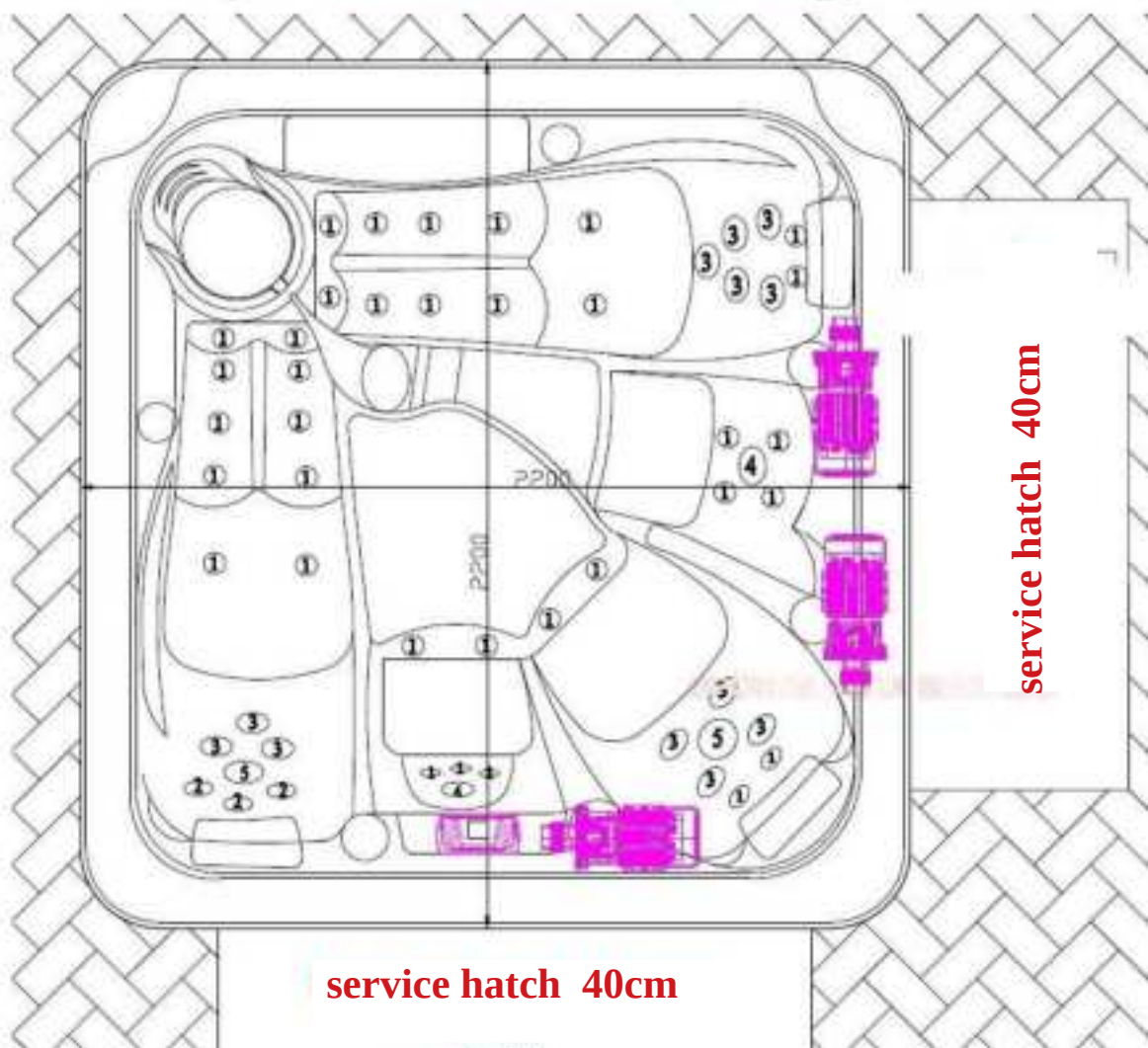


**Product dimensions: 2200x2200x920mm R=200mm**  
**Tub dimensions: 2100x2100x810mm R=150mm**



# Outdoor SPA

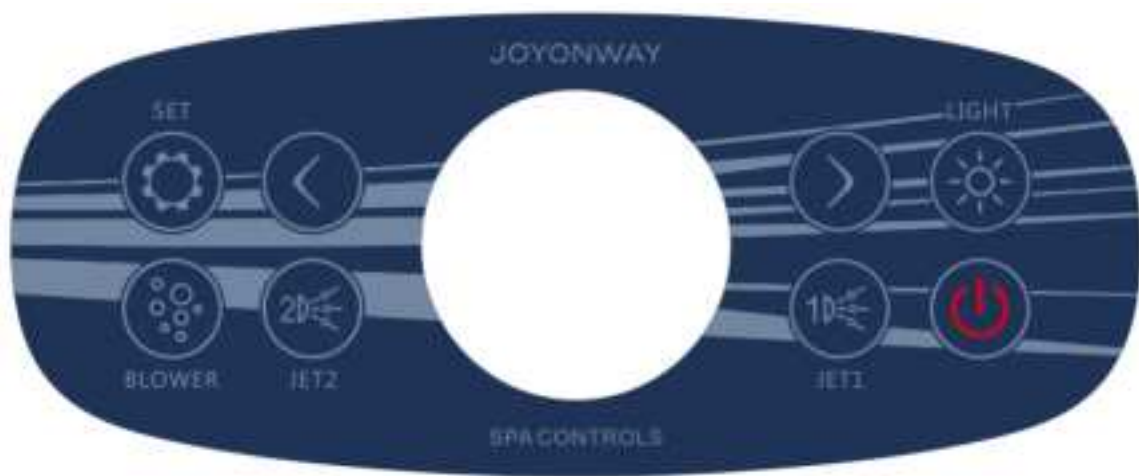
## Installation & Usage Manual



# MENU

Contents	Page
✓ Description on Computer Control System MX-(01,02,03,04)-CH(1,2)FM	3-9
✓ Declaration for Electrical Equipment	10
✓ Description of Installation & Maintenance	11-20
✓ Using Maintaining For SPA	20-21
✓ Instructions on Repairing	21
✓ Troubleshooting	22
✓ Warning	23-24

## ✓ Description on Computer Control System:



### I. Function



#### 1 On and off key

When the control system is powered on, press this key to control the on and off of the control system.



