



**PANDA VENDING LIMITED**

## Snack & Drink Vending Machines

			
Semi-Refrigerated Vendor (KM001)	Nonrefrigerated Vendor (KM002)	Small Refrigerated Vendor (KM004)	Large Refrigerated Vendor (KM006)

## Installation and Operation Manual

PANDA VENDING LIMITED  
[www.pandavending.com](http://www.pandavending.com)

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# Chapter 1 Quick Instruction

## 1.1 Pre-Use preliminaries

### 1.1.1 Unpack machines and components

Dismantle all packing materials such as wooden base, tapes, strands, form plastics, cardboard, etc.

### 1.1.2 Lay the machine in a suitable location

Details refer to chapter 3 <<Transportation and laying>> and chapter 8 <<maintenance and trouble shooting>>

### 1.1.3 Power on, machine self-test

When the door is open, door handle and lock will mount out automatically. Insert the key, spin the handle counter-clockwise till the the lock completely open, then pull the lock handle to open the door. For more details, pls see chapter 5<<testing>> and <<diagnose>>

### 1.1.4 Loading commodities

See chapter 6

### 1.1.5 Set prices

Before you use the machine, you should first set price of each selection of products and stick price labels, which are offered together with machines, onto each track accordinly.

See chapter 5<<Administrator's programming guide>> for more details.

### 1.1.6 Set modes.

Please see chapter 7<<Opertor's guide>> for more details.

### 1.1.7 Loading coins for change

You need to load enough amount of coins into coin mechanism. (e.g. approximately 90 pieces of 50 cents and 240 pieces of one dollar). Make sure the door of coin tube is closed.

Please refer to chapter 10 <<Installingl a coin mechanism>>

### 1.1.8 Delivery Tests

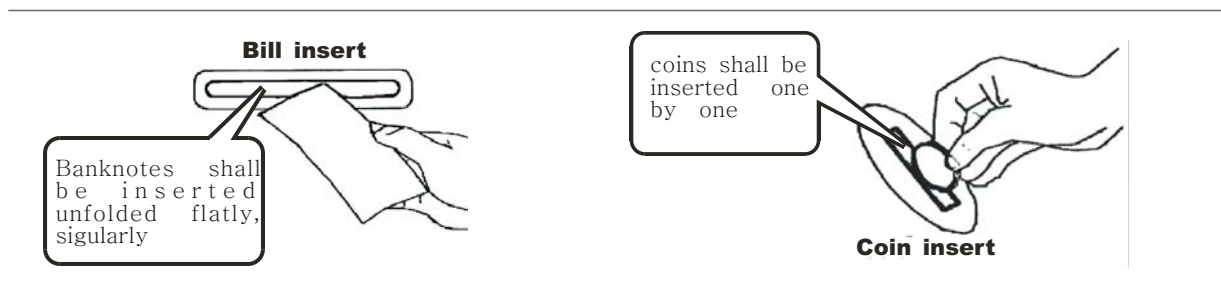
## 1. 2 Customer's operation guide

As required in the part of peruse preliminaries, cutomers can use the vending machines according to the following steps.

### 1. 2. 1 insert cash

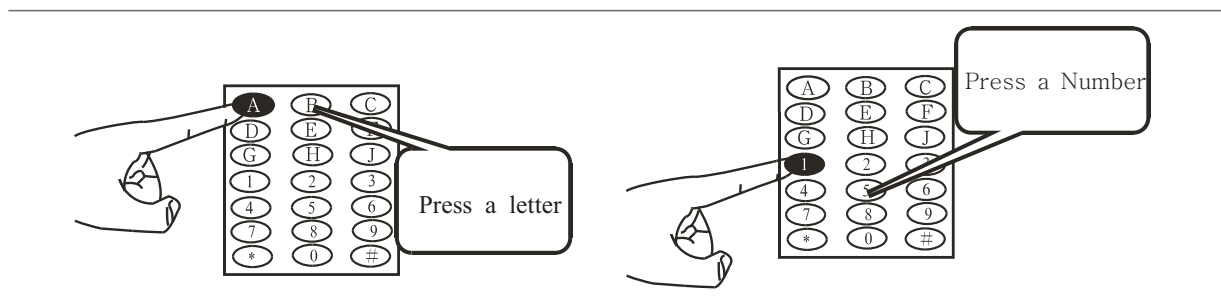
Through bill validators or coin acceptors, insert banknotes or coins with suitable and acceptable kinds of cash.

You may insert one bill or one piece of coin at a time, and after a 2-second interval, you can continue inserting money.



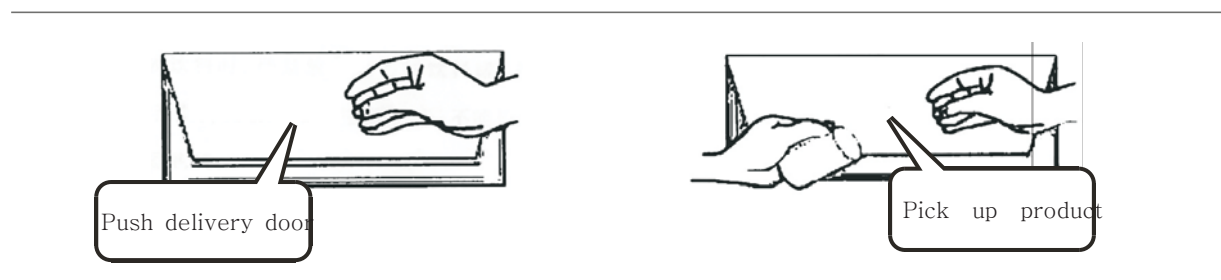
### 1. 2. 2 Select product and enter commodity number

Check the commodity number of product needed through glass window of machine and press it on customer's keyboard. After entering valid number, machine will automatically deliver that product into delivery box



### 1. 2. 3 Picking up product

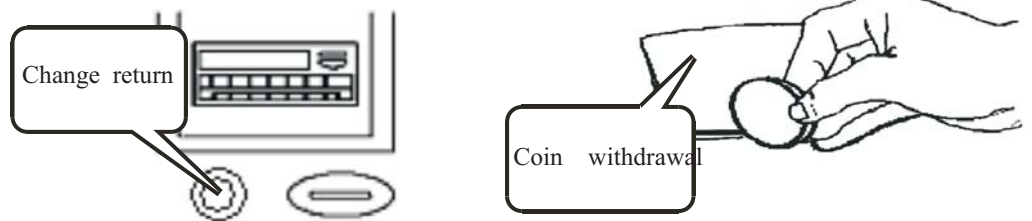
Push the delivery door forward and pick the product you have bought.



#### 1. 2. 4 **coin return/change-giving**

Press the coin-return button, and get coins change in coin return box.

Note: Coin payment and IC card payment method can not be accepted simultaneous or mixingly.



#### 1. 2. 5 **continue purchases**

(1)When credit is enough, if more products needed, please repeat step 2.

(2)when credit is not enough for another purchase, please repeat step 1 and step 2



# Chapter 2 Cautions

## 2.1 Signs of warning












### Kinds and meaning of different signs

WATCH THROUGHOUT THE SIGNS. THIS PART INDICATES A POINT OF SPECIAL IMPORTANT INFORMATION OR A HINT THAT IS RELATED TO SAFETY, WHICH YOU MUST PAY ATTENTION TO

#### Meanings of Safety symbols

	Warning	A potential death or injury hazard exists.
	Cautions	A potential injury hazard or material destruction exists.

#### Hazard symbols and meanings

	Prohibition		No dismantling permitted.
			No touch!
	It should be noted or obeyed		Must connect to ground
			Must power off
	Cautions and special notes		Explosive
			Potential Electrical shock hazard
			Danger of finger clipped
			Flammable

## 2.2 Notices for safety reasons

### 2.2.1 Power source

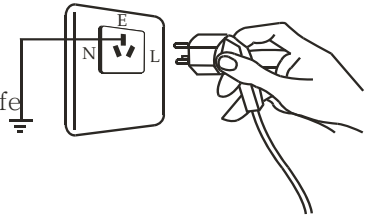


The standby voltage, Herz and Amperes applied to our vending machines are 220V/50Hz/6A or 115V/60 Hz/12A. If the voltage is altering in a relatively wide range (for AV 220V/50Hz,if voltage is at 187~242V ;or for AV 115V/60 Hz, voltage is at 105~125V ) , it may cause abnormal sound of compressor, abnormal working condition of machine, or result in burning of conral panel and compressor and other troubles. To avoid these problems, a voltage-steady device (over 1000Watt)is required to use additionally.

### 2.2.2 Ground



A three-pin plug is used in the power harness , In whatever condition, never cut out or dismantle this three-pin plug. A reserved isolated socket shall be used for safe ground connection purposes.

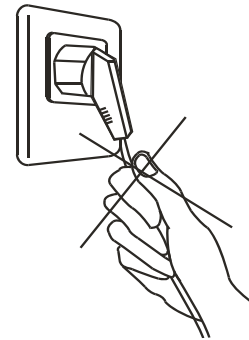


### 2.2.3 Protect the power harness cable



Do not pull or trundle the cable. Make sure to pull out the plug directly from socket by holding tightly the plug itself instead of handling the cable;

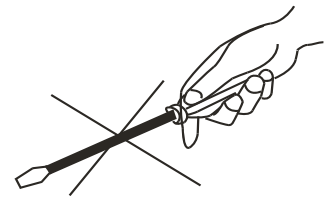
When transporting or moving machine,please store the cable into the power harness cable box.



### 2.2.4 Strict prohibition of dismantling or modification by untrained technician.



Repair and maintenencerequires a qualified trained technician to perform the particular task , or unrepairable trouble may be caused.



### 2.2.5It is strictly prohibited to load



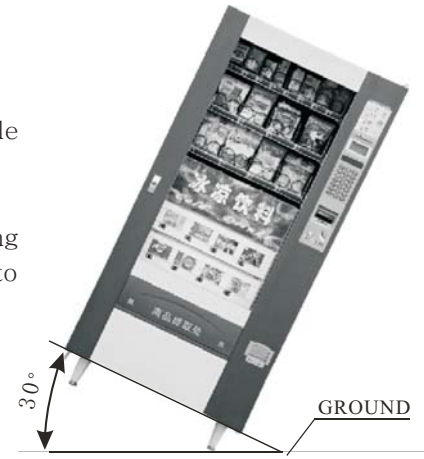
**flammable, explosive hazardous articles or materials with dense corrosive acids or alkalis.**

# Chapter 3 transportation and installation

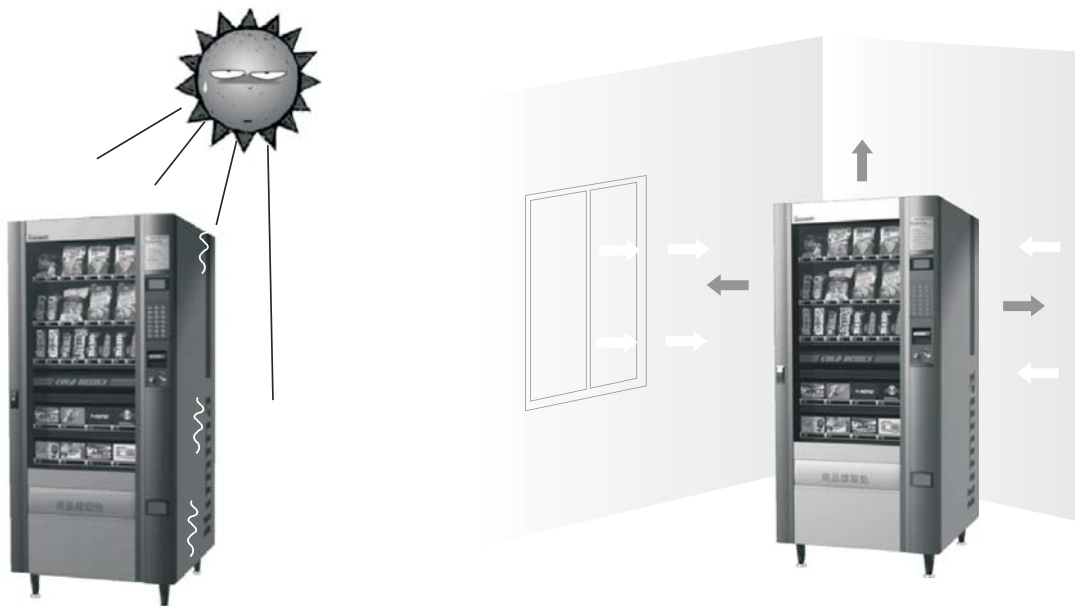
## 3.1 Moval of machine

NOTE!!

