



MICHAEL PHELPS
SIGNATURE SWIM SPAS™

 BY MASTER SPAS



OWNER'S MANUAL
& LIMITED WARRANTY

 Master Spas®

MASTER SPAS OWNER'S MANUAL

Welcome to the Ultimate in Relaxation!

Thank you for choosing your new swim spa built by Master Spas. For how-to videos and helpful tips on operating and maintaining your swim spa, please visit www.masterspas.com/resources.

Please read the entire Owner's Manual before installing and using your swim spa. The goal of this manual is to provide you with safety and operational information plus some tips that will help you enjoy your swim spa to its fullest. At the time of print, this manual is accurate in its information. Master Spas reserves the right to change or improve its product without prior notice.

REGISTER YOUR SWIM SPA

Please be sure to register your swim spa so we can efficiently assist with any questions you may have. Until your swim spa has been registered, Master Spas will not have record of your ownership. To register your swim spa, visit www.masterspas.com/resources and click on Spa Registration.

SERIAL NUMBER LOCATION

The serial number for your swim spa is located near the filter area, on the swim spa system pack, or on the listing plate on the skirting. It will start with "H" followed by a 6 digit number. For example, H191234.

RECORD OF OWNERSHIP

Name _____

Address _____

City _____ State _____ Zip _____

Phone Number (____) _____ - _____ Date Purchased ____/____/____

Model _____ Serial # _____

Dealer Name _____

Service Tech Rep _____



WATCH HOW-TO VIDEOS:
masterspas.com/video-tutorials



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SAFETY INSTRUCTIONS

SAVE THESE INSTRUCTIONS

Included with your new swim spa is a safety sign. The sign is for you and your guest's protection and is suitable for outdoor use in wet locations. The sign should be placed in a location visible to all users of the swim spa.

Please take time to point out the physical location of the safety sign and the importance of the safety precautions displayed on the safety sign to all of your guests. Remember, your safety and the safety of anyone who enjoys the use of your swim spa is our utmost concern.

The sign should be mounted with screws or another type of permanent fastener. Additional or replacement signs can be obtained from your dealer or direct from the factory.

INTRODUCTION

It's time to relax! You now have your very own portable swim spa by Master Spas. By fully understanding the operation of each of the features of your new Master Spa, you will be assured of many years of hassle-free, hot water therapy and fun.

Your safety is of paramount importance to the Master Spas family. We urge you to read and become thoroughly familiar with all safety aspects addressed in this manual.

Through reading and totally understanding the important information in your owner's manual, you will realize that you now own **THE ULTIMATE RELAXATION MACHINE!**[®]

NO DIVING

**DANGER: DIVING MAY
RESULT IN SERIOUS
INJURY OR DEATH.**



IMPORTANT SAFETY INSTRUCTIONS

When installing and using this electrical equipment, basic safety precautions should be observed including the following:

READ AND FOLLOW ALL INSTRUCTIONS

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

A wire conductor is provided on this unit to connect a minimum 6 AWG (13.302mm²) solid copper conductor between this unit and any metal equipment, metal enclosures of electrical equipment, metal water pipe, or conduit within 5 feet (1.5m) of the unit.

(For cord-connected/convertible units)

DANGER – Risk of injury.

- a) Replace damaged cord immediately.
- b) Do not bury cord.
- c) Connect to a grounded, grounding type receptacle only.

(For units intended for indoor use only)

WARNING – For indoor use only. This unit is not intended for outdoor use.

(For units intended for outdoor use only)

WARNING – For outdoor use only. This unit is not intended for indoor use.

SAFETY INSTRUCTIONS

NO DIVING

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IMPORTANT SAFETY INSTRUCTIONS (CONT.)

(For units with GFCI)

WARNING – This product is provided with a ground-fault circuit interrupter located on the front panel of selected swim spas and on the power cord of 120 volt convertible spas. 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.

DANGER – Risk of Accidental Drowning. Extreme caution must be exercised to prevent unauthorized access by children. To avoid accidents, ensure that children cannot use this swim spa unless they are supervised at all times.

DANGER – Risk of Injury. The suction fittings in this swim 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 swim 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 (1.5m) from all metal surfaces. As an alternative, a swim spa may be installed within 5 feet of metal surfaces if each metal surface is permanently connected by a minimum 8AWG (8.4mm²) 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 electric appliance, such as a light, telephone, radio, or television, within 5 feet (1.5 m) of a swim spa.

