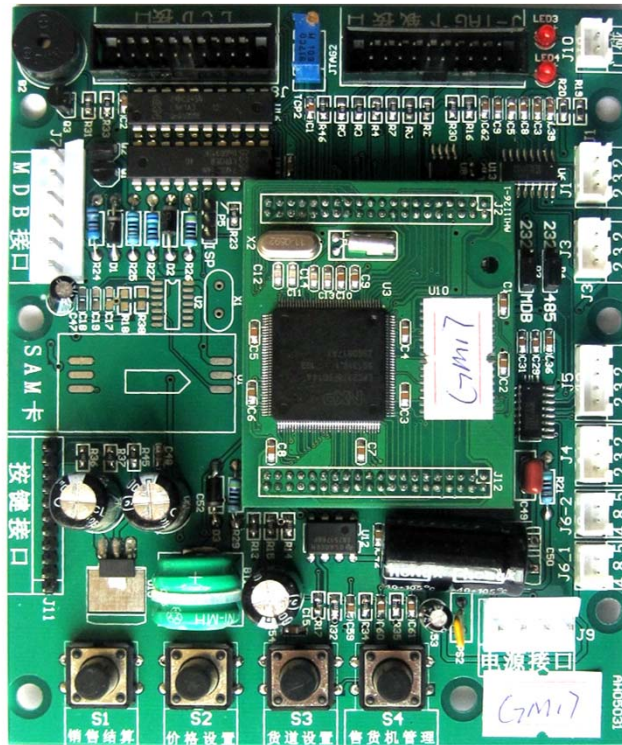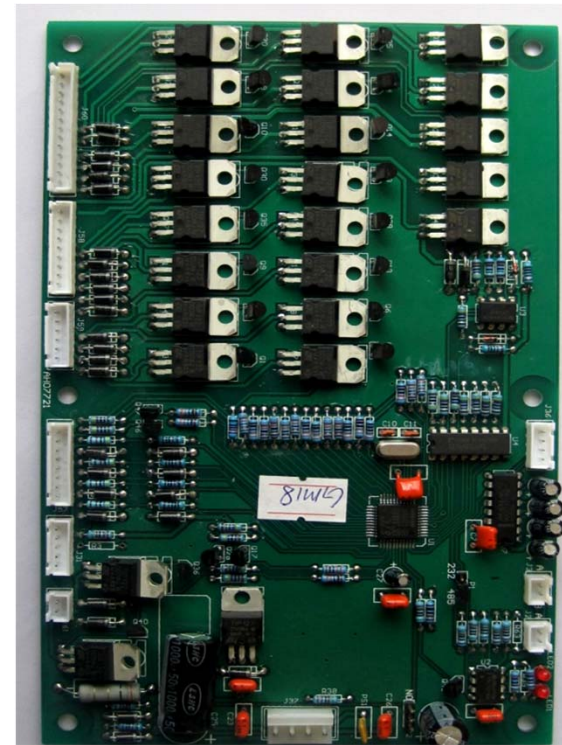# Cosmic Vending Machines

Main Board & Driver Board

MAIN BOARD
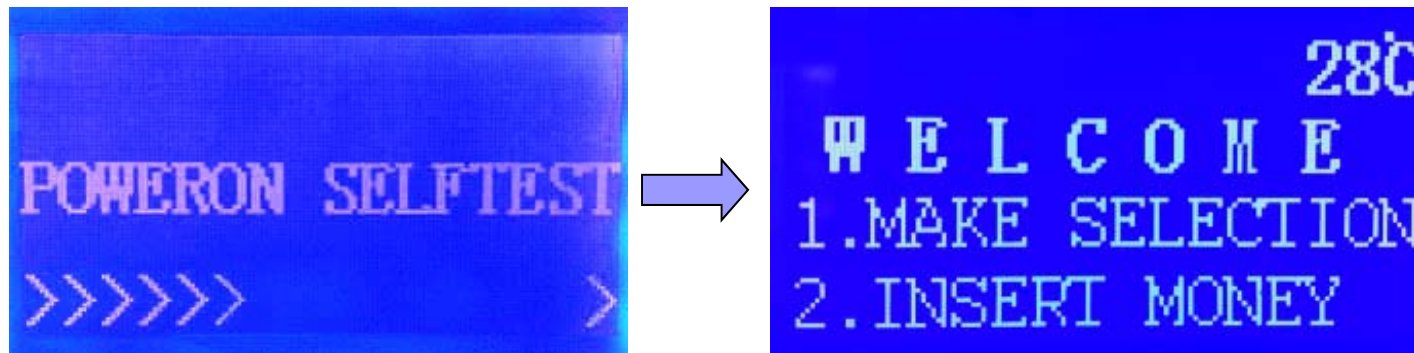
DRIVER BOARD

Selection Keypad

Old Keypad

New Keypad

1. In the Standby Mode, here are the roles of the available Function Keys:
   "H": Quick View of Machine Status and Basic Settings (Press "J/ ↓" for Page Turning)
   "J" / "↓" : Page Down
   "*": Clear the Credit (e.g.: After refilling coin changer by inserting coins, press "*" to clear the credit shown on LCD.)

2. In the Settings Mode, here are the roles of the available Function Keys:
   "#":   Confirm / Enter
   "*":   Cancel / Back / Exit
   "J" / "↓" :   Page Down
   "H":   Cursor

SELF-TEST

When power-on, machine will begin self-checking automatically to check the following items one by one:

- Coin Changer
- Bill Validator
- Card Reader
- All Columns (Motors)
- Driver Board

ENTER SETUP (I)

(**Note:** Not applicable for machines produced after June 2015)

Open the door, and press "#" to input password.

ENTER PASSWORD

*****

Defaulting Password:
000000

MANAGEMENT
1. PRICE SETTING
2. COLUMN TEST_
3. SETTLEMENT

Press "J/↓" to select menu and press "#" to enter, or press the menu ID to enter it directly.

