertisement
Screen #3	Adv_03.jpg	\ATM\640X480\Advertisement
Screen #4	Adv_04.jpg	\ATM\640X480\Advertisement
Screen #5	Adv_05.jpg	\ATM\640X480\Advertisement
Screen #6	Adv_06.jpg	\ATM\640X480\Advertisement

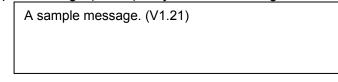
The following table describe the supporting format of receipt header image

File Name (Fixed)	Image Size	Color	File Format	Max Size (one image)
ReceiptHeader.bmp	560 X 120	2bit color	Bmp	12KB



## H.1.2 Udating your own UpdateInfo.dat (Optional)

Advertisement images are updated using the software update program. While updating program proceeds, a line of message shows up in the main screen. If you want to change the message, just edit UpdateInfo.dat. The message length is up to 40 characters. A sample content is as follows. You can replace "A sample message.(V1.21)" to your own message.

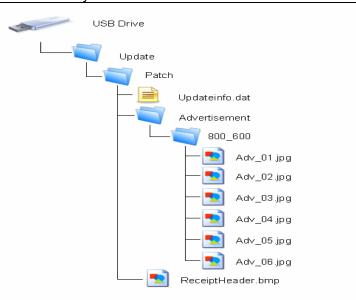


UpdateInfo.dat

## H.1.3 Makeing SW Update media

- 1) Make "UPDATE" folder in the USB memory drive.
- 2) Make "PATCH" folder in the "UPDATE" folder.
- 3) Copy "UpdateInfo.dat" to under "PATCH" folder. (Optional)
- 4) Make "ADVERTISEMENT" folder in the "PATCH" folder.
- 5) Make "800\_600" folder in "ADVERTISEMENT" folder (if your machine supports another image size, change this folder name like "640\_480")
- 6) Copy all image files to under "ADVERTISEMENT" folder.(check the file name)
- 7) If you want to change receipt header image, Copy the receipt header image file.

The following picture describe the layout of USB Drive



(If you have the master media which get from Nautilus Hyosung, you can see the same layout except "Patch" folder. "Patch" folder is replaced "master" folder.)



## H. 2. Execute updating

#### H.2.1 Software Update

Advertisement images can be installed or updated by Software Update tool in supervisor menu. You can update advertisement images by software downloading with MoinView server. Please refer to the MoinView manual for the detail downloading functionality.

1) Press SYSTEM SETUP button.

800CE (USA) V01.	03.10			N : 111111111 TANDARD3 TCP/IP
	TERMIN	AL ID : AAPAUO	01	
CST1(NORMAL)	CST2(MISSING)	CST3(LOW)	CST4	REJECT(OK)
1047(\$10)	18(\$20)	20(\$50)	NOT AVAILABLE	2
SETTLEME	Error of C	[ ] - [40036(00)] S 2, CS13 sensor tialization	CUS	STOMER SETUP
JOUR		AR' key to reset terr		TEM SETUP
REPC	DRT		но	ST SETUP
DIAGNOST	100	7/13/2009 16:3 CANCEL TO RETURN	SET	NSACTION UP

2) Press SYSTEM CONTROL button.

	SYSTEM SETUP	
DATE & TIME		CHANGE PASSWORD
SPEAKER VOLUME		MODEM PARAMETERS
		DEVICE SETUP
LANGUAGES EN/DISABLE	CANCEL TO RETURN	SYSTEM CONTROL



3) Plug the USB drive in USB slot and press left-top function key, "SOFTWARE UPDATE".

	SYSTEM CONTROL			
PLEASE PLUG YOUR USB MEMORY STICK IN THE USB SLOT				
	BEFORE PRESSING THE BUTTONS			
SOFTWARE UPDATE		BACKUP ALL JOURNAL TO USB		
REBOOT		BACKUP JOURNAL BY DATE TO USB		
		BT DATE TO USB		
BACKUP NVRAM		BACKUP LOG TO USB		
RESTORE NVRAM	CANCEL TO RETURN	CLEAR NVRAM		

4) Press left function key, "YES".

CONFI	RM TO UPDATE SOFTWARE
D	O YOU WANT TO UPDATE SOFTWARE?
YES	NO
	CANCEL TO RETURN

When "YES" button is selected, new software in USB drive is transferred to a dedicated directory(ATM) and ATM will start to reboot automatically.



## H. 2.2 Enable Advertisement

You can enable or disable Advertisement in the supervisor menu.

## 1) Press CUSTOMER SETUP button

1800CE (USA) V01.03.10 S/N : 111111111 STANDARD3 TCP/IP							
TERMINAL ID : AAPAU001							
CST1(NORMAL)	CST2(MISSING)	CST3(LOW)	CST4	REJECT(OK)			
1047(\$10)	18(\$20)	20(\$50)	NOT AVAILABLE	2			
SETTLEME	Error of 6	[ ] - [40036(00) 8 2, C313 sensor tialization	] [	STOMER SETUP			
JOURI		AR' key to reset terr		STEM SETUP			
REPC	DRT		но	ST SETUP			
DIAGNOST		7/13/2009 16:3 CANCEL TO RETURN	SET	ANSACTION TUP			

2) Press "ADVERTISEMENT" button

	CUSTOMER SETUP	
CHANGE MESSAGE		SURCHARGE MODE
BIN LIST		ADVERTISEMENT
OPTIONAL FUNCTION		STANDARD1 OPTION
	CANCEL TO RETURN	SELECT PROCESSOR



3) You can enable or disable Advertisement images to view by pressing "SCREEN" Key.



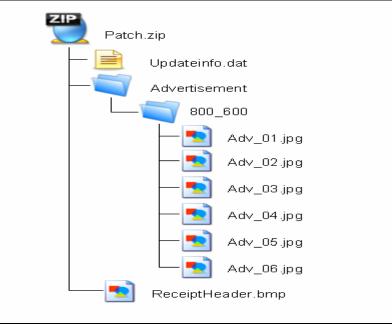


## H. 3. Making MoniView update media

All supported image format refer to "1.1 Supported Image Format"

- 1) Make "PATCH" folder.
- 2) Copy "UpdateInfo.dat" to under "PATCH" folder. (Optional)
- 3) Make "ADVERTISEMENT" folder in the "PATCH" folder.
- 4) Make "800\_600" folder in "ADVERTISEMENT" folder (if your machine supports another image size, change this folder name like "640\_480")
- 5) Copy all image files to under "ADVERTISEMENT" folder.(check the file name)
- 6) If you want to change receipt header image, Copy the receipt header image file.
- 7) Make comperessed file like the below layout.

The following picture describe the layout of Zip file



And you can download the "Patch.zip" using MoniView.

