

Swim SPA / SPAS

Installation and Usage Manual



SWIM SPA/SPAS



RoHS

CQ

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NOTE : this Manual is used for all the SPA Models ☺ ,the functions are the same .

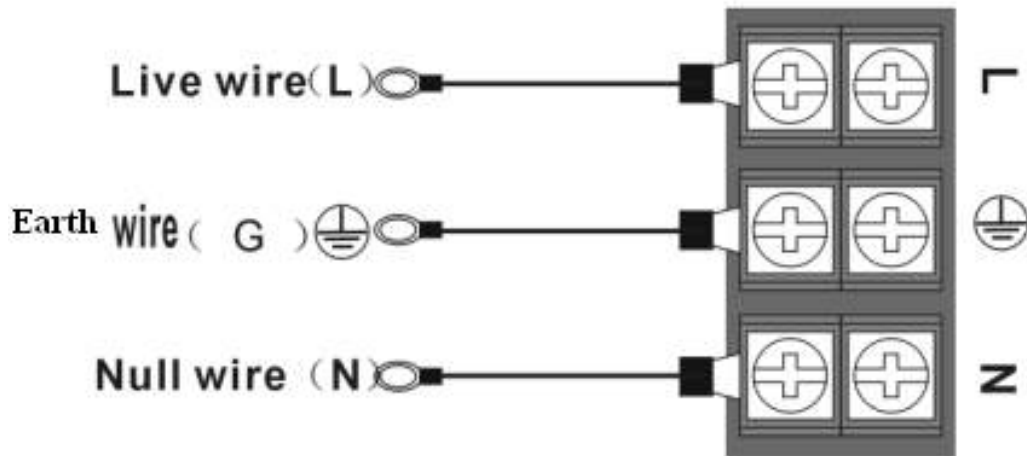
One, Introduction to the Product:

1. Materials: it is made of acrylic plate with fiber glass reinforced.
2. Functions: water force surf and massage, bubble bath, filter, ozone disinfectng, FM radio, CD (optional), underwater lamp, computer control etc.

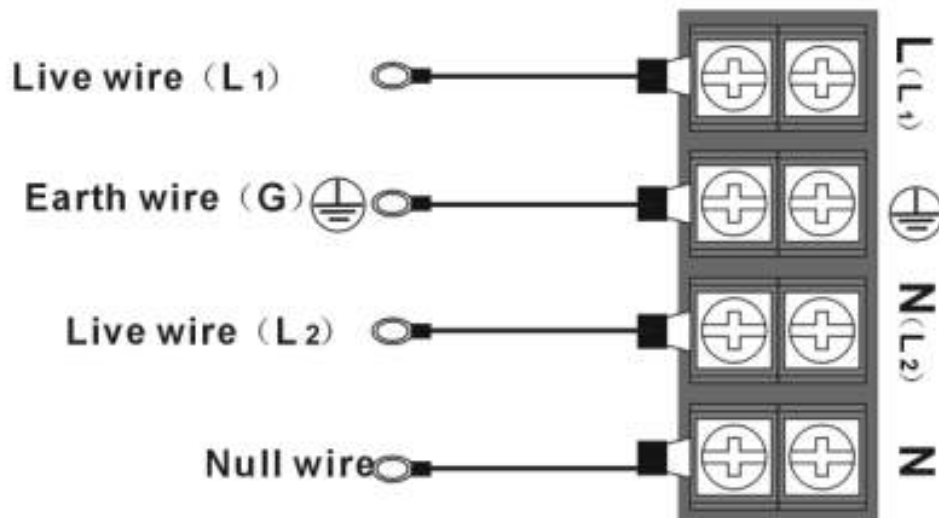
Two, Cautions:

- **Assure reliable grounding protection for the System :**
- Please carefully check the wires before supplying power, plug-in after confirming that there is no problem.
- In order to prolong the service life of the controller, the interval time for repeatedly turning on/off the machine shall exceed 30 seconds; please cut off power supply after using.
- In order to assure favorable radio effect, please adjust the antenna to the suitable position. Please do not connect other electric appliances which are not recommended by the manufacturer .It is not allowed to disassemble or refit the wires inside. Our company doesn't undertake any responsibility of the result if users disobey above regulations.
- The Picture of Cable Wiring :

1. 220V single phase three core wire: live wire (L) an null wire (N) earth wire (G)

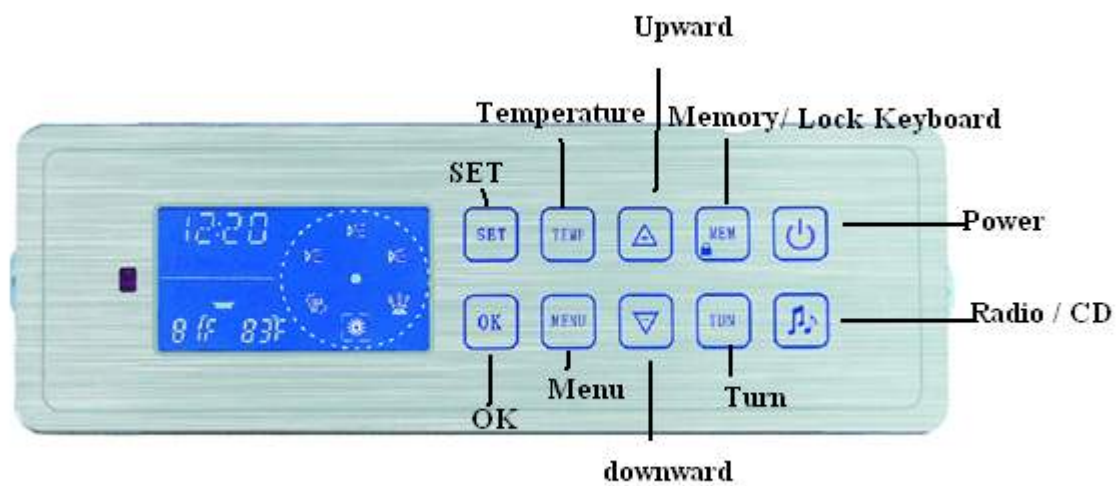


2. 110V two phase : Live wire (L1) Live wire (L2)
Null wire (N) Earth wire (G)