#### 2 Pump1

2.1 When the control system is powered on, if the pump 1 is configured as a single speed pump, by pressing this key, pump 1 can be turned on and off. If the pump 1 is configured as a double speed pump, then by pressing this key, pump 1 can be switched from low speed, high speed to turning off.

2.2 The pump 1 will turn off automatically after running for a certain period of time.



#### 3 Pump 2

3.1 When the control system is powered on, by pressing this key, the pump 2 can be turned on and off.

3.2 The pump 2 will turn off automatically after running for 30 minutes.



#### 4 Blower

- 4.1 When the control system is powered on, by pressing this key, the blower can be turned on and off.
- 4.2 The blower will turn off automatically after running for 30 minutes.



#### 5 Lamp

- 5.1 When the control system is powered on, by pressing this key the lamp can be controlled. The lamp can be turned off in a fast way by pressing this key for 2 seconds. The lamp will turn off automatically after working for 2 hours.
- 5.2 The lamp has two modes. In on and off mode, this key controls the on and off of the lamp. In RGB mode, the control pattern is as following:

State 1 automatic color change

state 2 red

state 3 green

state 4 yellow

state 5 blue

state 6 purple

state 7 cyan

state 8 white

State 9 turning off

## 6 Timing water cycle

- 6.1 Two time ranges can be set for water cycle time. Please set the two time ranges before using this function.
- 6.2 The water cycle function will be started when the system time is in either of the time range. The water cycle function will not be started when the system time is in neither of the time range.

## 7 Ozone

- 7.1 When the loads of pump and blower are started, the ozone will be turned off.
- 7.2 When the loads of pump and blower are turned off, and heating cycle pump or timing water cycle is turned on, the ozone will be started automatically. When the heating cycle pump and timing water cycle are all turned off, the ozone will be automatically turned off.

## 8 Heating

- 8.1 Two time ranges can be set for heating time. Please set the two time ranges before using this function.
- 8.2 The heating function will be started when the system time is in either of the time range. The heating function will not be started when the system time is in neither of the time range.
- 8.3 When the heating function is started, the heating cycle pump will be started in advance. The heater will work a moment later. If the heating function is turned off, the heater will turn off a moment later.


## 9 Freeze proof

When the water temperature is below 6°C (43°F) , heating function will be started. The heating function will be turned off when the temperature reaches 10°C (50°F) .

## 一、 Setting

### 1 Temperature unit



- 1.1 When it is within 5 minutes after the control system is powered on press  for 8 seconds to change the temperature unit. At the same time, the buzzer will ring once as a hint. The system will store the temperature unit setting.

## 2 Temperature setting



- 2.1 When the system is powered on, press

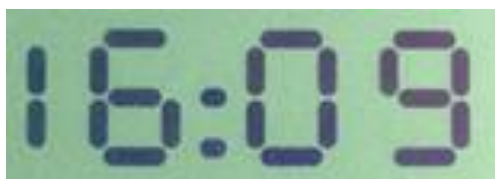


Then press “” and “” to adjust the temperature setting. The setting range is 10~40°C (50~104°F). The system will store the temperature value that set by the user.



- 2.2 When the system is started and not in setting model, press directly “” and “” to adjust the temperature setting.

## 3 Clock setting



Clock setting interface



- 3.1 When the system is powered on press



Then press “” and “” to adjust the hour value.



- 3.2 When the control system is powered on press



“” and “” to adjust the minute value.



4 Set the timing heating time range

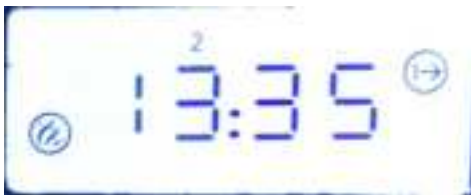


Starting time setting interface of timing heating time range

1



End time setting interface of timing heating time range 1



Starting time setting interface of timing heating time



range 2



End time setting interface of timing heating time range

2





4.1 The “1”、“2”in the LCD stand for time range 1 and time range 2. “”、“”stand for start time and end time.



4.2 When the system is powered on, press  till it enters timing heating time range setting



interface. The correspondent time value will flash. Press “”and“”to adjust the time.

4.3 After the timing heating time ranges are set, the system will store them automatically.

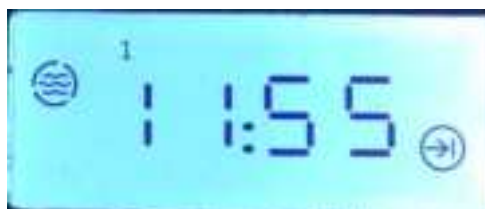


## 5 Timing water cycle time range setting



Starting time setting interface of timing water cycle time

range 1



End time setting interface of timing water cycle time

range 1



Starting time setting interface of timing water cycle time



range 2



End time setting interface of timing water cycle time

range 2





5.1 The “1”、“2”in the LCD stand for time range 1 and time range 2. “”、“”stand for start time and end time.



5.2 When the system is powered on, press  till it enters timing water cycle time range setting



interface. The correspondent time value will flash. Press “” and “” to adjust the time.

