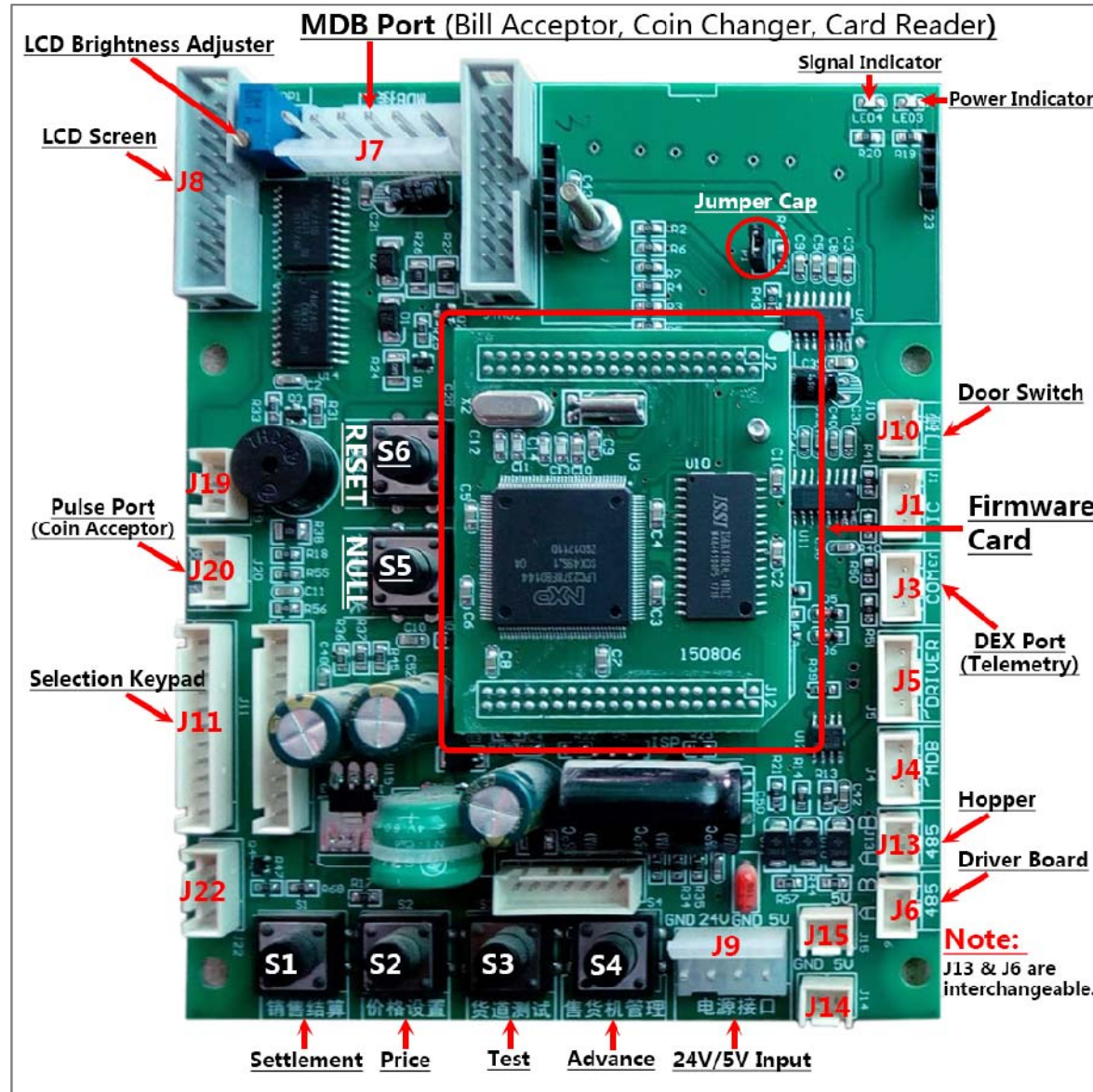


LIFT DRINK VENDING MACHINE

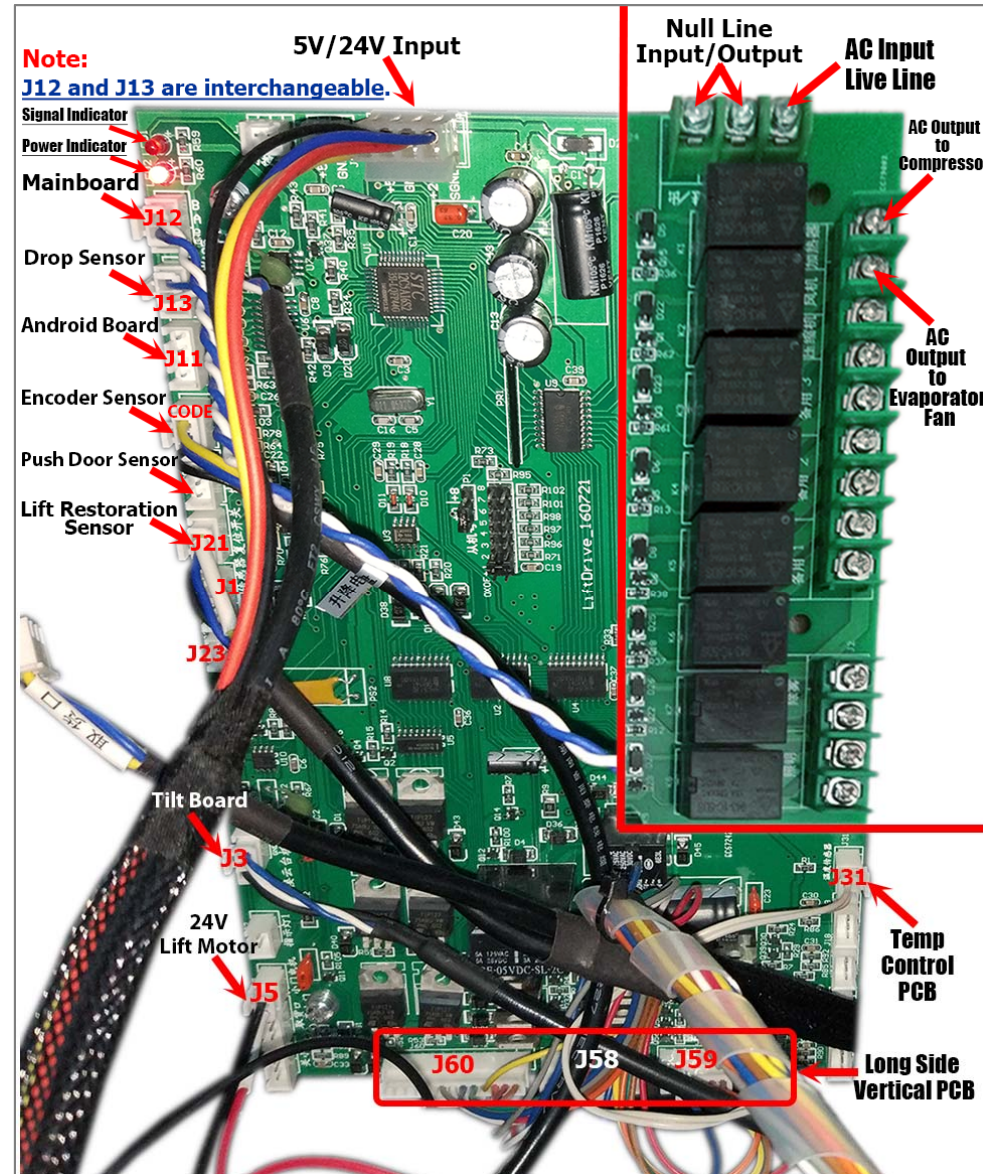


OPERATION MANUAL

Main Board



Driver Board



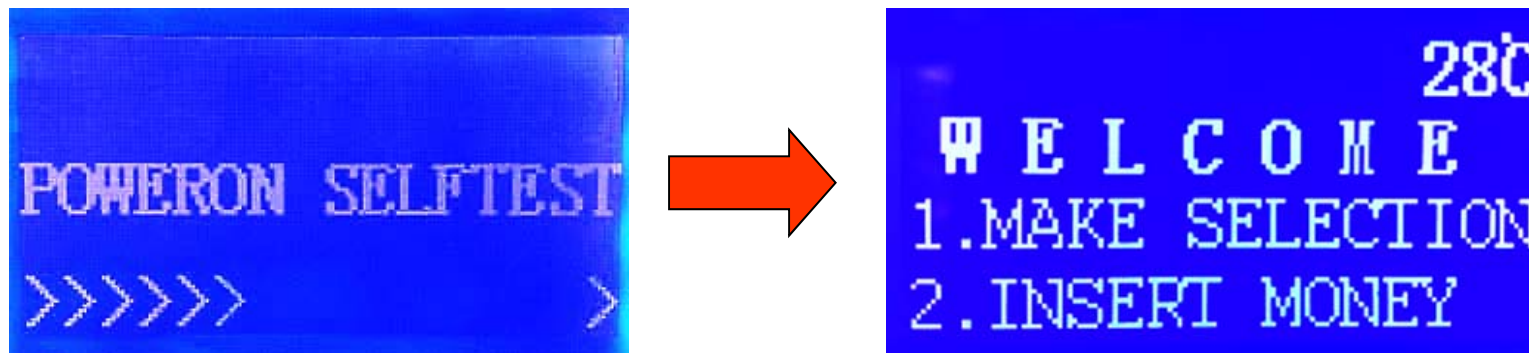
Selection Keypad



21-Key
Selection
Keypad

1. In the Standby Mode, here are the roles of the available Function Keys:
 - “H”: Quick View of Machine Status & Basic Settings (Press repeatedly to shift)
 - “↓”: Page Down
 - “*”: Access INVENTORY setting (**Only when door is open and INVENTORY is enabled**)
 - “0”: Clear the Credit (**Only when door is open**)
2. During the Purchase, this Function Key is available:
 - “*”: Cancel / Get Change.
3. In the Settings Mode, here are the roles of the available Function Keys:
 - “#”: Confirm / Enter
 - “*”: Cancel / Back / Exit
 - “↓” : Page Down / Cursor
 - “H”: Edit