WARNING – To reduce the risk of injury:

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

SAFETY INSTRUCTIONS

NO DIVING	DANGER: DIVING MAY RESULT IN SERIOUS INJURY OR DEATH.	
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IMPORTANT SAFETY INSTRUCTIONS (CONT.)

- 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 water temperatures to 100°F (38°C).
- c) Before entering a swim 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 swim spa use may lead to unconsciousness with the possibility of drowning.
- e) Obese persons and persons with a history of heart disease, low or high blood pressure, circulatory system problems, or diabetes should consult a physician before using a swim spa.
- f) Persons using medication should consult a physician before using a swim spa since some medication may induce drowsiness while other medication may affect heart rate, blood pressure, and circulation.

(For swim spas with a gas heater)

WARNING – Risk of Suffocation. This swim spa is equipped with a gas heater and is intended for outdoor use only unless proper ventilation can be provided for an indoor installation.

SAVE THESE INSTRUCTIONS

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). Prolonged immersion in hot water may induce hyperthermia.

THE SYMPTOMS OF HYPERTHERMIA INCLUDE:

- Dizziness • Fainting • Drowsiness • Lethargy
- Increase in Internal Body Temperature

THE EFFECTS OF HYPERTHERMIA INCLUDE:

Unawareness of Impending Hazard • Failure to Perceive Heat • Failure to Recognize the Need to Exit Swim Spa • Physical Inability to Exit Swim Spa • Fetal Damage in Pregnant Women • Unconsciousness Resulting in a Danger of Drowning

SAFETY INSTRUCTIONS

NO DIVING

**DANGER: DIVING MAY
RESULT IN SERIOUS
INJURY OR DEATH.**



IMPORTANT SAFETY INSTRUCTIONS (CONT.)

DANGER – To reduce the risk of injury to persons, do not remove the suction grate. Suction through drains and skimmers is powerful when the jets in the swim spa are in use. Damaged covers can be hazardous to small children and adults with long hair. Should any part of the body be drawn into these fittings, turn off the swim spa immediately. As a precaution, long hair should not be allowed to float in the swim spa.

WARNING – Install the swim spa so that water can be easily drained out of the compartment containing electrical components so as not to damage equipment. When installing the swim spa, make sure to allow for an adequate drainage system to deal with any overflow water. Please allow for at least 3 feet of clearance around the perimeter of the swim spa to provide enough room to access for servicing. Contact your local dealer for their specific requirements.

WARNING – The swim spa should be covered with an approved locking cover when not in use, to prevent unauthorized entry and injuries.

WARNING – People with infections, sores or the like should not use the swim spa. Warm and hot water temperatures may allow the growth of infectious bacteria if not properly disinfected.

CAUTION – Safe temperatures for swimming or aquatic exercise is around 80°F (26.7°C).

CAUTION – Risk of Electrical Shock. Do not leave audio compartment open. Audio CD controls are not to be operated while inside the swim spa.

CAUTION – Replace components only with identical components.

WARNING – Risk of Electric Shock. Do not connect any auxiliary components (for example, additional speakers, headphones, additional audio/ video components etc.) to the system. These units are not provided with an outdoor antenna.

Do not service this product yourself as opening or removing the covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

If the power supply cord(s) are damaged, water is entering the speaker, audio compartment, or any other component in the electrical equipment compartment area, the protective shield is showing signs of deterioration, or there are signs of other potentially hazardous damage to the unit, turn off the circuit breaker from the wall and refer servicing to qualified personnel.

NO DIVING	DANGER: DIVING MAY RESULT IN SERIOUS INJURY OR DEATH.	
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IMPORTANT SAFETY INSTRUCTIONS (CONT.)

The unit should be subjected to periodic routine maintenance once every quarter to make sure that the swim spa it is operating properly.

DANGER – Risk of Electric Shock. A green colored terminal or a terminal marked G, GR, Ground, Grounding or the symbol shown in Figure 14.1 of UL 1563 is located inside the supply terminal box or compartment. 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.

At least two lugs marked “Bonding Lugs” are provided on the external surface or on the inside of the supply terminal box or compartment. To reduce the risk of electric shock, connect the local common bonding grid in the area of the swim spa to these terminals with an insulated or bare copper conductor not smaller than 8AWG.

All field installed metal components such as rails, ladders, drains, or other similar hardware within 10 feet (3m) of the swim spa shall be bonded to the equipment grounding bus with copper conductors not smaller than 8AWG.