5.3 After the timing water cycle time ranges are set, the system will store them automatically.

## 二、 系统故障表格

malfunction code	malfunction description	handle method
E1	temperature sensor malfunction	Please check the temperature sensor and its connection. Replace a new one if necessary.
E2	temperature exceeds the normal range	It indicates the control system sensing the temperature sensor being overheated. When the heater is started, and there is no water or very slim stream of water in side the heater, this malfunction may happen. Please guarantee that there is water inside the SPA tub. If this malfunction occurs several times in a few days, please contact the service provider or the manufacturer. Please pay attention to freeze proof when the system senses that the temperature sensor's temperature is too low.
E4	Thermostat disconnect	it indicate the heater is overheated. When the heating started and there is no water or very slim water steam in side the heater, this malfunction may happen. If this malfunction occurs several times in a few days, please contact the service provider or the manufacturer.
E5	Panel and control box communication malfunction	Please check the cable between control panel and the control box. Replace a new one if necessary.

### 11.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. The ground wiring should be connected to the normal-running supply circuits, so as for the steaming.
3. The end user should use power supply cables in 3 x 8mm<sup>2</sup> or wider cable diameter. According to the National standards (GB). The socket should be of 80A or above according to the National standards (GB).
4. The end user should install air-break or leakage switch of 80A or above according to the National standards (GB).
5. Strictly check the power supply wiring of the control box. Power on to use only after no errors confirmed.
6. Please do not install the equipment of bad quality that manufactured by illegal factories to the box are forbidden.
7. The connection wire of power box should wire according to the specification, the output wires should connect correctly to avoid short-circuit.
8. After using, please cut off the power to avoid aging of the device.
9. The installation of the controller should be carried out by qualified personal according to the installation manual.
10. 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. For any consequences caused by wrong operation, the user should bear the responsibility.

## ✓ Declaration for Electrical Equipment

- 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 bore by the customer.
- 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.

3 ) Electric parameters

### **\*\*Performance indicate:**

Rated voltage: 220VAC/50Hz (110VAC/60Hz)

Isolative resistance :  $\geq 200\text{M}\Omega$

Water resistance grade: IPX5.

Electric shock resistance: first grade

Model	Rated Power Current	Air Bubble (Each)	Pillow (Each)	Water pump (Each)			Air Pump 700W/100W	Heater 3KW (Each)	Filter (Each)	Underwater Lamp 12V/8-15W (Each)	Ozone 15w (Each)	Controller System (Set)
				0.5HP	2HP	3HP						
JY8601	17300W/64.3A	8	5	2	2	2	2	2	2	2	2	2
JY8602	9800W/46.3A	/	2	1	/	3	1	1	1	1	1	1
JY8603	9800W/46.3A	/	2	1	1	2	1	1	1	1	1	1
JY8001	8900W/38.3A	16	8	1	1	2	1	1	1	1	1	1
JY8002	7600W/34A	10	6	1	/	2	1	1	1	1	1	1
JY8003	7600W/34A	10	3	1	/	2	1	1	1	1	1	1
JY8009	6000W/27.3A	14	1	1	1	/	1	1	1	1	1	1
JY8009	5000W/22.73A	/	1	/	1	/	/	1	1	1	1	1
JY8010	6100W/28.5A	10	/	1	1	/	1	1	1	1	1	1
JY8011	7600W/34A	10	3	1	2	/	1	1	1	1	1	1
JY8012	7600W/34A	10	3	1	2	/	1	1	1	1	1	1
JY8012E	6000W/27.3A	/	3	1	1	/	1	1	1	1	1	1
JY8013	6100W/28.5A	6	3	1	/	1	1	1	1	1	1	1
JY8015	7600W/34A	10	4	1	2	/	1	1	1	1	1	1
JY8016	7600W/34A	10	3	1	2	/	1	1	1	1	1	1
JY8017	7600W/34A	10	3	1	2	/	1	1	1	1	1	1
JY8018	7600W/34A	10	3	1	2	/	1	1	1	1	1	1

### **\*\*Max Output loading indicate:**

Ozone: AC12V/15W

Radio: 1) Frequency Range: FM: 87.0~108.0MHz

2) Maximum Output Power: 20W

3) Speaker: 8Ωdamp proof speaker

### **\*\*Description on Using Parts:**

#### **Thermostat:**

A. Materials and structure of thermostat:

(1) AC220-240V, 50/60HZ, 13.6A, 3000W , IPX4;

(2) Two sets of thermostats (max constant temperature 40°C-45 , protection temperature °C 55-60 )

(3) Pressures switch (water pressure ≥0.035Mpa).

B. Performance Indicate:

(1) Power Deviation: Rated Power: 3000W ±5%-10%.

(2) Leakage Current under Work State: <0.5mA.

(3) Electric Strength under Room Temperature: Basic insulation of electric heating element can bear 1250V test voltage without breakdown for 1min, rated current is 5mA.

(4) Electric Strength under Damp State: <0.5Ma after dampness test, and the test voltage is 1.06 times of rated voltage, which is 233.2V.

C. Correctly use: Correctly set the temperature which shall not exceed 40 . °C

D. Description and Cautions

(1) Start water pump, it is qualified if there isn't water leakage.

- (2) Assure the thermostat is installed at the positive pressure end (water output end) of water pump, and the dynamic pressure of water pump shall exceed 0.035MPa, and then the thermostat may heat water.
- (3) Power supply for the bathtub thermostat is 220V 50/60HZ, max constant temperature ranges 40-45 , and °C protection temperature is 55-60 . °C
- (4) The thermostat shall not heat in air manually. Otherwise, it may possibly cause danger. Please ask professional technicians to repair the machine if there's any fault for preventing electric shock.

