# Owner's Manual

OSLO F-OS063W

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QUESTIONS? PROBLEMS?MISSING PARTS? For FAQ, Manuals, Videos or Spare Parts, please visit www.the-mspa.com/support

Due to MSpa's continuous product improvement process, MSpa reserves the right to change the specifications and appearance of its products, which may result in updates to the instruction manual without prior notice.

MSpa Official Site

MSpa Setup Videos

MSpa Service Center List

MSpa Owners Manual (Multi-language)

## CONTENT


Safety precautions..... 3

Specifications..... 7

Accessories..... 7

First use and set-up preparation..... 8

Spa set-up..... 9

Control operation..... 11

Led light strip operation..... 13

Water maintenance and chemicals..... 14

Drainage, cleaning and storage..... 15

Precautions for winter use..... 17

Disposal and environmental protection..... 17

Troubleshooting..... 18

MSPA limited warranty..... 19


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# IMPORTANT SAFETY INSTRUCTIONS

For your own safety and that of your product, make sure to follow the safety precautions below. Fail to follow the instruction may result in serious injury, property damage or death. Improper installation or operation will void the warranty.

# READ AND FOLLOW ALL INSTRUCTIONS

## ⚠ DANGER

**DANGER:** **Risk of accidental drowning.** Extreme caution must be exercised to prevent unauthorized access by children. To avoid accidents, ensure that children can not use this spa unless they are supervised at all times.

**DANGER:** **Risk of injury.**

**a) Replace damaged cord immediately.**

**b) Do not bury cord.**

**c) Connect to a grounded, grounding type receptacle only.**

**DANGER:** **Risk of Injury.** The suction fittings in this spa are sized to match the specific water flow created by the pump. Should the need arise to replace the suction fittings or the pump, be sure that the flow rates are compatible. Never operate spa if the suction fittings are broken or missing. Never replace a suction fitting with one rated less than the flow rate marked on the original suction fitting.

**DANGER:** **Risk of Electric Shock. Install at least 5 feet (1.5 m) from all metal surfaces. As an alternative, a spa may be installed within 5 feet of metal surfaces if each metal surface is permanently connected by a minimum 6 AWG solid copper conductor to the wire connector on the terminal box that is provided for this purpose.**

**DANGER:** **Risk of Electric Shock. Do not permit any high voltage electric appliance, such as a light, telephone, radio, or television, within 5 feet (1.5 m) of a spa.**

## ⚠ WARNING

**WARNING:** **The spa only for use in single-family dwellings.**

**WARNING:** **Risk of electric shock.** Insert the plug only to a properly grounded socket.

**WARNING:** The spa must be supplied by an isolating transformer or supplied through a ground-fault circuit interrupter (GFCI) having a rated residual operating current not exceeding 30mA.

**WARNING:** GFCI must be tested before each use.

**WARNING:** If the supply cord is damaged, it must be replaced immediately by the manufacturer, its service agent or similarly qualified person in order to avoid a hazard.

**WARNING:** To reduce the risk of electric shock, do not use extension cord to connect unit to electric supply; provide a properly located receptacle.

**WARNING:** No part of the appliance is to be located above the bath during use.

**WARNING:** Parts containing live parts, except parts supplied with safety extra-low voltage not exceeding 12V, must be inaccessible to a person in spa pool; Earthed appliance must be connected to the fixed receptacle which is permanently connected to fixed wiring. Parts incorporating electrical components, except remote control devices, must be located or fixed so that they cannot fall into the spa pool.

**WARNING:** The plug of spa shall be more than 3.5m away from the pool.

**WARNING:** Spray head must not be used.

**WARNING:** The outlet of Spa must not be connected to any tap or fitting other than those specified.

**WARNING:** Electric installations should fulfill the requirements of local standards.

**WARNING:** **To avoid the electric shock, do not use the spa when it is raining.**

**WARNING:** To reduce the risk of injury, do not permit children to use this product unless they are closely supervised at all times.

**WARNING:** Water attracts children. Always have the Spa locked with its cover after each use.

**WARNING:** Do not bury cord. Locate cord to minimize abuse from lawn mowers, hedge trimmers, and other equipment.

**WARNING:** Pets should be kept away from spa to avoid damage.

**WARNING:** When the bubble function is going to be in function, make sure the cover of Spa must be opened first.

**WARNING:** Do not switch on if there is any possibility that the water in the spa is frozen.

**WARNING:** Use only approved accessories. Use of non-approved accessories could void the warranty.

**WARNING:** **RISK OF ELECTRIC SHOCK.** A wire connector is provided on this unit to connect a minimum 6 AWG solid copper conductor between this unit and any metal equipment, metal enclosures of electrical equipment, metal water pipe, or conduit within 5 feet (1.5 m) of the unit.

**WARNING:** **RISK OF ELECTRIC SHOCK.** Never operate any electrical appliance when in your spa or when your body is wet. Never place any electric appliance, such as a light, telephone, radio, or television, within 1.5m of spa. During pregnancy, soaking in hot water may cause damage to the fetus. Limit use to 10 minutes at a time.

**WARNING:** Do not expose spa under direct sunshine.

**WARNING:** **This product is provided with a ground-fault circuit-interrupter in the plug. The GFCI must be tested before each use. With the product operating, open the service door. When the product stops operating, this merely indicates that the door is equipped with an electrical interlock. Next, push the test button on the GFCI and close the service door. The product should not operate. Now open the service door, push the reset button on the GFCI and close the service door. The product should now operate normally. When the product fails to operate in this manner, there is a ground current flowing indicating the possibility of an electric shock. Disconnect the power until the fault has been identified and corrected.**

**TO REDUCE THE RISK OF INJURY:**

A. The water in a spa should never exceed 104°F (40°C). Water temperature between 100°F (38°C) and 104°F (40°C) are considered safe for a healthy adult. Lower water temperature is recommended for young children and when spa use exceeds 10 minutes.

B. Since excessive water temperatures have a high potential for causing fetal damage during the early months of pregnancy, pregnant or possibly pregnant women should limit spa water temperature to 100°F (38°C).

C. Before entering a spa, the user should measure the water temperature with an accurate thermometer since the tolerance of water temperature regulating devices varies.

D. The use of alcohol, drugs, or medication before or during spa use may lead to unconsciousness with the possibility of drowning.

E. Obese person and person with a history of heart disease, low or high blood pressure, circulatory system problems, or diabetes should consult a physician before use a spa.

F. Person using medication should consult a physician before using a spa since some medication may induce drowsiness while other medication may affect heart rate, blood pressure, and circulation.

**A green coloured terminal or a terminal marked G, GR, Ground, Grounding, or the ⏚ symbol* is located inside the electric box. To reduce the risk of electric shock, this terminal must be connected to the grounding means provided in the electric supply service panel with a continuous copper wire equivalent in size to the circuit conductors supplying this equipment.**

*** IEC Publication 417, Symbol 5019.**

**At least two lugs marked "BONDING LUGS" are provided on the external surface or on inside the electric box. To reduce the risk of electric shock, connect the local common bonding grid in the area of the hot tub or spa to these terminals with an insulated or bare copper conductor not smaller than No. 6 AWG.**

**All field—installed metal components such as rails, ladders, drains or other similar hardware within 3 m of the spa or hot tub shall be bonded to the equipment grounding bus with copper conductors not smaller than No. 6 AWG.**

## SAVE THIS INSTRUCTIONS

**WARNING: CHILDREN SHOULD NOT USE SPAS OR HOT TUBS WITHOUT ADULT SUPERVISION.**

**WARNING: DO NOT USE SPAS OR HOT TUBS UNLESS ALL SUCTION GUARDS ARE INSTALLED TO PREVENT BODY AND HAIR ENTRAPMENT.**

**WARNING: PEOPLE USING MEDICATIONS AND/OR HAVING AN ADVERSE MEDICAL HISTORY SHOULD CONSULT A PHYSICIAN BEFORE USING A SPA OR HOT TUB.**

**WARNING: PEOPLE WITH INFECTIOUS DISEASES SHOULD NOT USE A SPA OR HOT TUB.**

**WARNING: TO AVOID INJURY EXERCISE CARE WHEN ENTERING OR EXITING THE SPA OR HOT TUB.**

**WARNING: DO NOT USE DRUGS OR ALCOHOL BEFORE OR DURING THE USE OF A SPA OR HOT TUB TO AVOID UNCONSCIOUSNESS AND POSSIBLE DROWNING.**

