

## **ML-1202-ST**

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### Installation instructions



SIZE:1350X900X2200mm



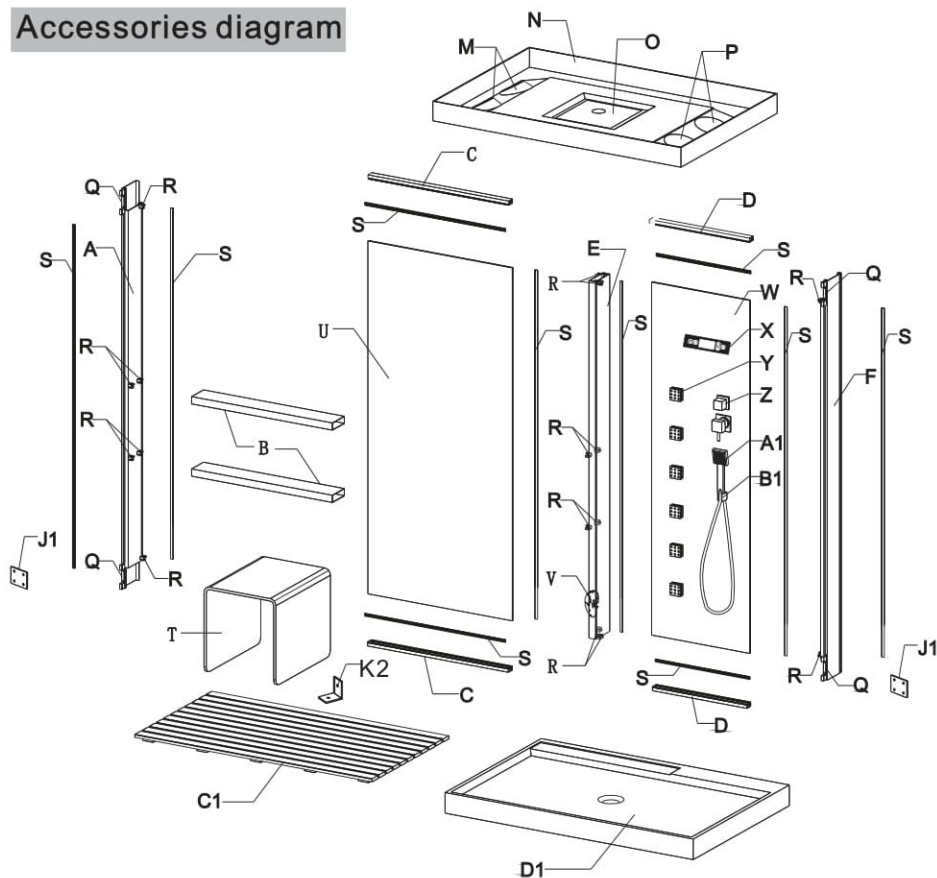
## Notices

- 1.Before install or usage, please firstly read this manual detailedly.
- 2.The product shape takes the real object as standard, the sketch for reference only, expressing in the most familiar way, maybe a little different from practice.
- 3.Our company reserve the right of usage of the latest accessories when maintain the steam cabinet.
- 4.Our company reserve the right to improve product continuously, forgive not to inform again.

## Tools for install

- 1.level ruler
- 2.Pencils
- 3.electric drill
- 4.crossed screwdriver
- 5.linear screwdriver
- 6.movable wrenches
- 7.rubber hammers
- 8.tape measures

## Accessories diagram

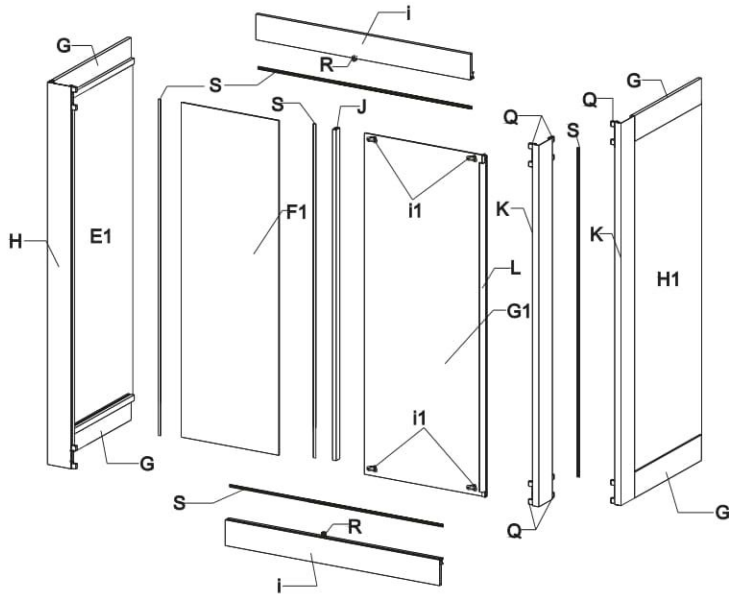




VI、 Declaration

6.1 Any maintenance or repairing should be handled by qualified maintenance personal authorized by the manufacturer or agent of this controller. Otherwise, the products cannot enjoy free maintenance and any results will be borne by the customer.