#### **Air pump: (optional)**

##### 1. Performance:

Protection Grade: IPX5,

Insulation class: B

Air pump noise: ≤72dB with nozzle;

Certification: CQC,CE

##### 2. Parts and materials:

Pump: high temperature resistant engineering plastic

Carbon brush: apply imported materials

##### 3. Correctly use air pump:

Normal work time is 15-30 minutes (it is not allowed to make it continuously work for more than 120 minutes, otherwise, it may possibly damage the pump or shorten the service life)

#### **Description on using Massage Water Pump and Circulation Water Pump:**

##### 1. Performance: Product performance

Protection Grade: IPX5; Insulation class: B; Certification: CQC.CE;

##### 2. Parts and materials: high temperature resistant engineering plastic

##### 3. Correctly use water pump: Assure the water level shall be 1cm higher than the probe when using bathtub.

## ✓ **Description of Installation & Maintenance**

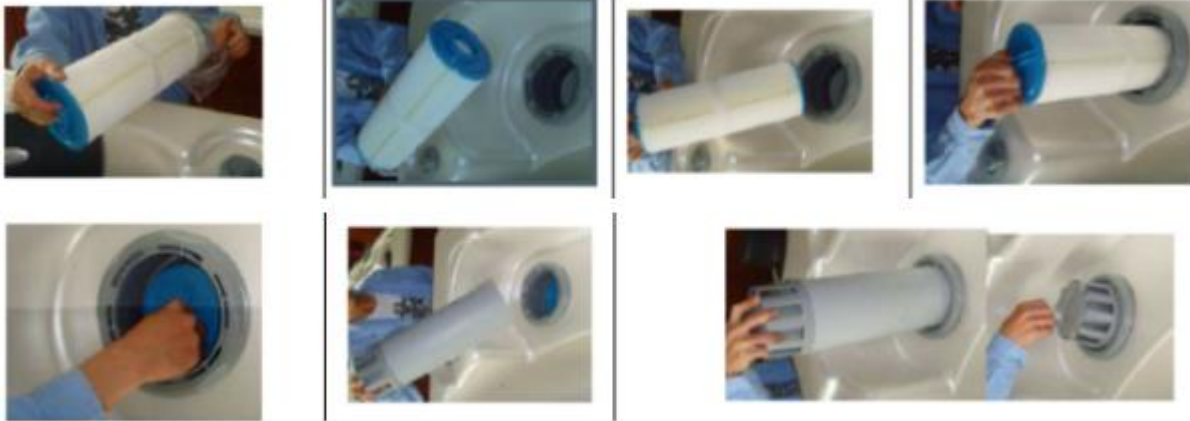
### ● The way of filter's element daily washing as followed:

#### **Model 1#**



1. REMOVE THE OUTER COVER OF THE SKIMMER
2. PULL OUT THE FILTRATION TUCK NET
3. CIRCUMVOLVE AND TAKE OUT THE PAPER CORE
4. WASH THE PAPER CORE WITH WATER, RESET IT AFTER CLEANING

#### **Model 2#**

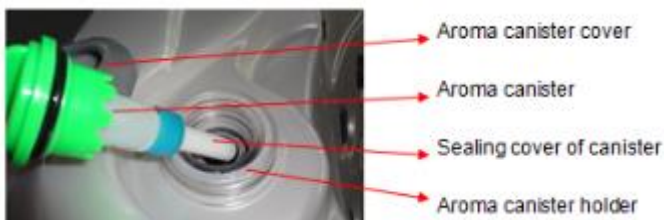


1. TEAR OFF THE PACKAGE OF THE PAPER CORE AND PUT IT INSIDE THE FILTRATION BUCKET
2. PULL OUT THE FILTRATION TUCK NET
3. MATCH THE PAPER CORE CORRECTLY INSIDE AND SCREW DOWN IT IN SEQUENCE, THEN PUT THE COVER OF FILTRATION BUCKET ON TOP.

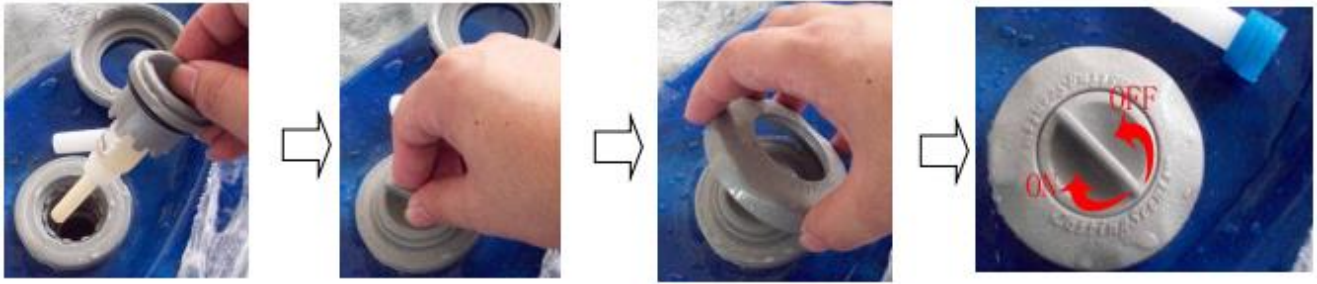
### Model 3#

1. use the key to open the service door and turn off the valve of the water pump	2. turn on the decompressing valve, and turn on the drainage valve of the filter	3. Let the water in the filter drain out
4. Take away the cover of the filter.	5. Take out the paper core.	6. Clean the paper core with water, and put it inside.

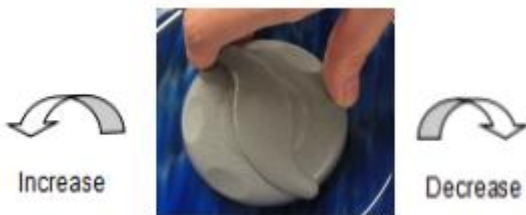
### ●Changed the fragrance species (option/according to system):







● **Air Valve Instruction:** Air controls affect the pressure of your jets by adding air. You may have more than one air valve on your spa, each of which will be associated with a certain group of jets. By opening an air valve when the pump is on, air will be drawn into the water flow to increase the massage strength.