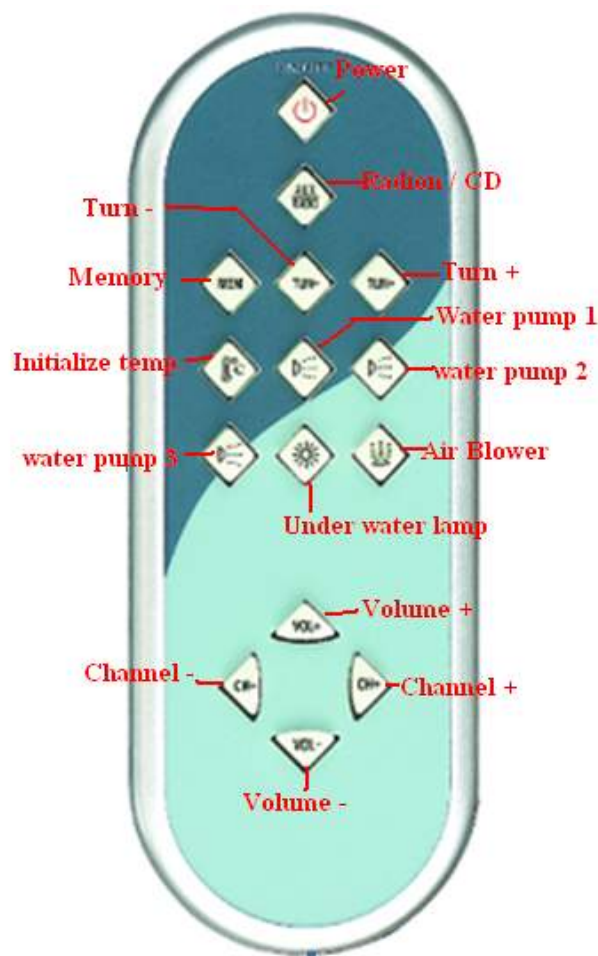


Cable Wiring Drawing :

◆ **Operation Description:** Keys on control panel are shown in Drawing 1.



Drawing 1 Keys on Control Panel




Drawing 2 : Waterproof Remote Controller

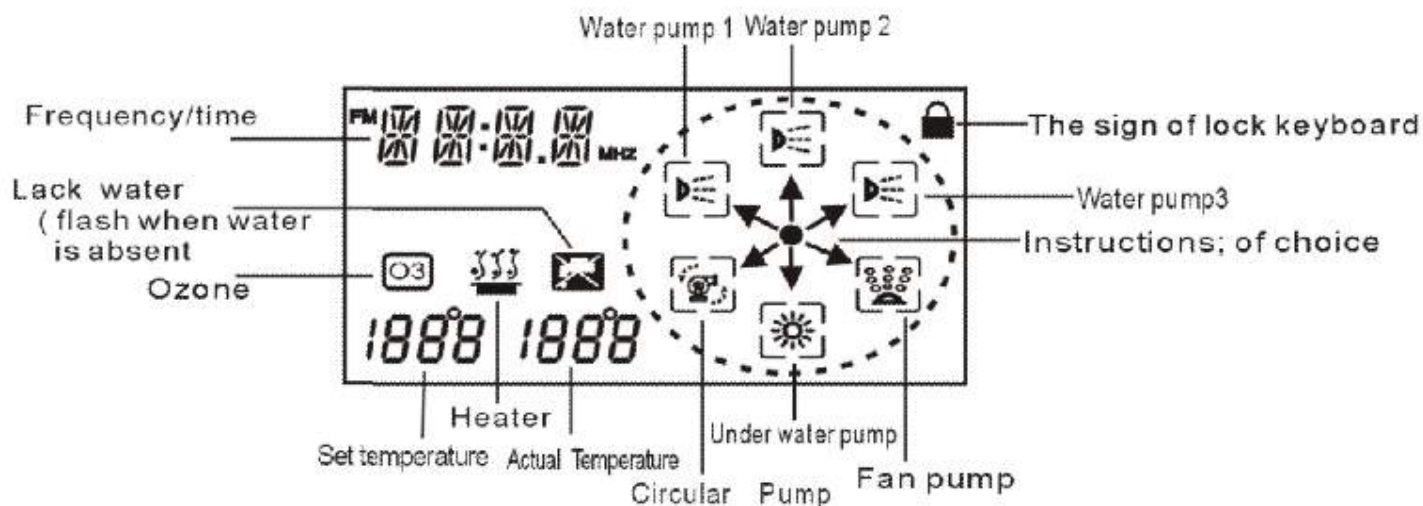
Three . Description on Computer Control System:

A. standard configuration

1. Performance of the system :

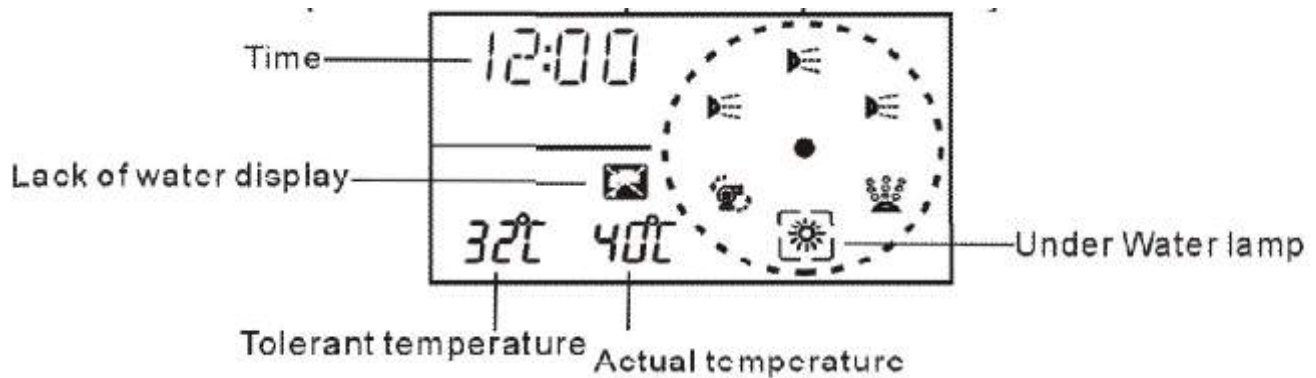
- ◆ Blue backlight LCD display
- ◆ Functions of Heater, air pump, water pump 1, water pump 2, water pump 3 (if have in your spa), circulation pump , underwater lamp, and ozone etc .
- ◆ the temperature can be set up.
- ◆ System has the water level inspecting function (Water Level Probe) , LCD may display water shortage mark  if there isn't enough water in the tub ; at this time, heater, water pump don't work.
- ◆ Built-in FM radio, autoamntically search and store Memory, it can be connected with CD too .

Four. Annotation of Display :









Five . The Manual of Function Operation :

1. Electrify : Before using ,please be sure that the lines are connected well (do not mistake L G N wires) ,then Press the “ Power “ Button on the Panel , controller is on , and the under water lamp is on , see the following picture here , then please adjust the Time :

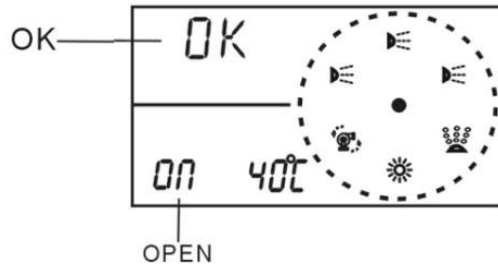


2. Menu :

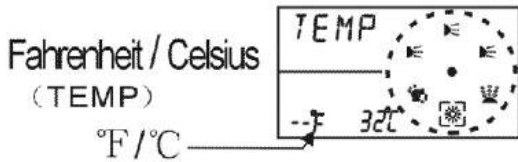
Enter Menu : Press  and Display will show : Menu , on the right corner shows “ OFF ”, press  or  to set “ ON “ , and press  , then Entering the setting Menu ; if you do not set the Menu in 10 minutes , then the Menu gets back the Original State . it can be also used the  button to finish the other following settings , the settings will ONLY work after your pressing  button.