- (1) Power off machine and pull out the plug, sort out And fix cable steady.
- (2) Take out all food or beverages from the vendor
- (3) Use tapes or straps to stablize trays and movable components.
- (4) Lock the cabinet door
- (5) Use specialized lifter to move machine and during the process of moving, keep the incline angle to the horizontal at a maximum 30 degree, to Prevent malfunction of cooling system.



## 3.2 Environment requirements of Sites



- 1) Keep machine far away from heat resource, avoid straight Sunlight rays.

- 2) the site should be adequately Ventilated, reserve an at least 100mm wide space around the sides including back side of machine.

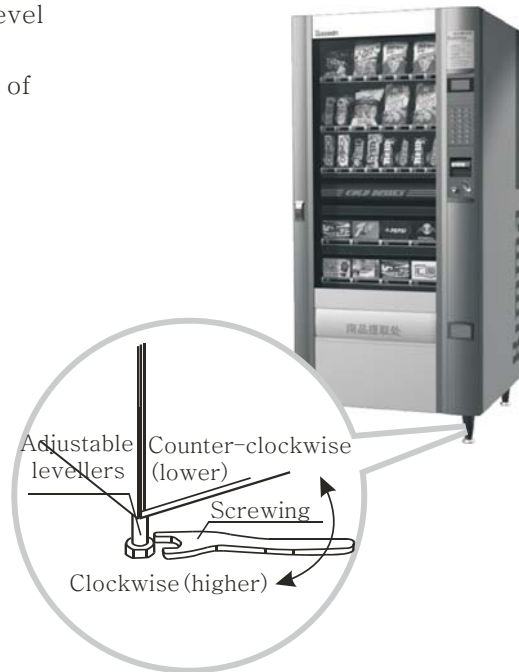
- 3) do not put machine in damp or wet places which easily make machine get splashed water drops. In case that any water drop or dirt splashed onto machine, they should be cleaned with a soft cloth promptly.
- 4) If the machine site is adjacent to a door or under a roof, a rain-proof or sunshine-proof shelter shall be used.



### 3.3 installation of machine

Locate vending machine on solid level ground.

Use a wrench to adjust the height of machine by screwing the leg levellers clockwise to increase or counter-clockwise to decrease height



# Chapter 4 、 Descriptions of vending machine

## 4. 1. Specifications and fields of application

### 4. 1. 1 Combo Machine (KM001A & KM001B)

It can sell bottled or canned cold beverages with specialized size (at an adjustable temperature of 3°C ~14°C) and also vend small regular supplies such as snacks. It was featured at a combination function of a set of beverage machine with a set of non-refrigerated snack machine adaptable to changes of different seasonsable to save electricity costs site rentals and invested capitals on machinery.

### 4. 1. 2 Snack Machine (KM002)

It is a vendor of non-refrigerated snacks or OTC medicines, or commodities with certain special usage. It has a feature of single application, low cost on electricity, simple machinery structure, easy in use and maintenance, small investment requirement.

### 4. 1. 3 Glassfront Machine (KM003, KM004)

It can sell chilled beverages and chilled snacks at the same time, without specified requirements in size of the products sold, no matter bottled, canned or cartoned. It is also flexible for a wider variety of snacks, such as chocolates, sausages, fruits, or milk. But it has a demerit of high consumption of electricity. All trays can be loaded with beverages, with temperature set at 3°C ~14°C, .

Model No Item	Snack Machine KM002	Combo Machine KM001A, KM001B	Refrigerated Machine KM003, KM004
<b>Dimensions</b>	830 (W) × 880 (D) × 1830 (H) mm	830 (W) × 880 (D) × 1830 (H) mm	820 (W) × 720 (D) × 1690 (H) mm 820 (W) × 720 (D) × 1930 (H) mm
<b>Weight (Kg)</b>	213Kg	272Kg	200Kg
<b>Capacity (standard Configuration)</b>	Snack: 28 selections 392 pcs To be increased if needed	Snack: 16 kinds 218 pcs drinks: KM001A can load 8 kinds, 136 pcs M001B can load 4 kinds, 88 pcs of canned drinks, 2 kinds of bottled drinks, 28 purchase	30 selections 150 purchase
<b>Power</b>	AV 220V ±15% 50Hz or 115V ±10% 60Hz	AV 220V ±15% 50Hz or 115V ±10% 60Hz	AV 220V ±15% 50Hz or 115V ±10% 60Hz
<b>Maximum Watts</b>	<60W	<300W	<400W
<b>Average energy consumption</b>	Approx. 0.7KWH/day	2.6KWH/day	6KWH/day
<b>Type of e-shock proof</b>	type I	I type	type I
<b>Temperature</b>	—————	3°C ~ 14°C (adjustable)	3°C ~ 14°C (adjustable)
<b>Refrigerant</b>	—————	R134a	R134a
<b>Condition of use</b>	Indoor	Indoor	Indoor

(Notes: All the above parameters are subjected to changes according to technical advancement or revolution without notice.)

## **4.2 Product characters**

### **4.2.1 Cash payment systems**

Control system is compatible international MDB standard easily support coin acceptors and banknote validators, IC card readers and other module for payment, flexible and adjustable to various payment methods.

### **4.2.2 entertainment functions in vending (optional, extra purchase required)**

Machines can be equipped additionally with various interesting managing programs for commercial promotion, such as a Winner mode, Free Vend mode, discounted vend mode, by direct connection with gaming module (with lamps, lights, electricity) . Users are able to enjoy entertainment functions optionally.

### **4.2.3 Intelligent management**

The system has powerful function in data-management which is able to summarize, analyze and calculate according to sales data. Meanwhile, it is also able to self-diagnose and alert in advance in the event of malfunction occurring, which ensure the machine keep in good state for working. Machines can compose a net for operational management in order to improve efficiency.

### **4.2.4 abundant selections of commodities**

Machine can adapt to vending for all kinds of packages of beverages and snacks. Columns of goods delivery are easy to adjust according to product size, width and thickness. Capacity of product storage is easily adjustable due to changes of seasons.

### **4.2.5 environment-friendly and energy-saving**

Fluorine-free and environment-friendly R134A refrigerant is applied to cooling system. A noise reducing system and advanced crafts in spraying and painting effectively reduce disturbance and pollution to environment. KM Vender 2.0 Micro-Control system contains an intelligent computer-operated module for temperature controlling which allows operators to adjust the cooling modes of machine according to different surroundings outside in different kinds of climate, season and weather in order to save electricity consumption with a maximum extent.

### **4.2.6 User-friendly Design**

Extra large sized LCD display screen with scrolling message, giving friendly instructions to customers to make purchases convenient. It's easy for super users to master operational functions and settings through Menu and operator's keyboard.

### **4.2.7 Fine Designed machine-security System**

We takes quite a few effective measures included in the design of inner structures in order to prevent products, cash inside machines from burglary, intentional or unintentional fierce hitting, damage and other machine vandalism on the delivery door. The elaborately designed multi-securing functions proved themselves efficient in anti-burglary.

#### 4.2.8 **Error self-diagnose**

Machine can quickly automatically diagnose problems or errors existing in itself or malfunction in bill validator or coin acceptor module, then remind operators the error occurred information to facilitate effective routine work.

#### 4.2.9 **Surevend system (optional)**

Secure&SureVend , integrated with international standard is a infra-red vend security system, which guarantees that a product will be dispensed or credit returned thus ensuring customer satisfaction and reducing the chance of machine vandalism.

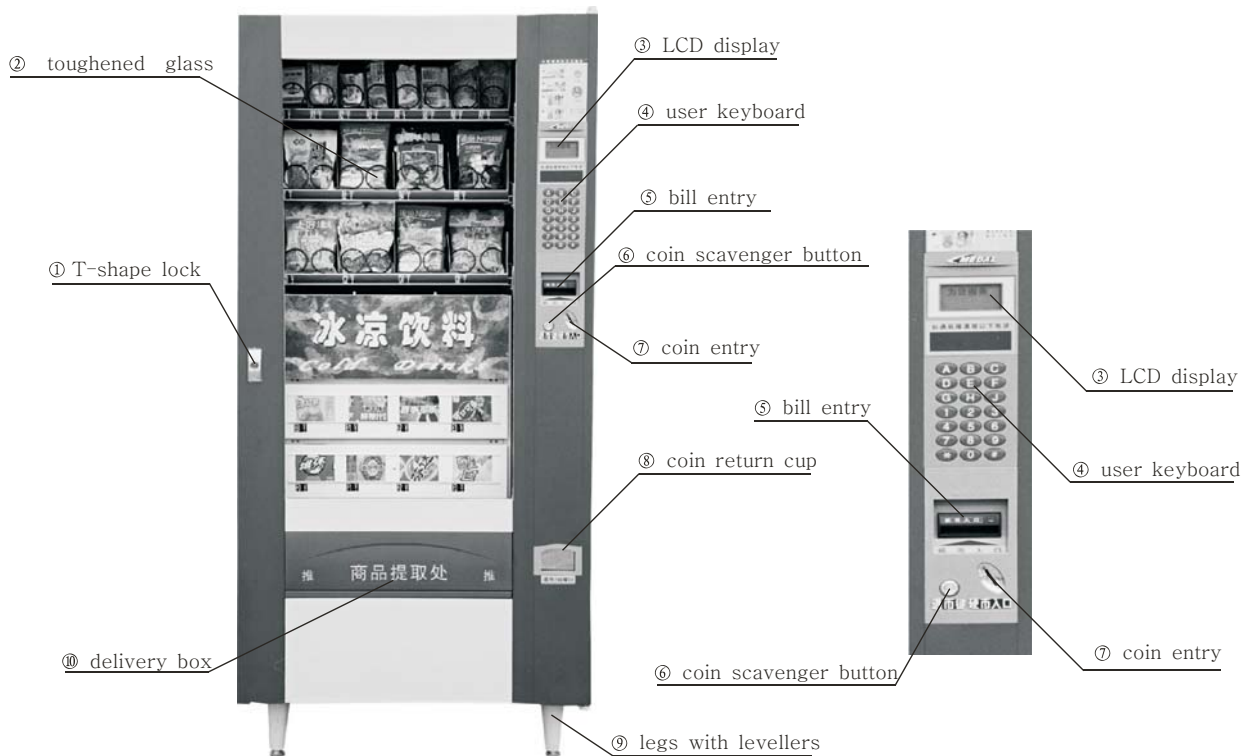
The above listed features are embodied in machine with different model number. Administrator shall read carefully on those machine descriptions. Due to technical improvement, specifications may be slightly different with the machine you purchase.