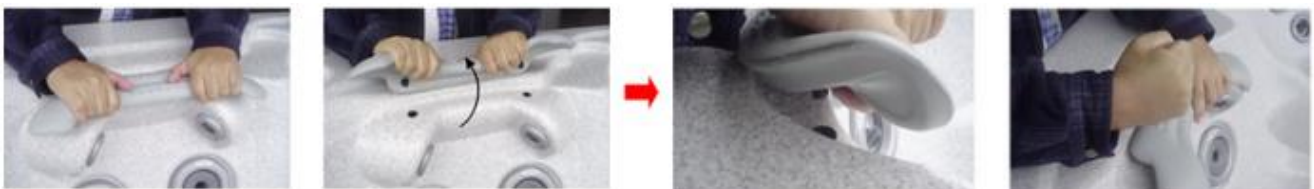


● **Water Diverter Instruction:** Your spa maybe equipped on one of the below water diverters, Rotating the water diverter, you will divert the massage power of different seats.



● **Pillow maintenance** : Your spa maybe installed the pillow as below. You can remove the pillow for cleaning and maintenance and quickly and easily.

\*Fixed pillow: Grab the lower edge of the pillow with both hands firmly and pull up. As you do this, the pillow inserts will pop out of their holes. Reset the pillows by aligning the pillow inserts with holes and striking the pillow hard enough to insert the pegs back into the holes.

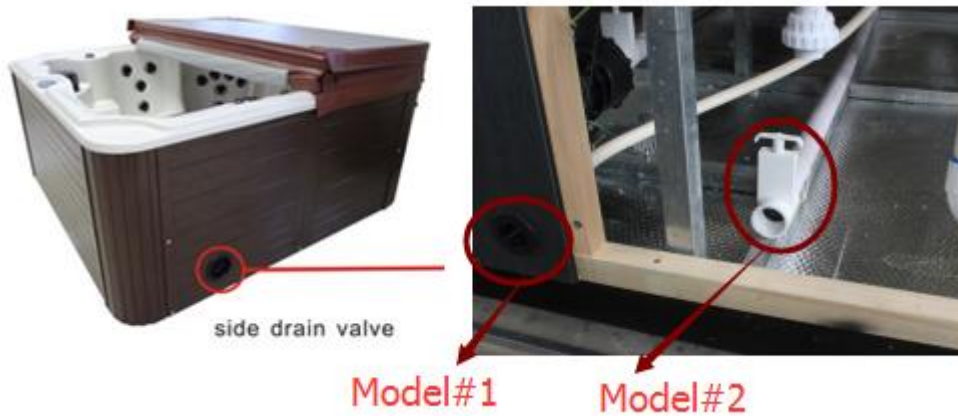


### ● **Draining your SPA:**

- If you use your SPA once or twice a week, the need to drain your spa will be less frequent than a SPA owner who uses their SPA three or more times a week. Therefore, it would be recommended that a SPA be drained at least every 3 months.



- There are two kinds of drainage valves as per different spas: the side drain valve is on the skirt panel and the corner drain valve is positioned at one corner of the bottom base.
- Details for drainage are as follows:



**Model#1**

**Model#2**

1. Correct side and pull out.



2. Open the cover. Drain pipe don't too longer



3. Don't too longer, it will be close.

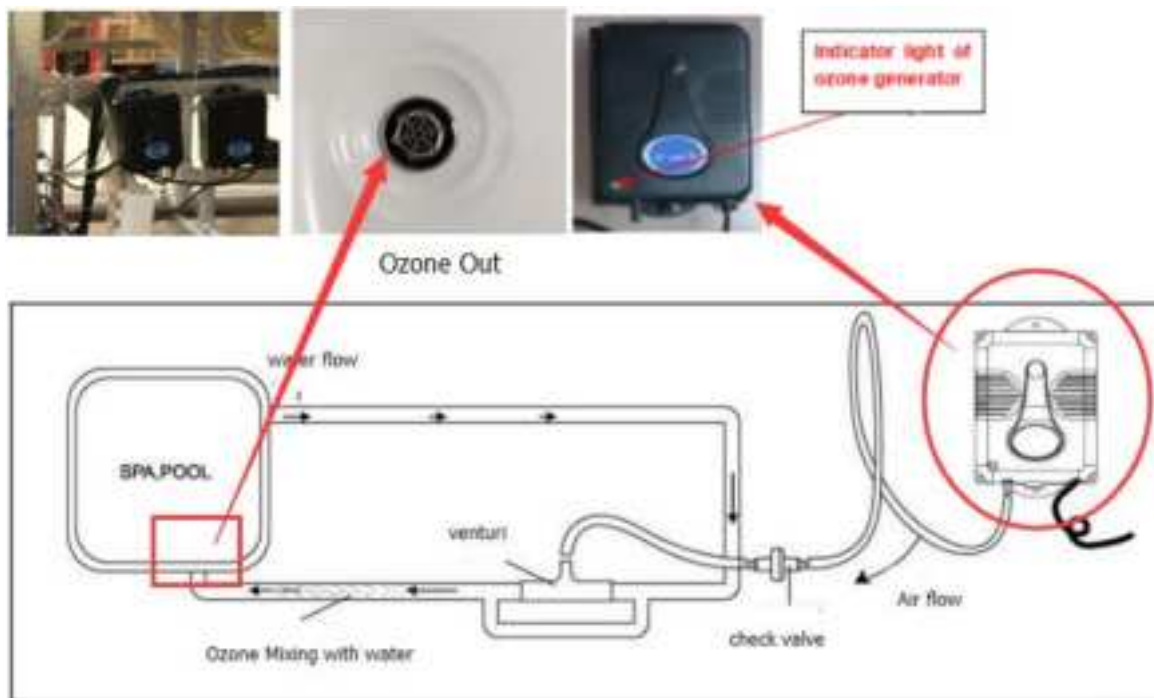


Turn on



**DISPOSAL OF WATER:** *Do not drain water onto your lawn or plants unless all of the bromine or chlorine has dissipated from the water. The sanitizer in your water will dissipate quickly by leaving the cover off and exposing the water to direct sunlight.*

●**OZONE disinfection:** Ozone is oxidizing chemical compound, which is very effective for disinfecting water, the main advantage of ozone is that it leaves no chemical trace and is odorless. Generally the spa is equipped with one ozone generator which produces 50mg ozone per hour. From the ozone jet. The ozone generator works automatically one the circulation pump is running. The indicator light of ozone generator will be on when it working. You can open the skirt panel to check it.