MANAGEMENT
3. SETTLEMENT
4. DIAGNOSTICS
5. ADVANCEDS

ENTER SETUP (II)
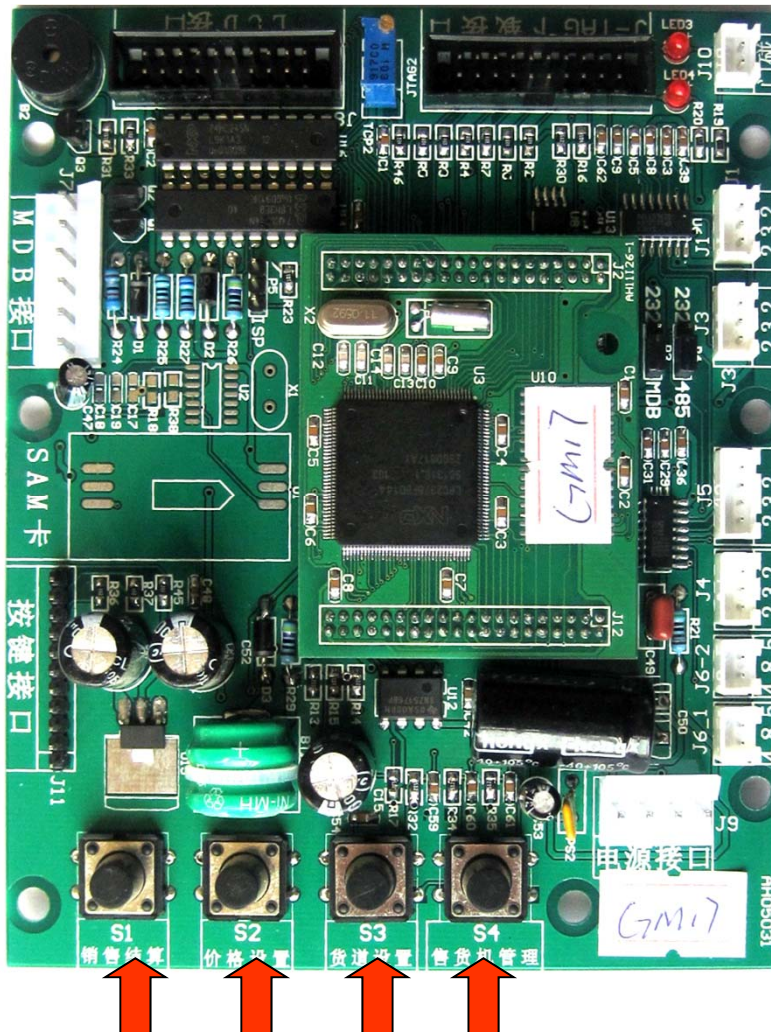
Note:
You can always enter into SETUP mode by pressing and holding the hotkey "S4" until you hear a beep. For quick access to "Audit Query", "Price Setting" & "Column Test", you can use the hotkeys of S1, S2 & S3.

HOT KEYS
S 1: SETTLEMENT (Audit Query)
S 2: PRICE SETTING
S 3: COLUMN TEST
S 4: SETUP MODE (All Settings)

※1.PRICE SETTINGS

Price Settings include:
- Column Price Setting --- set different prices for each columns;
- Tray Price Setting --- set one price for all columns on a tray
- Machine Price Setting --- set one price for all columns in a machine.

※1.Price Setting---- Column Price Setting
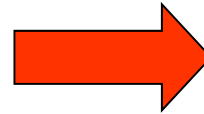
Enter into Setup Mode, Press "1" or "J/↓" to enter Price setting under "Management Screen " ; or Press Hotkey S 2

Input Column ID, and then input Unit price, press "#" to save your settings.
e.g.: Input "A1", then Unit price, Press "#"

Single Column price is successful. Press 'J/↓' to set All columns prices .

※1.Price Setting----Tray Price Setting

Enter into Setup Mode, Press "1" or "J/↓" to enter Price setting under "Management Screen " ; or Press Hotkey S 2	Input Tray ID, and then input Unit price, press "#" to save your settings. e.g: Input "A", Press "#", then Unit price, Press "#"	Tray price is successful. All columns in this Tray are same at unit price .

※1.Price Setting----Whole Price Setting

Note: This setting is disabled for machines produced after June 2015
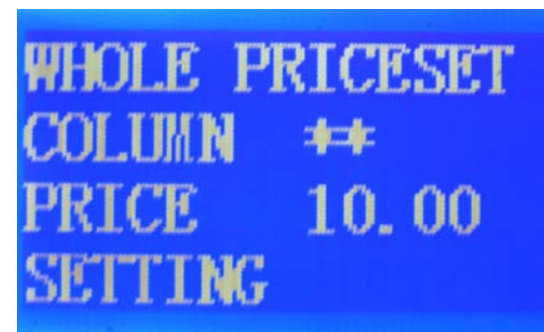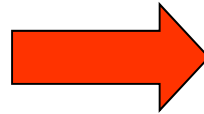
MANAGEMENT
1. PRICE SETTING
2. COLUMN TEST_
3. SETTLEMENT

WHOLE PRICESET
COLUMN **
PRICE   10.00
SETTING

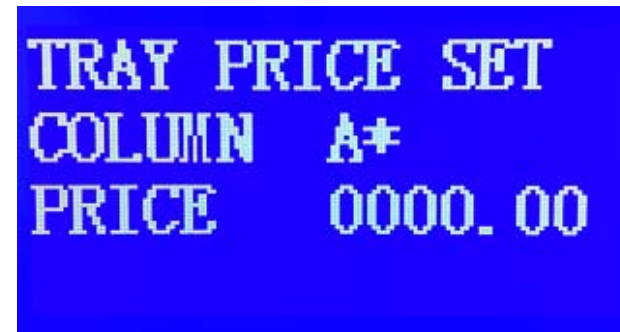Enter into Setup Mode, Press "1" or "J/↓" to enter Price setting under "Management Screen"; or Press Hotkey S 2

Press "#", and then input Unit price, press "#" to save your settings.