Please see the drawing here :



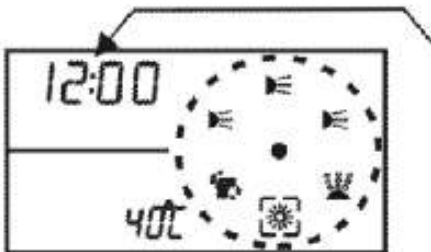
1) Fahrenheit / Celsius







Press +/- button to Choose the F or C Unit that you need .


On the left corner ,there is showed : F/C ; After your Choosing F or C ,then please press  to Confirm .


2) Set the Local Time on the Display :

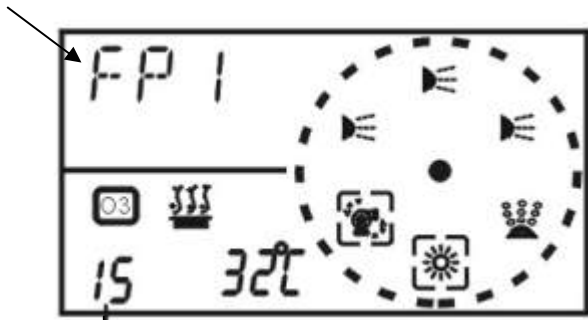


- a. Press  to Set the Minute / Hour
- b. Press  or  to set up the correct local time
- c. Press  to confirm .

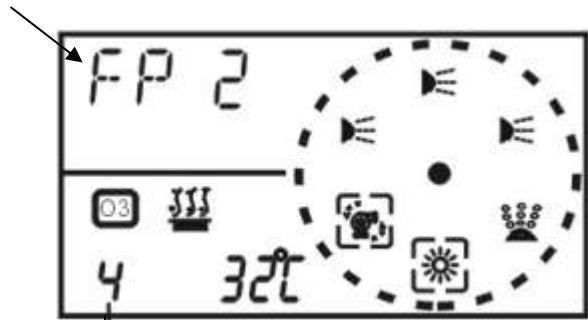
3) Filter Period : FP 1 / FP 2

Filter time (minutes) FP1 : Press +/- to set 15. 30. 60 .120 minutes for filtration , then please press  to confirm .

Stop working time (hours) FP2 : Press +/- to set the interval stopping time : 4.6.8.12.24 hours , please press  to confirm .



Filter time (working time)

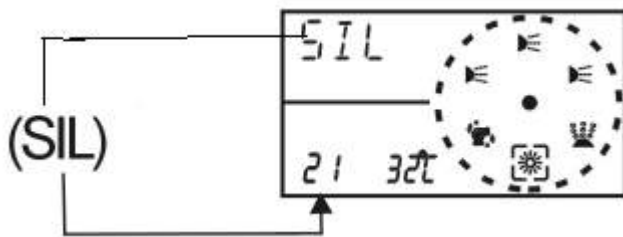




Interval Time (Stopping time)

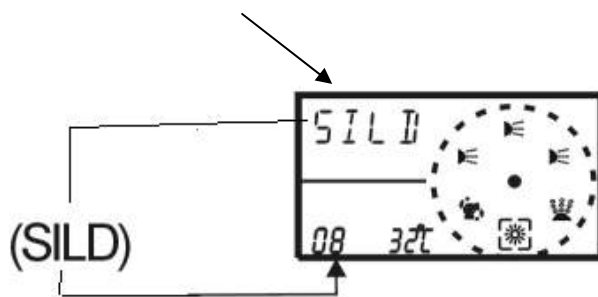
For example , if the FP1 setting is 15 , and FP2 setting is 4 ,then that means that : the Circulation Pump will work for 15 minutes , stop for 4 hours .

NOTE : If the filter water pump is activated, continuous water may flow into the filter, and the filter core may collect the pollutant in the bathtub. After a period, the pollutant may obstacle the water, then please clean or replace the filter if water flow becomes small or Weak .



4) Beginning time of Sleeping (SIL):



Press  or  to set 1 – 24 hours , that is : enter the sleeping state from the hour that you set .



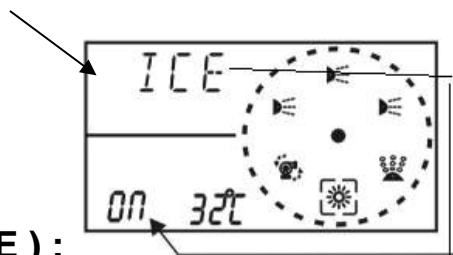
End Time of Sleeping (SILD) :

Press  or  to set 1 – 24 hours , that is : end sleeping at the hour that you set .




For Example : SIL Mode settings is : 21 ,and the SILD setting is 08 ,then that means that : the system will under the sleep mode from 21:00pm here , end the sleeping mode at 8:00am (sleeping : 21:00pm -8:00am)

When the System is under Sleeping Mode , the Filtration Function & Winter Mode are not available .

NO Sleeping Mode Setting : if the SIL number is the Same with SILD number ,then the System is NO Sleeping Mode . it will work according to your settings .






5) Winter Mode Set (ICE) :


Press  or  to set “ ON “ or “ OFF “ ,(if enter : OFF ,then that means : Quit) , press  to confirm .

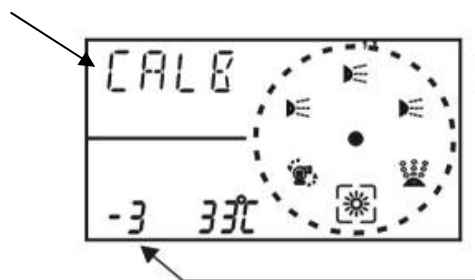
When enter the Winter Mode , the system will start the Water pump , Circulation pump ,Ozone two minutes per Hour .