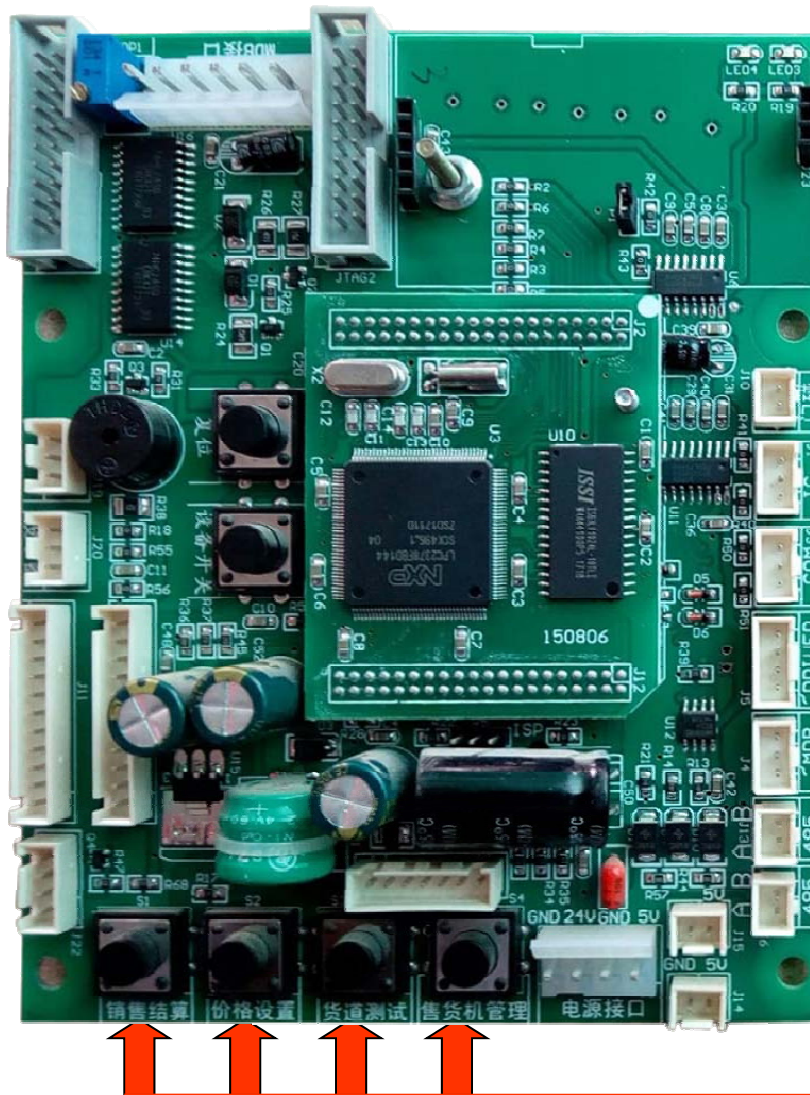
START & SELF-TEST



When power-on, the 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

SETTING MODE & HOTKEYS



Note:

You can always enter into SETTING 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

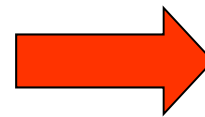
- S 1: SETTLEMENT (Audit Query)**
- S 2: PRICE (Price Setting)**
- S 3: TEST (Column/Motor Test)**
- S 4: ADVANCE (All Settings)**



※1.PRICE SETTING

- **Column Price Setting** --- set different prices for each columns;
- **Tray Price Setting** --- set same price for all columns on a tray.

※1.Price Setting-----Column Price Setting



Press "1" to enter into PRICE SETTING;
or Press "↓" to select "1.PRICE SETTING"
and press "#" to enter

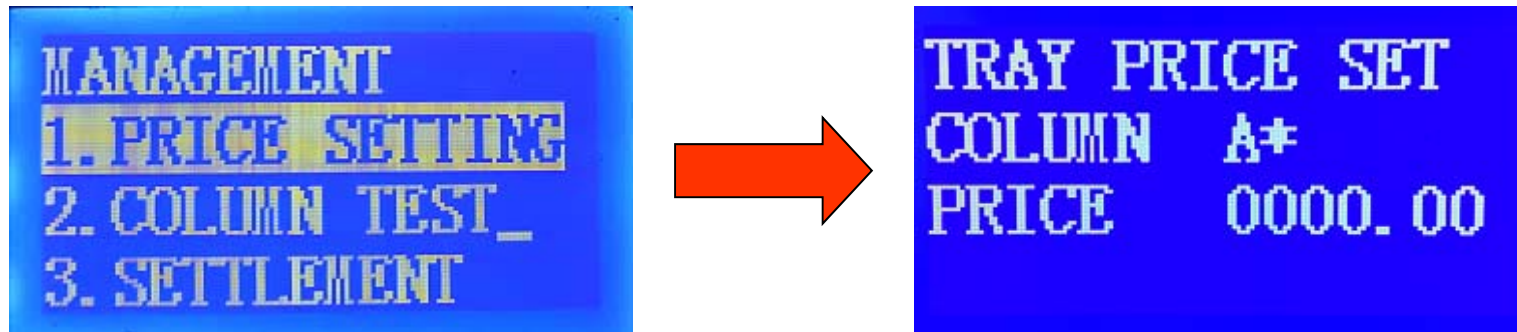


Input Column ID, and then input Unit price,
press "#" to save your settings.
e.g.: Input "A1", then input price, Press "#"



Press '↓' to set the price of the next column.

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



Press “1” to enter into PRICE SETTING;
or Press “↓” to select “1.PRICE SETTING”
and press “#” to enter

Input Tray ID and Press #,
and then input price, press
“#” to save your settings.
e.g: Input "A", Press "#",
then input price, Press "#"

All columns of
this tray are set at
the same price.



※2.COLUMN TEST

--- MOTOR TEST

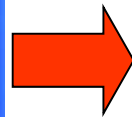
Note:

Motor Test is very useful, as it can make the motor go back to its starting position. When a motor gets stuck, you can always try to get it homed in by running a “Motor Test” to it.