**WARNING: PREGNANT OR POSSIBLY PREGNANT WOMEN SHOULD CONSULT A PHYSICIAN BEFORE USING A SPA OR HOT TUB.**

**WARNING: WATER TEMPERATURE IN EXCESS OF 100°F(38°C) MAY BE INJURIOUS TO YOUR HEALTH.**

**WARNING: BEFORE ENTERING THE SPA OR HOT TUB MEASURE THE WATER TEMPERATURE WITH AN ACCURATE THERMOMETER.**

**WARNING: DO NOT USE A SPA OR HOT TUB IMMEDIATELY FOLLOWING STRENUOUS EXERCISE.**

**WARNING: PROLONGED IMMERSION IN A SPA OR HOT TUB MAY BE INJURIOUS TO YOUR HEALTH.**

**WARNING: DO NOT PERMIT ELECTRIC APPLIANCES (SUCH AS A LIGHT, TELEPHONE, RADIO, OR TELEVISION) WITHIN 1.5 M OF THIS SPA OR HOT TUB.**

**CAUTION: MAINTAIN WATER CHEMISTRY IN ACCORDANCE WITH FACTURER' S INSTRUCTION.**

**Hyperthermia occurs when the internal temperature of the body reaches a level several degrees above the normal body temperature of 98.6°F (37°C).**
**The symptoms of hyperthermia include drowsiness, lethargy, and an increase in the internal temperature of the body. The effects of hyperthermia include**
**(a) unawareness of impending hazard;**
**(b) failure to perceive heat;**
**(c) failure to recognize the need to exit spa;**
**(d) physical inability to exit spa;**
**(e) fetal damage in pregnant women;**

**(f) unconsciousness and danger of drowning.**

**WARNING: THE USE OF ALCOHOL OR DRUGS CAN GREATLY INCREASE THE RISK OF FATAL HYPERTHERMIA IN HOT TUBS AND SPAS**

**WARNING: TO REDUCE THE RISK OF INJURY:** Never pour water which higher than 104°F (40°C) into the spa pool directly.

**WARNING:** The use of alcohol, drugs, or medication can greatly increase the risk of fatal hyperthermia.

Hyperthermia occurs when the internal temperature of the body reaches a level several degrees above the normal body temperature of 98.6°F (37°C). The symptoms of hyperthermia include an increase in the internal temperature of the body, dizziness, lethargy, drowsi-ness, and fainting, The effects of hyperthermia include failure to perceive heat; failure to recognize the need to exit spa; unawareness of impending hazard; fetal damage in pregnant women; physical inability to exit the spa; and unconsciousness resulting in the danger of drowning.

**WARNING: Warning Label Instruction**

Please carefully read the warning label at the first time you are going to use MSpa.
Please post this warning label on where is at a distance to MSpa within 1.5m/5', people in spa can see it clearly.
Please retain this information for future reference.
If the warning label is damaged or missing, please contact your country MSpa service center to get a new one.

## ⚠ CAUTION

**CONSULT YOUR PHYSICIAN FOR RECOMMENDATIONS.**

**CAUTION:** The spa should not be setup or left out in temperature lower than 39°F (4°C).

**CAUTION:** Do not use the spa alone.

**CAUTION:** People with infectious diseases should not use a spa.

**CAUTION:** Do not use the spa immediately following strenuous exercise.

**CAUTION:** Always enter and exit the spa slowly and cautiously. Wet surfaces are slippery.

**CAUTION:** To avoid damage to the pump, the spa must never be operated unless the spa is filled with water.

**CAUTION:** Immediately leave spa if uncomfortable or sleepy.

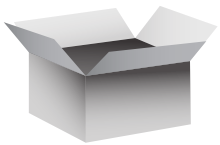
**CAUTION:** Never add water to chemicals. Always add chemicals to water to avoid strong fumes or violent reactions that may result in hazardous chemical spray.

**CAUTION:** Place only on surface that can withstand the floor loading requirement of your Spa.

**NOTE:** Please examine equipment before use. Notify after service center listed on this manual for any damaged or missing parts at the time of purchase. Verify that the equipment components represent the models that you had intended to purchase.

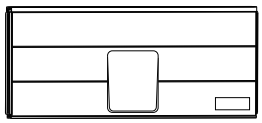
# SPECIFICATIONS

| Model No./ Name | Shape | Seating Capacity | Water Capacity | Outside Dimensions | Inside Dimensions | Height | Weight | Temp Increasing Rate |
|---|---|---|---|---|---|---|---|---|
| F-OS063W OSLO | Square | 6 | 304Gal. (1150L) | 70.9” x 70.9” (1.8 m x 1.8 m) | 63” x 63” (1.6 m x 1.6 m) | 26” (0.65m) | 277 lbs (125.7 kg) | 1.5-2.2 °F/h |
| **Control System & Rating Power** | **Jet pump** | **Heater** | **Massage Air Blower** | **Filter Pump** | **Integrated Ozone Generator** | **UVC Radiant flux** | **Top Lid** | **Shell Material** |
| AC 110-120V/ 60Hz, 12A | 1100W | 1350W | Level 1: 300W<br>Level 2: 450W<br>Level 3: 700W | 1800L/hr | 5.5W, 30-50mg/hr | 2000uW | Rhino-Tech™ reinforced PVC | Plastic wood |
| **Item** | **Model** | | **Length (m)** | **LED Chips (pcs)** | | **Lighting Mode** | | |
| LED - 6DC12R - OS | LED strip for 6-person square spa | | 6 | 180 | | 21 Dynamic Modes, 20 Static Colors | | |

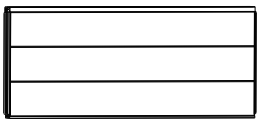


## PARTS CHECKS

Please examine equipment before use.
Notify customer service of any damaged or missing parts at the time of purchase.

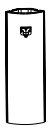


Open-end panel *1



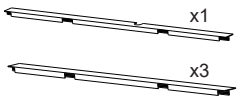
Plastic wood panel *3
One with MSpa Logo

Spa liner with LED light strip



Corner beam *4

Top trim *4



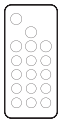

Bottom seal *4

Buckle spa cover

Foldable foam mat

Inflatable bladder

Jet Control Box



remote controller for light strip

Top trim joint *4

Soft corner cushion *4

Side panel joint *4

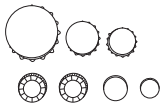
Headrest *4

User manual

Repair kit

Filter cartridge *2
Filter cartridge base*1

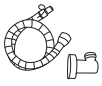
Garden hose adaptor



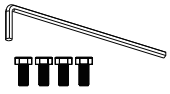
Water / air channel stoppers

Wrench

Chemical dispenser for 1" tablets



Inflation hose and adaptor for bladder



screw*4+
L-shape wrench

Warning label

**NOTE:**
The drawings are for reference only. Actual products may vary. Not to scale.

# FIRST USE AND SETUP PREPARATION

**Site preparation and requirements**

- The spa can be installed indoors or outdoors in around 15 minutes by 2 persons. For household use only.
- The spa must be set up on a flat, smooth, and supporting surface that can bear the maximum load of the filled spa with the listed maximum number of occupants. Check with a qualified contractor or structural engineer to verify the requirement.
- Make sure that the area is free of sharp objects under or around the spa. The uneven or unsound surface can damage the spa and void your warranty. Level the surface before filling the spa with water.
- Provide an adequate drainage system around the spa to deal with overflow water and splashes.
- Provide convenient, local water use regulations for refill methods and adjust parameters as required by the water treatment department. Make sure there is enough space around the spa to allow full use of the equipment for maintenance and/or service.
- Consider locating the spa with as little noise disturbance as possible.

**Additional requirements for indoor installation**

- Humidity is a natural side effect of indoor spa installation. The room must be properly ventilated to allow moisture to escape. Install a ventilating system to prevent excess condensation and moisture in the room.
- Ensure that the spa can be removed from the building without destroying any part of the built structure.
- Consider any local regulations on these topics.
- Consider not installing the spa on carpet or other floor materials that promote or harbor moisture and bacteria, or that could be affected by water treatment chemicals used in the spa.