## 4. 3. the sketch maps of vending machines and their key parts

### 4. 3. 1, the sketch map of combo machine series and their key parts

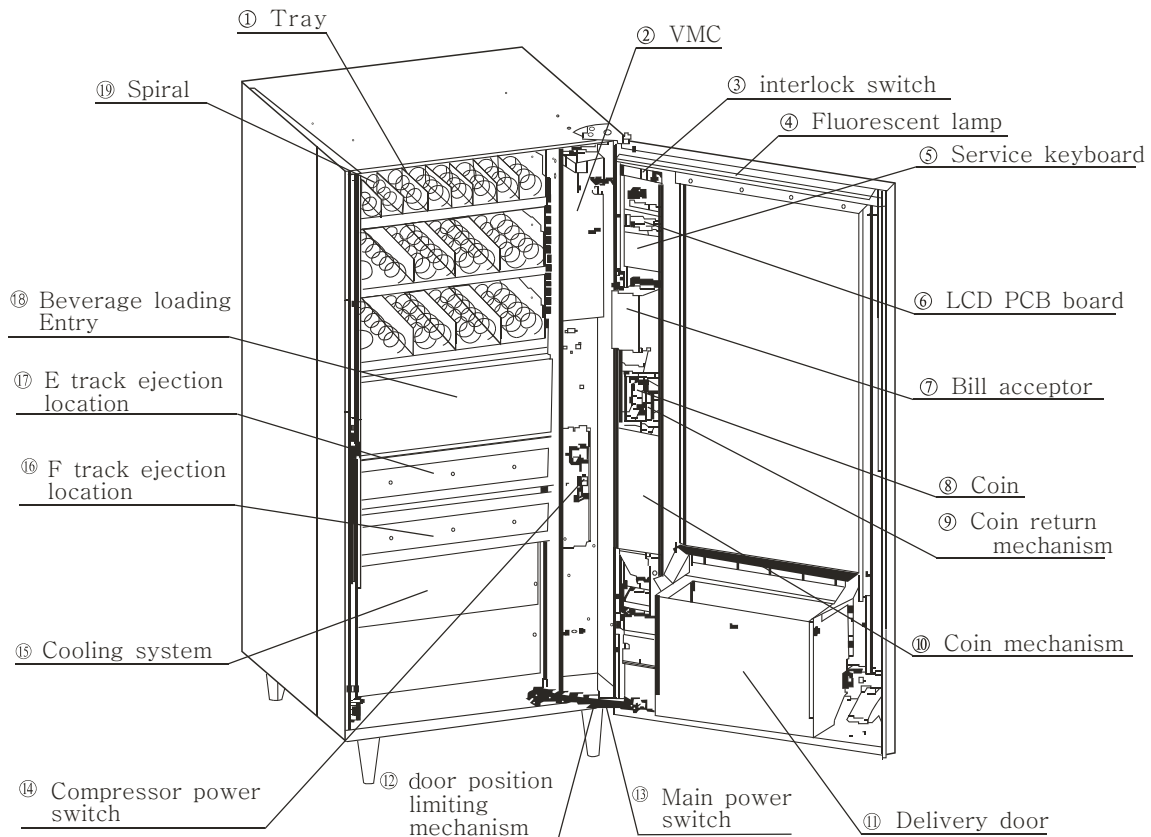
There are two types of combo machines , KM001A and KM001B, sharing the same sketch map

#### (1) outlook sketch map of combo machines



- ① T shaped lock. It is a sort of vending machine- oriented lock with high Intensity and excellent quality for against theft.
- ② Toughened glass, It' s a sort of high intensity glass with safet quality to man In case of crashed.
- ③ LCD. A visual interface used here to show the operating status of machine.
- ④ User keyboard. Used for buyer to execute the vending operation.
- ⑤ Bill entry, insert a bill here for buyer.
- ⑥ Coin return button: a key for buyer to press to get his/her changes.
- ⑦ Coin entry. Insert coins here (one by one) for buyer.
- ⑧ Coin return cup. Buyer gets his/her coin balance here.
- ⑨ Leg with levelers
- ⑩ Delivery door, which is either convenient for buyer to get the product or Anti-theft.

## (2) the inside look of machine



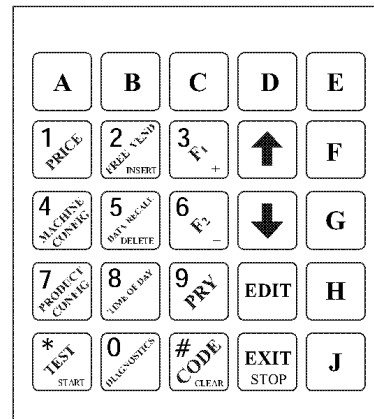
- ① **Tray**: product loaded here and dispensed by its spiral as a vending action.
- ② **VMC**, the micro-computer controller of vending machine with 6 tray interface from A to E , Mdb interface , power supply interface, temperature controlling board interface, led power indicator (on for working) and led software working indicator (flash for working) etc.
- ③ Cabinet door **interlock switch**, when the cabinet door is open, the switch enable the service keyboard for service personnel to operate, otherwise service keyboard is disable, only the User keyboard is available.
- ④ **Fluorescent lamp**: it is used to light the machine.
- ⑤ **Service keyboard**: it gives the service personnel the means to program, retrieve data from , and view diagnostic information about , the vending machine.
- ⑥ **LCD PCB board** which controls the display information of LCD and connects the service Personnel keyboard as well as the cabinet interlock door switch.
- ⑦ **Bill acceptor** , a optional equipment used to accept and store the specific bills.
- ⑧ **Coin track**: a coin passing way between the coin inserting entry of the vending machine to the entry of the coin mechanism.
- ⑨ **Coin return mechanism**: a set of mechanism used to pass the return action which origins from the coin return button of the vending machine and ends at the return rocky of the coin mechanism.
- ⑩ **Coin mechanism**. A indispensable equipment which is capable of accepting , storing and Dispensing coins. it interfaces with the VMC through MDB protocol.

- ⑪ **Delivery door**, which is either convenient for buyer to get the product or anti-theft.
- ⑫ **Cabinet door position limiting mechanism**, used to keep the door open at some Specific Position to protect the appliance of he machine.
- ⑬ **Main power switch**: Integrated with a creepage protector, this switch is used to offer AC Power to the vending machine.
- ⑭ **Compressor power switch**, which is used to turn on or off the cooling system.
- ⑮ **Cooling system**, which is used to decrease ,keep at a lower level of temperature.
- ⑯ **F track ejection location**: The beverage dispensing exit of Channel F.
- ⑰ **E track ejection location**: The beverage dispensing exit of Channel E.
- ⑱ **Beverage loading Entry**, which is used to load channel E and F with can/bottle.
- ⑲ **Spiral**, which is used to push the item out of the tray while vending.

**• the sketch map of service keyboard.**

Service keyboard: it gives the service personnel the means to program, retrieve data from , and view diagnostic information about , the vending machine.

If your machine is not configured with a service keyboard, you can skip this part and turn to the next part.



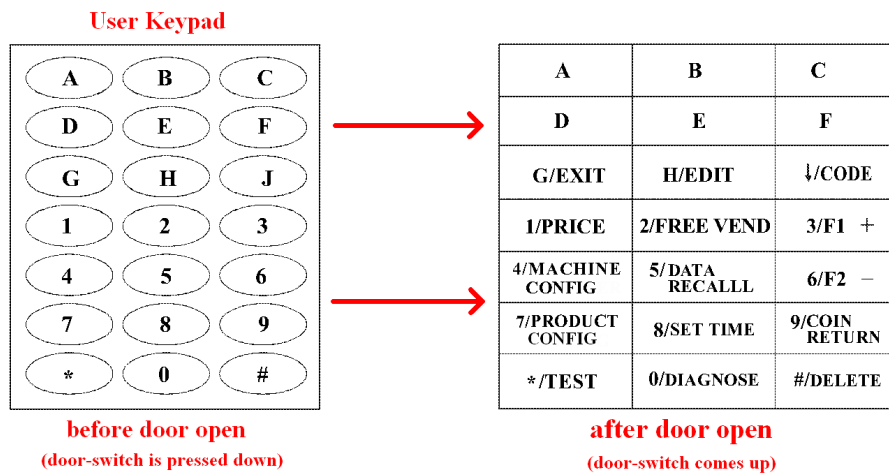
**Note -**

All machines produced after April, 2008 are without this service keyboard.

**• the sketch map of user keyboard**

If the machine is not configured with a service keyboard, you can do the same service by means of the user keyboard. (Some new machine will not be configured with a service keyboard at factory.) The operating steps are nearly the same as those in service keyboard.

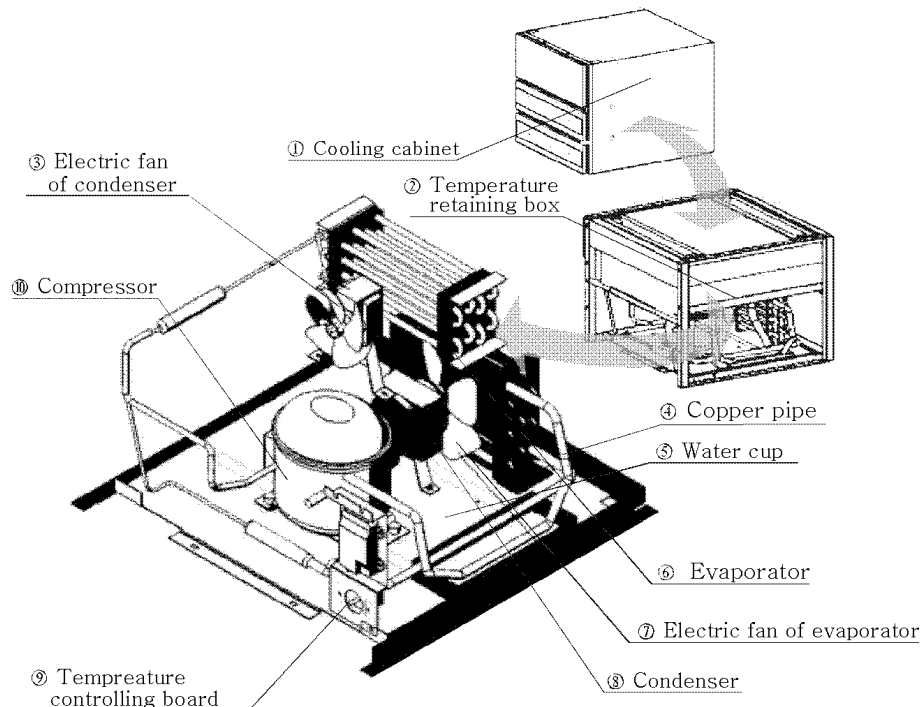
Following is a comparison illustration of key arrays between the service keyboard and the user keyboard.



## Operation Procedure of programming machine by external "User Keypad" ( for machines without internal "service keypad"):

- ① when the cabinet door is open , press the down arrow key ,you will be prompted to Input the password,you will enter the setup phase when you input the password correctly.
- ② You can quit the setup status by either pressing “quit” key or close the cabinet door Or do nothing keyboard operation within 2 minutes.
- ③ You can change the password by pressing “#” key and be prompted PW.XXXXXXXXXX In the setup phase.

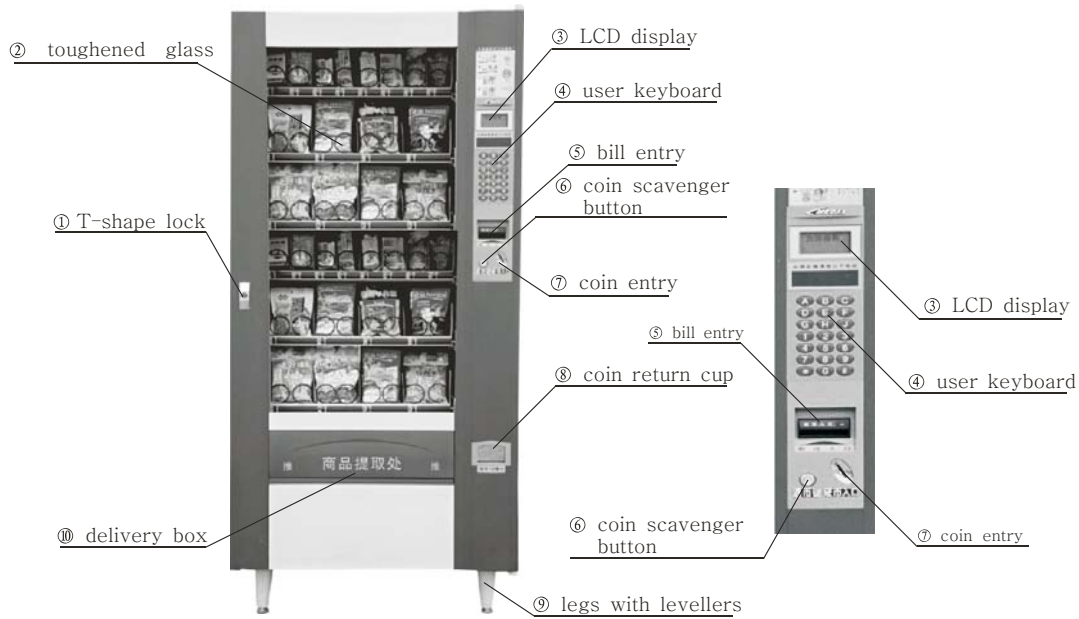
### (3) sketch map of cooling system



- ① **Cooling cabinet**,a device capable of storing and dispensing can or bottle beverage.
- ② **Temperature retaining box**,a special box which is used to keep the temperature of evaporator.
- ③ **Electric fan of condenser**,a device used to decrease the temperature of condenser.
- ④ **Copper pipe**:the pipe used to connect the compressor,condenser,and evaporator.
- ⑤ **Water cup**,used to contain the water from the evaporator.
- ⑥ **Evaporator**,a equipment used to evaporating the cool liquid.
- ⑦ **Electric fan of evaporator**: a device to blow and convey cold wind.
- ⑧ **Condenser**,cooling the gas with high temperature and high pressure into liquid with lower temperature and lower pressure.
- ⑨ **Temperature controlling board**,a PCB used to control the cooling system.
- ⑩ **Compressor** ,used to change the gas with lower temperature and pressure into gas with higher temperature and Pressure.