6.2 This manual is just for reference. If there are any changes or modifications on the design or explanation, please excuse for no further notice. If there are any mistakes or unclear points, the explaining right belongs to the manufacturer.



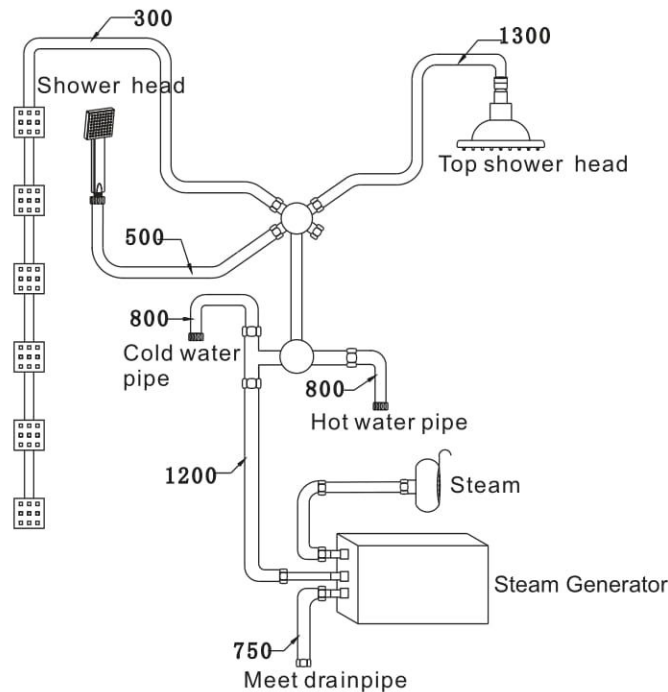
Sequence number	Name	Quantity	Sequence number	Name	Quantity
A	side aluminium A	1pcs	U	Fixed glass U	1pcs
B	Shelf	2pcs	V	Steam box	1pcs
C	side aluminium C	2pcs	W	Fixed glass W	1pcs
D	side aluminium D	2pcs	X	Control panel	1pcs
E	side aluminium E	1pcs	Y	Nozzle	6pcs
F	side aluminium F	1pcs	Z	Tap	1pcs
G	aluminium frame	4pcs	A1	Showerhead	1pcs
H	side aluminium H	1pcs	B1	Showerhead seat	1pcs
I	Track	2pcs	C1	Mother board	1pcs
J	side aluminium J	1pcs	D1	Base	1pcs
K	side aluminium K	1pcs	E1	Fixed glass E1	1pcs
L	Handle	1pcs	F1	Fixed glass F1	1pcs
M	Speaker/fan	2pcs	G1	Mobility glass	1pcs
N	Top cover	1pcs	H1	Fixed glass H1	1pcs
O	Overhead shower	1pcs	I1	Wheel	4pcs
P	Light	2pcs	J1	180° Stator	2pcs
Q	Connect piece Q	12pcs	K1	90° Stator	1pcs
R	Connect piece R	18pcs	L1	ST4 X16 screw	41pcs
S	Pastern bar	20pcs	M1	ST4 X20 screw	24pcs
T	Seat	1pcs	N1	ST4 X30 screw	9pcs



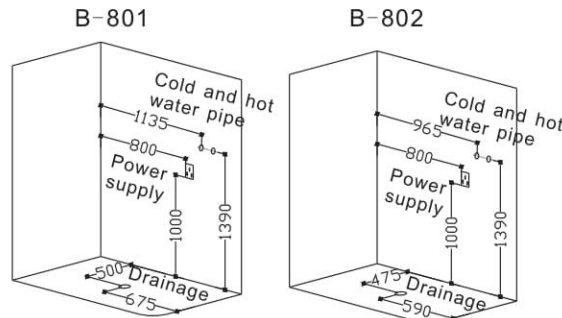
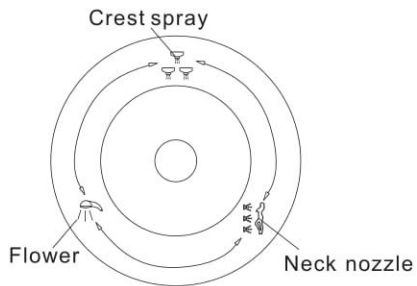
#### 4. Waterway, electric circuit gearing:

1. Connect two tubes with the cold and hot water faucet, then with cold and hot water tube on the wall.
2. Get water: Regulate the faucet, check shower head, nozzle, the sole massage machine is all right or not, checking the tube joint whether the leaking phenomenon exist or not.
3. Switch on electricity: Confirm grounding, the electric appliances circuit, the electric leakage switch is normal, then connect the power supply.
4. Seal steam cabinet completely: Finish steam cabinet installation, after test circulate, use the glass gum to seal the joint completely.

#### Canalage



#### Tap takes over sketch



6. Please check strictly the wire of power box and control box. After confirming every part is OK, and then you can start the shower device.
7. Please do not install the equipments of bad quality that manufactured by illegal factories to the steaming device; Disassembling, changing the fixed inner wiring or connect some wiring to the power box are forbidden.
8. The installation of the controller should be carried out by qualified personal according to the installation manual.
9. Do not try to repair of the modifier parts of the controller, and the high-voltage might cause danger. All the maintenance and repairing should be carried out by qualified personal.
10. For any consequences caused by wrong operation, the user should bear the responsibility.
11. This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.
12. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
13. To protect against the risk of electrical shock, do not immerse the plug, the cord and the controller in water or other liquid.
14. The appliance should be supplied through a residual current device (RCD) having a rated residual operating current not exceeding 30mA.
15. Before maintenance and cleaning, please make sure that the power supply must be cut-off.
16. **WARNING:** Only allow children to use the appliance without supervision when adequate instructions have been given so that the child is able to use the appliance in a safe way and understands the hazards of improper use.



2.4 E5: Dry heating: When the water level checking doesn't work, the steaming continues heating without water those results in a higher temperature. By then, if the temperature  $\geq 108^{\circ}\text{C}$  æ“E5” and sound “Du, Du, .....”. By then, cut the primary power and clear the malfunction.

2.5 E6: : when the cleaning function is on, if the cleaning liquid cannot be drained within 60 seconds, LCD shows “E6” and sound “Du, Du ...”, the cleaning function stops.

2.6 E6: Malfunction of over draining: when the system detects steam system malfunction, steam will turn off automatically. The system will power off. LCD displays “E6”where temperature is usually displayed with “Di...”ring for 10 times. Steam generator stop heating. At this time, only by pressing power switch can the “E6”be removed. Steam generator can resume to normal operation with professional personnel check the draining valve and draining tube and water level detector and heating wire.

Control characteristics: 1、 if multi malfunction occur at the same time ( “E1”“E2”“E3”“E5”“E6”) , where temperature should be displayed will in turn display each malfunction.

If “E3”, “E6”occur, the system will be powered off automatically, together with all the loads. Press power switch to remove “E3”, “E6”; if “E1”“E5”occur, steam function can not be started, after the malfunction is resolved, steam function can resume to normal operation;