**Additional requirements for outdoor installation**

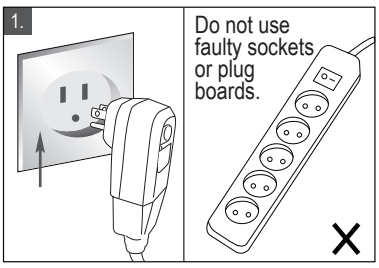
- Do not place the hot tub on grass or dirt as this will increase the amount of debris entering the hot tub and can damage the floor. To ensure a longer life, do not expose the hot tub to direct sunlight.
- Do not install or use the spa outdoors at a temperature lower than 39°F (4°C).
- Do not use the spa when the water inside the circulation system, pump, or pipework is frozen. Put a heat preservation mat between the base of the spa and the ground to prevent heat loss from the bottom of the spa and to provide better heat retention.
- Consider local environmental conditions, such as groundwater and the risk of frost.

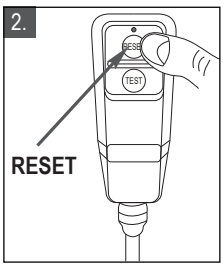
## GFCI Testing

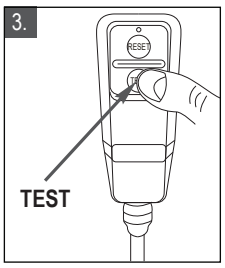
**⚠ WARNING**

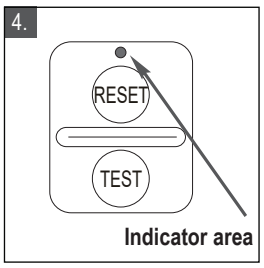
Risk of electric shock: This product is provided with a GFCI located at the end of the power cord. The GFCI must be tested before each use. Do not use the spa if the GFCI does not function properly.
Disconnect the power cord until the fault has been identified and corrected. Contact a licensed electrician to correct the fault. There are no serviceable parts inside the GFCI. Opening the GFCI will void the warranty.

1. Plug the machine into the mains.
2. The GFCI plug might automatically reseted. If the RESET indicator is not red, press the RESET button.
3. Press the TEST button on the GFCI. The GFCI indicator should shut off. If the GFCI indicator does not turn off, the GFCI is faulty. Do not use the spa. Contact a qualified electrician to correct the fault.
4. Press the RESET button on the GFCI again. The indicator should turn red. If yes, the spa is ready for use.



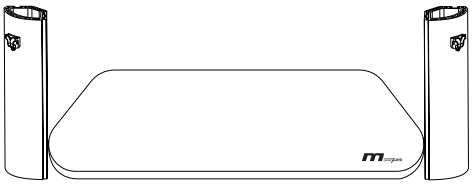



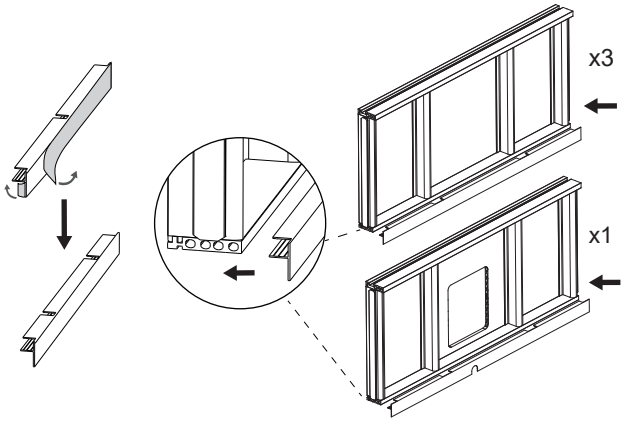

## Spa Control Unit Connected External Equipotential Bonding Conductors

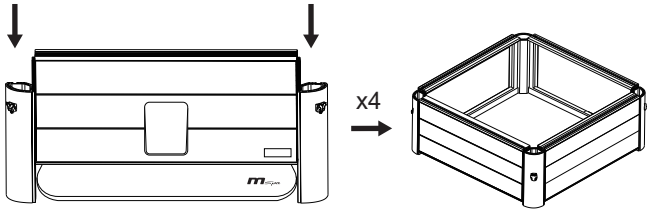
A qualified electrician should wire the spa control unit to the household equipotential terminal using a minimum 1.5mm² solid copper conductor

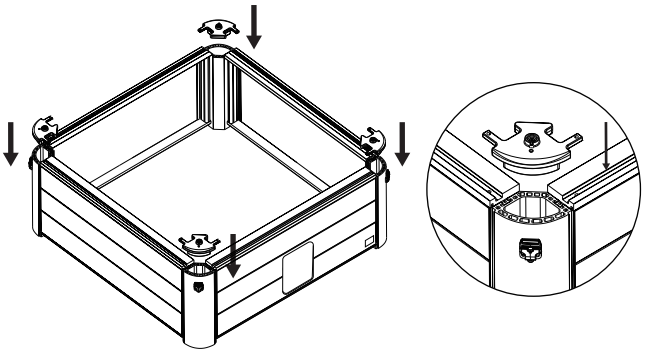
**NOTE:** Move the entire package to the selected site. Do not drag the spa tub across the ground as this can cause damage and leakage. Open the carton carefully as this can be used to store the spa over long periods or when not in use.