SAVE THESE INSTRUCTIONS

SAFETY INSTRUCTIONS

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

AVERTISSEMENT: NE PAS LAISSER LES ENFANTS UTILISER UNE CUVE DE RELAXATION SANS SURVEILLANCE.

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

AVERTISSEMENT: POUR ÉVITER QUE LES CHEVEUX OU UNE PARTIE DU CORPS PUISSENT ÊTRE ASPIRES, NE PAS UTILISER UNE CUVE DE RELAXATION SI LES GRILLES DI PRISE D'ASPIRATION NE SONT PAS TOUTES EN PLACE.

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

AVERTISSEMENT: LES PERSONNES QUI PRENNENT DES MÉDICAMENTS OU ONT DES PROBLÈMES DE SANTÉ DEVRAIENT CONSULTER UN MÉDECIN AVANT D'UTILISER UNE CUVE DE RELAXATION.

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

AVERTISSEMENT: LES PERSONNES ATTEINTES DE MALADIES INFECTIEUSES NE DEVRAIENT PAS UTILISER UNE CUVE DE RELAXATION.

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

AVERTISSEMENT: POUR ÉVITER DES BLESSURES, USER DE PRUDENCE EN ENTRANT DANS UNE CUVE DE RELAXATION ET EN SORTANT.

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

AVERTISSEMENT: POUR ÉVITER L'ÉVANOUISSEMENT ET LA NOYADE ÉVENTUELLE, NE PRENDE NI DROGUE NI ALCOOL AVANT D'UTILISER UNE CUVE DE RELAXATION NI QUAND ON S'Y TROUVE.

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

AVERTISSEMENT: LES FEMMES ENCEINTES, QUE LEUR GROSSESSE SOIT CONFIRMÉE OU NON, DEVRAIENT CONSULTER UN MÉDECIN AVANT D'UTILISER UNE CUVE DE RELAXATION.

WARNING: WATER TEMPERATURE IN EXCESS OF 38°C MAY BE INJURIOUS TO YOUR HEALTH.

AVERTISSEMENT: IL PEUT ÊTRE DANGEREUX POUR LA SANTÉ DE SE PLONGER DANS DE L'EAU A PLUS DE 38°C.

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

AVERTISSEMENT: AVANT D'UTILISER UNE CUVE DE RELAXATION MESURER LA TEMPÉRATURE DE L'EAU À L'AIDE D'UN THERMOMÈTRE PRÉCIS.

SAFETY INSTRUCTIONS

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

AVERTISSEMENT: NE PAS UTILISER UNE CUVE DE RELAXATION IMMÉDIATEMENT APRÈS UN EXERCISE FATIGANT.

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

AVERTISSEMENT: L'UTILISATION PROLONGÉE D'UNE CUVE DE RELAXATION PEUT ÊTRE DANGEREUSE POUR LA SANTÉ.

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

AVERTISSEMENT: NE PAS PLACER D'APPAREIL ÉLECTRIQUE (LUMINAIRE, TÉLÉPHONE, RADIO, TÉLÉVISEUR, ETC) À MOINS DE 1.5 M DE CETTE CUVE DE RELAXATION.

CAUTION: MAINTAIN WATER CHEMISTRY IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

ATTENTION: LA TENEUR DE L'EAU EN MATIÈRES DISSOUTES DOIT ÊTRE CONFORME AUX DIRECTIVES DU FABRICANT.

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 swim spa;
- (d) physical inability to exit swim spa;
- (e) fetal damage in pregnant women; and
- (f) unconsciousness and danger of drowning.

WARNING: THE USE OF ALCOHOL, DRUGS OR MEDICATIONS CAN GREATLY INCREASE THE RISK OF HYPERTHERMIA.

AVERTISSEMENT: LA CONSOMMATION D'ALCOOL, DE DROGUE OU LES MÉDICAMENTS AUGMENTE CONSIDÉRABLEMENT LES RISQUES D'HYPERTHERMIE MORTELLE.

COMPLIANCE

Relax and rest assured that your Master Spas manufactured swim spa has been built with safety in mind. We manufacture our self-contained swim spas to meet a stringent list of industry standards.