※2.Column Test---Test a single Motor

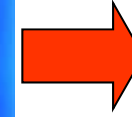
```

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

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.

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

Press "2" to enter into COLUMN TEST, or Press "↓" to select "2.COLUMN TEST" and then press "#" to enter

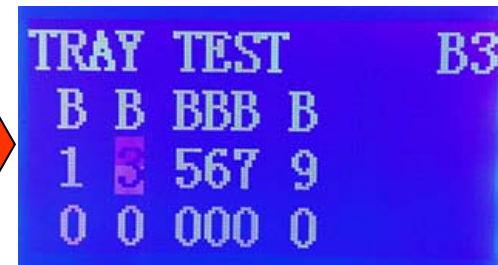
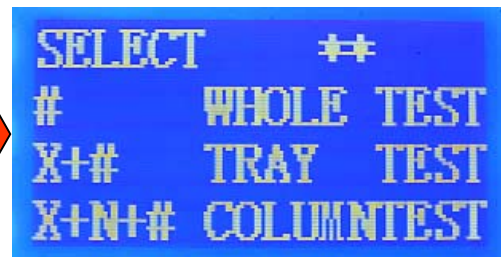


Press key X + N, then press "#", e.g. Press A and 6, then press "#" to test A6



Test the chosen Motor, it will rotate a circle.

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



Notice:

X represents Tray ID: A.B.C...

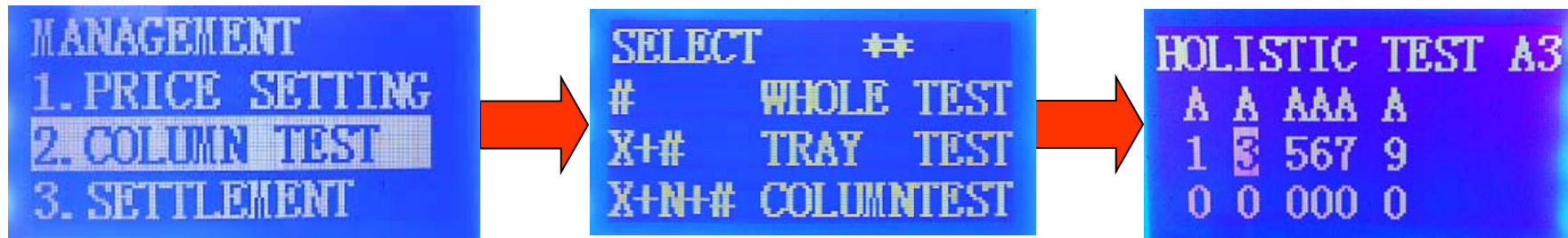
N represents Column ID: 1.2.3...

Press "2" to enter into COLUMN TEST, or Press "↓" to select "2.COLUMN TEST" and then press "#" to enter

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



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

Press "2" to enter into COLUMN TEST, or Press "↓" to select "2.COLUMN TEST" and then press "#" to enter

Press "#"

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



※3.SETTLEMENT

- Check/Clear Sales Statistics
- Check/Clear Cash Statistics

✳️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
    
```

Press "3" to enter into SETTLEMENT;
or Press "↓" to select "3.SETTLEMENT"
and press "#" to enter

Press "1" to enter Section Sales

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

Press 1 to clear Record

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

```

PRESS 1 TO
CLEAR RECORD
    
```

```

BILL      0.0
COIN.     0.0
CHANGE    0.0
CONFIS    0.0
    
```

Press "↓"

Press "↓"

※3.Settlement----Column Sales



Press "3" to enter into SETTLEMENT;
 or Press "↓" to select "3.SETTLEMENT" and then press "#" to enter

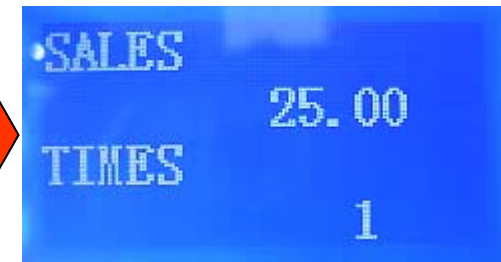
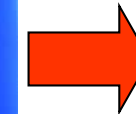
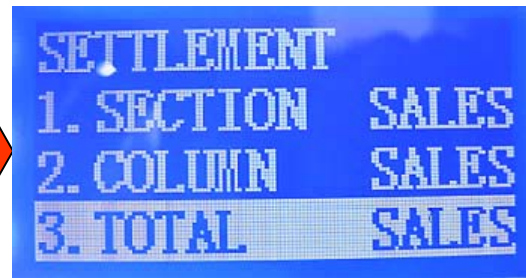
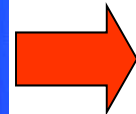


Press "2"



This is the total of the column since the last time it was cleared.
 Press "↓" to check the next column.

※3.Settlement-----Total Sales



Press "3" to enter into SETTLEMENT;
or Press "↓" to select "3.SETTLEMENT" and press "#" to enter



Press "3"



These are the historical total since machine initialization. It can only be cleared by choosing Clear Sales in Default Set (Re: [Page 28th](#))

※4.DIAGNOSTICS

MANAGEMENT
3. SETTLEMENT
4. DIAGNOSTICS
5. ADVANCED SET

Press "4" enter into
DIAGNOSTICS ;
or Press "↓" to select
"4.DIAGNOSTICS" and
press "#" to enter

When machine has no errors

MAC IS NORMAL

BILLACCEPTOR ERR

When machine has errors,
the error codes will be
shown here. Press "↓"
to check them one by one.

※5.ADVANCED SET

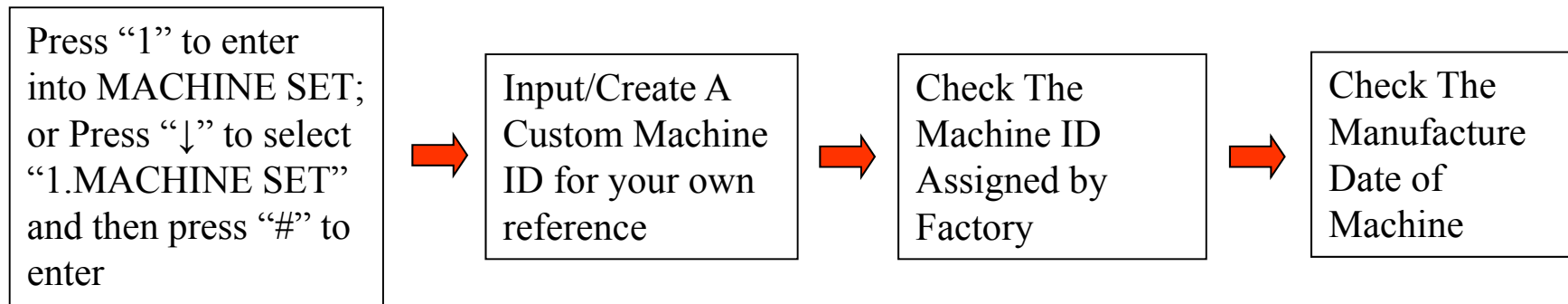
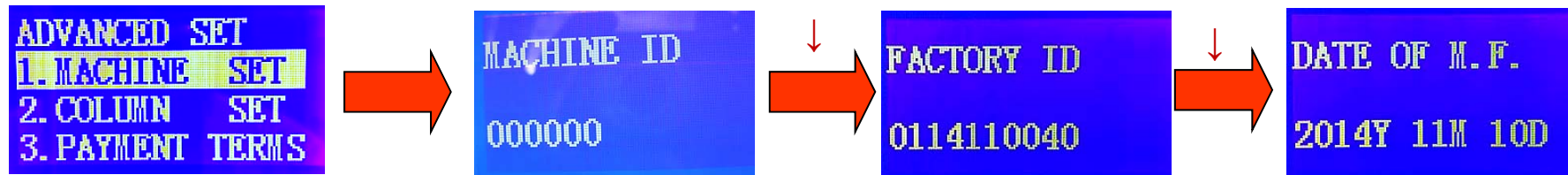