### V、 Attention

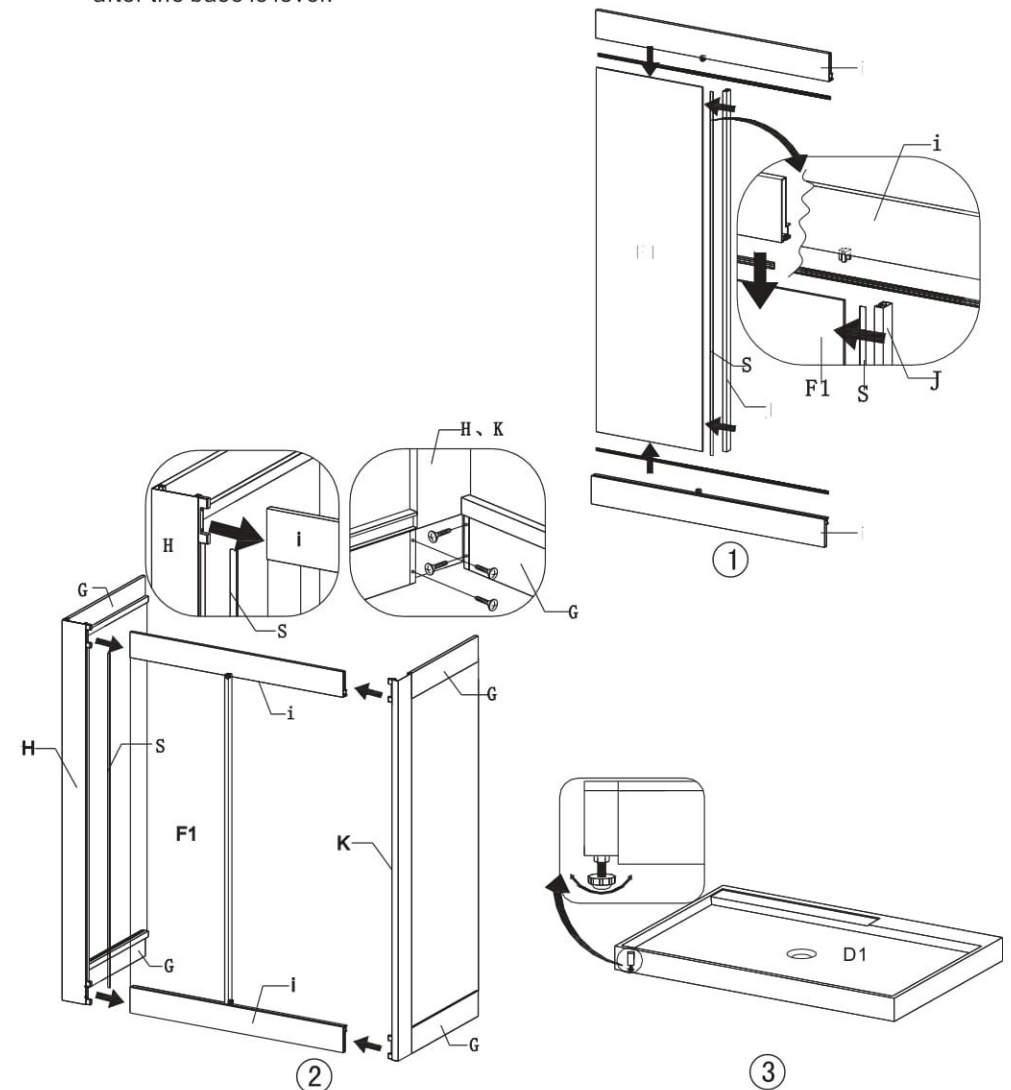
In order to guarantee the products function, prolong its lifetime and ensure the safety during using, please read the following items carefully before using:

1. The end user should carry on the load installation strictly according to the wiring diagram and parameters.
2. External audio signal should not be too strong to avoid burning the power amplifier.
3. The ground wire of the controller must be in good grounded power lines Controller
4. The wire diameter must meet the national standard (GB) 3 x 3mm<sup>2</sup> , or thicker than that. The supply socket must be over 30mA
5. Users must plus an 30A air switch or leakage switch which meet the national standard. The leakage switch of the controller is used for auxiliary repair only

### Installation steps

#### 1. Install fixed glass F1, E1 and H1 parts:

- 1.1 Connect the fixed glass F1 with up and down track. (As picture 1)
- 1.2 Connect aluminum H, K with track. (As picture2)
- 1.3 Install the E1, H1 in aluminum frame and connect them tightly with ST4X16 screw.
- 1.4 Put the base smoothly on the ground,adjust foot-screw,lock the foot-screw after the base is level.