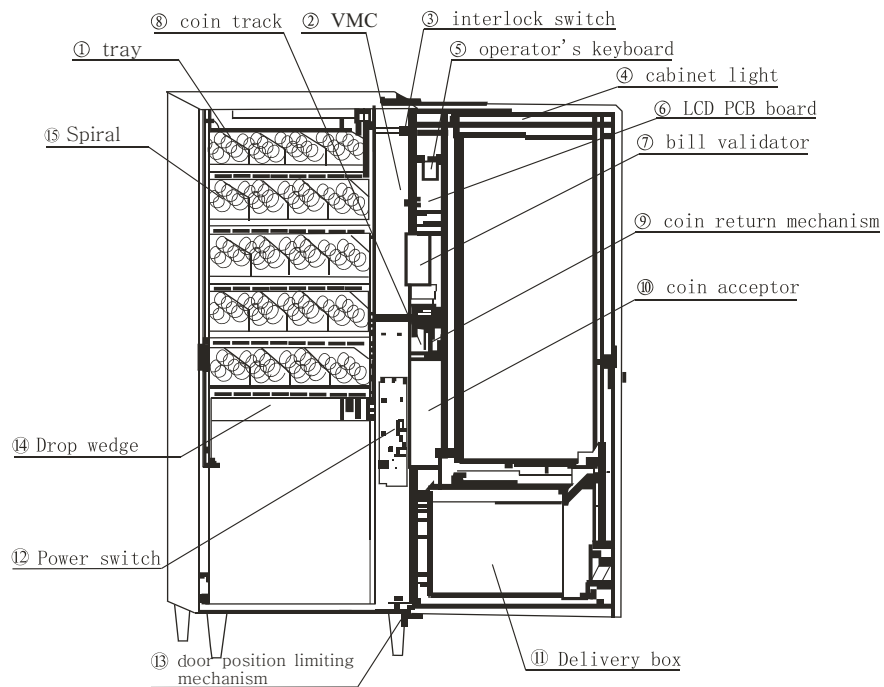
### 4.3.2 the sketch map of snack machine series KM002 and thir key parts

#### (1) the outlook sketch map of snack machine



please refer to the relative section of combo machines for illustration

#### (2) the inside sketch map of snack machine



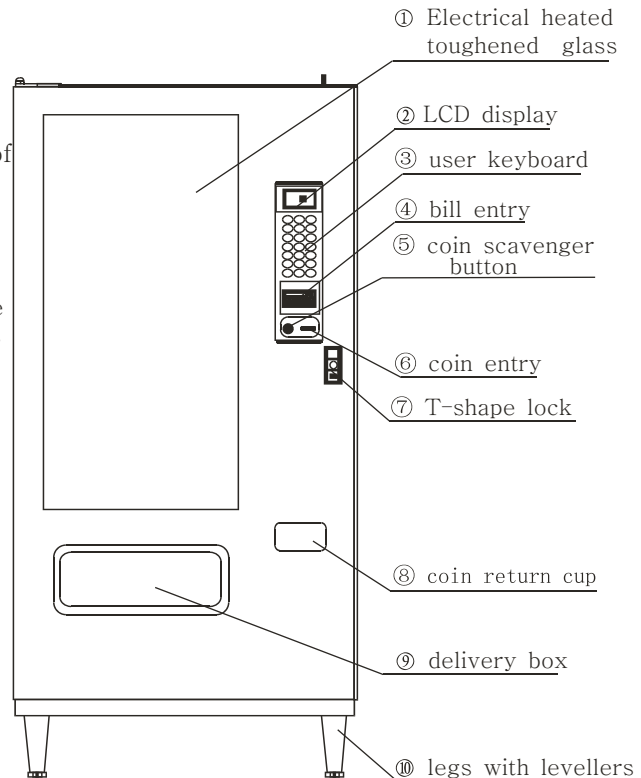
please refer to the relative section of combo machines for illustration

### 4. 3. 3 the sketch map of glass front machine KM003 & KM004

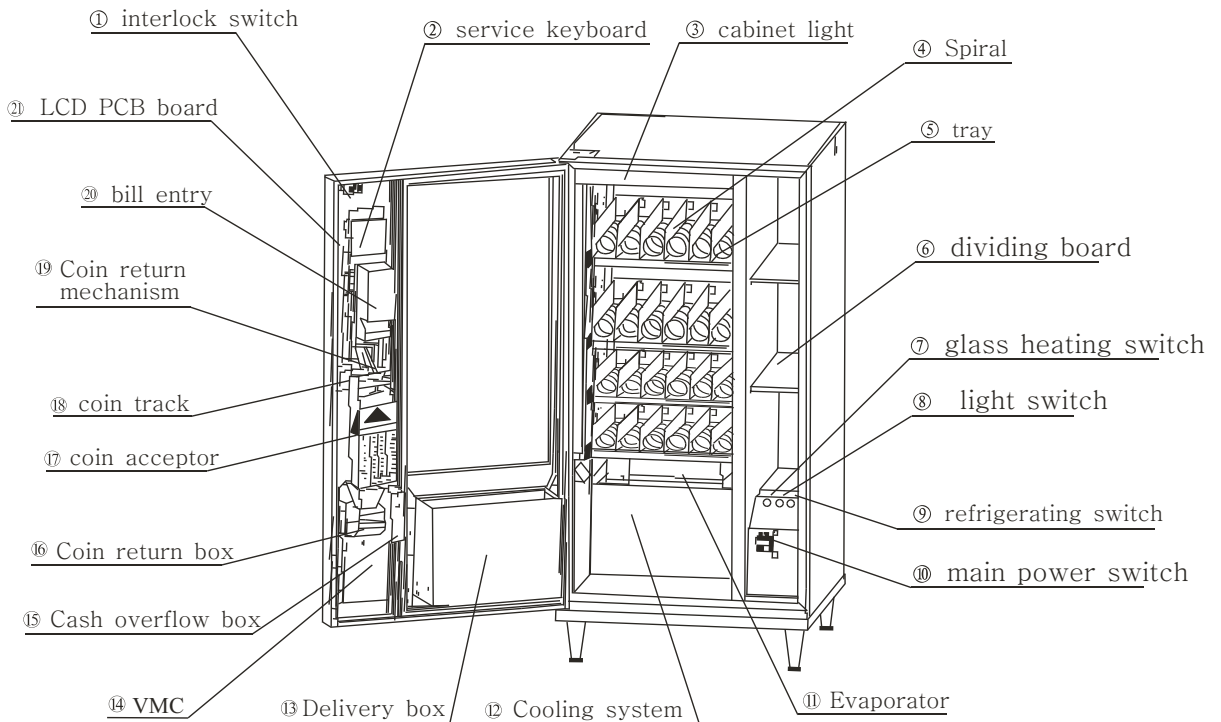
#### (1) outlook of glass front machine

Electrical heated toughened glass with two layers containing heat-isolated gas, capable of anti-mist and having safet quality to man in case of crashed.

Any other parts please refer to the relative section of combo machines for illustration



#### (2) the inside look of glass front machine



please refer to the relative section of combo machines for illustration

## Chapter 5. Administrator Programming Guide

All of KM00X series vending machine adopt KM VEND 2.0/2.1 control program system. The main functions are as follows:

### **Machine Configuration:**

According different vending machine, such as Combo, Snack, Glass Front and Beverage vending machine manufactured by us, there are different machine configuration setting which should keep in conformity with the machine used.

### **Cooling temperature setting:**

KM00x machine's cooling system is controlled by computer and display with numeric. With maintenance Keypad, Setting temperature can adjust the real temperature in the cold auit automatically

### **Single Vend/Multiple Vend:**

When Single Vend mode chosen, machine will change automatically without pressing coin return button after each vending finished.

When Multiple Vend mode chosen, machine will wait for next vend, and not change until coin return button pressed.

### **Price Setting:**

The price of each individual selection can be set and modified, the maximum and minimum machine prices is between 999.9 to 0.1

### **Operation data inquiring:**

KM00x machine stored all kinds of operating data, such as paid sales and vends for whole machine, whole tray, and each individual selection. You can see data for all the active trays and all the active selections, as well as the amount of bill and coin received by machine. The data of paid sales and vends for whole machine can not be cleared. Other resettable data can be cleared.

### **Machine Test:**

All vend motors and display screen can be tested, machine errors can be found quickly.

### **Sales mode set:**

According to different case and surrounding, you can choose winner, free vend and discount vend mode.

### **Machine Diagnostic:**

KM00x can offer automatic test function to bill validator, coin mechanisim, keypad, temperature control board, main control board ect., with the help of test fuction, machine error can be found and fixed easily.

### **Tray set:**

Each of A, B, C, D, E, F tray can set to use or not use in the machine.

### **Time set and view**

Year, Month, date, week and time can be set, modified and viewed by our machine. You can choose normal, free or discount three vend mode in special time section.

### **Machine running mode view**

The time of opening door, power off, price setting and data release can be viewed in the machine, it can help you to inspect your machine well.

### **Wireless short message communication (optional)**

By installing a GMS module and relative software, machine can send SMS short messages (containing info such as bill validator jam, lack of coin and goods) to operator.

All of the work above can be finished in maintenance keypad or customer. Before entering a new function, press 'EXIT' key first. If 'LOCKED' display, please enter Supervisor mode to 'UNLOCK' the machine first. (TO see the chapter «Supervisor» ).

























YOU CAN ASSIGN A CODE TO SET THE MACHINE ON CUSTOMER'S KEYPAD WITH OPENING THE DOOR (2.1 VERSION)

If the proper 8 non-zero code is entered, sales data can be viewed by machine, tray, or selection on customer's keypad with opening the machine's door.

### **IF you use customer keypad to finish the work above, you can follow the step (2.1 VERSION):**




- 1) Open the machine door, press arrow key to enter password inputting mode, then input 8 correct number to enter the machine setting mode, setting message will display on the LED screen **(The default password is "0000000")**
- 2) Press 'EXIT' key, or close the door, or do not press any key on the customer keypad within two minutes machine will return from setting mode.
- 3) After entering setting mode, press '#' to show 'PW. XXXXXXXX', XXXXXXXX is the password which can be modified at this time.

## 5. 1. Machine Setting

Item	Step	Display	Explanation
Machine Configuration	Press  , then Press  to choose	CNF. 3 Combo	Unchangeable temp.
		CNF. 2 Combo	Setting temp
		CNF. 1 Glass Front CNF. 0 Snack	
Change setting	Press  , then press  until display shows:	CHANGE X. X	means that Change will be given for coins or bills up to this amount without the customer having to make a selection.
	Enter 5. 0	CHANGE5. 0	
	Enter 0. 0	CHANGE0. 0	means that no change Will be given.
Single Vend /Multiple Vend	Press  , then press  until display shows:	DECLINE ON	Multiple vends may occur until the coin return is pressed.
	Press  , then press 	DECLINE OFF	Machine will change automatically after each vend finished.
The value of Bill setting (2. 0version)	Press  , then press  until display shows:	OK \$ 1, 2 ,5 0, 20. or NO VALIDTR	
	Press each  ,  ,  ,  ,  until display shows: can change the each valueof bill	OK \$ 5, 10, 20	The bill validator will accept \$5, \$10, \$20, bills.
	Press 	NO VALIOTR or Ok \$ 1, 2 ,5 0, 20.	
The value of Bill setting: (2. 1version)	Press  , then press  until display shows:	OK VALIDTR or NO VALIDTR	
	Press 	NOVALIDTR or OK VALIDTR	
Coin mech. Enable setting (2. 0version)	Press  , then press  until display shows:	MDB MECH	With MDB coin mech. Can not close
Coin mech. Enable setting (2. 1version)	Press  , then press  until display shows:	MDB MECH or NO MECH	With or Without MDB coin mech
	Press 	NO MECH or MDB MECH	To choose NO MECH or MDB MECH