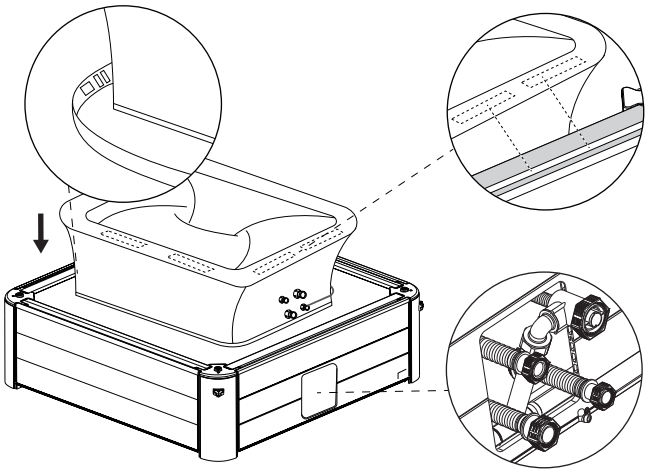
# SPA SETUP

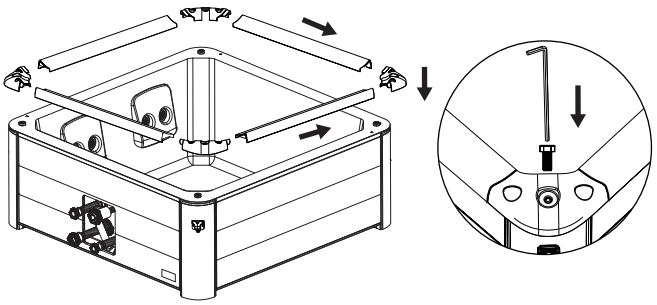


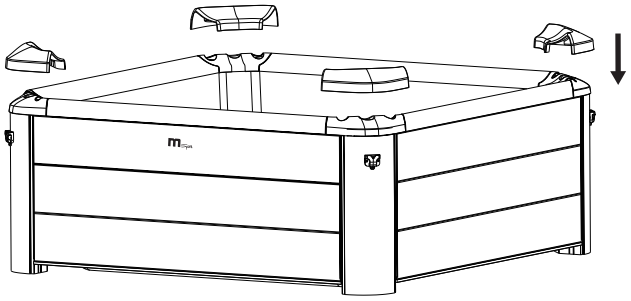


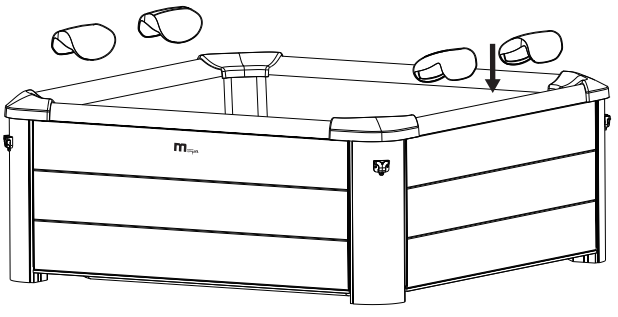



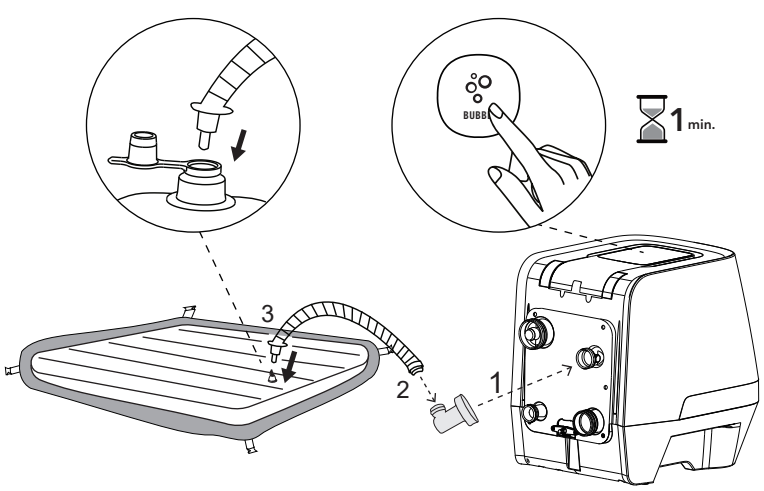



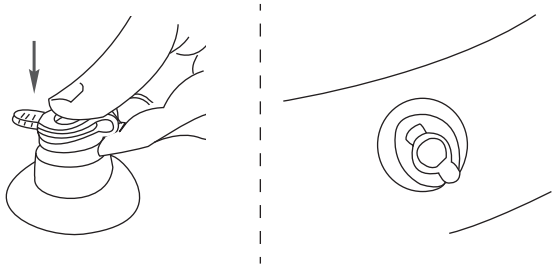




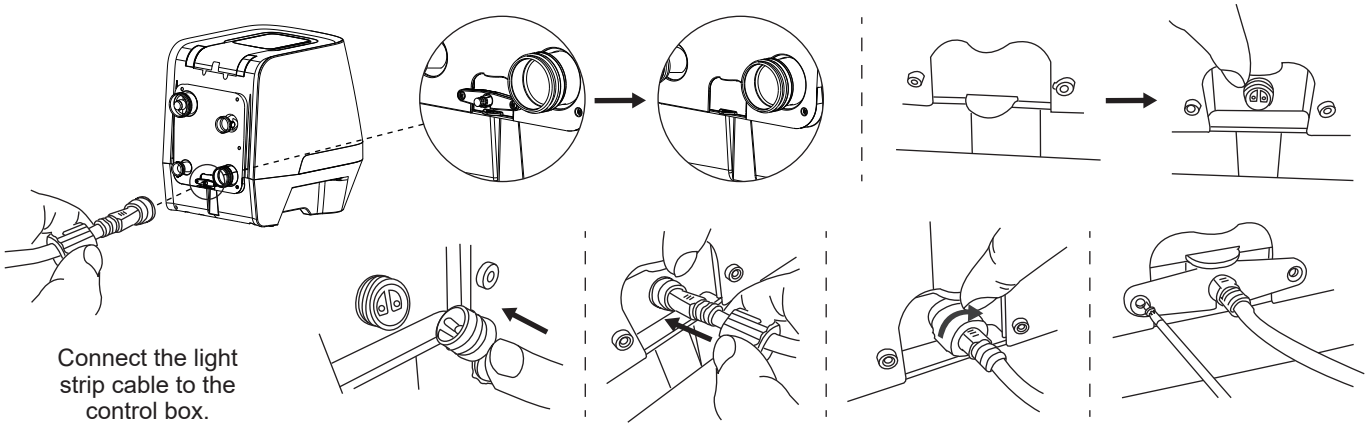




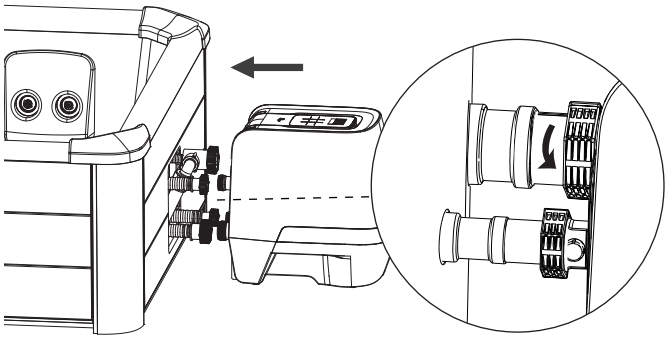


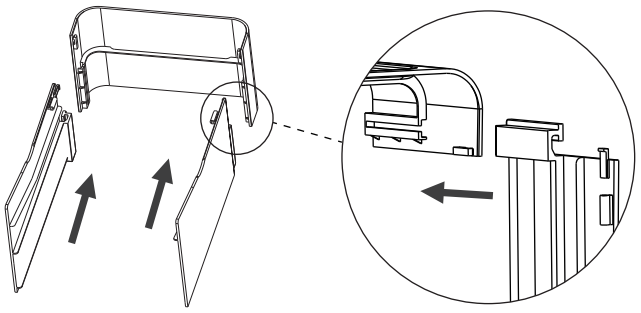



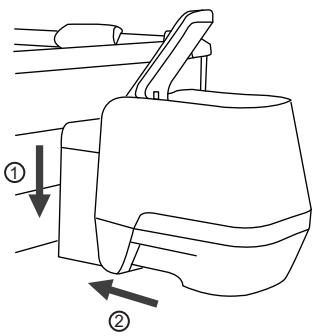
Long press the BUBBLE button for more than 3 seconds to stop inflation.

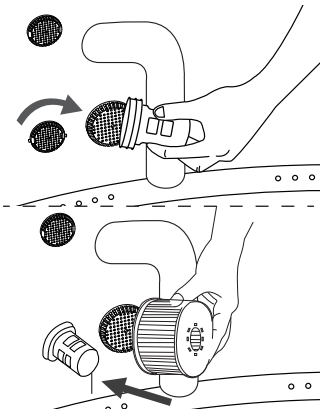


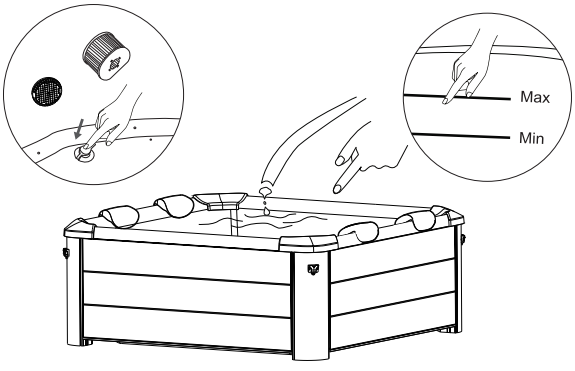
Connect the light strip cable to the control box.









# CONTROLLER OPERATION

**LED display**

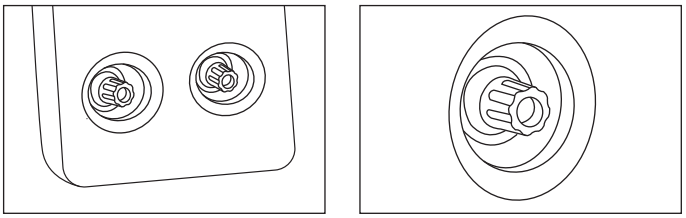
Once powered-up, press the RESET on the GFCI. The LED displays the current water temperature automatically.
**NOTE:** The actual water temperature may vary from the temperature displayed on the LED screen by as much as approximately 33.8°F (1°C).
**Energy saving mode:** Your spa will enter energy saving mode after 30 minutes of inactivity. In this mode, the screen brightness will be reduced and unintentional touches to the button will not work. Tap any button (except UP/DOWN button) to exit energy saving mode.

**JET Button**

Press the **JET** button to turn the water jet massage function on and off. The JET button lights up when activated.
**NOTE:** The BUBBLE button can only be adjusted to L1 when the JET system is activated. Both HEATER and FILTER will not work when JET system is activated.
**NOTE:** The JET system will shut off automatically after one hour.
**NOTE:** The JET function cannot be activated when the water or ambient temperature is below 33.8°F / 1°C.
**NOTE:** The JET function cannot be activated when the Low temperature protection is on .
The Low temperature protection will be automatically released when water temperature is above 68°F / 20°C.
The Low temperature protection can be manually released by long pressing the **JET** button.