6) Temperature Error (Margin Correct CALB)

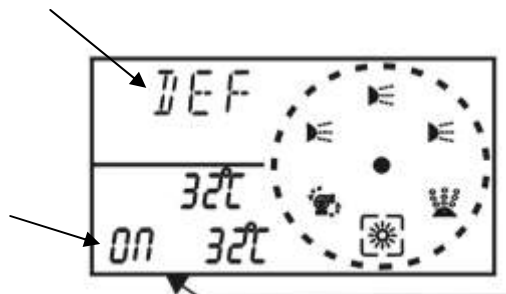
When the displaying temperature is different from actual Temperature that you check , then you can make it right in this way :




Press  or  to adjust the temperature , press  for to Confirm .(the range is -3 -- +3)

For example : the Actual temperature is 30 degree , but displaying 33 degree ,then you can press  to set -3 degree , see the photos here :



7) Resume the Original Settings (DEF) :



Under the Mode of DEF , Press  or  to choose “ ON “ ,then press  to resume original Date .

NOTE : the Original Settings are as following :

- a) The Unit of Temperature settings --- Fahrenheit (F)
- b) Tolerant temperature --- 100F (38 C)
- c) Winter Mode ---- OFF

- d) Filter working time (FP1) – 15 minutes
- e) Filter Distant time (FP2) – 4 hours
- f) Begin Sleeping Time (SIL) – 21:00
- g) End Sleeping time (SILD) --- 7:00
- h) Temperature correct (CALB) --- 0

8) QUIT menu Press  to quit .

NOTE : after entering the Menu ,if you do not press any keys for 10 minutes , then the system will quit the Menu automatically .

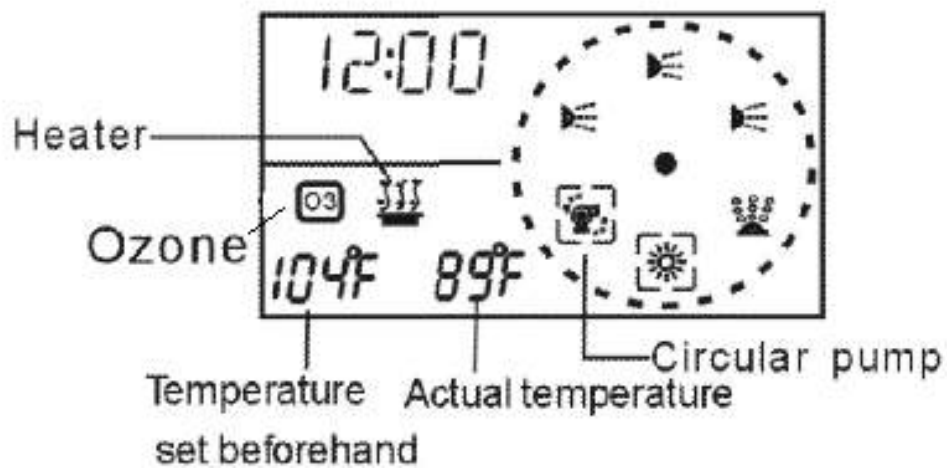
Six: Constant temperature Settings :



When you turn on the System , it will check the tub water temperature automatically , on the right corner , there is displaying the Actual Temperature .

When the Actual Temperature is Higher than the Set temperature (on the Left Corner), the Heater is under Constant temperature state (Keep the Water Temperature), which means that the Heater is not working ,then the Circulation pump & Ozone function enter into the Filtering Mode .

If you want to Cancel the Constant Temperature State , then your set temperature must be higher than the Actual Temperature . (Vice Versa)

See the Drawing here :



Temperature Settings : Press  button , after the display shows : **TEMP** , press  or  to adjust the temperature that you want .

Temperature Setting Range : Centigrade 10 C – 40C

Fahrenheit 50F – 104 F

Temperature Display Range : Centigrade : 5 C – 45 C

Fahrenheit 41F – 114 F

Features :

- If the water level in the tub meets the Demands , the system will check the temperature automatically .
- If the water temperature is lower than the setting temperature , the circulation pump & Ozone will Turn ON automatically ,but please NOTE That the Heater is turned on in 30 seconds .
- If the water temperature reaches your set temperature , the Heater will stop working ; and the Circulation pump & Ozone will stop too after 30 seconds .

Then System is under Constant Temperature State .

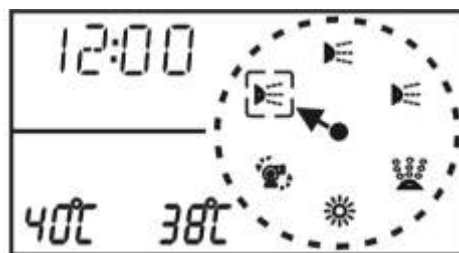
d) If the temperature is lower than 2F (2C) ,the Circulation pump & Ozone will be ON ,and the Heater starts to work in 30 seconds too .

NOTE : Before you turn on the Heater , the Circulation Pump must be ON & working !

Seven : Water pump , Air Blower (Fan Pump) ,Under water Lamp Functions

a) Press **SET** for 2-3 seconds , the Functions will start gradually, and press **SET** for a long time to turn off Gradually .

b) Press **SET** for short time , the Arrowhead will point to the Functions that you need , then Press **OK** to confirm , it can be turned off in the Same Way too .



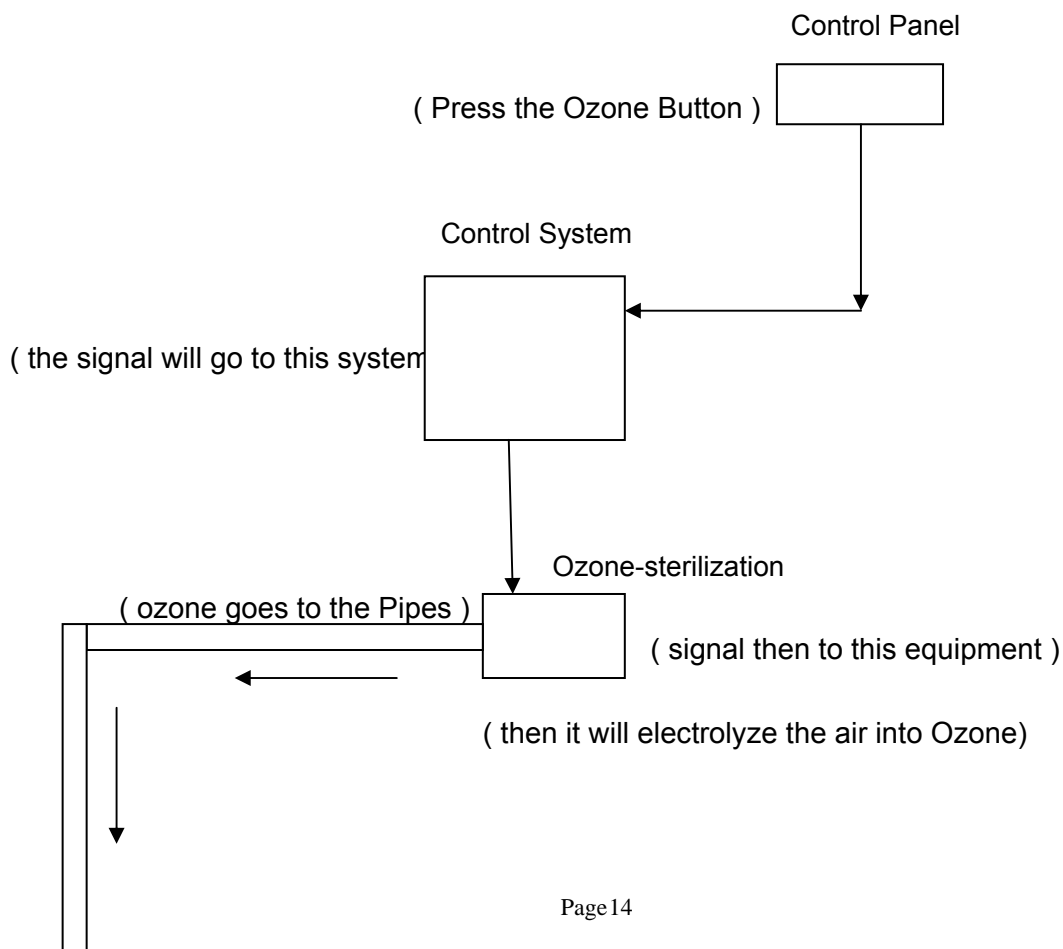
c) The System can control 1 water pump or 2 water pumps or 3 water pumps . and the Water pump stops working every 60 minutes automatically .