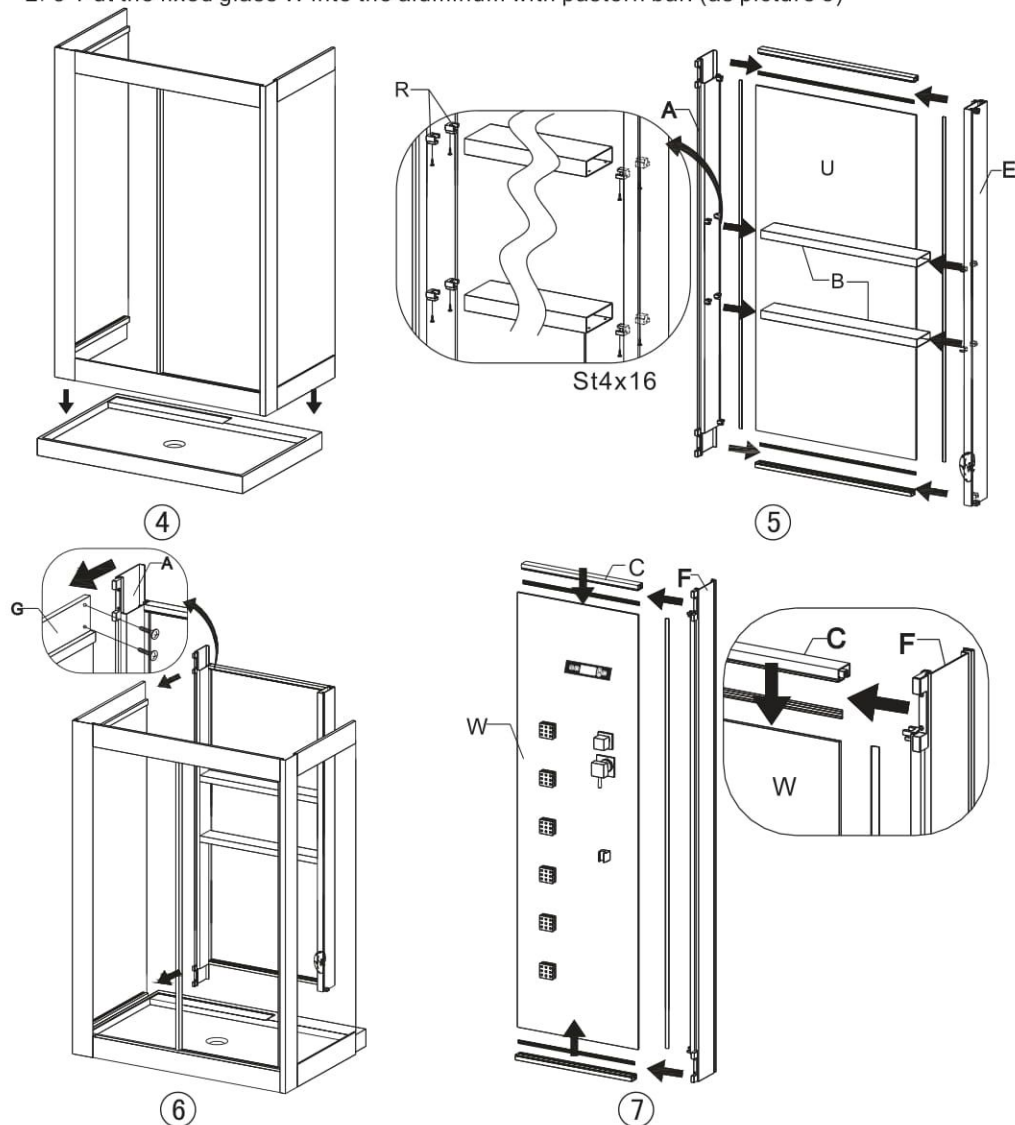
1. 5 Install the aluminum frame on the tray. (as picture 5)

**2. Install fixed glass U. W parts:**

2. 1 Put the fixed glass into aluminum A, E (as picture 6), and then use the screw ST4X16 to tight shelf aluminum B and aluminum A, E.

2. 2 Connect aluminum A, G with screw ST4X16.

2. 3 Put the fixed glass W into the aluminum with pastern bar. (as picture 8)



**7. 0zone**

Press “” to turn off the system, ozone generator will start automatically, and disinfect the steam room for 10 minutes then automatically turn off.

**8. Alarm** **Alarm function**

8.1 When the alarm is started, lamp and fan will be on at the same time; when the alarm is stopped, lamp and fan will be off.

8.2 Press “” and “” , to move the cursor to “Alarm ”, and press “” alarm is started. LCD displays “Alarm ”, with alarming ring tone; press “” to stop the alarm.

**9. LOCK**

Press directly “” to lock the panel or without any operation with the control panel for 3 minutes, the keys will be locked and LCD displays “”, then all the keys will be locked and can not be operated; press any key for 5 seconds, the keys will be unlocked, “” not show on LCD.

**IV. Malfunction Intelligent Check & Alarm**

1. This system is equipped with 5 malfunction self-diagnose functions.

2. Malfunction:





2.1 E1: Malfunction of temperature sensor: when the sensor breaks out or short-circuit happens, liquid crystal shows “E1” and sound “Du, Du, .....”. The buttons of the controller do not work. By the time, cut off the primary power and clear the malfunction.






2.2 E2: Malfunction of Water level checking: 1) During the steam generator is working, the water level checking doesn't work. If the water level is lower than the checking one, no water is coming in, the bobber is sticking or the probe is furring, liquid crystal shows “E2” and sound “Du, Du ...” Stop the steaming, when the water level is normal, liquid crystal doesn't show “E2”. 2) When the cleaning function is on, the water level cannot achieve the checking value whine 60seconds, liquid crystal shows “E2” and sound “Du, Du ...”and the cleaning function stops.