Whole price is successful.
All columns in this machine are at same unit price .
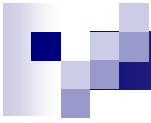
※2. Column Test (Motor Test)

Note:

Motor Test is very useful, as it can help the motor go back to its starting position. When a motor gets stuck or fails to restore, please always try to have it rotate a circle by making a "Motor Test".

※2.Column Test----Test a single Motor

```
MANAGEMENT
1. PRICE SETTING
2. COLUMN TEST
3. SETTLEMENT
```

```
SELECT        **
#       WHOLE TEST
X+#     TRAY  TEST
X+N+#  COLUMNTEST
```

```
A  A  A  A  A  A
1  2  3  4  5  6
0  0  0  0  0  0
```

Notice:
X represents Tray ID: A.B.C…
N represents Column ID: 1.2.3...

0 = Ok
1 = Motor Driving Board out of communication
4 = Motor broken
5 = Motor out of connection
6 = Motor Driving Board broken
7 = Motor Jam (not return to initial position).
Note: If tray cable gets problem, the code 6 may also be given.

Enter into Setup Mode, Press"2"to choose SETTLEMENT ; or Press "J/↓" when showing "2 Column Test", then press"2" or "#" to enter under MANAGEMENT menu; Press Hotkey S3

Press key X + N, then press "#", e.g. Press A and 6, then press "#" to test A6

Test the chosen Motor, and it will turn a circle.

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※2.Column Test---Test all Motors on a Tray

MANAGEMENT
1. PRICE SETTING
2. COLUMN TEST
3. SETTLEMENT

SELECT   **
WHOLE TEST
X+#   TRAY   TEST
X+N+# COLUMNTEST

TRAY TEST   B3
B B BBB B
1 3 567 9
0 0 000 0

Enter into Setup Mode, Press"2"to choose SETTLEMENT ; or Press "J/↓" when showing "2 Column Test", then press"2" or "#" to enter under MANAGEMENT menu;
Press Hotkey S3

Notice:
X represents Tray ID: A.B.C…
N represents Column ID: 1.2.3…

Press key X, then "#"
e.g. Press B then "#"

All motors of this tray will turn a circle. Press "*" or close door will stop testing

※2.Column Test---Test all Motors in a machine

MANAGEMENT
1. PRICE SETTING
2. COLUMN TEST
3. SETTLEMENT

SELECT   **
WHOLE TEST
X+#   TRAY TEST
X+N+# COLUMNTEST

HOLISTIC TEST A3
A A AAA A
1 3 567 9
0 0 000 0

Notice:
X represents Tray ID: A.B.C…
N represents Column ID: 1.2.3...

Enter into Setup Mode, Press"2"to choose SETTLEMENT ; or Press "J/↓" when showing "2 Column Test", then press"2" or "#" to enter under MANAGEMENT menu; Press Hotkey S3
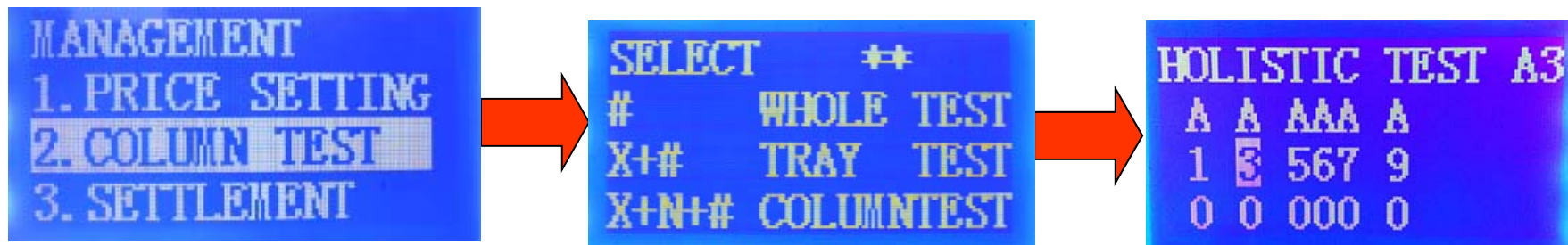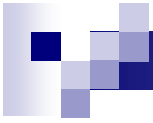
Press "#"

All motors of the machine will turn a circle. Press "*" or close door will stop testing

※3.SETTLEMENT

※3.Settlement----Section Sales

MANAGEMENT
2. COLUMN TEST
3. SETTLEMENT
4. DIAGNOSTICS

SETTLEMENT
1. SECTION SALES
2. COLUMN SALES
3. TOTAL SALES

TOTAL SALES
14.10
TIMES OF SALE
1

Enter into Setup Mode, Press"3"to choose SETTLEMENT ; or Press "J/↓" when showing "3 SETTLEMENT", then press"3" or "#" to enter under MANAGEMENT menu;
Press Hotkey S1

Press"1" to enter Section Sales

This is the total since the last time it was cleared.

Show the amount of received bills/coins, change paid out and the confiscated money since the last clearing.