Item	Operating Step	Display	Explanation
Short-Changes Setting	Press "4/ MACHINE CONFIG", then press "↓" until displays →	LOW.MSG X.XX.	The LCD will show USE EXACT AMOUT if the the available coins in the coin changer falls below the value of "X.XX".
	Input the value for X.XX, for example 4.00	LOW.MSG 4.00.	The LCD will display "USE EXACT AMOUT" when changes available in changer is less than \$4.00
Setting Max. Amount to be accepted when short of coins in changer <b>(2.0 version only)</b>	Press "4/ MACHINE CONFIG", then press "↓" until displays "ACC < \$\$ X.XX", then input the value.	ACC < \$\$ X.XX	The "X.XX" tells how big a bill or coin to be accepted even though there is not enough change in the coin changer to cover all possible paybacks.
Winner Mode Setting	Press "4/ MACHINE CONFIG", then press "↓" until displays →	WIN OFF or, WIN XXX	XXX means Winner Mode on, OFF means Winner Model off.
	Press "Edit"	WIN OFF or, WIN XXX	Shift between ON and OFF
Winning Ratio Setting	Input a value when displays "WIN XXX", for example 100	WIN 100	Means 1 prize available in 100 purchase.
Setting products for Win	Please "↓" when displays "WIN XXX", until displays →	*. - - - - -	"-" can be one of A~F
	Input letters from A~F, for example A C	*. A - C - - - -	Means prize will be available if purchasing products on tray A and C
Free Mode Setting	Press "4/ MACHINE CONFIG", then press "↓" until displays →	FREE OFF	Means free vending off
	Press "Edit"	FREE ON	Means free vending on
Enable or Disable Trays	Press "7/ PRODUCT CONFIG", then press "↓" until displays →	<i>R.B.C.D.E.F.G.H.J.</i>	Means that all selections (A - J) are available for vending
	Input letter from A~J, for example, DGHJ	A.B.C.E.F.	Means only tray-A,B,C,E &F are available for use.
Couple Motors	Press "7/ PRODUCT CONFIG", then press "↓" until displays →	CPL MTRS	
	Press "Edit", or "A"	A.A.A.A.A.A.A	All motors on tray-A are correct and work independently
	Input even numbers, for example 0 and 4.	+A.A.A.+A.A.A	"+" means this motor is coupled to adjacent motor on right side.
<b>KM001</b> Cooling Cabinet Setting <b>(2.1 version only)</b>	If machine is "CNF.2" or "CNF.3" (KM001), press "7/ PRODUCT CONFIG", and "↓", until displays →	E+F 4+4 or, E+F 2+4	4+4 means all for drink CAN; 2+4 means "E0" & "E2" for PET bottles.
	Press "Edit"	E+F 4+4 or, E+F 2+4	Make shift

### 5. 2. Price setting and view:

	Item	Step	Display	Explanation
<b>Price view</b>	The maximum and minimum machine prices	Press  key	** X Y	X-The Max. price Y-The Min. price
	The price of one tray	Press  key	A* X Y	X-The Max. price of A tray Y-The Min. price of A tray
	View the price of an individual selection	Show: XX X Y Press  continuly, the shows in turn as: A0 A1 ...	A0 X	Xthe price for A0
<b>Price setting</b>	Set the price of an individual selection	Enter a new price using the number keys after the price of an individual selection display.	A0 2.0	It means the price for A0 is set to be \$2

### 5. 3. View/Clear paid sales and vends

No·	Item	Step	Display	Explanation
1	View Total Paid Sale	Press 5/Data Recall	NR\$ XX	NR\$ ××is a figure showing the total of all sales in the machin since the machine used, This is a running total, and is not resettable.  NS XX is the total number of paid vends for the entire machine





No.	Item	Step	Display on LCD	Explanation
2	View Total Paid Vends	Then press 	NR \$ X	
3	Resetable Total Paid Sale	Then press 	NS X	This is the total of all sales in the entire machine since the last time it was cleared.
4	Resetable Total Paid Vends	Then press 	** \$ X	This is the total of number of paid vends for the entire machine since the last time it was cleared.
5	Total Paid Sale of one tray	Under state of No. 3, press A	** X	This is the total of all sales in the entire A tray since the last time it was cleared.
6	Total Paid Vends of one selection	Under state of No. 4 and No. 5, press 6 number key	A* \$ X	This is the total of all sales in A6 selection since the last time it was cleared.
7	View Amount In Validator (Not Shown If Zero)	Under state No. 6, press 	A6 \$ X	
8	View Amount In Coin Box (Not Shown If Zero)	Under state No. 7, press 	DBV X	
9	Clear All Resettable Data	<p>1. Press 5/Data Recall key. The display shows NR\$XX.XX. This is a running total, and is not resettable.</p> <p>2. Press 'Clear' key and hold the key. Two beeps sound and the display show CLEARING momentarily, and then changes to FINISHED. All data is cleared.</p> <p>3. Press EXIT key, until you have left the function.</p>	CBX X	

## 5. 4. View/ Set cold unit temperature




No.	Item	Operating Step	Display	Explanation
View Cold Unit Temperature Inside	View Cold Unit temperature	Press	TEMP +12 °C	Example 12°C in cooling box
	To change the display units	Press Press	TEMP +54 F OR TEMP +12 °C	°F Farenheit. °C Celsius
View Cold Unit Temperature Outside	View Cold Unit Temperature When the machine door is closed	Press On the custmor keypad	LCD TEMP +12 °C	View Cold Unit Temperature at any time When the machine door is closed
Set Cold Unit Temperature	Set minimum temperature after entering Supervisor state	Press  then press  until The display shows	+/- +4 °C	Press   to increase or decrease
		Press	+/- +5 °C	Increase to 5°C



## 5. 5. View machine state

No.	Item	Operating Step	Display	Explanation
1	View time data	Press  then press  until The display shows	TIME DATE	
		Press  the message scrolls across the display		
2	View the latest time interval the main (machine) door was open	Then press 	MAIN. 1 23M 01/03 10.13	If applicable, similar displays will appear for intervals 2, 3, and 4 until 8
			MAIN. 2 MAIN. 3... ..	
3	View the time when Temp. controller closed	Press  until The display shows	HEALTH OFF 01/30 10.13 MAX 69F	This example shows that the health control timer turned off on January 30 (01/30) at 10:12 pm (10.12), and the maximum temperature reached was 69° F.
4	View the time when Temp. Controller closed	Press  until The display shows	LONGST POR 01/30 10.13 FOR 00.00.23	This example shows that the longest time the machine was without power was on January 30 (01/30) at 10:58am (10.58) for zero days, 2 hours and 47 (00.2.47).










No.	Item	Operating Step	Display	Explanation
5	View time data	Press  until The display shows	LAST POWER 01/30 10.13 FOR 00.0.23	This example shows that the last time the machine lost power was on January 30 (01/30) at 10:12am (10.12) for zero days, zero hours, and 23 minutes (00.0.23).
6	View the latest time interval the main (machine) door was open	Press  until The display shows	TIME SET 01/30 10.13	This example shows that the last time the time or date was set was on January 30 (01/30) at 10:13 am (10.13).
7	View the time when Temp. controller closed	Press  until The display shows	PRICE SET 01/30 10.13	This example shows that the last time prices were set was on January 30 (01/30) at 10:13 am (10.13).
8	View the time when Temp. Controller closed	Press  until The display shows	FULL CLEAR 01/30 10.13	This example shows that the last time resettable sales was fully cleared was on January 30 (01/30) at 8:58am (8.58)

## 5.6. View/Set time

No.	Item	Operating Step	Display	Explanation
1	View Time	Press 8/TIME OF DAY to show	TIME 10.25	10:25am is the old time of machine.
	Set Time	HH.MM" is the time of day in 24-hour format Enter the current time using the number keys		8:25pm is the current time of machine.
2	Day of the week	Press  , then press  until The display shows	SMTWTFS	Now The day of the week number will be calculated for you based on the date you enter.
		Press  to select twinkled letter	SMTWTFS	S-Sun. T-Thurs. M-Mon. F-Friday. T-Tues. S-Sat. W-Wed.

<b>No.</b>	<b>Item</b>	<b>Operating Step</b>	<b>Display</b>	<b>Explanation</b>
3	SET THE DATE	Press  Press  , until The display shows	MM/DD/YY	“MM” is the month, “DD” is the date, “YY” is the year, and “X” is the numbered day of the Week.
		Input six figures indicatere year, month and date respectively e. g.060801	06/08/01	

## 5. 7. TEST THE MOTORS

	Item	Operating Step	Display	Explanation
<b>TEST</b>	TEST ONE MOTOR	Press 	TEST X	The motor A0 you selected will run correctly otherwise it is wrong.
		Select MOTOR and enter its code e. g. A0	A0	
	Test the Display	Then  until The display shows	DSPLY TEST	
		Press A	A. A. A. A. A. A. A. A. A.	
	TEST ALL MOTORS	Press  Then  until The display shows	TEST MTRS	
		Press 	A. A. A. A. A. A. A. A.	Running all motors from A0 to last one circularly until  or display "ERR YY, XX" YY -total times of test XX-error motor position
	View Motor Status By Tray	Press  Then  until The display shows	TEST MTRS	
		Press tray code e. g. A	A. A. A. A. A. A. A. A.	Display status of tray A
		Press 	A. A. A. A. A. A. A. A.	Running all motors of tray A
	<p>(Tray letter) (If motor is preset)            + (If motor is present and couple to the next odd motor)            (Blank) (If motor is not present and not coupled)            ? (If motor is coupled but not present)            . (If motor is home)            ` (If there is a motor error such as jammed, tray not detected or missing)</p> <p>The following example is for tray A with motors present and home with none jammed. Motors 1 and 3 are not present, 4 and 5 are coupled, and 6 are coupled to 7 but is not present:            C. C.+C. ? C.            motor 0            motor 7</p>			



## 5. 8. View Diagnostic Messages

Press Diagnostic key, the display shows any of the following diagnostic messages, depending upon any fault(s) present:

Item	Display	Explanation
Machine	NOERRORS	None of following errors is detected.
	CHKPRICE	Pricerror detected and changed to maximum--check prices.
	CHK. CONF	A PRODUCT CONFIG value was out of bounds and set to nominal -- check all PRODUCT CONFIGS
	ERRA. B. C	Error exists on tray A, B, C, etc, Motor may be jammed, not home, or a couple errors exist.
Keypad	KEYPAD. XY	Key(s) x, y stuck.
Main board	ROM. ERROR	Error in the programming EPROM. Machine will not operate. Press and hold until two beeps are heard, and the display shows FINISHED.
	RAMERROR	RAM is not initialized or is not compatible with the currently loaded software. If this message appears, initialize your RAM by performing the following procedure:  Press CLEAR key and hold until two beeps are heard, and the display shows FINISHED. NOTE: Initialize RAM will erase all your data and settings. Be sure you have written this information down before continuing.
Coin Mech.	NO MECH	Coin mech. not detected--machine will not operate if configured for coin mech Incomplete coin mech. communications---check harness.
	MECH. COM	Coin mech. reporting a bad tube sensor---replace mech.
	MECH. SENSOR	One or more coin tubes are jammed. Pay coin from each tube until the jam cleared.
	MECH. PRY. JRM	One or more coin tubes are jammed. Pay coin from each tube until the jam cleared.
	MECH. RCP. JRM	Coin is jammed in the acceptor section. Check the coin mechanism for a jam in this position. Insert coin and cycle machine power OFF and then ON.
	MECH. ROM	Replace the coin mechanism.
Bill Validator	CHECK. DBV	Bill validator reporting error ---machine will not operate. Empty stacker, clear jams, etc
	DBV. COMM	
	DBVSENSOR	One of the sensors in the bill validator has failed. The unit will disable it until the error is corrected. Check for bill stuck in the acceptance path. If no bill is present, replace the validator. Cycle machine power OFF and then ON.
	DBV. ROM	ROM checksum is failure. The unit will disable it until the error is corrected. Replace the validator.
	DBV. JAM	A bill is jammed in the acceptance path. The unit will disable it until error is corrected. Remove bill stuck in the acceptance path. Cycle machine power OFF and then ON.
	DBV. MOTOR	One of the motors has failed. The unit will disable it until the error is corrected. Check for bill stuck in the acceptance path. If no bill is present, replace the validator. Cycle machine power OFF and then ON.

Item	Display	Explanation
Temp. Controller	DBV. STACKR	Stacker is open or removed. The unit will disable it until the error is corrected. Install the stacker correctly.
	TEMP REF	The temperature reference on the main PCB CANNOT BE READ.
	TEMP SNS	The primary temperature sensor cannot be read.
	TEMP RANGE	The primary temperature sensor is out of range.