2.3 E3: Malfunction of Overtime water level checking: When the water level checking malfunction “E2” alarms for over 2 minutes, the power is still on and the malfunction is not cleared, the liquid crystal shows “E3” and sound “Du, Du, .....”. By then, cut the primary power and clear the malfunction.



## 6.2.4 Radio station memory/select

6.2.4.1 Radio station memory: When you want to store the station, press this icon “” till the LCD shall blink with “SA”, then press “” or “” to choose the place to store station then press “” to store it.


6.2.4.2 Radio station select: When FM function is on, press “” till LCD displays “LD ” then press “” to select the stored station. Or by pressing “” or “”, the stored station frequency will be selected with every press. 5s later or by pressing “”, LCD will exit station selecting, displaying stored station position number and its frequency;

## 6.3 Blue tooth music play



### 6.3.1 Bluetooth pairing

6.3.1.1 Search blue tooth equipment PROW-BT with cell phone, and click pairing;

6.3.1.2 If Bluetooth device is paired with your phone, the LCD displays "BT – C" statically; if not paired, "BT – C" blinks on LCD.








6.3.1.3 If blue tooth disconnection is needed, then disconnect the pairing with cell phone blue tooth equipment. Or when WELCOME is displayed, continuously press “” for 3S. The blue tooth will be disconnected with a “Di...”; reconnect the blue tooth with cell phone if pairing is needed.

### 6.3.2 Bluetooth music play、pause

6.3.2.1 When cell phone music play is on, pressing “” for 3s to control cell phone blue tooth music play and pause. Pressing “”, to choose last and next song.

## 6.4 Volume setting

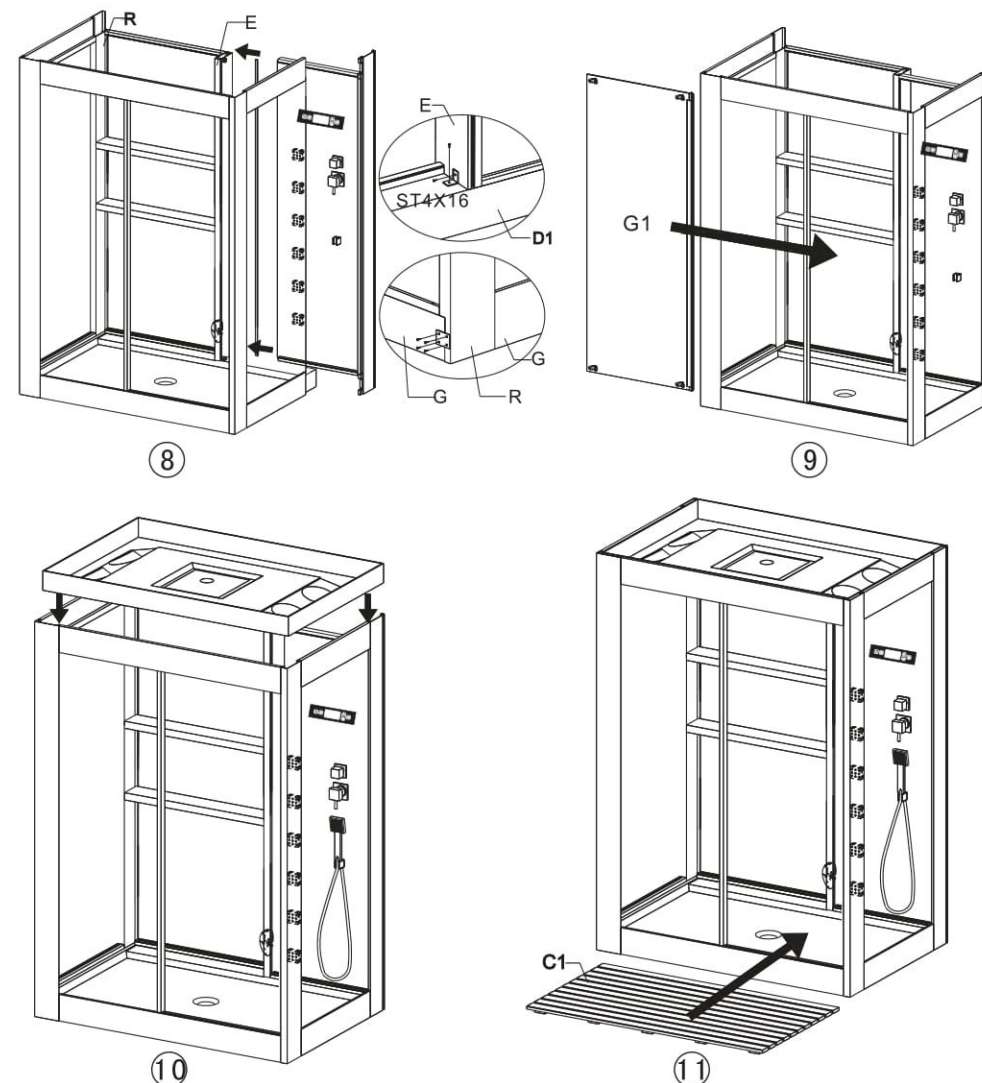
6.4.1 The tuning steps are 20 with each step 4 dB and the volume adjusting range shall be –80dB ~0dB. During the tuning, LCD shall flash to display the volume value and the finally adjusted value shall be the set value.