Press “5” to enter into
ADVANCED SET ;
or Press “↓” to select
“5.ADVANCED SET”
and press “#” to enter

5.Advaned Set

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

※5. Advanced Set----Machine Set



※5. Advanced Set----Column Set



Press "2" to enter into COLUMN SET;
 or Press "↓" to select "2.COLUMN SET" and then press "#" to enter



Input Tray No.
 e.g: A



E means the column is effective;
X means the column is disabled;
+ means the column is coupled to the adjacent column at the left side (i.e.: B3 is coupled to B2)
 Press H repeatedly to change the column state;
 Press ↓ to move the cursor.

※5. Advanced Set----Payment Terms

ADVANCED SET
2. COLUMN SET
3. PAYMENT TERMS
4. AMBIENT

Press "3" to enter into PAYMENT TERMS;
Or Press "↓" to select "3.PAYMENT TERMS"
and press "#" to enter

Press "3"

PURCHASE LOOP
1 ONCE 0 LOOP

Press "0" to allow Consecutive Vends or "1" for Single Vend (i.e. auto change give-back)

Press "↓"

COMPENSATE OFF
1 ON 0 OFF

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

Press "↓"

MUST BUY ON
1 ON 0 OFF

When it's ON, the inserted money cannot be returned until a purchase is made successfully.

"↓"

DROP MODE ON
1 ON 0 OFF

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

"↓"

DELIVER FIX
0 FIX
1 GROUP
2 CYCLE

- ❖ 0 FIX = vend by column code;
- ❖ 1 GROUP = each group of columns (e.g., all columns on the same tray) vend in sequence;
- ❖ 2 CYCLE = all columns (e.g., from A1 to F9) vend in sequence.

Note:
Must set as "0 Fix" for machines with a regular selection keypad.

"↓"

INVENTORY OFF
1 ON 0 OFF

- ❖ Choose "1 ON" and go on with the settings of INVENTORY and SPRING SET in the [Page 33](#) & [Page 34](#).
- ❖ **Recommended to choose "0 OFF"** for machines with a regular selection keypad.

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

※5. Advanced Set----Temperature Set

```

ADVANCED SET
3. PAYMENT TERMS
4. AMBIENT
5. COMMUNICATION
    
```

Press "4"

```

CURRENT: 31°C
COOL TARGET 05°C
HEAT TARGET 00°C
    
```

Press "↓"

```

CTRL MODE COOL
0 COOL
1 HEAT
2 AUTO
    
```

Press "↓"

Press "4" to enter in AMBIENT; or Press "↓" to select "4.AMBIENT" and press "#" to enter

Input Target Temperature and Press "#" to save & exit, or press "↓" do next.
Note: Must set HEAT TARGET as 00 if heating system is not installed.

Choose "0 COOL" for refrigerated machines; or Choose "1 HEAT" for machines with heating system

```

CONTROL MODE 1
0 FIXED TIME
1 ON
2 OFF
    
```

Press "1" and "↓"

```

WIND MODE 1
0 FIXED TIME
1 ON
2 OFF
    
```

Press #

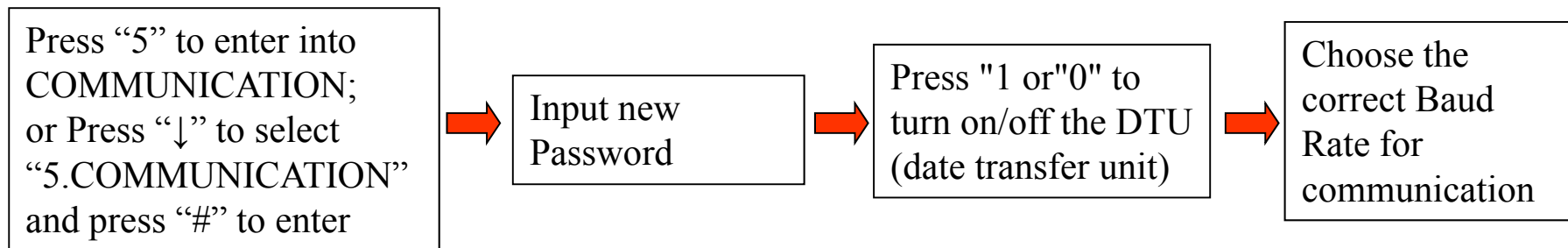
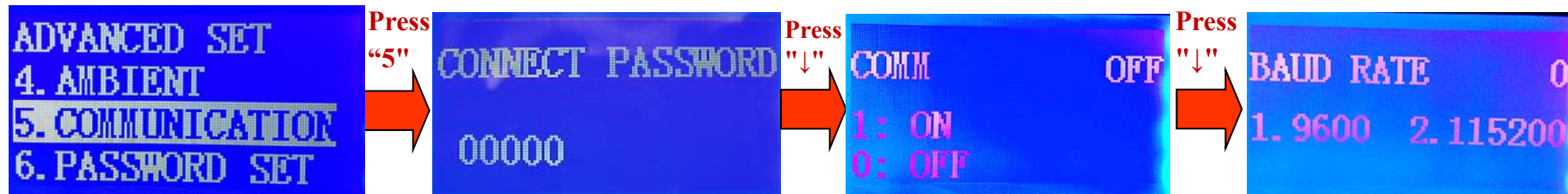
Press "#" to save your settings, and the LCD will prompt "SUCCESS".