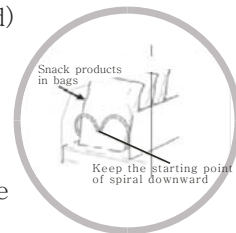
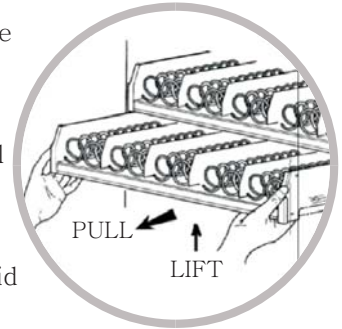
### 5. 9. Supervisor management (2.0 Version only)

No	Item	Operating Step	Display	Explanation
1	Gain Access To the Supervisor Mode	Press #/CODE key, ENTER CODE. You must enter the four-digit supervisor code with 6 seconds to gain access.	ENTER CODE, UNLOCK	NOTE: A new machine has a factory-set supervisor code of 0000
2	Enter a New Supervisor Code	Enter 4 digits of no.	SUPER XXXX	
3	ENTER A FREEVEND CODE	press 	FREE XXXX	XXXX Is code for using freevend function
4	Lock Or Unlock SOME KEYS	press  press a button for a function	#. UNLOCKED (or LOCKED)	The key for this function is unlocked or locked

# Chapter 6 Guides for Loading Product

## 6.1 Guides for Loading trays with conventional items

- 1) Lift up the tray and pull out it with your hands then release the tray until you feel it reaching the limited position of the rail.
- 2) The width, thickness and height of the loaded item should match with the width of the tray column, the screw-pitch of the spiral and the distance between the tray and the neighboring upper tray respectively.
- 3) The items should be in succession put rearwards and avoid suppressing the spiral.
- 4) To avoid the boxed items falling down accidentally they should be loaded to the column where the starting position of the spiral points to the direction of 5 o'clock for counter-clockwise spiral (left hand) or to the direction of 7 o'clock for clockwise spiral (right hand) as shown below.
- 5) To avoid jammed by the spiral the bagged items should be loaded to the column where the starting position of the spiral points to the direction of 9 o'clock for counter-clockwise spiral (left hand) or to the direction of 6 o'clock for clockwise spiral (right hand) as shown below.
- 6) Other item without above mentioned singular package should be loaded by trial.
- 7) It is strongly recommended that a dispensing test will be done when all the loading tasks are finished.



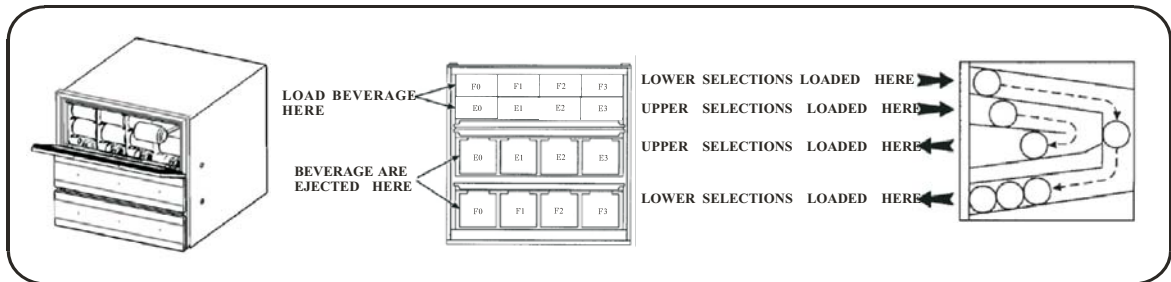
## 6.2 Guides for Loading trays with non-conventional items

Some special product, such as big barreled instant noodles, newspaper, magazine, book, or video tape and the like which can not fit the column for its size, should not be loaded until both the spiral change and corresponding software setup are finished. Details please refer to the section titled with machine adjust guides in this manual. (section number added later on)

## 6.3 Guides for Loading cooling cabinet with bottle/can beverage of Combo machine

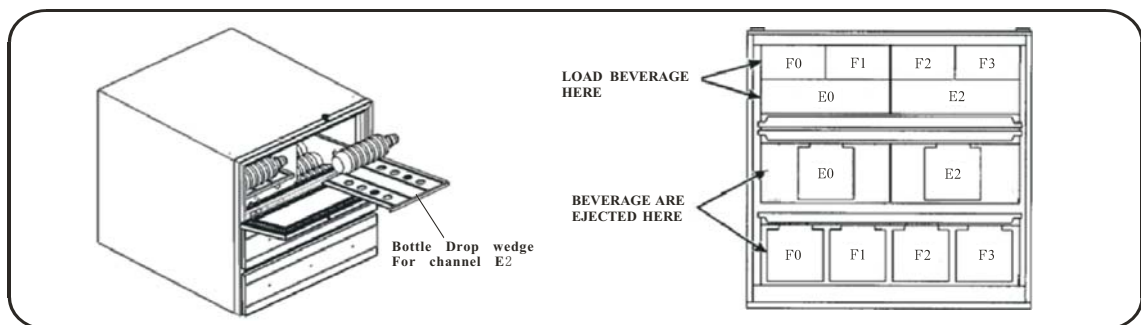
### 6.3.1 guides for loading cool cabinet with canned beverage:

Opening the cabinet door ,loading the beverage as shown below and enabling it to roll down smoothly.



### 6.3.2 guides for loading cool cabinet with bottled beverage

- 1) Opening the cabinet door ,pulling out the upper divider of channel E0 or channel E2.
- 2) load the beverage as shown below and enable the bottle roll to the down sub-cabinet smoothly. When the down sub cabinet is full, reinstall the upper divider of channel channel E0 or channel E2 and load the beverage into the upper sub-cabinet.



### 6.3.3 the physical sizes of can/bottle beverage are limited as following

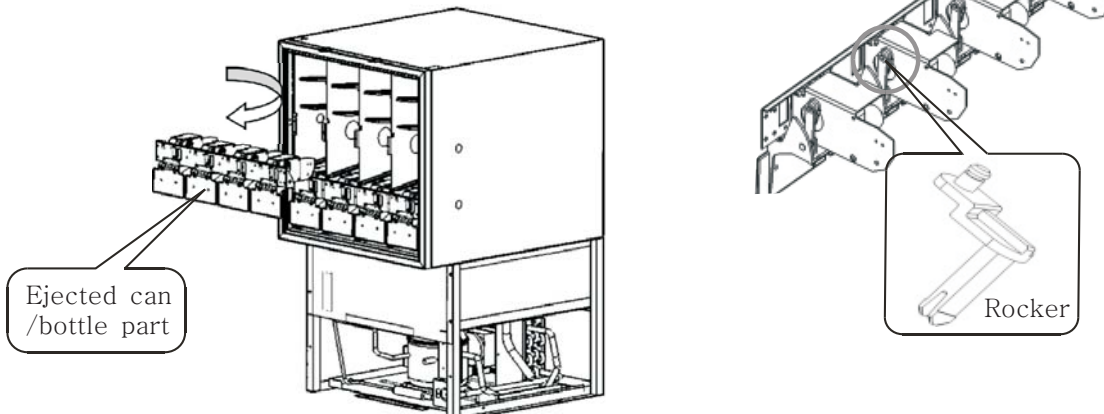
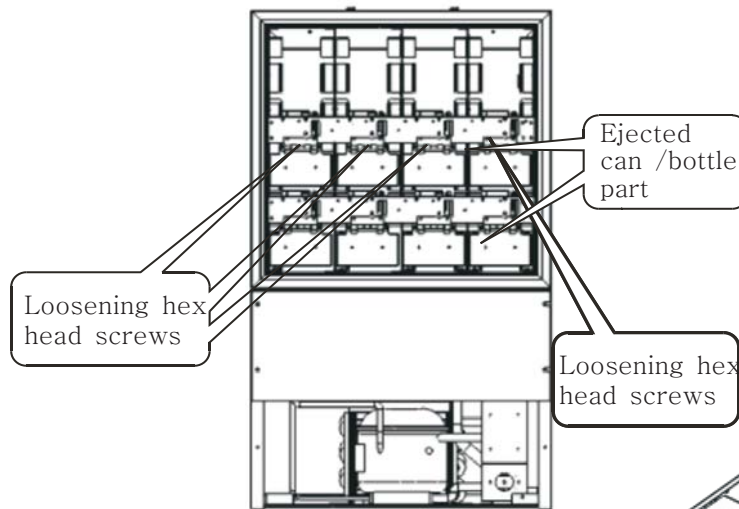
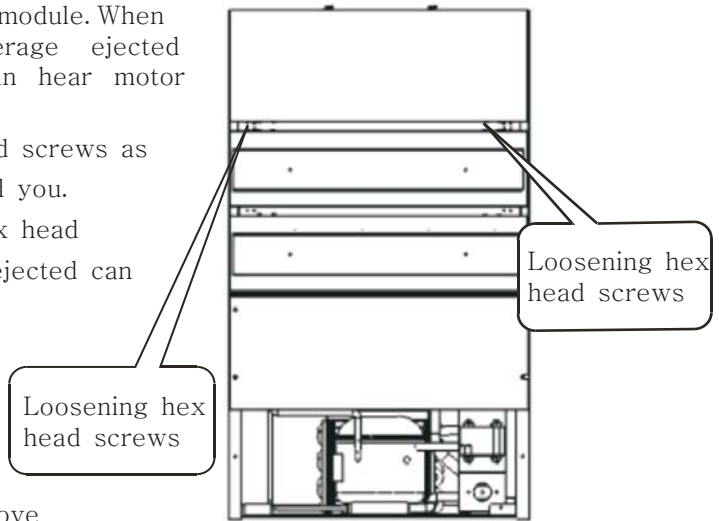
- (1) canned beverage with diameter  $\phi 66\text{mm}$  and length  $123\text{mm}\sim 125\text{mm}$
- (2) bottled beverage with diameter  $\phi 63\text{--}70\text{mm}$  and length  $200\text{mm}\sim 250\text{mm}$

# Chapter 7. Guides for operating the vending machine

## 7.1 Rocker Maintenance

Rocker is easy to fray in cold beverage module. When some rocker stops working, the beverage ejected door can't be opened although you can hear motor working .

- 1) Sufficiently loosening the four hex head screws as shown. Pull the door assembly toward you.
- 2) After the can door is lifted, loosen hex head screws that combine clapboards and ejected can part.
- 3) Lift ejected can/bottle part up from cold module.
- 4) Replace the broken rocker with a new one.
- 5) Reinstall the part by reverseing the above mentioned steps(setp4 to step 1).

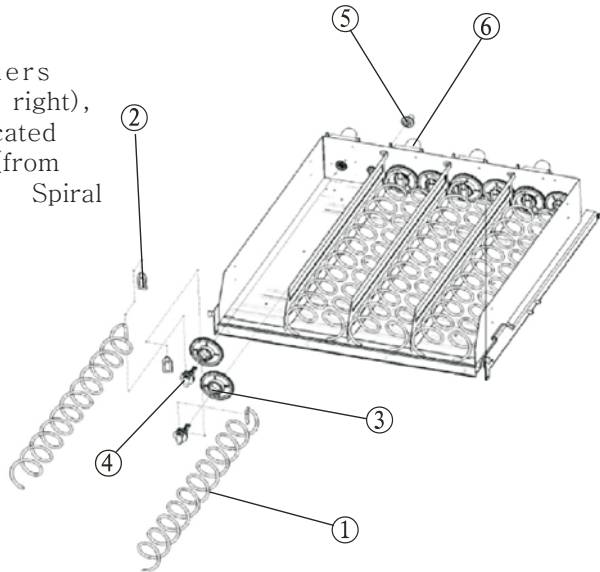


## 7.2 Change the column number and column width of a tray

### 7.2.1 Change 8 columns with one spiral in each column to 4 columns with two spirals in each column

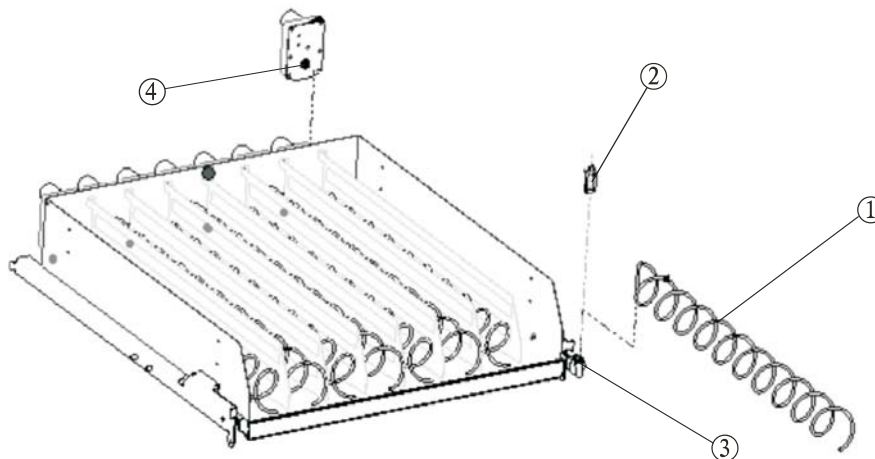
Remove the column dividers No.1,3,5,7(from the left to the right), Replacing the 4 Motors , which is located at column 2,4,6, and 8 respectively(from the left to the right), With 4 Spiral Bearings as shown below.