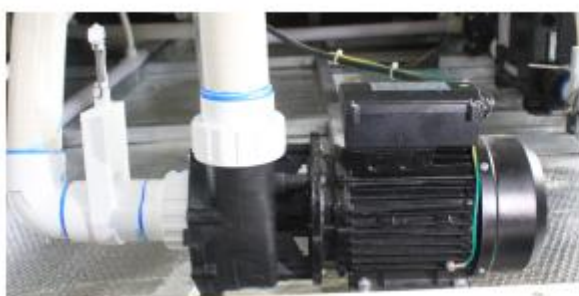
**\*Note: You are advised to replace the ozone generator every two years to get better disinfection effect.**

### ● Pump Maintenance(Air Locks):

If you have emptied and refilled your spa and the pump comes on but there is no water movement in your spa. The spa is probably suffering from an air lock. This situation is more often for circulation pump than other massage pumps. To get the air out of your pump. Turn the spa off and find the circulation pump, which is situated inside the spa cabinet. Locate the pipe which goes into the top of the pump. This has a large nut, which is called the barrel union. Undo anti-clockwise until you hear escape. When the water comes out, re-tighten. This should fix the airlock. Sometimes you have to start the pump again to remove the air.



If you want to stop the water , you can turn off the valve. Normal the spa is working, you must turn on it.



●Speaker Model (Option) :

Model 1#, Skirt speakers: install well on the spa skirt.



Model 2# , Pop up speakers: press the speakers downwards from the top o make it pop up or closing.









● DVD and TV instruction & Maintenance:



➤ Connecting description on DVD with antenna function

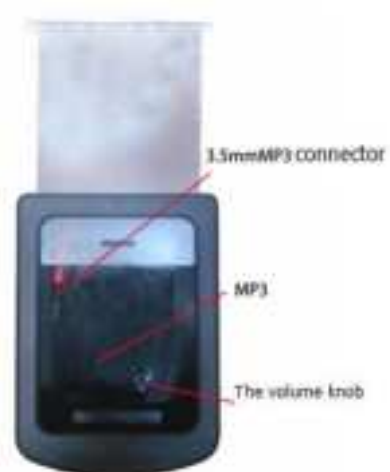


		
Put the DVD into the DVD box from outside direction	Connect the DVD with power supply from backside as above	Connect the audio-frequency plug (skip this step for the spa with no speakers)
		
Connect the video frequency plug	Connect the TV video frequency plug	Connect the antenna plug

- **Pup-up TV:** There is a small control panel to control the up and down of the TV, which near the main control panel. Please check the detail for the attachment manual.



- **IPOD/IPHONE DOCK:** please refer to the user manual of IPOD/IPHONE dock for the detailed operation.





- **Spa Cover Instruction (Option):** There is one coded lock on each cover of the insulation cover. Please fix the male part of the lock on the spa corner panel with round head screws. Set the password and then press the two buckles on the sides to open the coded lock.



- **Spa Cover Lifter (Option):**

\* how to assemble cabinet-mounting cover lifter?? please check the attachment manual.



- **Assembly of Ladder for the spa(option):** The ladder is knocked-down to save the packing space for the container. You need to assemble them as below simply before using.



● **LED Lights Maintenance(option):** Your spa will be equipped with one kind of LED light as blow. If the Led light can not be on or its color is different from other lights, you need to replace it. Please follow below steps to replace the LED lights.

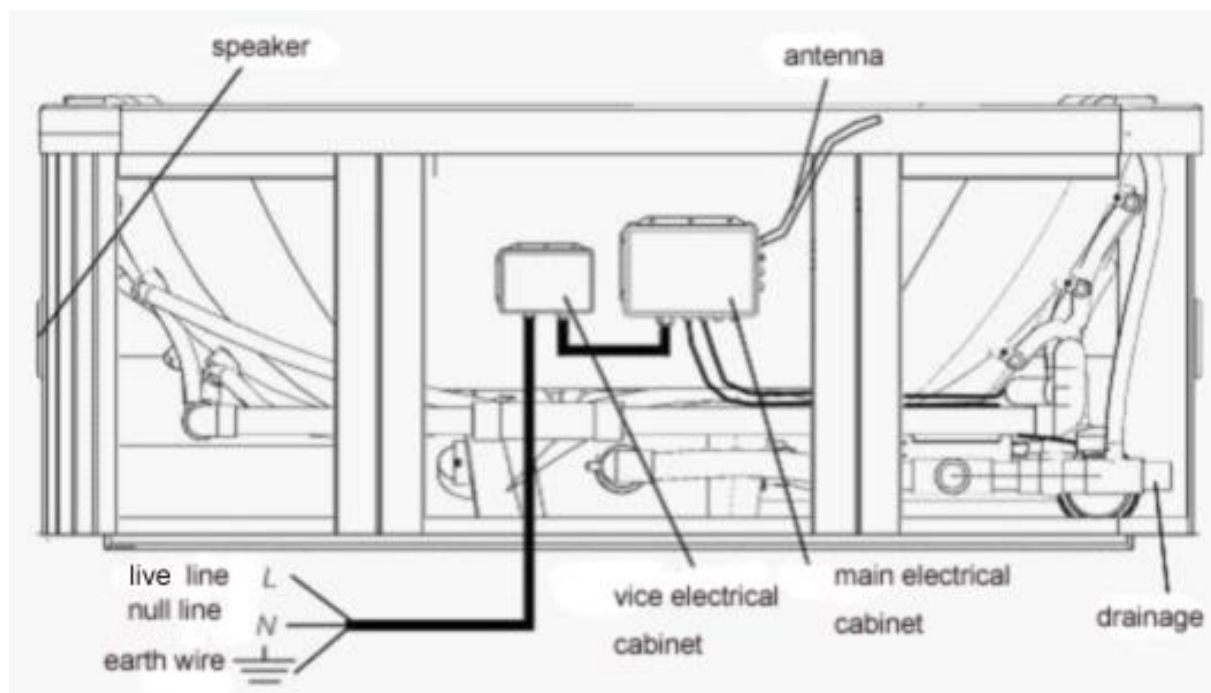
- How to replace the plug-in style LED lights: Pull out the defective LED light from its holder on the tub shell and the white socket. And the insert the new light to the holder and socket accordingly.