Press "0" and then press "↓", you can set cooling/heating timer to start and stop cooling/heating system automatically.
 Press "1" to turn on cooling/heating system.
 Press "2" to turn off cooling/heating system.

Press "0" and then press "↓", you can set wind timer to start and stop evaporator fan automatically.
 Press "1" to turn on evaporator fan.
 Press "2" to turn off evaporator fan.

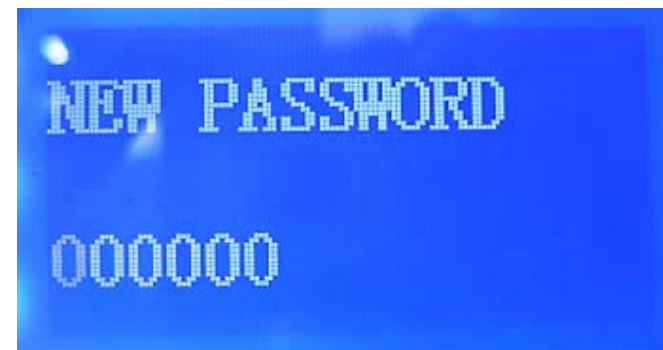
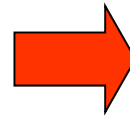
※5. Advanced Set----Communication Set

Note: Please just ignore the settings unless machines come with our factory's telemetry system.



※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 enter into
PASSWORD SET;
or Press "↓" to select
"6.PASSWORD SET"
and press # to enter.



Input your own
password and
remember it,
press"#" to save
your settings

※5. Advanced Set----Time Set



Press “7” to enter into
 TEME SET;
 or Press “↓” to select
 “7.TIME SET” and
 press “#” to enter.



INPUT
 CORRECT
 DATE AND
 TIME

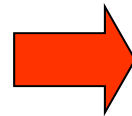


Press "#",
 Success!

※5. Advanced Set----Language Set

```

ADVANCED SET
7. TIME SET
8. LANGUAGE SET
9. DEFAULT SET
  
```



```

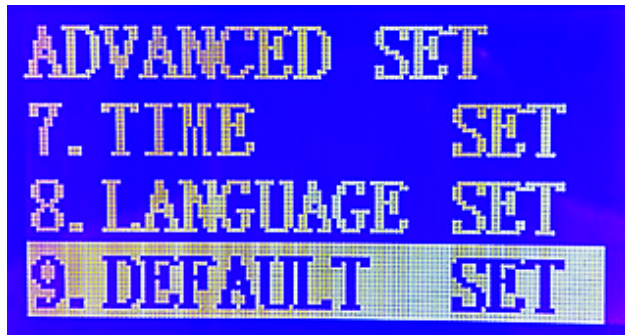
ENGLISH
0. ENGLISH
1. 中文
3. VOICE SET
  
```

Press 8 to enter into LANGUAGE SET;
or Press “↓” to select “8.LANGUAGE SET”
and press “#” to enter.

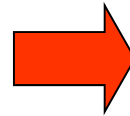


Press “0” for English,
or Press “1” for Chinese.
The “3. VOICE SET” only
for machines with voice
prompt function.

※5. Advanced Set----Default Set



```
ADVANCED SET
7. TIME      SET
8. LANGUAGE  SET
9. DEFAULT   SET
```



```
1 FACTORY RESET
2 CLEAR SALES
```

Press “9” to enter into
DEFAULT SET;
or Press “↓” to select
“9.DEFAULT SET” and
then press “#” to enter



Press "1" to restore
factory defaults and all
data will be cleared; Press
“2” to clear the historical
Sales Record only.

※6.MANAGE BILL



Press “6” to enter into
MANAGE BILL;
Or Press “↓” to select
“6.MANAGE BILL” and
then press “#” to enter.

If no bill recycler installed

NO BILL CHANGE

If bill recycler installed

AMOUNT
0 TYPE 50
CHANGE BOX EMPTY
1 RETURN

Insert the preset TYPE of bill (i.e., the bill denomination of 50 in the screenshot) to refill the bill payout unit. Press 1 to test and get bills returned from the bill payout unit.
Note: Please don't insert more than 25 pieces of bills.

※7.LIFT TEST (I)

```
MANAGEMENT
6. MANAGE BILL
7. LIFT TEST
8. INVENTORY
```

Enter into Setup Mode, Press "7" to access LIFT TEST ; or Press "↓" to choose "7 LIFT TEST", then press "#" to enter.

```
1 LIFT RESTORE
2 LIFT CHECK
3 LIFT CALIBRATE
4 LIFT MTR TEST
```

When lift gets stuck, please "1" to run "LIFT RESTORE".

```
LIFT RESTORE
LIFT CODE: *
```

Input LIFT CODE, the lift will automatically go back to its start position. Input "1" when machine has one lift system only.

```
LIFT RESTORE
LIFT CODE: 1
RESTORED
```

It will say "RESTORED" when restoration is done.

```
MANAGEMENT
6. MANAGE BILL
7. LIFT TEST
8. INVENTORY
```

Enter into Setup Mode, Press "7" to access LIFT TEST ; or Press "↓" to choose "7 LIFT TEST", then press "#" to enter.

```
1 LIFT RESTORE
2 LIFT CHECK
3 LIFT CALIBRATE
4 LIFT MTR TEST
```

When you want to check lift status, Press "2" to run "LIFT CHECK"

```
LIFT CHECK
LIFT CODE: *
```

Input LIFT CODE. When machine has one lift system only, input 1.

```
LIFT STUCK
DOOR LOCK 1
DOOR SENSOR 0
```

When lift is not at start position, it will prompt "LIFT STUCK".
* Delivery Door Lock and Sensor are not installed by default.

```
LIFT PSTN: 1
DOOR LOCK 1
DOOR SENSOR 0
```

"LIFT PSTN: 1" means lift is at start position.