d) The Circulation Pump will be Working if the water pump is ON ; and after the water pump is OFF , the Circulation Pump will continue to work for 30 minutes. ,then Stop .

- e) If the Tub is lack of Water , the Water pump will not work , but the air blower is not limited to such water level , it can work too , and it will be OFF Automatically after working 30 minutes .
- f) The Under Water Lamp is ON when you turn on the Power , or you can use the (A) method to turn it on or off .

Eight: Ozone Sterilization Function :

A) The Ozone will be working when the Circulation pump is ON , and it will stop when the circulation pump is OFF too . (see the Drawing as following)







Pipe




OZONE PHOTO

Nine: Radio Function :

a) Take out the Radio Antenna & Place it in “Y” Position , Press the Radio Key  , the Display Screen will showed the Radio Frequency , the Volume DB will rise from “0” to “ 08DB ” with Slight Sound from the Loudspeakers .


b) Search : Press the Key  , after the Display Screen shows “ TUN “ , press  or  to search broadcasting station .


1) If you press the  or  quickly , this is called : Manual Search .

2) If you Press the Key  for 2-3 seconds , this is called : Automatically Search . the system will search the Broadcasting Station by itself .

3) It is recommended to select the Station by Manual if the Signal is



Weak .

c) Memory : After Selecting the Station , press the button  to Store it , the Display Screen will show : “ M—01 ”, which means that this Station is stored in NO. 1 Place . (the available range is : M—01 to M—10)



d) Choosing the Desired Station : Press the key  to select the Position of the Station that you have stored before ,which the Display Screen will show “ CH01

– CH e) . Simple Steps here :


Search & Memory :→ Press  , Displaying : TUN

→ press  or  to search broadcasting station .

→ Press  for Memory

f)Volume Adjustment ---- the Volume can be adjusted by Pressing  or  Key and the Display Screen will display corresponding volume DB number .


Ten. Extension CD or other equipments :

After connecting the Exterior Audio wire to the Control Box (which will be connected well by the Manufacturer) , Press  to enter into “ AUX ” State ,then you can listen to & enjoy the Audio .


Eleven. Lock the Keyboard .

Press  for 3 seconds , the Display Screen will show “ LOCK ” and





icon ,which means that the Keyboard is Locked ; and press the  for 3 seconds again , the Display Screen will show “ UNLOCK ”, which means that the Keyboard is not locked & ready for using .


Twelve. Protecting State and Warning .







Situation	Instruction	Display / Warning
Lack of water	Heater , water pump ,circulation pump will not work .	
Temperature is higher than 45 C / 114F	The Heater will not work	HEAT
Temperature is lower than 5 C / 41F	Suggest to set the System into Winter Code to protect	ICE
The Circulation pump is loaded unsuccessfully	Circulation pump is broken or the wires are connected not well	CLDF



Troubleshooting :

Faults	Reason	Solution
No power supply	<ol style="list-style-type: none"> 1. Fuse is Broken . 2. Creepage switch is activated. 	<p>Check the Fuses</p> <p>Check the Creepage Switch .</p>
Heater & pump are not working	<ol style="list-style-type: none"> 1. Fuse is broken 2. Creepage switch is activate 3. Water is not enough 4. Water Level Probe is loosen or broken . 	<p>Check the Fuses</p> <p>Check the Creepage Switch</p> <p>Check the Water Level and Water Level Probe ,if there is a Mark of water shortage ,then please put more water .</p> <p>Check the Water Level Probe , make it tight or replace the New One</p>
All equipments are burnt	The Power wires are connected wrong	Check the Power Wires , donot mistake the lines (three wires : L G N wires),they must be connected right .
Nozzle doesn't spray water	<ol style="list-style-type: none"> 1. The Nozzles is Closed . 2. The Water Diverter is Closed . 3. Some Dirts are inside 	<p>Check the Wires Connection</p> <p>Check the Nozzles ,please turn left or right of it , maybe it is Closed .</p>

	<p>the Nozzles .</p>	<p>Check the Water Diverter , please turn left or right of it ,and see whether it is closed .</p>  <p>Check the Nozzels : taking out the Nozzels and clean inside ,to see whether there is any dirts stuffed .</p>
<p>Underwater lamp doesn't light on</p>	<ol style="list-style-type: none"> 1. Fuse is broken 2. Wires are not connected well 3. Underwater lamp is broken . 	<p>Replace the Fuse</p> <p>Check the wires connection</p> <p>Replace the lamp.</p>
<p>Poor filtering effect</p>	<ol style="list-style-type: none"> 1. Filter Core is dirty 	<p>Clean the Filter</p> <p>Or Replace the Filter</p>
<p>Some LED light not working</p>	<p>Wires are not connected</p>	<p>check the Wires to see whether it is loosen or not .</p>

		
Heater is not working	<p>1. Circulation Pump is not ON</p> <p>2. Heater is Broken</p>	<p>Check the Circulation Pump , it must be ON working if you are heating</p> <p>Check the indicator light on the Heater to see whether it is Flashing or not</p> <p>If Flashing – then the Heater is OK ,then please check the other functions of your SPA .</p> <p>If not Flashing – then the Heater is broken .</p>
Bathtub is scratched		Grind with 2000# grinding paper with water, and then polish with toothpaste and soft fabric
Radio or Speakers are without sound	Wires are loosen or not connect well	Check the wires accordingly