## Jet Operation

Adjust the jet nozzle to change the water stream directions.
Screw the jet nozzle to change the water stream strength.



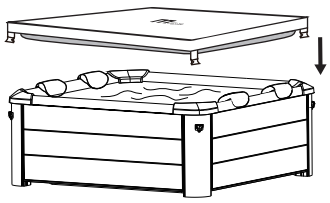
68-104°F
20-40°C

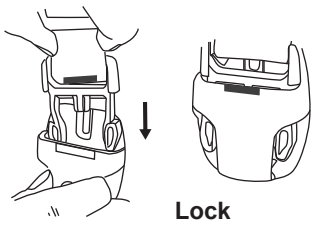
**HEATING**

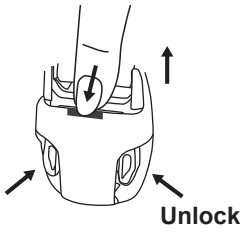
1. Press the **HEATER** button to turn the heating system on/off. Both HEATER and FILTER button light up when heating function is activated.
2. Pressing the **UP** or **DOWN** button will cause the LED Display to flash. When it is flashing you can adjust the water to the desired temperature setting [ 68°F to 104°F(from 20°C to 40°C ) ]. The new and desired temperature setting will remain on the LED display for 3 seconds to confirm the new value.

**NOTE:** The default temperature is 104°F / 40°C.
**NOTE:** If the heating system is turned on, the filtration system will automatically start.
**NOTE:** When the water temperature is below 33.8°F (1°C), the anti-icing system will be activated automatically to heat the water to 37.4°F (3°C).
IMPORTANT: The following conditions will lead to slow water heating

- An ambient temperature lower than 50°F (10°C).
- An outdoor wind speed above 8-12mph (3.5-5.4m/s).
- If the air bubble function is activated when the heater is on.
- If the spa cover is not properly in place when the heater is on.






**NOTE:** Always keep the spa cover on to minimize heat loss when heating the water.
Make sure the cover, and mostly its side facing water, will not come into contact with the ground or any other dirt when not in use.
Covers shall be cleaned inside and out periodically using a suitable solution that includes adequate disinfection (e.g. 10ml/l of free Chlorine).

Your spa is equipped with a 1350W PTC heater. To guarantee you a best spa experience, it will intelligently allocates the power according to different function being activated.

### FILTRATION

Press the **FILTER** button to turn the function on/off. The button lights up when function is activated.
**NOTE:** The filtration system will automatically start when the heating, Ozone or UVC sanitizing system is activated.
**NOTE:** After turning off the heating system, the filtration system will automatically stop in 30 seconds.
**Filter Cartridge Cleaning Reminder:** When the FILTER icon flashes continuously, the filter cartridge must be cleaned or replaced. Once this has been done, press the Filter button for 3 seconds to reset the reminder.
**Auto-filtration:** When the spa is in stand-by mode, the filtration system will operate automatically for 60 minutes every 8 hours.When the ambient temperature is below 33.8°F/ 1°C , the filter will run automatically to prevent the tube from freezing.

### BUBBLE MASSAGE

Press the **BUBBLE** button to turn the function on; hold down the BUBBLE button for 3 seconds to turn the function off. The BUBBLE button lights up when function is activated.
The bubble setting can be adjusted to three different levels. The default setting is at level 3 (700W). Press the BUBBLE button to switch the setting to level 1 (300W). Press it again to switch to level 2 (450W).
**IMPORTANT:** Do not turn on the massage system when the cover is attached. Air can accumulate inside the spa and cause irreparable damage and bodily harm.
**NOTE:** The bubbling massage function will shut down automatically after every 20 minutes of operation as a safety precaution. This can be reactivated after 10 minutes by pressing the BUBBLE button again.

### HEATING TIMER

1-99H

To set the number of hours **FROM NOW** when the heater will activate:
1. Press the **TIMER** button to enter pre-setting mode. The button lights up.
2. Pressing the **UP** or **DOWN** button will cause the LED to flash. While it is flashing, you can adjust the number of hours before heater activation (from 1 to 99 hours). The desired timer setting will remain on the LED display for 3 seconds to confirm the value.

**To modify the timer setting:** Press the Timer button again and use the UP or the DOWN button to adjust.
**Cancel the setting:** Press the TIMER button for 3 seconds.
**NOTE:** Activating the heating system or rebooting the spa will cancel the timer setting.

### UVC SANITIZER

Press the **UVC** button to turn the UVC sanitizing system on/off. When the button lights up, the UVC sanitizing system is activated.
**NOTE:** The UVC emitter is built inside the control box. Therefore, the function can be turned on at any time, even with people inside the spa.

### OZONE

Press the **OZONE** button to turn the function on/off. The button lights up when the function is activated. The Ozonator will shut down automatically after operating for 2 hours.
**NOTE:** For your own safety, do not bathe in the spa when the OZONE function is turned on. The OZONE function cannot be turned on when the JET or BUBBLE function is on. We suggest turning on the function after using the spa.

**Celsius/Fahrenheit Toggle Button**

The temperature can be displayed in either Celsius or Fahrenheit. Press the ⓥ **DOWN** button for 3 seconds to toggle between the two options.

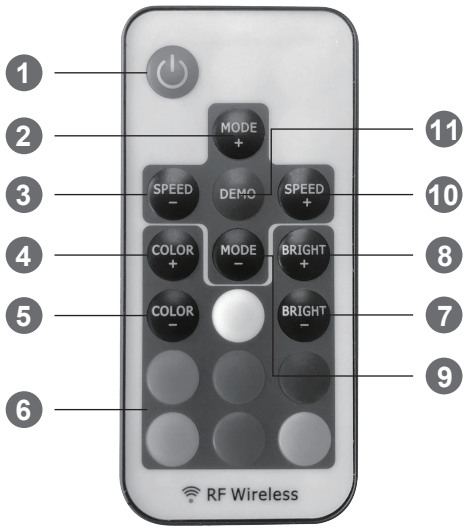
**SAFETY LOCK**

Press the ⓐ **UP** and ⓥ **DOWN** buttons at the same time for 3 seconds to lock/unlock the controller. In safety lock mode, the controller is disabled and the spa retains all previous settings.

# LED LIGHT STRIP OPERATION

**SPECIFICATIONS**

| Dynamic mode | 21 modes |
|---|---|
| Static Color | 20 colors |
| PWM Grade | 256 levels |
| Brightness Grade | 5 levels |
| Speed Grade | 10 levels |
| Demo mode | Yes |
| Direct Color Select | Yes |
| Output Colo Switchable | Yes, 6 options |
| Working Voltage | DC 5~24V |
| Output Current | 3x4A peak, 3×2A constant |
| Remote frequency | 433.92MHz |
| Remote distance | >15m at open area |




**OPERATION**

**Using Remote Controller**

Pull out the battery insulating tape before using. Install button batteries (not included).

**Pairing New Remote**

The light strip and remote controller from the same set have already been paired. To pair light strip to additional or new remote controller, please follow the step below:

1. Unplug the light strip. Plug it back after 5 seconds.
2. Press “SPEED+” and “SPEED-” at the same time and hold for 5 seconds. The pairing is completed.

**Switch Color Sequence**

If the direct color button doesn't match output LED light, follow below steps to adjust the light sequences:

1. Unplug the light strip. Plug it back after 5 seconds.
2. Press RED and BLUE button together and hold for 5 seconds. With this operation, the output light sequence will switch between 6 possible combinations.

**FUNCTIONALITY**

**1. Turn On / Standby**

Press the button to turn on the light strip or switch to standby mode. When being powered on, the light strip will automatically turn on and restore to the previous state.

**2/9. Dynamic Mode Adjust**

Switch to dynamic mode from static color, or switch between dynamic modes.

**3/10. Dynamic Speed Adjust**

Adjust the dynamic playing speed. The light will switch to dynamic mode If press this button at static color mode.

**4/5. Static Color Adjust**

Switch to static color mode from dynamic mode, or switch between static colors.

**6. Direct Color Select**

Select static colors directly. When press the specific color button, light strip will play the same static color. The direct colors are included in “COLOR+” and “COLOR- “operation.