- |                  |                  |
|------------------|------------------|
| ①-spiral         | ②-spiral bearing |
| ③-gear           | ④-spiral coulper |
| ⑤-spiral coulper | ⑥-motor          |



### 7.2.2 Change 4 columns with two spiral each to 8 columns with one spiral each on a tray

Installing the 4 column dividers No.1,3,5,7(from the left to the right), Replacing 4 Spiral Bearings , which is located at column 2,4,6, and 8 respectively(from the left to the right), With the 4 Motors as shown below.



- |                   |                   |
|-------------------|-------------------|
| 1-spiral,         | 2-spiral bearing, |
| 3-spiral coulper, | 4-motor module    |

### 7.2.3 4 columns changed to 2 columns on a tray

changing 4 columns with two spiral each to 2 columns with one spiral each on a tray please referring the above mentioned methods in section 7.2.2.

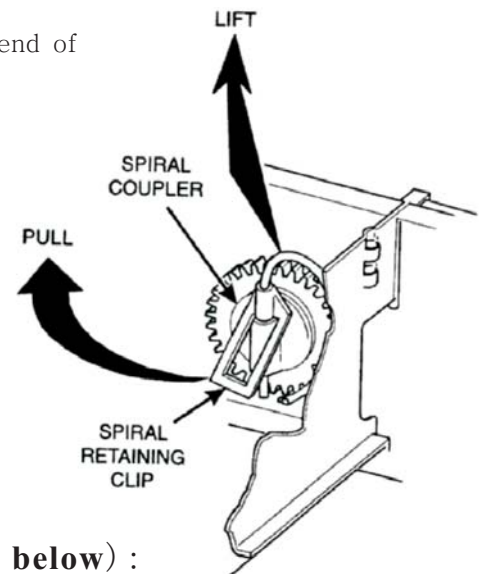
## 7.3 Removing and installing spiral on a tray

### 7.3.1 Removing and installing spiral on a tray

- 1) lift up and pull out the tray
- 2) Pull forward on the retaining clip and remove the end of the spiral coupler.

### 7.3.2 To install a spiral:

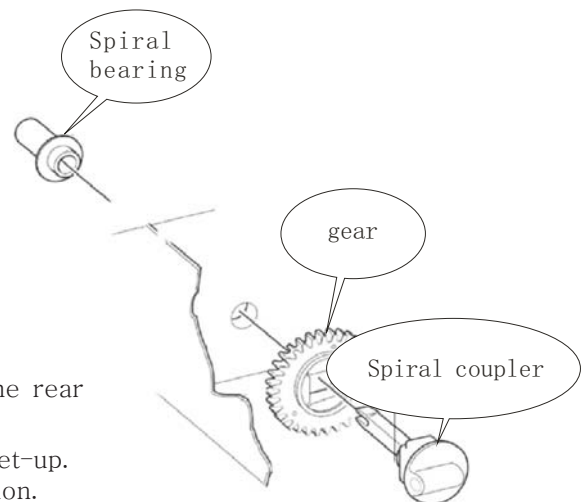
- 1) Pull the bottom of the retaining clip toward the front of the spiral.
- 2) Lower the spiral into the tray column and insert the end of the spiral into coupler as shown.
- 3) Release the retaining clip.



## 7.4 Replacing a motor

### 7.4.1 Removing a spiral motor (as shown below) :

- 1) Remove the tray.
- 2) Disconnect the motor harness.
- 3) Remove the spiral
- 4) Remove the spiral coupler.
- 5) Lift the motor clear of the tray.
- 6) Return the tray to the merchandiser..



### 7.4.2 Installing a spiral motor:

- 1) Remove the tray.
- 2) Place the motor in the correct position at the rear of the tray
- 3) Place a gear in position if required by this set-up.
- 4) Install a spiral coupler in the proper orientation.
- 5) Connect the motor harness. 6) Return the tray to The merchandiser..

## 7.5 Removing and installing a tray

the maximum number of tray for snack machine can be up to 6. one can adjust the distance between two neighboring trays , install or remove a tray as following

### 7.5.1 to Move a Tray Up or Down

- 1) Remove the tray from the machine.
- 2) Remove the screw that secures the right try guide rail to the front guide mount channel
- 3) Tap up on the guide rail and unseat the guide rail tabs from the channel slots.
- 4) Pull the guide rail away from the front and rear guide mounting channels.
- 5) Move the guide rail to the desired position.
- 6) Insert the guide rail tabs into the mounting channel slots

- 7) Tap down on the guide rail To seat the tabs in the channel slots.
- 8) Replace the screw that secures the guide rail to the front guide mount channel.
- 9) Repeat steps 2 through 8 for the left guide rail.
- 10) Return the tray to the merchandiser. .
- 11) Load products into the tray, and perform test vends. Make sure the trays don't interfere with the products you are vending, and that all products vend properly.

### **7. 5. 2 To Install a Tray in the machine**

- 1) Insert the tray so that the tray rollers pass over the tray guide rollers.
- 2) Bring the tray roller to rest on the tray guide.
- 3) Tilt the tray upward.
- 4) Connect the tray wiring harness to the PC board mounted to the guide rail JUST ABOVE the tray you are installing.
- 5) Hold the tray up while pushing it toward the rear. Stop when the tab on the tray aligns With the opening in the tray guide.

### **7. 5. 3 To remove a Tray in the machine**

Please refer to the above steps mentioned at the section to Install a Tray in the machine

### **7. 5. 4 Attention: when finished, one can simply re-power on the machine, the configuration Can take effect automatically except you must reset the Price labels manually.**

## **7. 6 Replacing a fluorescent lamp**

- 1) Power off the vending machine.
- 2) Take away the fluorescent lamp.
- 3) Install a new one.

# Chapter 8 the maintaince and trouble shooting of the machine

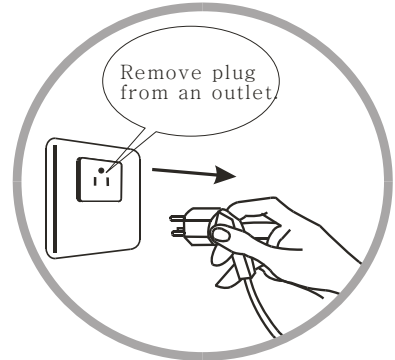
## 8.1 cleanness and maintenance of the machine

Clearing the inside and outside parts of machine by using a soft towel or sponge with neutral liquid in a given period. Neither using scrubbing brush, steel wire brush, nor using acid liquid such as decontaminating powder, gasoline, banana water , acet and the like. Never wash any circuit board of the machine for insulation-protection reason.



## 8.2 maintaining the machine

If the machine is not used for a long time ,its power supply should be cut off by unplugging the power outlet.



## 8.3 Troubleshooting

Problem	Symptom	Cause	Fix/remedy
<b>Cable harness</b>	No messages or reaction on thecustomers keypad screen after power on	1. the plug of Machine is loose 2. Security device inside machine is Off	1. plug in the socket firmly and tightly 2. press the button to switch it on
	when customer make a selection, display shows:Invalid goods Name	Relative motor assembly is broken Or connection Problem	Change motor Assembly check the harness relative
	display shows: Invalid goods Name for a whole tray	Malfunction in main Board driving part or bad connection btw trays and transferring panel	replace the main board, check the harness relative
	when customer make a selection, Display shows: Invalid goods Name	Main controller board problem or bad connection btw main controller board & Transferring panel	replace the main board of small motors, check the harness relative

<b>Problem</b>	<b>Symptom</b>	<b>Cause</b>	<b>Fix/remedy</b>
<b>Bill validator</b>	red light of the bill validator is on display message reads: Coins Only bills inserted can't be accepted	Bill insert passage way get stuck	take off the bill validator, press the button to open the sensor part of recognition, clear the jam and reinstall the validator onto the machine.
<b>Delivery System</b>	"out of stock" was deemed by machine wrongly	Micro-driving switch malfunction or connection problem	adjust the micro-driving switch beside the delivery motor inside the cooling box; or replace it
	certain motors do not work in a good condition	1. motor is broken down 2. Micro-driving switch is in bad connection or malfunction 3. One of cables are broken 4. malfunction is in the driving parts of mainboard or bad connection between tray and transferring Panel	1. repair or replace motor 2. connect stich 3. repair or replace cable harness of motors 4. change the mainboard or repair the circuit of motor driving
	goods was prevented moving by springs, thus can't fall into the delivery box	goods is not matching the delivery spring	1. 1, enlarge the distance of moving by installing a plastic butterfly-shaped chip in the front of the sping, 2. adjust/change goods into a suitable track
	Goods is not delivered but credit is enough much.	1. the selected products are all sold out 2. products are not completely pushed out (spring turned half a circle) 3. motor connection coupler is broken 4. jam inside delivery motor 5. springs for delivery Block products	1. load products 2. try purchase again 3. replace coupler 4. make adjustments or replace The motor.
	motor of any track stays in a certain Position	1. bad touch or malfunction in limited switch 2. shape of coupler is changed erratically	1. replace new switch for position limit. 2. replace coupler
	Motor for delivery inside the cooling system is running, but the bottle drop wedge doesn't work	the coupler (rocker arm) is broken	replace the broken coupler with a new one

<b>Problem</b>	<b>Symptom</b>	<b>Cause</b>	<b>Fix/remedy</b>
<b>Coin acceptor</b>	the display shows "No changes, please continue Buying"	the low volume inside the coinbox	add adequate amount of coins into coinbox
	Coins can not be inserted or machine can't detect coins or	rare object or coins get stuck in entrance or passageway or coin sensor	1. use a tweezer or other tools to pick out the rare object that stuck inside the coin mechanism 2. pull out the sensor tenderly and clear the stuck
	Incorrect changes after vends	1. No enough changes or coin mechanism can't recognize enough changes inside itself 2. coin return track jam 3. abnormal stuff get into mechanism that prevent coins fall into coin return cup. 4. erratic coin return because coin erected in coin tubes 5. coin is stuck with dirt like adhesive Tape	1. loading coins properly under guide; under supervisor's test mode, inserting coins directly, Press esc button to quit mode. 2. clear the jammed stuff 3. clear coin return track 4. add a proper amount of coins into the coinbox and give out one coin for inspection on Change-giver. 5. take out and clean the coins from mechanism
<b>Cooling system</b>	compressor does not work	1. Temperature-Control Board is malfunction, compressor is powered off or bad Connection in Harness	replace temperature-control board, switch on compressor, check harness
	compressor can not stop working	Temperature-Control Board is malfunction or the controlling harness is in bad Connection	replace temperature-control board, check harness
	compressor is working but it can't Cool the beverages cooling effect is bad	the evaporating fan is broken, cooling system gets stuck, lack of refrigerant 1. machine is too close to wall, 2. compressor is covered with dust, 3. abnormal working condition with motors of fan, 4. Lack of refrigerant, 5. bad sealing the door of cooling box	move the machine to change its position, clear the dust on the surface of compressor, check motor for fan, ask expert to add refrigerant, adjust the seal of door

<b>Problem</b>	<b>Symptom</b>	<b>Cause</b>	<b>Fix/Remedy</b>
<b>Main control board</b>	Machine beeps when the door closed, showing error message.	Situations are as described in “operator’s guide”	1. reset power 2. correct the error by following instructions shown on display
	Display shows out of service, vendor doesn’t accept cash, customer unable to purchase.	1. during no-vend period 2. not motors available for using 3. malfunction on motors or relative connection is abnormal 4. MDB cable harness problem 5. 24V power supply problem 6. coin mechanism is broken 7. problem in main board	1. modify settings 2. repair or replace motor 3. repair of change connection harness 4. repair or change MDB cable harness 5. connect power cable or replace battery 6. repair or replace the coin mechanism 7. replace the main board with a new one
	No display, disordered display message, continuous beeping sound	1. Power problem 2. display board prolem 3. main control board	1. replace the switch with a new one or adjust connection to reset the mainboard 2. replace it with a new LCDdisplay 3. replace main control board
	the display screen is streaked with Serious dark lines	malfunction in LCD Display	replace it with a new LCD display
	Lacking Electricity malfunction	Because of a long no Use, electricity in main controller board battery was used up. disordered data error, out of service message was reported	Use special clearing chip
	Locking Error	Keyboard is locked, prevent the usage of supervisor’s keyboard	Use special clearing chip
	Data set disappear or changed	unable to enter the super user mode due to disturbance.	Under state of out of service? press button 3 for at least 5 seconds, and press Down button until LCD display shows 1.3000 XXXX, then press code button to enter 4 digit of password, In RAM state, clear data and reset after formating RAM.