		
<p>Water pump is leaked</p>	<p>The Inside Plastic Gasket is loosen , and not in the proper position</p> 	<p>Open the Water Pump , Check the Plastic Gasket ,and put it on the right / proper position</p> 
<p>Heater is leakage</p>	<p>The stopcock is loosen . The Plastic Gasket is not in the proper position</p> 	<p>Turn the stopcock tight . Uninstall the Heater , and check the Plastic Gasket on the Pipes ,place it at the Proper Position</p> 
<p>Nozzles are leakage</p>	<p>The Glue is not good</p>	<p>Uninstall the Nozzles ,then install the Nozzels with Good Quality Glue</p>
<p>Pipes Leakage</p>	<p>The Glue is not good Or the Glue is not enough</p>	<p>Using the AB Glue to make it</p>

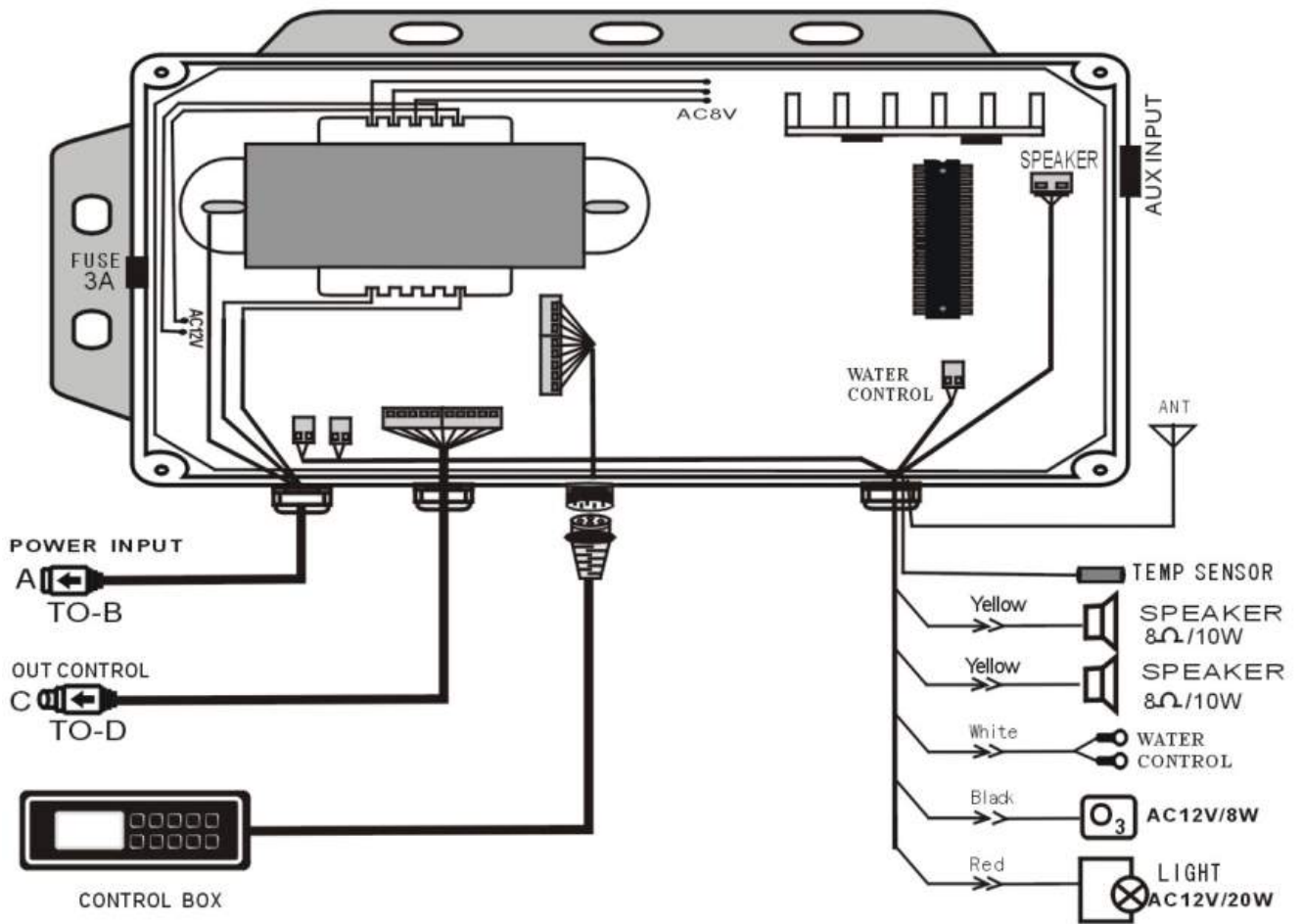
		
<p>if the panel is okay , heater okay , light okay , but the water pump can not work</p>	<p>Check the Water Pump Check the Control System .</p> 	<p>1. please remove the Water Pump wires from the Control Box , and check it with the Multimeter (the equipment to check the Voltage , Amp, resistance etc)</p> <p>A) if there is Voltage displayed in this Multimeter — then the pump is broken .</p> <p>B) if there is no Voltage displayed in this Multimeter — then the Control box is with problem ,the pump is okay .</p>
<p>For the Problems ,please check with the Manufacturer ,and donot uninstall the System without any NOTICE , or ask the Technician to check ,thank you .</p>		

Thirteen. Anti-icing Function .