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

※7.LIFT TEST (II)

```
MANAGEMENT
6. MANAGE BILL
7. LIFT TEST
8. INVENTORY
```

Enter into Setup Mode, Press "7" to access LIFT TEST ; or Press "↓" to choose "7 LIFT TEST", then press "#" to enter.

```
1 LIFT RESTORE
2 LIFT CHECK
3 LIFT CALIBRATE
4 LIFT MTR TEST
```

When the position of a tray is changed, press "3" to re-calibrate the lift for the tray.

```
LIFT CALIBRATE
LIFT CODE : *
```

Input LIFT CODE. When machine has one lift system only, input 1.

```
LIFT CALIBRATE
LIFT CODE : 1
COLUMN CODE : **
```

When calibrating lift for tray D, input any column code of tray D, e.g. "D1".

```
TARGET PSTN 000
COIL DELAY 000
TILTING DLY 116
DESCEND DLY 140
```

Only input new TARGET POSITION for the tray, and keep other settings default.

```
TARGET PSTN 240
COIL DELAY 000
TILTING DLY 116
DESCEND DLY 140
```

The referential TARGET POSITION of each tray is as follows:
A = 025, B = 100, C = 195,
D = 290, E = 385

```
LIFT RUNNING...
```

Press #, the machine will run a test vend.

```
E TRAY PARAM SET
1 SAVE SETTING
2 EXIT
3 DEFAULT SET
```

If the new set TARGET POSITION is ok, press 1 to save the setting.

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

※7.LIFT TEST (III)

```
MANAGEMENT
6. MANAGE BILL
7. LIFT TEST
8. INVENTORY
```

Enter into Setup Mode, Press "7" to access LIFT TEST ; or Press "↓" to choose "7 LIFT TEST", then press "#" to enter.

```
1 LIFT RESTORE
2 LIFT CHECK
3 LIFT CALIBRATE
4 LIFT MTR TEST
```

Press "4" to test all motors of lift system.

```
LIFT MOTOR TEST
LIFT CODE: *
```

Input LIFT CODE. When machine has one lift system only, input 1.

```
1 UP    2 DOWN
3 STOP
TILT 4 DOWN 5 UP
6 LOCK
```

Press 1, lift will go up; Press 2, lift will goes down; Press 3, lift will stop moving; Press 4, platform will tilt down; Press 5, platform will tilt back; Press 6, lock/unlock push door
*Ignore 4/5/6 for machines with full mechanical tilt platform.

```
MANAGEMENT
6. MANAGE BILL
7. LIFT TEST
8. INVENTORY
```

Enter into Setup Mode, Press "7" to access LIFT TEST ; or Press "↓" to choose "7 LIFT TEST", then press "#" to enter.

```
5 TILTING SET
```

When you want to check lift status, Press "2" to run "LIFT CHECK"

```
TILTING SET
LIFT CODE: *
```

Input LIFT CODE. When machine has one lift system only, input 1.

```
TILT PARAM
TILT DOWN 255
TILT DELAY 255
```

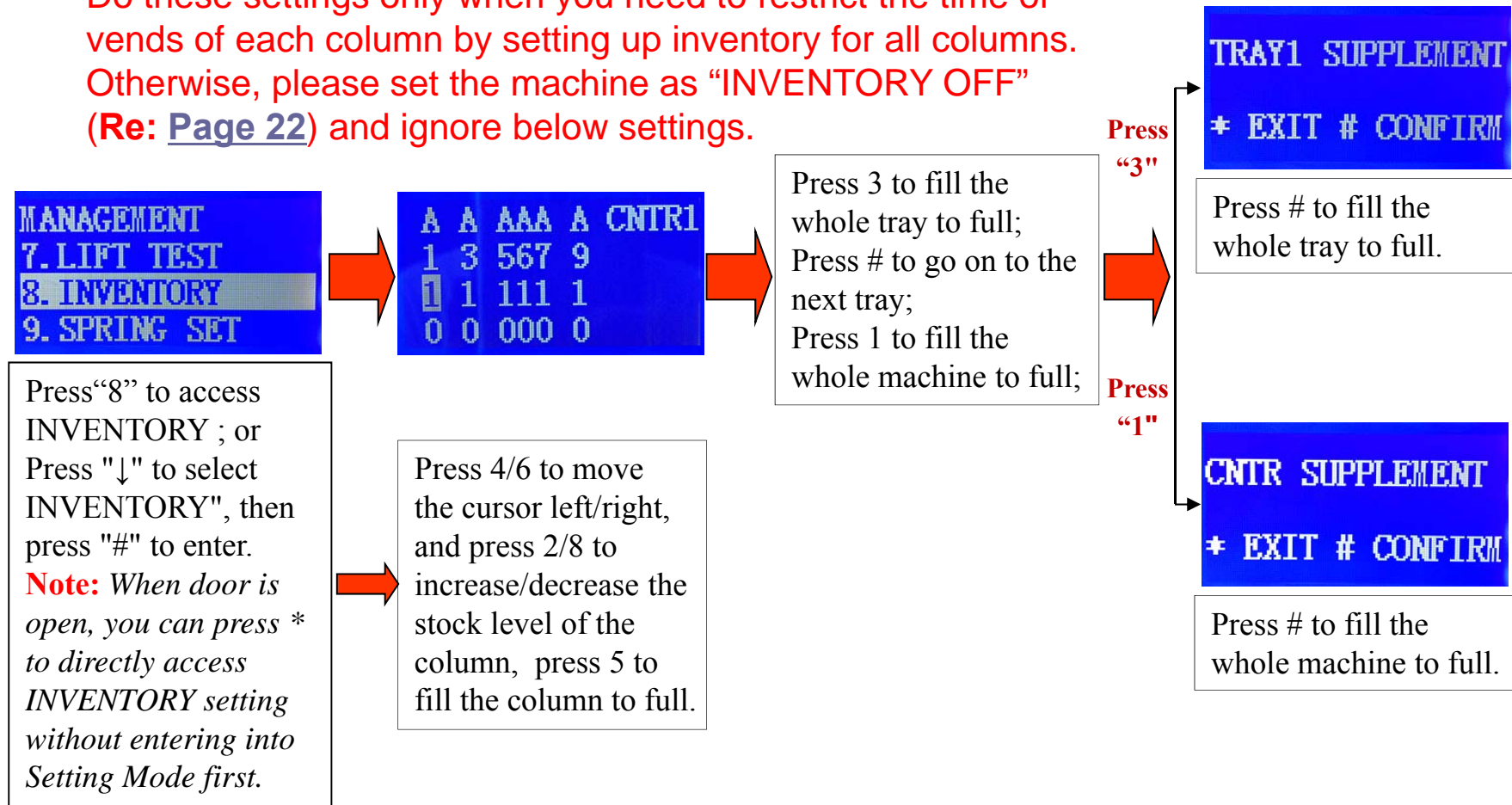
Keep default settings for the range of tilting down and the delay time of tilting back up.