**7/8. Brightness Adjust**

Adjust static color brightness. The light will switch to static color mode If press this button at dynamic mode.

**11. Demo Mode**

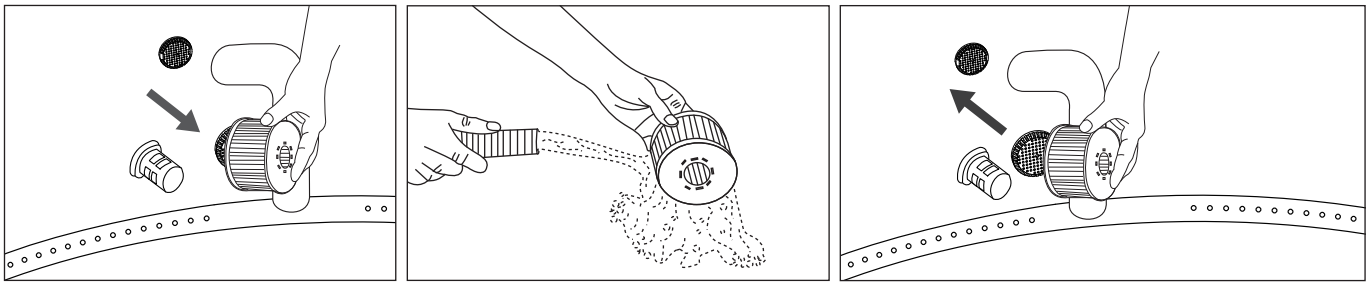
Press this button will switch to Demo mode. At demo mode, it plays 17 dynamic modes in loop, each mode repeats 3 times.

# WATER MAINTENANCE AND CHEMICALS

**CAUTION: ALWAYS ENSURE THE SPA IS UNPLUGGED BEFORE STARTING ANY MAINTENANCE WORK TO AVOID THE RISK OF INJURY OR DEATH.**

## FILTER CARTRIDGE MAINTENANCE

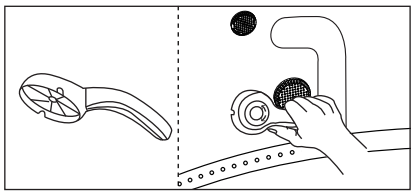
1. Inspect and clean the filter cartridge gently after each use. Follow the steps below:



**NOTE:** Change the filter cartridge every 3-5 days, if the filter cartridge remains soiled and discolored.
**NOTE:** When the spa is filled with water, there should always be a filter cartridge installed on the base.
**NOTE:** Turn off all the functions before changing or cleaning the filter cartridge.

2. If the spa's inlet or outlet becomes clogged with dirt, use the wrench to unscrew the cap and then clean it when necessary.

**NOTE:** Before unscrewing the part, make sure the spa is empty. Never unscrew it when the spa is filled with water!



### SPA WATER

1. Change the spa water every 3-5 days depending on use. If dirt is visible in the water or if the water becomes cloudy and the correct water chemistry does not clear it up, change the water and clean the spa tub. See the “Cleaning, draining and storage” section for instructions.
2. We recommend taking a shower before using the spa, as cosmetic products, lotions and other residues on the skin can quickly degrade the water quality.
3. When the spa is not in use, cover it with the buckle cover to prevent pollution.
4. Use spa chemicals to maintain the proper water conditions. Spa damage caused by chemical abuse or poor spa water management is not covered by warranty. Consult with your local spa or pool retailer for more information on chemical use.

### Water Sanitation

The spa owner must regularly check and keep the spa water sanitized with scheduled maintenance (daily, if necessary). Adding sanitizer or other chemicals will control bacteria and the reproduction of viruses in the spa water. Maintaining the correct water balance through the appropriate use of sanitizers is the most important factor in maximizing the life and appearance of the spa and ensuring clean, healthy, and safe water. Adopting the proper technique is important for testing and treating spa water. Contact your spa professional if you have any questions on chemicals, sanitizers, test kits, or test procedures.

### Water Balance

Follow the instructions below to maintain your spa water.

| PARAMETER | TEST FREQUENCY | CORRECT LEVEL |
|---|---|---|
| **pH** | Daily | 7.2-7.6 when using Chlorine;<br>7.2-7.8 when using Bromine |
| **Free Chlorine** | Daily | 3-5 ppm |
| **Bromine residual** | Daily | 2-4 ppm |
| **Total Alkalinity (TA)** | Weekly | 80-120 ppm |
| **Total Hardness (TH)** | Weekly | 200-500 ppm |

**NOTE**

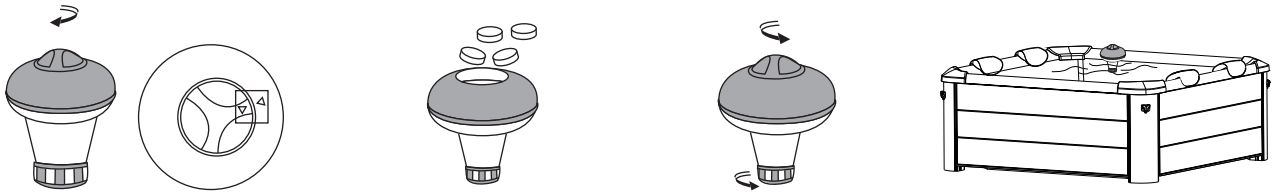
- A low pH will damage the spa tub and pump. Any damage resulting from a chemical imbalance will void the warranty.
- A high pH (hard water) will result in white coagulations inside the filter pump, which may lead to pump damage.

**Water Treatment:**

- It is good practice with an existing spa to keep all air jets open and valves closed to allow chemically treated water to flush through all pipework.
- Always follow the chemical manufacturer's instructions and health and hazard warnings.
- Never mix chemicals together. Add the chemicals to the spa water separately. Thoroughly dissolve each chemical before adding it to the water.
- Please note that chlorine and bromine products should never be mixed. This is extremely dangerous. If you usually use chlorine-based products and if you want to switch to bromine-based products or vice versa, it is essential that you change the spa water first.
- Do not add chemicals if the spa is occupied. This can cause skin or eye irritation.
- Do not overuse chemicals or use concentrated chlorine. This can damage the spa tub and cause a potential hazard to your skin. Improper chemical use will void the warranty.

**FLOATING DISPENSER**

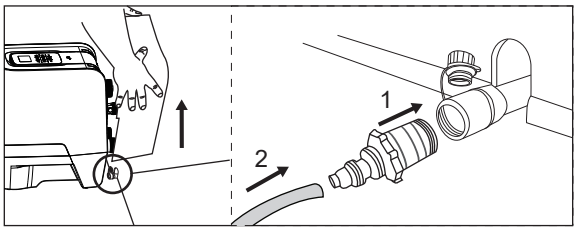
Your spa comes with a standard chemical dispenser: This dispenser only applies to 1" tablet.
Do not pour liquid or granules into the dispenser.

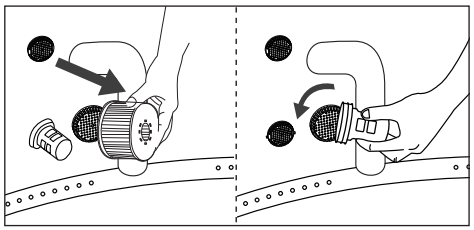


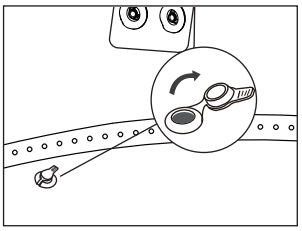
**NOTE**: Remove the chemical dispenser from spa when the spa is in use.