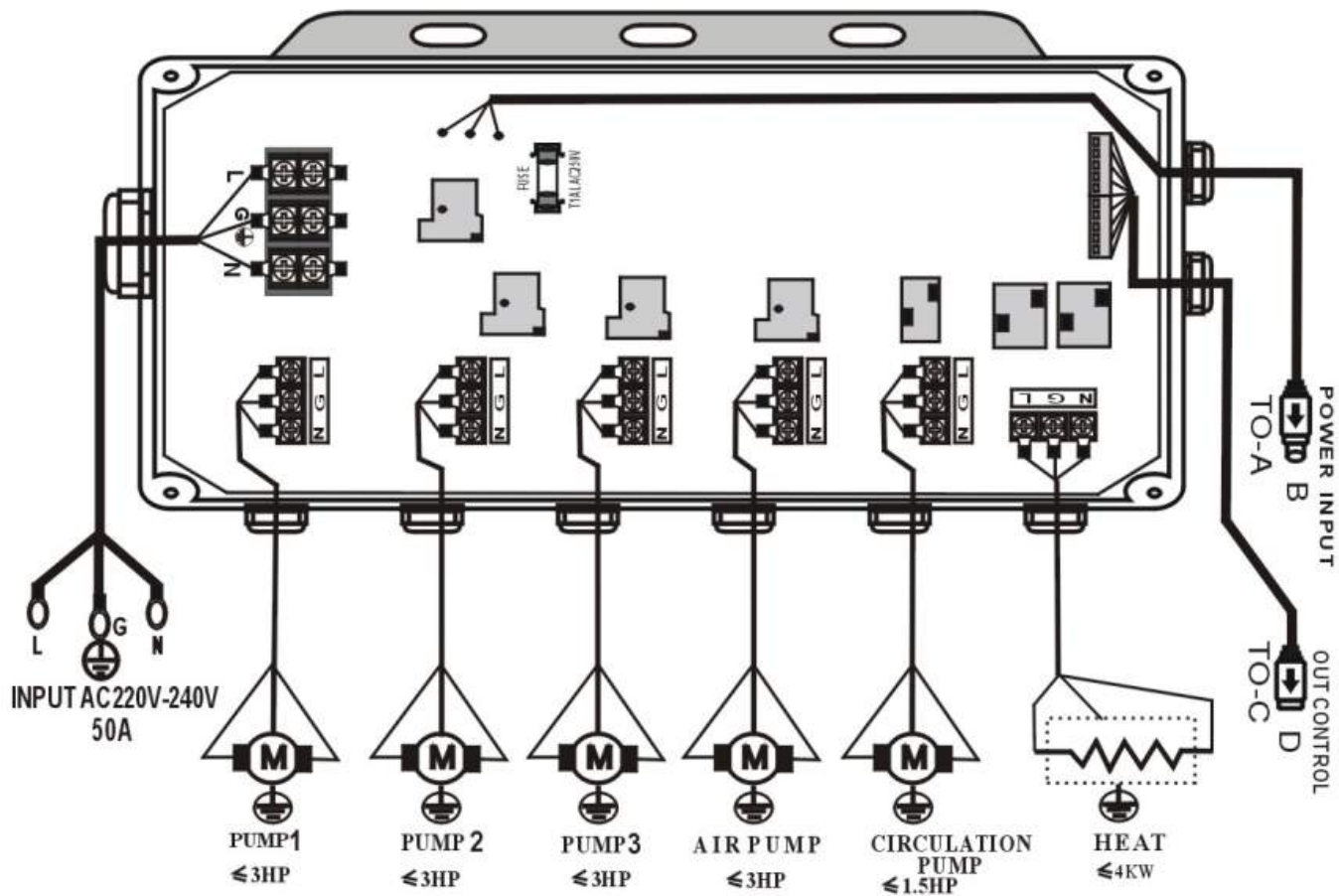
When the temperature is lower than 5 C , it will turn on the Circulation Pump and Heater , and when the Temperature raises to 8 C , it will stop working , this

Function is always Effective .

Fourteen . Sketch Map of System :



Drawing 1



Drawing 2

Fifteen. Luxury Equipments :

1. With TV function



Drawing 2 TV Remote Controller (waterproof)

1) Feature : Completely Waterproof .

2) Easier to Control (the operation please see the Keys on the panel)



Drawing 2 TV Control Panel (waterproof)

3)for the TV , it is UP & DOWN by Electricity Power , see the photo here : (17 Inch Waterproof TV)



Front View



Back View








TV Cover (Stainless steel cover)



Digital Button to control the TV Up & Down

2. With DVD Functions :

1. The way of connecting the DVD ,which is already connected by the Manufacturer .

 <p>1..Power line from electronic box</p>	 <p>2. connector of DVD</p>	 <p>3. connect the power line from electronic box to the DVD</p>
 <p>4. signal wire from the electronic box</p>	 <p>5. connect the white wire to the DVD</p>	

2. Volume adjustment: under video output state, connect the DVD audio wire with CD access, switch the function to CD state on control panel, click“VOL+” or “VOL-” to adjust volume.



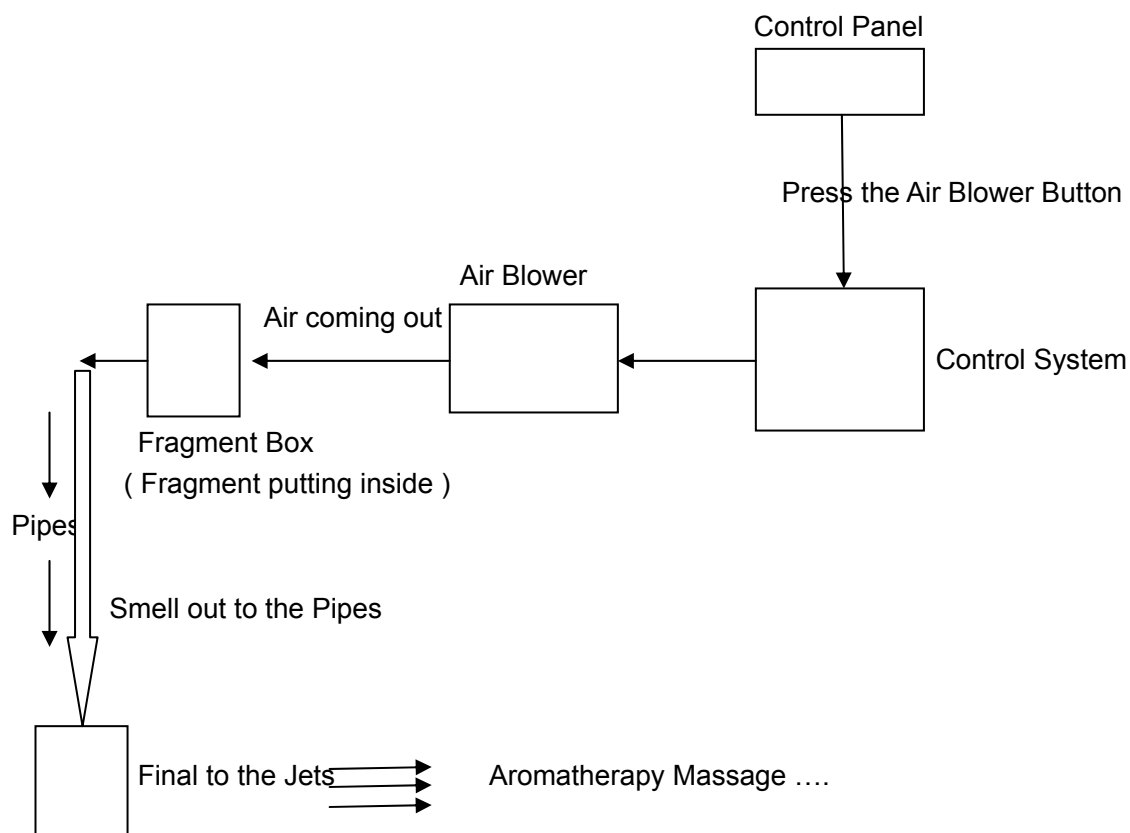
DVD Photo on the Skirt

3.Aromatherapy Function :












If want to enjoy the Aromatherapy Massage , you can choose this Fragment Box for your SPA ,which you can put Some Fragment inside .