Press "J/↓"

Press 1 to clear Record

Press "J/↓"

PRESS 1 TO CLEAR RECORD

BILL   0.0
COIN.   0.0
CHANGE   0.0
CONFIS   0.0

※3.Settlement----Column Sales
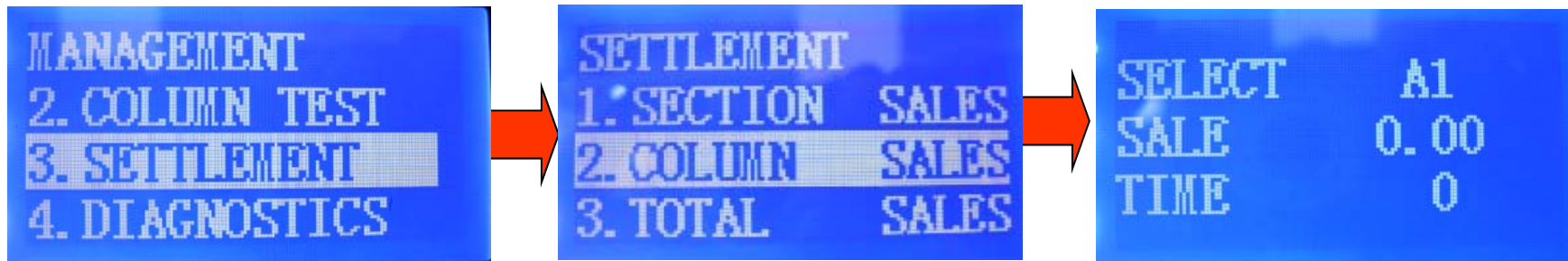
Enter into Setup Mode, Press"3"to choose SETTLEMENT ; or Press "J/↓" when showing "3 SETTLEMENT", then press"3" or "#" to enter under MANAGEMENT menu;
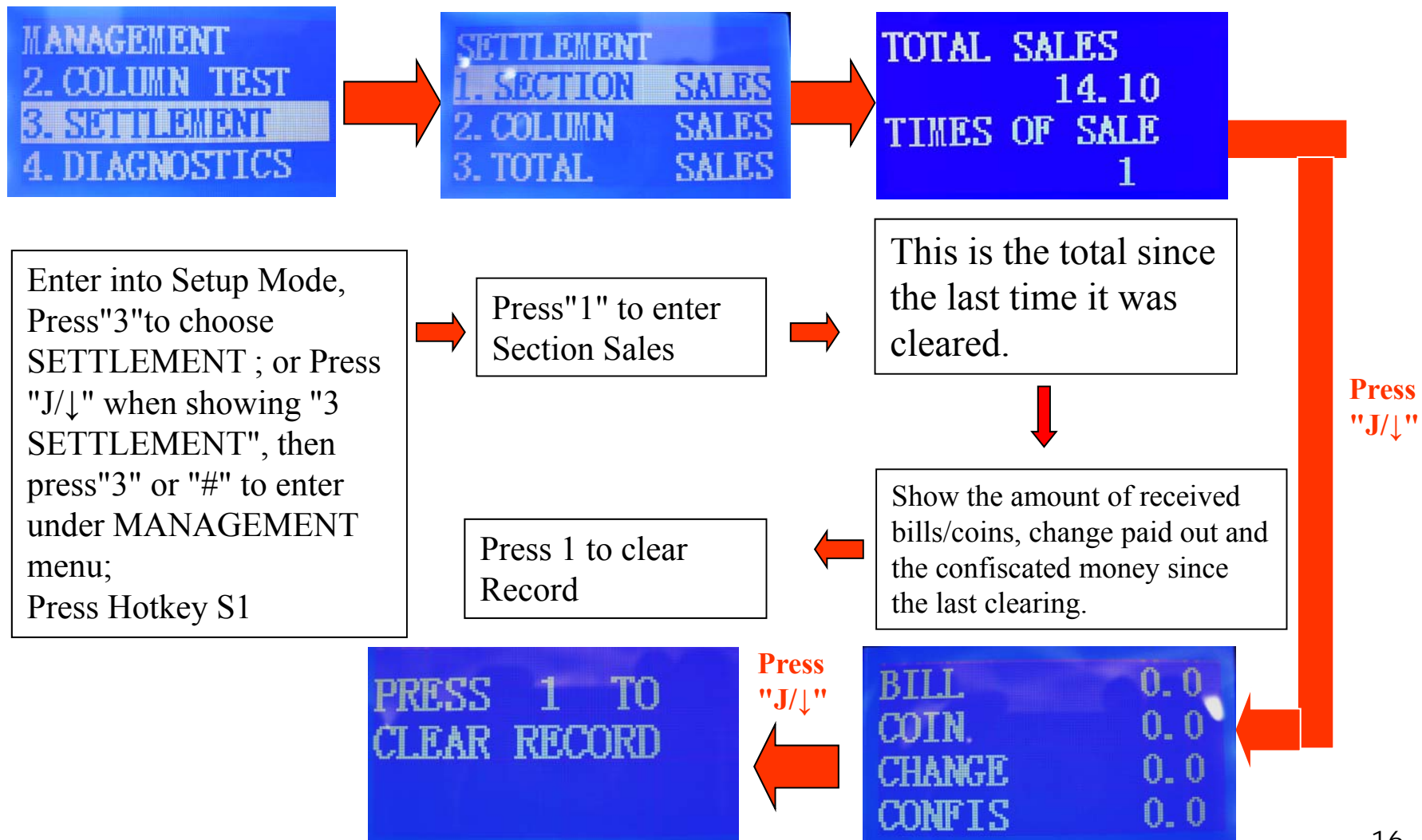Press Hotkey S1

Press "2"

This is the total for the Tray since the last time it was cleared.