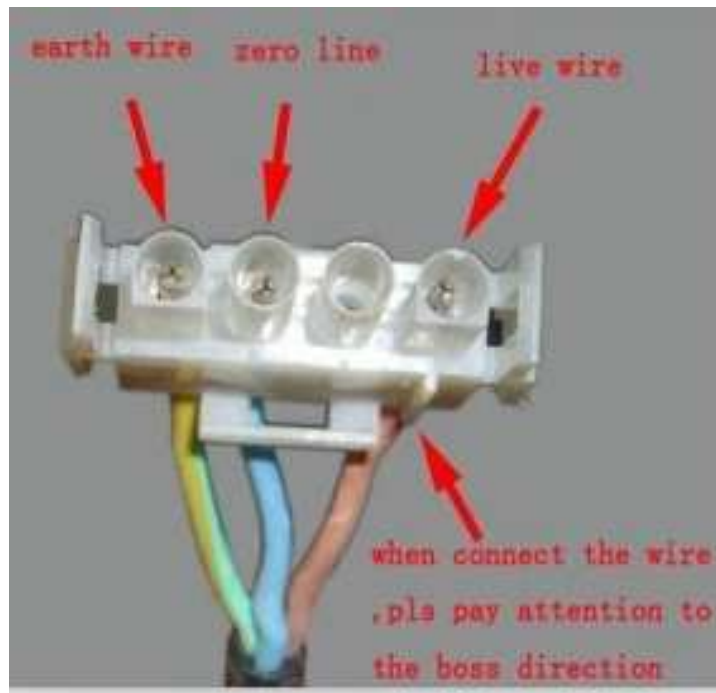


- How to replace the buckle style LED lights: Pull out the defective LED light from its holder on the tub shell and swivel the black bucket anti



● **Electronic control system Installation: (220~240V/50HZ)**

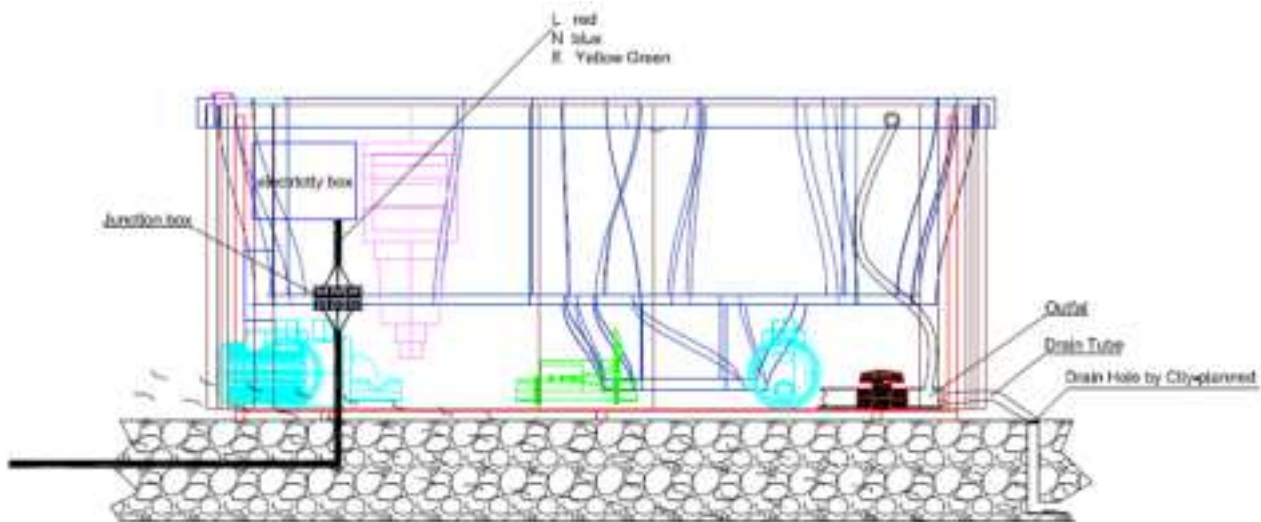




### • Description of SPA Installation:

Please confirm the position of the power supply switch and the drainage in accordance to positions of the electric box and drainage on different SPA model.

1. Please spare the wires with 3\*6mm<sup>2</sup> long;
2. Please connect the drainage hole with the prepared 1.5 inch soft pipe while draining the water out from the SPA.



### ✓ Using Maintaining For SPA :

1. Please clean the massage bathtub with neutral detergent and soft fabric. Do not clean it with acetone, solution, ammonia water and organic solvent, otherwise, it may possibly damage the surface of the bathtub. Mildly wipe off the adhesive stains on the bathtub with soft fabric and gasoline.
2. If there's scratches on the bathtub, please grind with 2000# grinding paper with water, and then polish with toothpaste and soft fabric.