6.4.1.1 Press “” till “VOL” on LCD blinks, press “” or “” once, volume will increase or decreased by 2dB, if press “” or “” for over 2 seconds, volume will increase or decreased by 10dB/sec; stop press “” or “” for 5 seconds, the setting finished.

2. 4 Put the fixed glass W into aluminum E, and then connect the aluminum frame into the correct position. (as picture 9)
2. 5 Install the moving glass onto the body, ( put the roller into the track in order to make sure everything is going well.)

### 3. Install the cover and other fittings.:

3. 1 Put the top cover on the roof lightly, aim at the hole, use ST4X16 self tapping screw to lock the top cover on the frame.
3. 2 Put the motherboard onto the base. (as picture 12)





## I. Safety



**Danger symbol: It is to remind users there is dangerous voltage in the device!**



**Warning symbol: The symbol is to remind users there are important operation & maintain manual attached!**

### 【Warning】

1. In order to prevent fire or electric shock accident, do not expose the controller to the rain or humid environment. There are dangerous high-tension fittings inside the controller, therefore do not open the cover. Entrust the repairing work only to the qualified professional repairing personnel when repairing is required.
2. Because the temperature of this steam generator is high and metal is damp, to avoid scald or electricity shock, please do not touch it until 30 minutes after the main power is disconnected and heating is stopped.
3. Without the clear approval from the controller manufacturer or its authorized units, any change or alternation to this controller might bring various inconveniences to the users when in use.








### 【Attention】

1. Please read this operating instruction manual thoroughly, so as to allow you to master the correct use of this controller.
2. After reading this operating instruction manual, please keep it safe and for reference in the future. If repairing is required, please contact the local dealer or the technical service center of our company.

### 【Notice for use】


1. In case this controller is not used for a long time, please remove the power plug from the socket.
2. Before switching on the power, please make sure that all wirings and power cord have been connected accurately.
3. Please put this controller in a ventilated dry area. Prevent it from getting close to the heat source, put it away from direct sunlight, mechanical vibration, dampness and dusty environment, and prevent it from getting close to other thermal-radiating objects.


## 5.3 Time setting

5.3.1 Press “” till “ min” on LCD blinks, then press “” or “” once, time will increase or decrease 1 minute; if “” or “” for more than 2 seconds, time will increase or decrease in “1 min /0.5sec”; stop press the “” or “” for 5 seconds, the last digit is the setting time, LCD displays the time.

5.3.2 Time setting scope: 10—60minutes.




## 5.4 Automatically Draining:


5.4.1 The steam generator will drain for 2 minutes when the main power is connected, press “” to stop the draining.


5.4.2 The steam generator will automatically start and drain for 2 minutes when the user press “” to turn off the system.



## 6.FM radio、blue tooth music play and blue tooth TEL answer

### 6.1FM、Bluetooth function choose

6.1.1 Press “” or “” to move the cursor to “>Music ”

6.1.1.1 Press “” the first time to turn on the FM radio function, LCD displays the present frequency;



6.1.1.2 Press “” the second time, FM radio switch to Bluetooth music play, if the blue tooth is connected, LCD display “BT--C” statically, if not connected, “BT--C” on LCD blinks.

6.1.1.3 Press “” the third time, system quit from “>Music ” “WELCOME” shows on LCD.



### 6.2 FM Radio

#### 6.2.1 The FM frequency scope is 87.5MHz—108.0MHz.

#### 6.2.2 Frequency plus








6.2.2.1 Press “” to increase the length of one step (the length of one step =0.1MHz); press “” for over 2 seconds, the system searches the radio stations automatically; the digital phase locked loop will lock the FM station automatically and the liquid crystal shows the frequency of this station; when it reaches to the limit of 108.0MHz, the frequency automatically jumps to 87.5MHz. And the station search ends.