※3.Settlement----Total Sales

MANAGEMENT	SETTLEMENT	SALES
2. COLUMN TEST	1. SECTION SALES	25.00
3. SETTLEMENT	2. COLUMN SALES	TIMES
4. DIAGNOSTICS	3. TOTAL SALES	1

Enter into Setup Mode, Press"3"to choose SETTLEMENT ; or Press "J/↓" when showing "3 SETTLEMENT", then press"3" or "#" to enter into MANAGEMENT menu; Press Hotkey S1
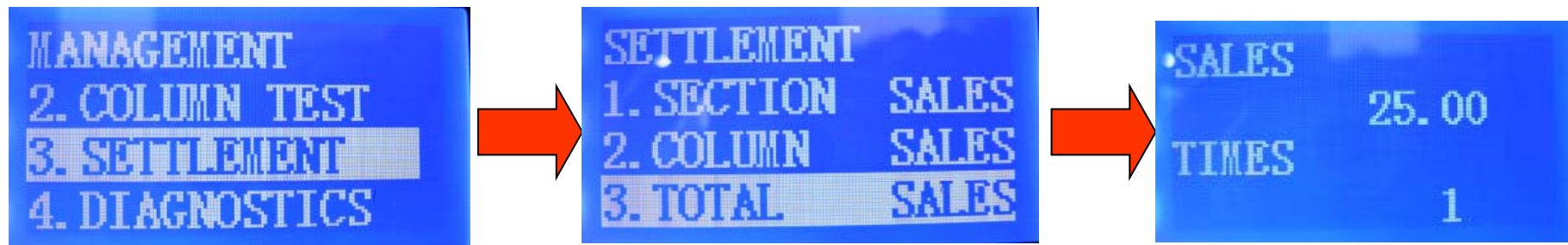
Press "3"

These are the historical total since machine initialization. It can only be cleared by Factory Reset (Re: Page 29th)

※4.DIAGNOSTICS

NO

MAC IS NORMAL

No Errors for this machine

MANAGEMENT
3. SETTLEMENT
4. DIAGNOSTICS
5. ADVANCEDS

Enter into Setup Mode, Press"4"to choose DIAGNOSTICS ; or Press "J/↓" when showing "4 DIAGNOSICS", then press"4" or "#" to enter under MANAGEMENT menu

YES

BILLACCEPTOR ERR

Will show Error automatically if there's ; Press "J/↓" to read more Diagnostic messages if there's.
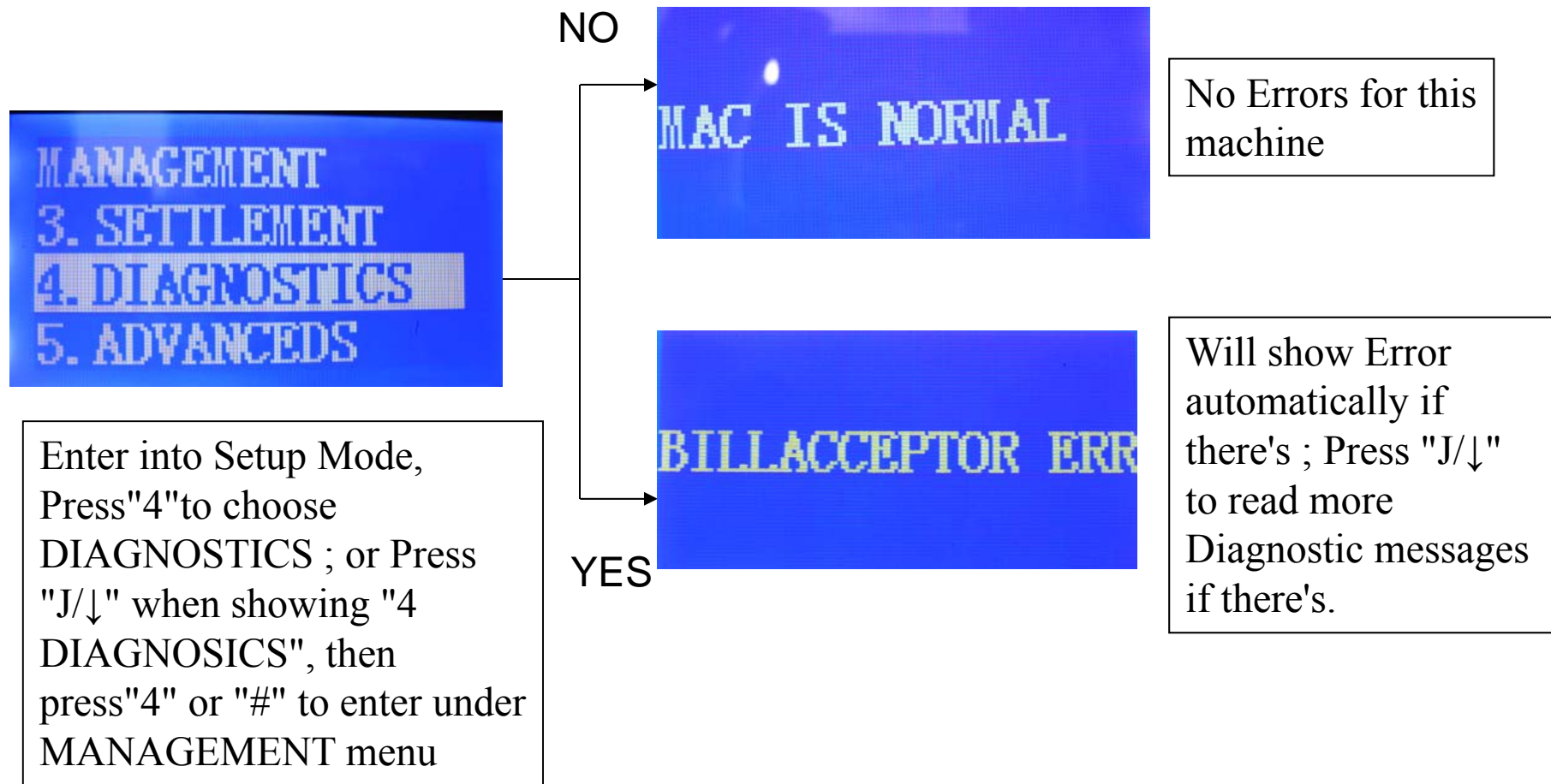
※5.Advanced Set