3. Please wipe off the water scale on the bathtub with light acid detergent such as citric acid and vinegar.
4. Remove the water-return unit and nozzle for clean and remove dirt.
5. Do not frequently wipe the gold and chrome plated parts (do not contact it with organic solvent)

**Caution: acid glass sealant may damage the surface of electroplating parts.**

1. Please do not clean the bathtub with rough tools, chemical solvent or grain detergent.
2. Please do not knock or scratch the bathtub with knife or other objects. Do not contact the bathtub with burning cigarette or heat source exceeding 60°C.
3. Clean the water force massage system: pour into 40°C hot water till it exceeds the nozzle surface, add into suitable amount of detergent, start water force massage for 5 minutes, stop the pump and drain out water, and then add into clear water, and start the water force massage for 3 minutes, stop the pump, drain out water and clean the bathtub. It is required to drain out the remained water in the bathtub if it is not used for more than 3 days. When using water force massage, please do not add into foaming materials. Do not use too much vegetal cosmetic for preventing to jam the water net.
4. Check the leakage protection performance for the leakage switch once every 2 months.
5. Periodically check if the power core, switches and connectors are damaged by mouse, insects or ants.
6. Periodically check the water supply and water drainage pipes, check if it drains out water smoothly.
7. Please do not upset or stack the products; please do not store it together with formate or formaldehyde.
8. Be careful when moving the product; prevent heavy pressure, mechanical knock or intensive vibration.
9. Please drain out water from the bathtub if it won't be used for a long time, keep the environment dry and ventilated without corrosive gas.

### ✓ Instructions on Repairing:

1. Replace the massage water pump: cut off power supply, open the bathtub side plate, drain empty the SPA's water, remove the wires and open the water pump, loosen the fixed bolts and take out the water pump, after replacing the pump, install power wire, fix the bolts, put into small amount of water into the bathtub, check if there's leakage at the pump, and then install the side plate of the bathtub.
2. Replace the filter water pump: cut off power supply, open the bathtub side plate, turn off the valves on both ends of water pump, remove the wires and open the water pump, loosen the fixed bolts and take out the water pump, after replacing the pump, install power wire, fix the bolts, put into small amount of water into the bathtub, turn on the valve, check if there's leakage at the pump, and then install the side plate of the bathtub.
3. Replace the thermostat: cut off power supply, open the bathtub side plate, turn off the valves on both ends of thermostat, remove the wires, loosen the fixed bolts and take out the thermostat, after replacing, install power wire, fix the bolts, put into small amount of water into the bathtub, turn on the valve, check if there's leakage at the pump, and then install the side plate of the bathtub.
4. Replace the filter core: cut off power supply, open the bathtub side plate, turn off the valves, loosen the bolts on top of the filter, take out the filter, remove dirt on bottom of the filter.
5. Anti-frozen of filter: In some area, water may be frozen in winter, under this case, please stop using filter, remove it and clean the core, store it in safe place or move the filter core to interior.

### ✓ Troubleshooting:

Faults	Reason	Solution
No power supply	1. There's problem for the power circuit; 2. Protective switch is activated.	Check the circuit Check and remove short circuit, connect the protective switch

Nozzle doesn't spray water	1. There's problem for power supply of water pump; 2. Water pump is not started. 3. Massage water pump is damaged	Check and connect the power wire; Check the massage water pump Replace the massage water pump
Underwater lamp doesn't light on	1. Bulb is damaged; 2. Fuse is broken.	Replace the bulb Replace the fuse
Poor filtering effect	1. Filter water pump is not started; 2. Filter isn't cleaned; 3. Filter water pump is damaged.	Start the filter water pump Clean the filter Replace the filter water pump
Constant temperature effect is unavailable	1. Thermostat is damaged; 2. Power supply is unavailable. 3. Filter is jammed.	Repair or replace the thermostat Check the power supply Clean or replace the filter paper core
Bathtub is scratched		Grind with 2000# grinding paper with water, and then polish with toothpaste and soft fabric

✓ **Warning: Please read the following instructions before using the above products, it is the assurance for safety for the SPA users.**

1. Water in a SPA(2200\*2200) will rise around 2 °C/hour, so water temperature from 25 °C rise to 38°C need around 6 hours(precondition: the temperature is around 25°C, keep cover on the SPA)
2. In cold weather make sure SPA system in preparation, you can avoid the frost through the system's program and will keep all system and equipment in good situation. Or make sure to put some antifreeze in water to avoid the frost.
3. Old people, pregnant women, children and suffers with heart disease or high blood pressure shall be accompanied with adult when using the product.
4. Danger: Alcohol, narcotics or drug may cause danger.
5. Please strictly follow the safety instructions when using.
6. Assure water flows out from nozzle smoothly. Otherwise, it may possibly damage relative parts.
7. Please test the water temperature before using SPA for preventing scald.
8. Warning: water temperature shall not exceed 40 for preventing scald, 30 °C °C-40 is the safe temperature range for °C human, if you want to use the SPA for 10-15 minutes, please drop the water temperature. High water temperature is not beneficial for pregnant women. It is better to keep the water temperature lower than 38 for pregnant wom °C en.
9. Please take the physical property of the medicine before using SPA medicine.
10. Please do not immediately use SPA after intensive exercise.
11. Please stop using and see a doctor if you feel uncomfortable during or after using SPA.
12. Please do not move or open the cover of filter frequently.
13. It may damage the surface of SPA if it exposes under intensive sunlight for a long period, please cover it if it is not

used for preventing from intensive sunlight.

14. Please clean the paper core of the filter once a week if the SPA is used frequently.

15. Heat preserving cover composes of foam plate, please do not let kids play on it.

16. It is better that water level is 1cm higher than the probe.

17. Do not start the machine if there isn't any water or water level doesn't reach the probe position, do not turn on the underwater lamp if there isn't water for preventing from damages.

18. Please lock the repairing door and carefully keep the key if the repairing door isn't used

19. Please cut off power supply before any maintenance.

20. After maintaining, please test it according to normal operation procedure.

21. All maintenance and repairing must be undertaken by qualified and professional technicians, please contact the distributor for more service or authorized technicians.



**Do not use volatile detergents to wipe the acrylic tub, otherwise, it will cause crackings, wrinkles on the surface and quicken its aging.**

**Note: This User Manual is only for reference. Technical data is subject to change without prior notice.**