#### 6.2.3 Frequency minus

6.2.3.1 Press “” to decrease the length of one step (the length of one step =0.1MHz); press “” over 2 seconds, the system searches the radio stations automatically; the digital phase locked loop will lock the FM station automatically and the liquid crystal shows the frequency of this station; When it reaches to the limit of 87.5MHz, the frequency will automatically jump to 108.0MHz. And the station search ends.








#### 4. **Lamp (option: top lamp)**

4.1 Press “” or “” to move the cursor to “”, press “” the first time to turn on the top lamp, and the back light will be off; press “” the second time to turn on the back lamp, and the top light will be off; press “” the third time to turn on the top and back lamp; press “” the fourth time to turn off the top and back lamp; when the lamp is on the icon will be displayed dynamically, and when the lamp is off, the lamp will be displayed statically.

Remark: 1、back lamp is controlled by power switch;

#### 5. **Steam sauna**

5.1 Press “” or “” to move the cursor to “”, press “” to turn on the steam function, steam icon on LCD blinks, water intake valve opens automatically and water comes into the steam generator, press “” again to turn off the steam function, steam function stops blink.

5.1.1 If the water level sensor senses the water level is normal, the water input stops and the steaming function starts. The controller controls the inner temperature according to the defaults (Inner temperature is 45℃, time default is 45 minutes). It supplies water if needed.

Control rule:

Inner temperature > Default temperature℃, the steam generator stops heating.

Inner temperature < Default temperature℃, the steam generator reheats.









5.1.2 When reset the temperature and time, the controller will command the inner temperature according to the settings.

Control rule:

Inner temperature > Setting temperature℃, the steam generator stops heating.

Inner temperature < Setting temperature℃, the steam generator reheats

#### 5.2 **Temperature setting**

5.2.1 Press “” till “” on LCD blinks, then press “” or “” once, temperature will increase or decrease 1℃, if “” or “” for more than 2 seconds, temperature will increase or decrease in “1℃/0.5sec”; stop press the “” or “” for 5 seconds, the last digit is the setting temperature, LCD displays the temperature.

5.2.2 Temperature setting scope: 25℃--60℃

#### 【Helpful suggestion】

1. In order to prolong the service life of this controller, the time interval for continuously turning on and off the machine must be over 30 seconds.
2. The power supply used must be consistent with the voltage specified value indicated on this controller; otherwise it will not work, or even burn out the controller.
3. When installing this controller, carefully check if the load parameters are consistent with the parameters required by this controller, otherwise it will not work, or even burn out the controller.
4. If it is halted accidentally, please close and restart.

#### II、**Brief introduction**

1. General description of the functions

model	PS6033H-2451
function	
Lock	√
Touch Key technology	√
Top Lamp	√
Back Lamp	√
Fan	√
FM Radio	√
Steam Sauna	√
Bluetooth Music Play	√
Ozone	√
Alarm for help	√
Intelligent malfunction self-inspection and alarm	√

2. **The controller system includes:**

- 1) Control panel (1)
- 2) Control box (1)
- 3) Steam Generator (1)
- 4) Hand-held infrared remote controller



### 3. Characteristics of the controller

- 1) **Rated voltage** : AC220V
- 2) **Working voltage range**: AC198V-242V
- 3) **Rated power** : 50Hz/60Hz
- 4) **Power consumption** : <10W (all loads off)
- 5) **Applied ambient temperature**: +5℃~40℃
- 6) **Bluetooth Tel answer distance**: < 10m

### 4. LCD shows the following information



### 5. Devices controlled by the controlling system

- 1) **Top lamp**: DC12V/8W
- 2) **Back lamp**: DC12V/5W
- 3) **Fan**: DC12V/Max4W
- 4) **Speaker** : 8Ω/15W
- 5) **Ozone generator**: DC12V/6W
- 6) **Steam generator**: AC230V/3000W


### 6. Schematic Diagram of control panel:


### 7. Remote control



### III、Operation of Control Panel






1. When any function button works, there is a sound of ding dong...

2. ON/OFF “”

2.1 When the system is off, press “” to turn on the controller, back lamp will be on, LCD background light will be on and “WELCOME” blink on LCD.

2.2 When the system is on, press “” again to turn off the controller and all the loads.

3. Fan “ Fan <”

3.1 Press “” or “” to move the cursor to “ Fan <”, press “” to turn on the fan, fan icon blinks on LCD; press “” again to turn off the fan, fan icon stop blink.