For the Drawing , please see as following :



Aromatherapy Massage Drawing

4. Other Luxury Options that you can choose :

		
<p align="center">Simple Cover</p> <p>To keep the Water Warm & Shorten the Heating Time & avoid the leafs etc .</p>	<p align="center">Cover Lifter</p>	<p align="center">Simple Cover Lifter</p>
		
<p>2" Insulation Board on the Skirt</p> <p>Keep Warm inside & Shorten the Heating Time</p>	<p>Insulation (5CM thick)</p> <p>Protect the Tub & Shorten the Heating time</p>	<p>Plastic Waterfall</p> <p>(with LED inside or without LED inside)</p>
		
<p>Fountain Jets</p>	<p>Big LED Jets (more Luxury)</p>	<p>Stainless Steel Waterfall</p>

		
<p>Little LED light</p>	<p>FRP Bottom Base</p> <p>Shorten the Heating Time & Preventing insets going inside the tub & avoid the Moisture from the Floor</p>	<p>Pop UP Speakers</p> <p>Enjoy the Audio</p>
 <p style="text-align: center;">Stainless steel Jets</p>		
<p>Stainless Steel Jets</p> <p>More long-lasing & more elegant .</p>	<p>Wooden Steps</p>	<p>Balboa System from USA</p> <p>More Stable & much easier to control .</p>

Sixteen. Maintance :

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. Please do not clean the bathtub with rough tools, chemical solvent or grain detergent.
6. Please do not knock or scratch the bathtub with knife or other objects. Be careful to avoid the bathtub with burning cigarette or heat source exceeding 60⁰C.
7. Clean the water force massage system: pour into 40⁰C 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 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.
8. Check the leakage protection (Creepage Switch) performance for the leakage switch once every 2 months.
9. Periodically check if the power core, switches or connectors are damaged by mouse, insects or ants.
10. Periodically check the water supply and water drainage pipes, check if it drains out water smoothly.
11. Please do not upset or stack the products, please do not store it together with formate or formaldehyde.
12. Be careful when moving the product; prevent heavy pressure, mechanical

knock or intensive vibration.

13. 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.

Seventeen . Instructions on Repairing:

1. Replace the massage water pump: cut off power supply, open the bathtub maintenance door , 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 Door of the bathtub.
2. Replace the Circulation pump: cut off power supply, open the Maintenance Door , turn off the valves on both ends of pump, remove the wires and open the pump, loosen the fixed bolts and take out the 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 Door of the bathtub.
3. Replace the Heater : cut off power supply, open the bathtub Maintenance Door, turn off the valves on both ends of Heater, remove the wires, loosen the fixed bolts and take out the Heater, 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 Door of the bathtub.
4. Replace the filter core: cut off power supply, take out the filter Core from the

Skimmer ,remove dirt on bottom of the filter Sieve or clean the Filter Core .

5. Clean the filter core:

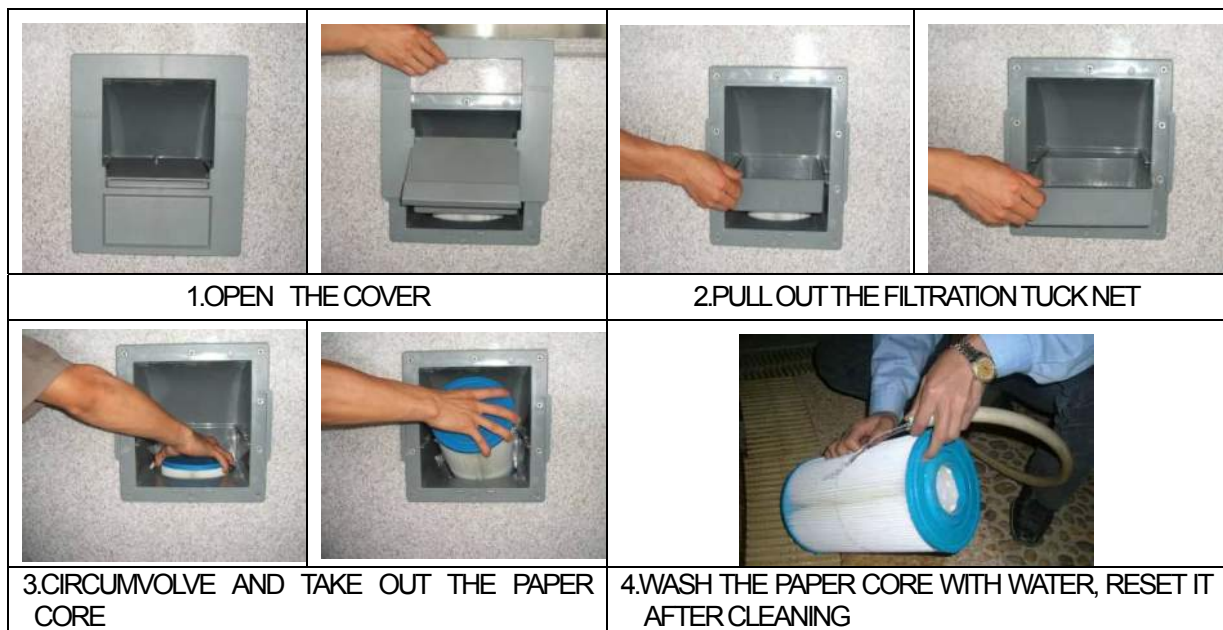
▲ . Filter core can be directly rinsed with pressure water, or blow off the dirt after dry it.

If it can't remove dirt with above two methods, please dip the filter core into HCl solution. Mix 20% HCl with water at the proportion of 1: 1, pour the solution into a plastic barrel, dip the filter core into the solution. Note: solution is corrosive, please be careful and prevent solution sprinkling onto skin or eyes.

It is a perfect selection to prepare 1 spare filter core for assuring the filter work effectively.

▲ . The way of filter's washing as following:

1) for skimmer filter



Eighteen. NOTICE :

- a) This System must be installed by the Qualified Technician , the Creepage Switch is better to install at the convenient Place .
- b) This System must be installed the Ground Line , which is one of the lines from the system itself .
- c) if not use ,please unplug Power Lines for safety .
- d) before using , please calculate the Circuit Requirement .
- e) do not connect the other equipments by yourself , it is not allowed to uninstall or change the wires inside .
- f) before press the POWER button , please check the wires strictly .
- g) Warning: water temperature shall not exceed 40°C for preventing scald, 30°C-40°C is the safe temperature range for 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°C for pregnant woman.
- h) Please do not immediately use SPA after intensive exercise.
- i) Please stop using and see a doctor if you feel uncomfortable during or after using SPA.
- j) 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 prevent intensive sunlight.
- k) Please clean the paper core of the filter once a week if the SPA is used frequently.

- l) Heat preserving cover composes of foam plate, please do not let kids play on it.
- m) It is better that water level is 1cm higher than the probe.
- n) 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.
- o) Please cut off power supply before any maintenance.
- p) After maintaining, please test it according to normal operation procedure.
- q) All maintenances and repairing must be undertaken by qualified and professional technician, please contact the distributor for more service or authorized technician.