Enter into Setup Mode, Press"5"to choose ADVANCEDS ; or Press "J/↓"when showing "5 ADVANCEDS", then press"5" or "#" to enter under MANAGEMENT menu

5.Advaned Set

- **1.Machine Set**
- **2.Column Set**
- **3.Payment Terms**
- **4.Temperature**
- **5.Communication**
- **6.Password Set**
- **7.Time Set**
- **8.Language Set**
- **9.Default Set**

※5.Advanced Set----Machine Set

J/↓   **J/↓**

ADVANCEDS	MACHINE ID	FACTORY ID	DATE OF M.F.
1. MACINE SET			
2. COLUMN SET	000000	00000	2010年01月01日
3. PAYMENT TERMS			
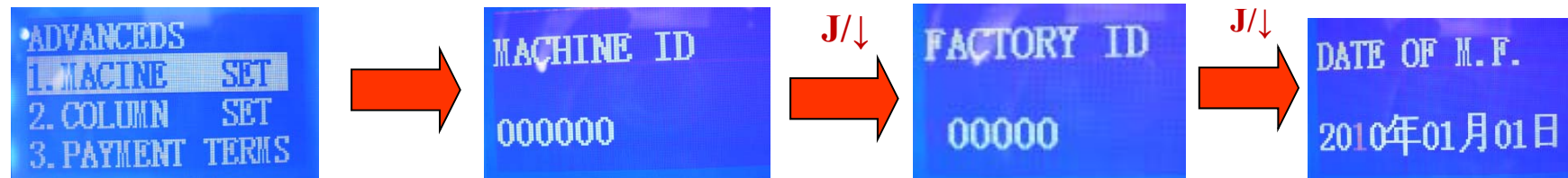
Press "1"to choose "Machine set"; or Press"J/↓"when showing "1 Machine Set", then press "#"or"1" to enter " Machine Set" Under ADVANCEDS menu

→ Input machine ID → Input Factory ID → To check Machine Manufacture Date

※5.Advanced Set----Column Set

Press "2"

Input "A"

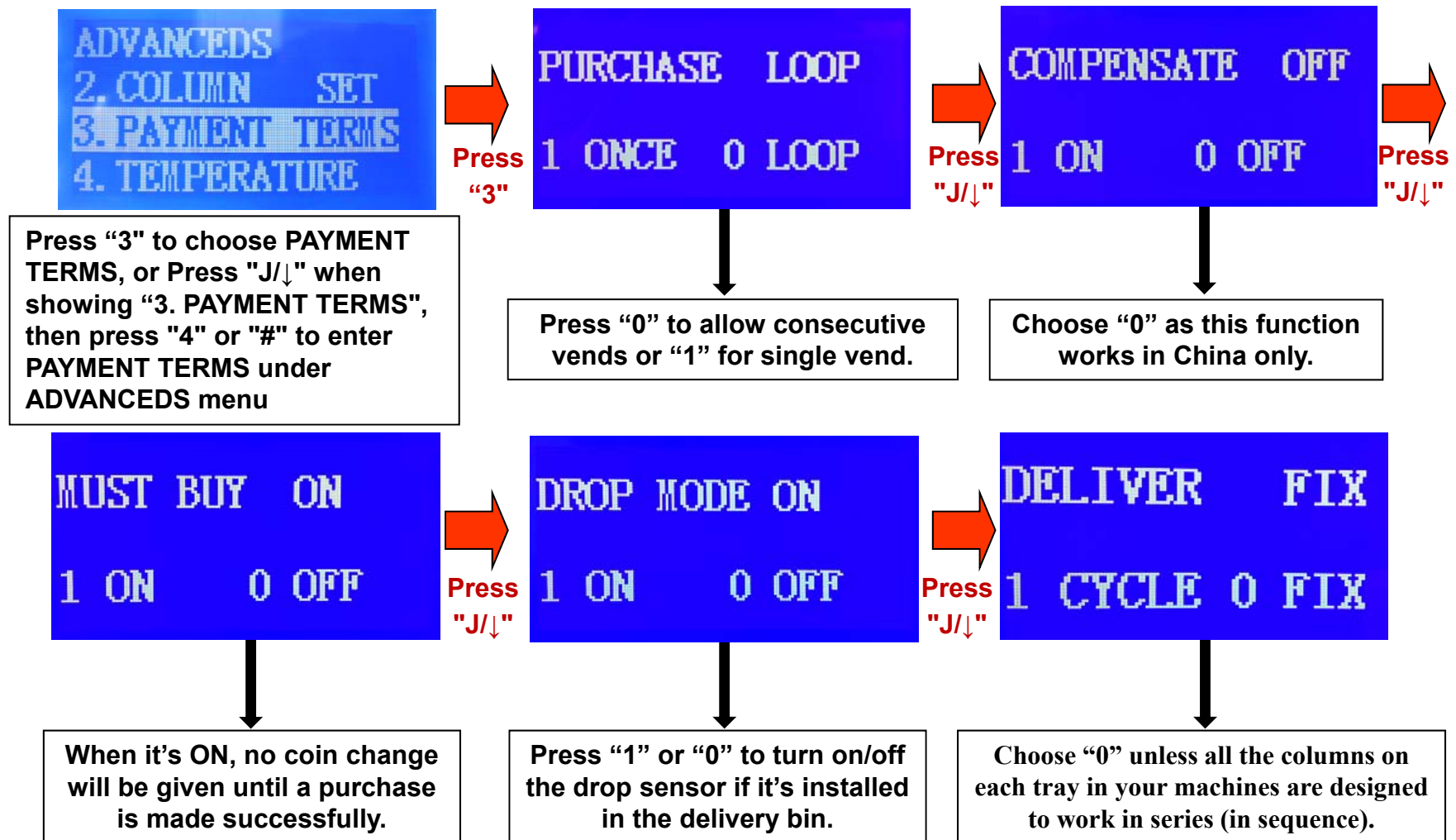Press"2"to choose "column set", or Press "J/↓" when showing "2 column set", then press "2" or "#" to enter " Column Set" under ADVANCEDS menu