Please make sure you are clear how to settle the problems in above-listed events , if problems still can’t be solved, please contact us for inquiry.

## **Chapter 9 Installing a bill acceptor**

Bill acceptor is an optional equipment of the vending machine which is used to accept and store the bills. The vending machine employs the MDB protocol as the communication interface between the VMC(vending machine controller ) and its equipments. So you should install a bill acceptor with MDB protocol and a cashbox if you want to acceptor bills in your machine.

You can select a bill acceptor either via our company or from any other third party whoever can offer the wanted equipment.

You are recommended to select a bill acceptor manufactured by these equipment providers: mei([www.meiglobal.com](http://www.meiglobal.com)), cashcode ([www.cashcode.com](http://www.cashcode.com)). You can browse the related website for detailed information about the bill acceptor.

Before connecting a bill acceptor with the VMC by their MDB plugs ,please power off the vending machine.

You are also recommended to do a bill acceptor test after the installation is finished and provided that the coin mechanism is present in the vending machine.

## **Chapter 10 Installing a coin mechanism**

Despite not a default configuration at factory, coin mechanism is a indispensable equipment of the vending machine which is used to accept ,store coins and to give changes. The vending machine employs the MDB protocol as the communication interface between the

VMC(vending machine controller ) and its equipments. So you should install a coin mechanism with MDB protocol and some proper coin tubes in the vending machine.

You can select a coin mechanism either via our company or from any other third party whoever can offer the equipment.

You are recommended to select a coin mechanism manufactured by these equipment providers: mei compant([www.meiglobal.com](http://www.meiglobal.com)) and coinco company ([www.coinco.com](http://www.coinco.com)). You can browse the related website for detailed information about the coin mechanism.

Before connecting a coin mechanism with the VMC by their MDB plugs ,please power off the vending machine.

## **Chapter 11 LIMITED WARRANTY**

Subject to the limitation specified herein, all parts included on original equipment manufactured by our company and sold to purchaser are warranted for One (1) year from the date of shipment of the equipment in question.

This warranty applies only to the original purchaser of the Merchandiser and is null and void if the Merchandiser is sold during the period of warranty.

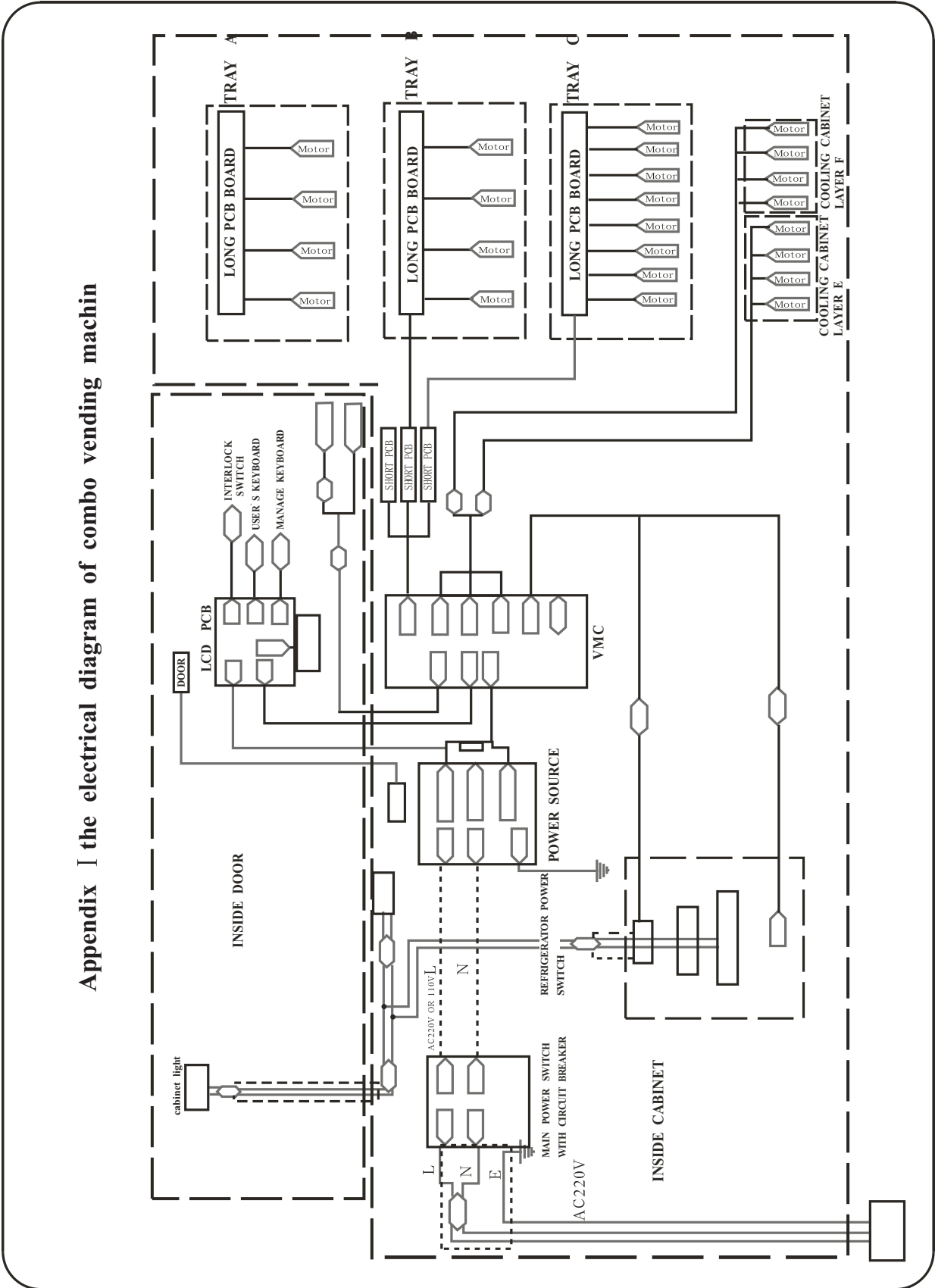
Defective parts will be repaired or replaced free of charge when the defective part is returned, with transportation charges prepaid by purchaser, to a destination designated by our company.

This warranty does not include any cost of service rendered or repairs made by customer on Merchandiser, or parts, unless authorization to incur such expense has been given in writing by us prior to incurring such expense.

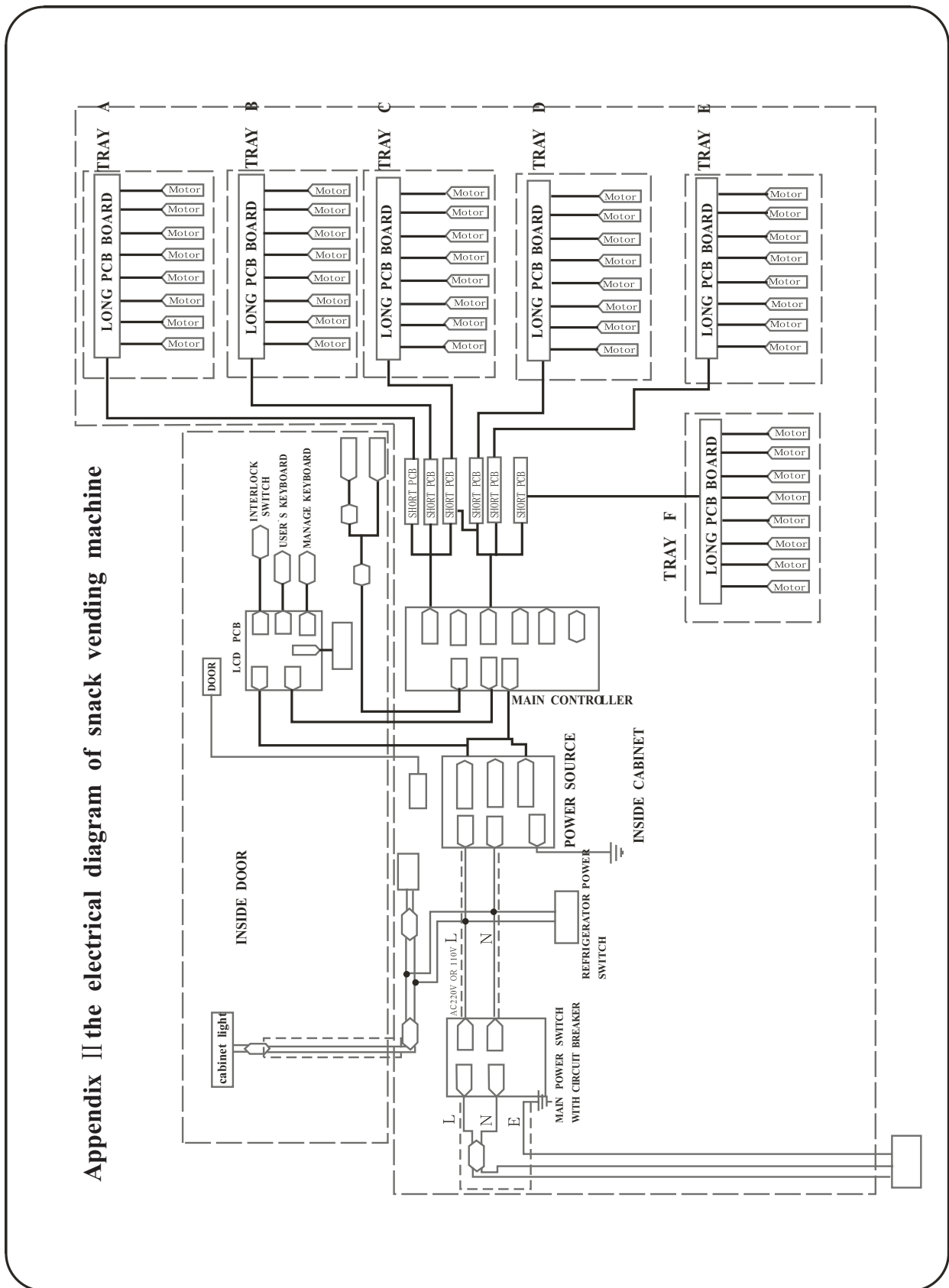
This warranty does not apply to A) electrical components, wiring, or circuits or mechanical parts or assemblies damaged as a result of operating the Merchandiser at other than the design voltage and frequency specified on the Electrical Rating Tag, or B) in event of vandalism, fire or negligence, or C) fluorescent lamps, ballasts, starters or other expendable items, or D) when seal is broken on electronic boards, or E) when other manufactured components are installed in our machines.

**OUR COMPANY SHALL NOT BE RESPONSIBLE FOR  
CONSEQUENTIAL OR PUNITIVE DAMAGES.**

Appendix I the electrical diagram of combo vending machin



## Appendix II the electrical diagram of snack vending machine



## Appendix III Packing List

### 1 packing list for combo machine

ITEM	Operator's manual	Quality certificate	Warranty card	Labels for commodity number	Label for prices	Coupler for cooling unit	Springs for coupler
QUANTITY	1	1	1	2	2	4	4

### 2 Packing list for snack machines

ITEM	Operator's manual	Quality certificate	Warranty card	Labels for Commodity Number	Label for prices		
QUANTITY	1	1	1	2	2		

### 3. Packing list for glassfront machines

ITEM	Operator's manual	Quality certificate	Warranty card	Labels for commodity number	Label for prices	Motor connection Coupler	
QUANTITY	1	1	1	2	2	8	