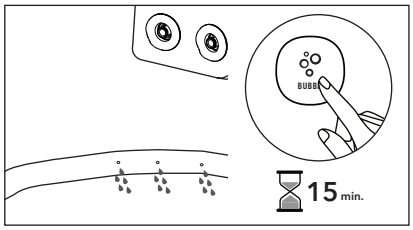
# DRAINAGE, CLEANING AND STORAGE

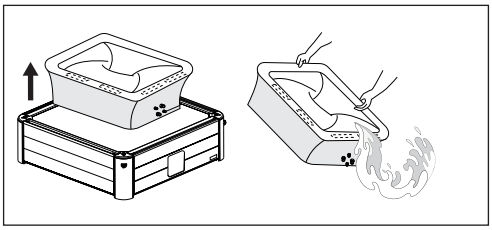
**Spa Drainage**

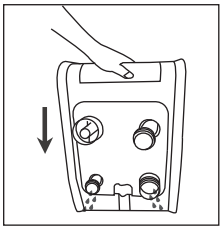






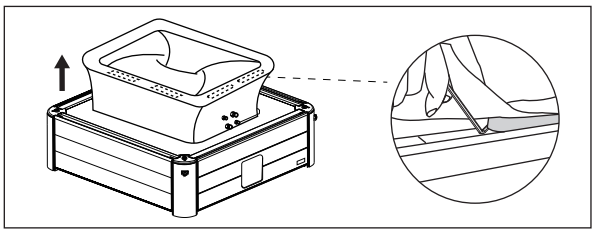


## Cleaning the Spa Tub

If dirt is visible in the water or if the water becomes cloudy and the correct water chemistry does not clear it up, change the water and clean the spa tub. See the “Spa tub drainage” section on how to drain the spa. While empty, clean and/or replace the filter cartridge. Use a sponge and mild soap solution to wipe away any soil or stains on the inside of the spa wall. Rinse thoroughly before refilling with clean water.
**IMPORTANT:** Do not use steel wool, hard brushes or abrasive cleaners.

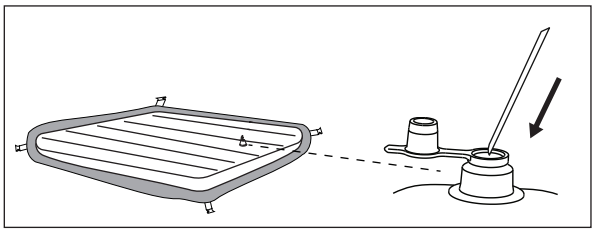
## Disassemble Instructions

Remove all the parts in the reverse order of the installation steps.
**NOTE:** To remove the liner, use an L-wrench to pry the retaining block out of the side panel slot. Do not drag the liner directly.



## Spa Bladder Deflation

1. Open the valve cap to deflate the bladder. For quick deflation, insert the straw (included in the repair kit) into the valve.
2. Once the deflation is completed, re-place the cap back.

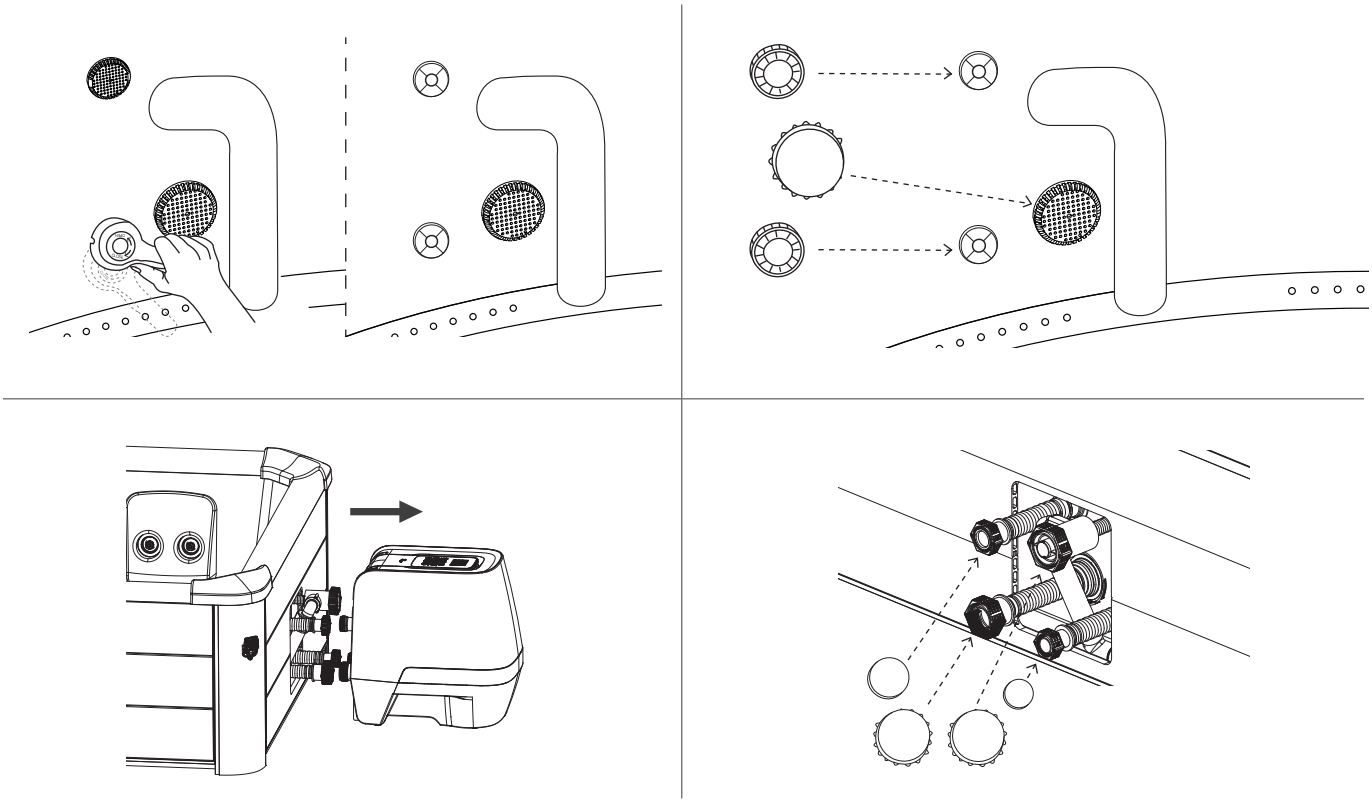


## Spa Tub and Air Bladder Repair

Use the enclosed repair patch to repair any puncture:
1. Clean and dry the area to be repaired thoroughly
2. Apply the glue to the PVC patch and quickly attach it to the damaged surface. (Glue is not included)
3. Smooth the surface to remove any air bubbles and allow it to dry for 5-10 minutes

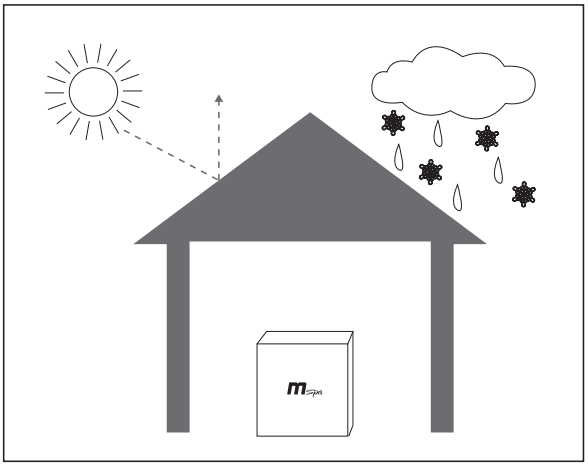
**NOTE:** Glue is not included.

## Water / Air Channel Stopper Instructions



## Storage and Preparation for Future Use

1. Drain and clean the spa by following the "Drainage" and "Spa Cleaning" sections.
2. Refer to the instructions to deflate air bladder.
3. Make sure all the spa components and accessories are thoroughly clean and dry before storage. Air-dry the spa tub in the mild sun for an hour before folding.
4. Fold the spa tub loosely and avoid any sharp corners to prevent damage or leakage to the spa liner.
5. Prepare new additional cartridges for next time use.
6. Store the spa and accessories in a dry, temperature-controlled environment, between 32°F - 104°F (0°C and 40°C). We recommend storing the spa with desiccant.
7. The original packaging is recommended for storage.
8. After long-term storage, fill the spa with clean water and sanitizer, and turn on the FILTER for at least 1 hour before use.



# PRECAUTIONS FOR WINTER USE

**Installation**

Low temperature will harden the PVC material and make it more fragile.

- The new spa might have been stored or transported at a low temperature (below 39°F / 4°C) before it is unfolded. Put the package indoors or somewhere warm for 12 hours to soften the material before use.