Input Tray No. e.g: A

E means the column is effective.
+ means the column is coupled to the adjacent column at the left side (i.e.: A7 is coupled to A6) Press H to couple or uncouple Press J/↓ to move the cursor

※5. Advanced Set----Payment Terms

ADVANCEDS
2. COLUMN   SET
3. PAYMENT TERMS
4. TEMPERATURE

Press "3"

PURCHASE   LOOP

1 ONCE   0 LOOP

Press "J/↓"

COMPENSATE   OFF

1 ON   0 OFF

Press "J/↓"

Press "3" to choose PAYMENT TERMS, or Press "J/↓" when showing "3. PAYMENT TERMS", then press "4" or "#" to enter PAYMENT TERMS under ADVANCEDS menu

Press "0" to allow consecutive vends or "1" for single vend.

Choose "0" as this function works in China only.

MUST BUY   ON

1 ON   0 OFF

Press "J/↓"

DROP MODE ON

1 ON   0 OFF

Press "J/↓"

DELIVER   FIX

1 CYCLE 0 FIX

When it's ON, no coin change will be given until a purchase is made successfully.

Press "1" or "0" to turn on/off the drop sensor if it's installed in the delivery bin.

Choose "0" unless all the columns on each tray in your machines are designed to work in series (in sequence).

Notice: Press "#" to save your settings; Press "*" to back up or exit.

※5. Advanced Set----Temperature Set

Press "4"
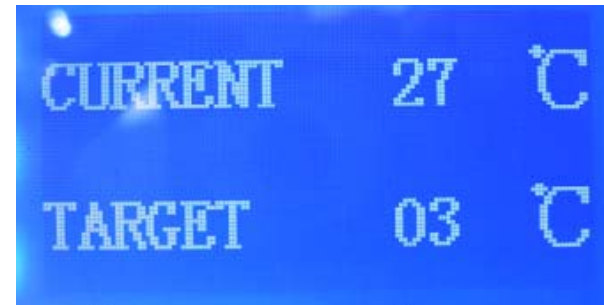
Press "J/↓"

Press "4" to choose Temperature Set, or Press "J/↓" when showing "4 Temperature", then press "4" or "#" to enter Temperature under ADVANCEDS menu
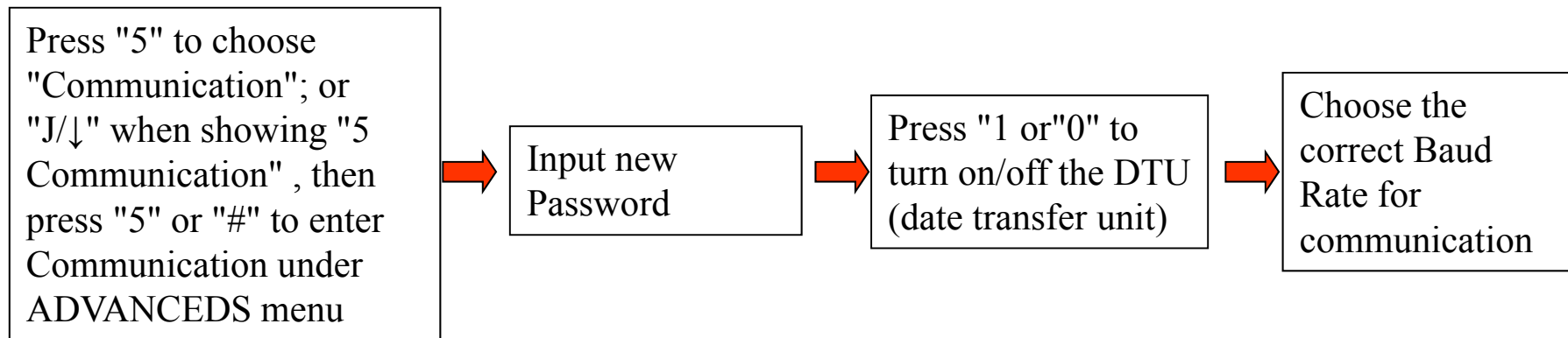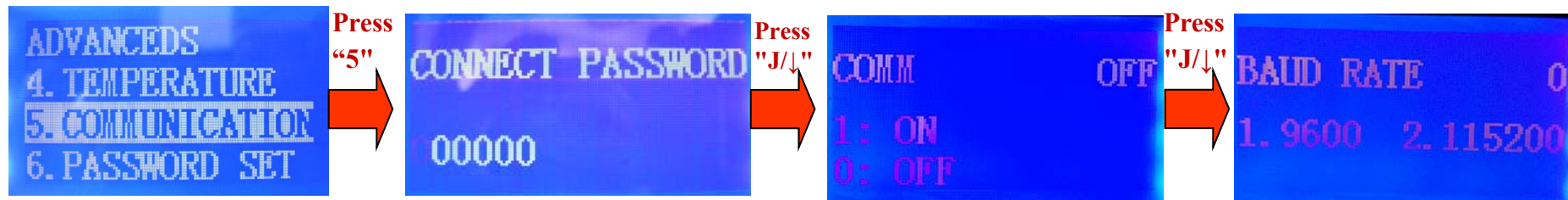
Input the Target price and Press "#" to save your setting

Press "0" and then "J/↓", you can set cooling timer (cooling periods) to start and stop refrigeration system automatically.
Press "1" to turn on the refrigeration system.
Press "2" to turn off the refrigeration system.
Press "#" to save your setting, and the LCD will show "SUCCESS".