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

✖8.INVENTORY

Note:

Do these settings only when you need to restrict the time of vends of each column by setting up inventory for all columns. Otherwise, please set the machine as "INVENTORY OFF" (Re: [Page 22](#)) and ignore below settings.

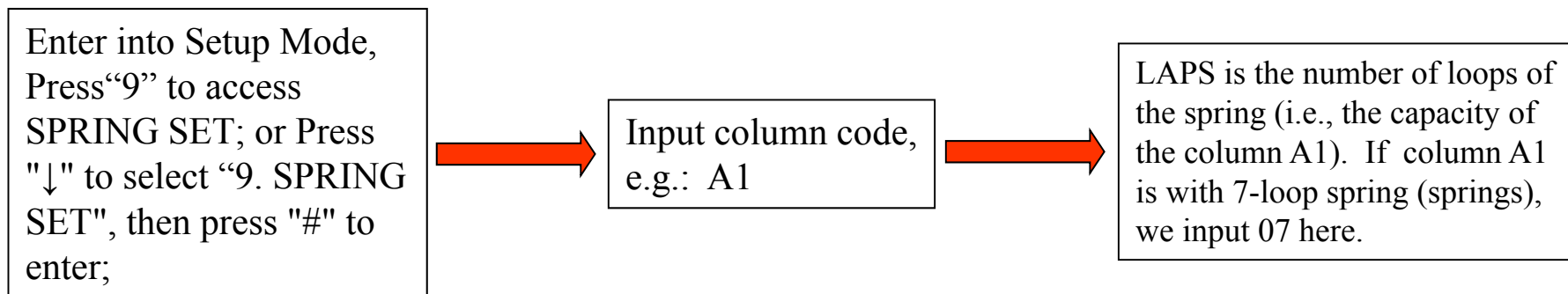


Notice: Press "#" to save your settings; Press "*" to back up or exit.

※9.SPRING SET---Set Column Capacity

Note:

Do these settings only when you need to restrict the time of vends of each column by setting up inventory for all columns. Otherwise, please set the machine as "INVENTORY OFF" (Re: [Page 22](#)) and ignore the below settings.



Quick Check of Machine Status

28°C
WELCOME
 1.MAKE SELECTION
 2.INSERT MONEY

Press "H" →

C B I  D  12
 9600
 0

Press "H" →

C = Coin Changer Connected; B = Bill Validator Connected
 I = Card Reader Connected; D = Drop Sensor Connected;
 Cabinet Sign: Driver Board Connected;
 Snowflake = Refrigeration Enabled; 12 = Current Temperature;
 9600 / 0 / 0 = related to factory's telemetry system, please ignore.

0114110040 OFF
 000 0000
 TY180301S1HBC1TR
 2010-01-01 00:01

Press "H" →

COOL TARGET: 05°C
 HEAT TARGET: 00°C
 COOLING: ON

Press "H" →

MAC IS NORMAL

Factory ID, Communication Setting, Machine ID, Firmware Version Number, System Time.

→

Temperature Control Settings

→

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

Coin Changer Instructions



COIN-RETURN BUTTON INSTRUCTIONS

1. Short Press to return one coin each time;
2. Long Press to return a few coins each time;
3. When refill an empty tube with the first few pieces of coins, press the corresponding return-button to make sure that the coins lie flat in the tube bottom and can be paid out successfully.
4. When tubes get a coin jam during change payout, manually empty the tube first, and then press the corresponding return-button to get the jammed paying-motor homed in.

TUBE LIMIT SENSOR INSTRUCTIONS

1. When coins in any of the 4 tubes are lower than its Bottom Limit Sensor, the machine will prompt "NO ENOUGH CHANGE" even if other tubes are full.
2. When coins in a tube are beyond its Top Limit Sensor, the new inserted coins will be sent to other tubes or coin box.
3. When a top/bottom mirror sticker comes off the tube, the corresponding sensor will fail to function.