Cosmic Vending Machines
Main Board & Driver Board

MAIN BOARD

DRIVER BOARD
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.

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

Defaulting Password: 000000
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.

Single Column price is successful. Press 'J/↓' to set All columns prices.
1. 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

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

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.

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

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

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 "#"

All motors of the machine will turn a circle. Press "*" or close door will stop testing
※3. SETTLEMENT
※3. Settlement----Section 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 "1" to enter Section Sales

Press 1 to clear Record

Press "J/↓"

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.
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

This is the total for the Tray since the last time it was cleared.
3. Settlement——Total Sales

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

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

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

No Errors for this machine

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

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.

To check Machine Manufacture Date:

- Input machine ID
- Input Factory ID
- J/↓ to check Date of M.F.
5. Advanced Set——Column Set

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

- 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.

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

- Compensate Off
  - Choose "0" as this function works in China only.

- Must Buy On
  - When it’s ON, no coin change will be given until a purchase is made successfully.

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

- Deliver Fix
  - 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

5.1 Temperature Set

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".
※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" to choose "Communication"; or "J/↓" when showing "5 Communication", then press "5" or "#" to enter Communication under ADVANCEDS menu.

Choose the correct Baud Rate for communication.

Press "5" to connect password.

Press "J/↓" to turn on/off the DTU (date transfer unit).

Input new Password.
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

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

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


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