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※5. Advanced Set----Communication Set

Note: The communication settings will only be applied when the machine comes with a China made DTU (telemetry) provided by the machine manufacturer.

Press "5" → **Press "J/↓"** → **Press "J/↓"**

ADVANCEDS	CONNECT PASSWORD	COMM OFF	BAUD RATE 0
4. TEMPERATURE		1: ON	1. 9600 2. 115200
5. COMMUNICATION	00000	0: OFF	
6. PASSWORD SET			

Press "5" to choose "Communication"; or "J/↓" when showing "5 Communication" , then press "5" or "#" to enter Communication under ADVANCEDS menu → Input new Password → Press "1 or"0" to turn on/off the DTU (date transfer unit) → Choose the correct Baud Rate for communication

※5. Advanced Set----Password Set

Note: For machines produced after June 2015, this password doesn't make any sense, so you can simply ignore it.
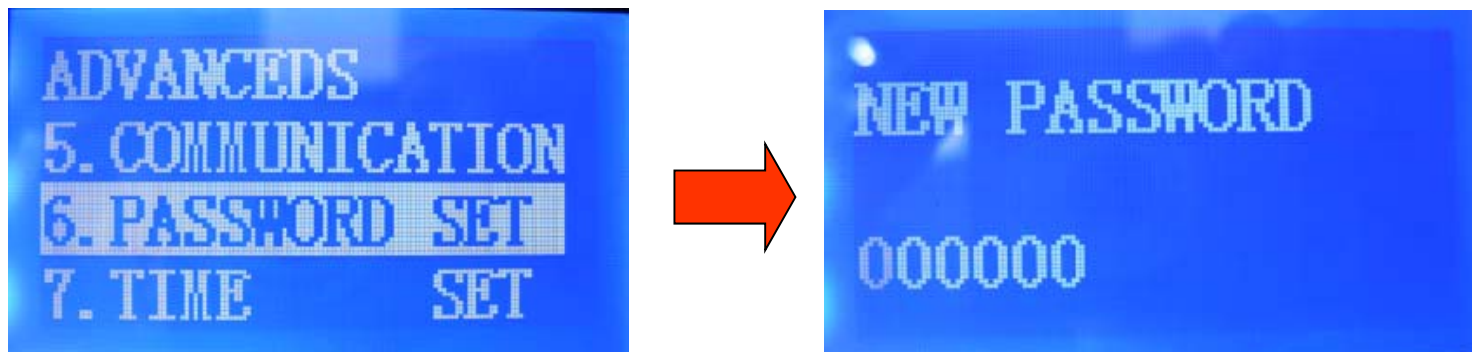
Press"6"to choose "Password Set"; or "J/↓"when showing "6 Password Set", then press "6" or "#" to Enter " Password Set" under ADVANCEDS menu

Input your own password and remember it, press"#" to save your settings
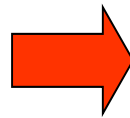
※5. Advanced Set----Time Set

| Press "7"or "J/↓" when showing "7" to enter into " Time Set" under ADVANCEDS menu | → | INPUT CORRECT DATE AND TIME | → | Press "#", Success! |

※5. Advanced Set----Language Set

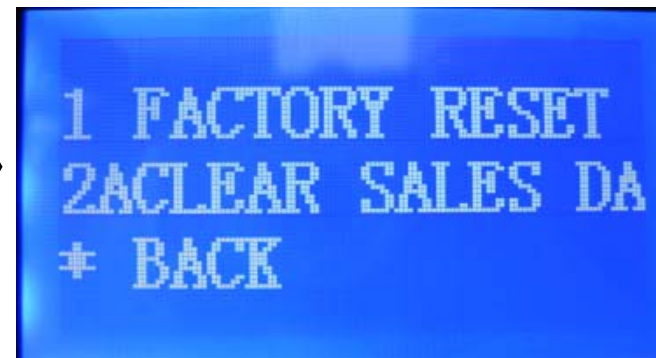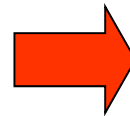Press "8" or "J/↓" when showing "8" to enter into "Language Set" under ADVANCEDS menu

Press "0"to choose English, or Press"1"to choose Chinese

※5. Advanced Set----**Default Set**

Press "9" or "J/↓"when showing "9"to enter into "Default Set" Under ADVANCEDS menu

Press "1" to restore the machine to factory default settings and all data will be cleared; Press "2" to clear the Sales Data only.

※6. MANAGE BILL

MANAGEMENT
5. ADVANCEDS
6. MANAGE BILL

Enter into Setup Mode, Press"6"to choose MANAGE BILL ; or Press "J/↓" when showing "6. MANAGE BILL", then press"6" or "#"

If the machine is not installed with a bill changer, it will prompt "NO BILL CHANGE".

If the machine is installed with a bill changer, you can refill the bill payout unit by inserting the designated bills from bill entry.

※7. Quick View of Machine Status

28C

WELCOME
1.MAKE SELECTION
2.INSERT MONEY

Press "H"

C B I   D ❄ 12

9600
0   0

Press "J/↓"

C = Coin Changer Connected; B = Bill Validator Connected
I = Card Reader Connected; D = Drop Sensor Connected;
Snowflake = Compressor is Working; 12 = Current Temperature;
9600 / 0 / 0 = related to factory telemetry system, please ignore

2216090276   ON
000   0000
ND_151205_KMT02
2016-09-13 10:15

Press "J/↓"

TARGET TEMP 03C

CONTROL MODE
OPEN

Press "J/↓"

MAC IS NORMAL

Factory ID, Data Transmit Status, Machine ID, Firmware Version Number, Machine Time Setting.

Current Temperature Settings

When there is something with the machine, the "ERROR CODES" will be displayed here; If everything is working, it will display "MAC IS NORMAL"