**Heating and Heat Preservation**

In cold weather, heating the water up will take much more time. It is suggested to:

- Fill the spa tub with lukewarm water (not higher than 104°F / 40°C) to get it heated more quickly.
- Use ground mat and inflatable bladder for better heat preservation effect.
- When the outdoor temperature is below 39°F (4°C), even when not using the spa, as long as it is filled with water, the heater should always be turned on (or put the spa in stand-by mode) to prevent water from freezing.
- Your spa is equipped with an Anti-icing System. Put the spa in stand-by mode, when the ambient temperature is below 33.8°F / 1°C, the filter will run automatically. And when the water temperature falls below 33.8°F/1°C the heater will run automatically. This will help prevent water from freezing. If you are not going to use the spa in near future, please disassemble the spa and store it following the storage procedure.
- When anti-icing system is activated, the system determines that the spa is in extreme cold condition that is not appropriate for hydro massage. There will be a snow icon on the screen to indicate that. At this status, the JET function can't be activated. Please heat the water up to 68°F (20°C) or above to enjoy this function.

**In Rainy days**

For spa placed outdoors, do not use it when it rains.
If the spa is placed under rain shelter, do not turn on the bubble function. This is because the rain in the nearby air will also be sucked into the pump, causing the bubble generator to get damp and rusty which could result in malfunction and void your warranty.
It is recommended to put the plug and socket somewhere not exposed to rain to prevent damage caused by water accumulation due to excessive rain.

# DISPOSAL AND ENVIRONMENTAL PROTECTION

This mark indicates that the product should not be disposed of with other household waste. To prevent possible harm to the environment or human health from uncontrolled waste disposal, products should be recycled responsibly to promote the sustainable reuse of material resources. Information on disposal can be obtained from your local authorities.

To return your used device, please use the return and collection systems or contact the retailer where the product was purchased for environmentally safe recycling.

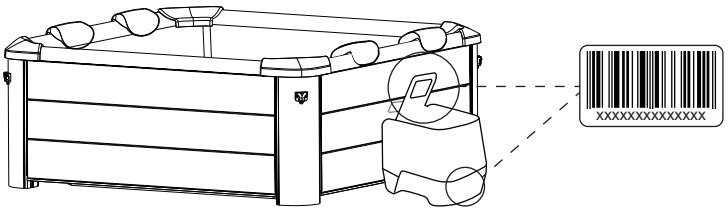
# TROUBLESHOOTING

## ERROR CODE CHART

| LED READING | CAUSE | SOLUTION |
|---|---|---|
| **- - - / 888 / EEP** | The Signal wire is loose | Contact local MSpa Service Center |
| | Communication failed | Contact local MSpa Service Center |
| **F0** | Water or ambient temperature is below 32°F (0°C) or exceeds 122°F (50°C) | Change the water |
| | Temperature sensor failure | Contact local MSpa Service Center |
| **F1** | F1 immediately shows after pressing FILTER, HEATING or UVC | Clean the parts and tubes that the water goes through |
| | F1 shows 15s after pressing FILTER, HEATING or UVC | 1. Add more water to the minimum line<br>2. Clean the parts and tubes that water goes through<br>3. Contact local MSpa Service Center |

| PROBLEM | CAUSE | SOLUTION |
|---|---|---|
| **NO DISPLAY ON THE CONTROL PANEL** | Power socket failure | Change a socket or repair the socket before use |
| | GFCI is off | Reset the GFCI by following the GFCI Testing section |
| | Press the Reset button, the controller is not | Contact local MSpa Service Center |
| | GFCI broken | Contact local MSpa Service Center |
| **SPA LEAKING** | Spa in&outlet connection not securely tight | Tighten the in&outlet connection |
| | Drainage valve is not closed completely | Close the drainage valve. Contact the MSpa Service Center, if the spa is still leaking |
| **NOT HEATING PROPERLY** | Temperature set too low | Set a higher temperature |
| | Dirty filter cartridge | Clean or replace the filter cartridge |
| | The water level is not at the minimum water line | Add more water to the minimum line |
| | Heater failure | Contact local MSpa Service Center |
| | The filter pump DOES NOT WORK | Refer to the "FILTER PUMP DOES NOT WORK" section |
| **WATER NOT CLEAN** | Water has been used for a long period of time | Change the water |
| | Insufficient filteration time | Extend the filtration time |
| | Dirty filter cartridge | Clean or replace the filter cartridge in time |
| | Improper water maintenance | Refer to the chemical manufacturer's instructions |
| **NO BUBBLE** | Auto-off 10 minutes | Wait for 10 minutes and turn on the Bubble button again |
| | Internal parts damaged | Contact local MSpa Service Center |
| | One-way valve broken | Contact local MSpa Service Center |
| **FILTER PUMP DOES NOT WORK** | Filter cartridge clogged by dirt or other objects | Clean or replace the filter cartridge |
| | Filter system failure | Contact local MSpa Service Center |
| **OZONATOR FAILURE** | Water level is below the minimum water line | Add water above the minimum line |
| | Internal parts damaged | Contact local MSpa Service Center |
| | Filter pump does not work | Refer to the "FILTER PUMP DOES NOT WORK" section |
| **JET FUNCTION FAILURE (without icon)** | Water level is not at the minimum water line | Add more water above the minimum line |
| | Water inlet blocked | Clean the filter pump & jet pump inlets |
| | Filter pump does not work | Refer to "FILTER PUMP DOES NOT WORK" section |
| **JET FUNCTION FAILURE (with icon)** | Low water or ambient temperature | Heat the water up to 68 °F (20 °C) |
| | Protection system to sensitive | Make sure the water temperature is above 68 °F (20 °C). Long press JET button for 3 seconds to unlock the JET function. If Above operation doesn't work, keep heating the water and try again later. |

Where can I find the serial number?
At the back of control box. Or at the foot of the control box.




How can I find my service contact?
* Scan the QR code below or visit https://www.the-mspa.com/after-sales.
1. Input the serial number of your spa.
2. The corresponding service provider will be displayed.

* You can find the contact information of local service center on the back of the warranty card

CONTACT YOUR LOCAL MSPA DEALER OR SERVICE CENTER FOR ANY PRODUCT-RELATED QUESTIONS OR PROBLEMS.

## MSPA LIMITED WARRANTY

MSpa® has been manufactured with reliability and simplicity in mind. All products have been inspected and found free of defects before leaving the factory.

MSpa guarantees this product against any defects identified in the material or workmanship for a period of:
Spa pool liner – **twelve (12) months** from the original date of purchase.
Electrical parts (control box) – **twelve (12) months** from the original date of purchase.
Spa rigid wall frames – **twenty-four (24) months** from the original date of purchase.
The warranty period begins on the date of purchase and MSpa requires the presentation of the original proof of purchase to ascertain the date. During the warranty period, MSpa will, at its sole discretion, repair or replace any defective product. Replaced products or repaired parts will be warranted for only the unexpired portion of the original warranty.

**Shipping Policy**
Consumers are responsible for the shipping/freight when return the defective parts to MSpa authorized service center or ORPC-Oriental Recreational Products (Shanghai) Co., Ltd.

**Warranty Policy**
- This limited warranty does not apply to any defect caused by negligence, accident, misuse, or any other reason beyond MSpa's reasonable control, including but not limited to: normal wear and tear, negligence or failure to follow the product instructions, improper or inadequate maintenance; connection to an improper power supply; chemical water damage, loss of pool water, unauthorized product modification or repair; use for commercial purposes; fire, lightning, flood or other external causes.
- This warranty is valid only in the country of purchase in such countries where MSpa sells and services the same model with identical technical specifications.Warranty service outside the country of purchase is limited to the terms and conditions of the corresponding warranty in the country of service. Where the cost of repairs or replacement is not covered by this warranty, MSpa will advise the owners and the cost shall be charged to the owner.
- This warranty only applies to the original purchaser and terminates upon any transfer of ownership.
- All repairs for which warranty claims are made must be pre-authorized by ORPC through an accredited distributor or agent provided that the defective part be returned to the distributor or agent Transportation Prepaid, if requested.
- The authorized selling dealer is responsible for all in-field service work carried out on your MSpa product. ORPC will not be responsible for any process charges performed by unauthorized service personnel.
- Products marked with both MSpa and importer are governed exclusively by the warranty provided by the importer.

**Warranty Registration**
Please Always keep the purchase receipt and warranty card in case of a future warranty inquiry. All claims must be submitted to an MSpa authorized dealer or service partner. It is essential that all claims submitted provide all the necessary information, including Customer name, Purchase receipt, Serial No., Product No., Problem, and requested Parts.