Our jetted swim spas comply with the following industry standards:

- UL 1563 Standard for Electric Spas, Equipment Assemblies and Associated Equipment
- ICC ISPSC International Swimming Pool & Spa Code
- VGB Virginia Graeme Baker Pool and Spa Safety Act (Certified by UL to UL 1563)
- ANSI/APSP-6 Standard for Portable Spas
- ANSI/APSP/ICC-14 Standard for Portable Spa Energy Efficiency
- CEC Title 20 Appliance Efficiency Regulation
- CSA C22.2 No. 218.1 Spas, Hot Tubs and Associated Equipment
- IAPMO/ANSI Z124.7 Prefabricated Plastic Spa Shells
- CE - EN 60335-2-60 Household and Similar Electrical Appliances – Safety: Particular Requirements for Whirlpool Baths and Whirlpool Spas
- CE - EN 60335-1 Household and Similar Electrical Appliances – Safety: General Requirements
- 206/95/EC EC Low Voltage Directive
- 204/108/EMC Directive
- 93/68/EEC CE Marking Directive

Our propulsion swim spas comply with the following industry standards:

- UL 1563 Standard for Electric Spas, Equipment Assemblies and Associated Equipment
- ICC ISPSC International Swimming Pool & Spa Code
- VGB Virginia Graeme Baker Pool and Spa Safety Act (Certified by UL to UL 1563)
- ANSI/APSP-7 (Propulsion system only Certified by NSF) Standard for Suction Entrapment Avoidance in Swimming Pools, Wading Pools, Spas, Hot Tubs and Catch Basins
- ANSI/APSP-6 Standard for Portable Spas
- ANSI/APSP/ICC-14 Standard for Portable Spa Energy Efficiency
- CEC Title 20 Appliance Efficiency Regulation
- CSA C22.2 No. 218.1 Spas, Hot Tubs and Associated Equipment
- IAPMO/ANSI Z124.7 Prefabricated Plastic Spa Shells
- CE - EN 60335-2-60 Household and Similar Electrical Appliances – Safety: Particular Requirements for Whirlpool Baths and Whirlpool Spas
- CE - EN 60335-1 Household and Similar Electrical Appliances – Safety: General Requirements
- 206/95/EC EC Low Voltage Directive
- 204/108/EMC Directive
- 93/68/EEC CE Marking Directive

VGB SUCTION SAFETY & MAINTENANCE INSTRUCTIONS

VGB 2008:

WARNING



Read and follow all instructions in this manual and on the suction fitting. Failure to follow instructions can cause severe injury and/or death.



Failure to remove pressure test plugs and/or plugs used in winterization of the spa/swim spa from the suction outlets can result in an increased potential for suction entrapment.



Suction outlet components have a finite life. The cover/grate should be inspected frequently and replaced at least every seven years, or if found to be damaged, broken, cracked, missing, or not securely attached.



If the fitting is missing or broken, replace with a fitting of equivalent rating or higher. Use of a lower rated suction fitting could result in entrapment of the body which could result in serious injury including drowning.



Do not use or operate spa/swim spa if this suction fitting is missing, broken or not secured per instructions. The suction fitting is intended to prevent entrapment of the body. Use of the spa/swim spa with a missing, broken or improperly secured suction grate may result in serious personal injury including drowning.



When the spa/swim spa is in operation, suction is created at this fitting. Users of the spa/swim spa must be instructed not to come in contact with this fitting in such a way as to block its orifice. If a user of the spa/swim spa blocks this fitting with his/her body, serious personal injury or drowning may occur.

IMPORTANT SAFETY INSTRUCTIONS



WARNING - SUCTION ENTRAPMENT HAZARD

Suction in suction outlets and/or suction outlet covers which are damaged, broken, cracked, missing, or unsecured can cause severe injury and/or death due to the following entrapment hazards:

Hair Entrapment: Hair can become entangled in suction outlet cover.

Limb Entrapment: A limb inserted into an opening of a suction outlet sump/fitting or suction outlet cover that is damaged, broken, cracked, missing, or not securely attached can result in a mechanical bind or swelling of the limb.

Body Suction Entrapment: A negative pressure applied to a large portion of the body or limbs can result in an entrapment.

Evisceration / Disembowelment Entrapment: A negative pressure applied directly to the intestines through an unprotected suction outlet sump or suction outlet cover which is damaged, broken, cracked, missing, or unsecured can result in evisceration / disembowelment entrapment.

Mechanical Entrapment: There is potential for jewelry, swimsuit, hair decorations, finger, toe, or knuckle to be caught in an opening of a suction outlet cover resulting in mechanical entrapment.

VGB SUCTION SAFETY & MAINTENANCE INSTRUCTIONS

TO REDUCE THE RISK OF ENTRAPMENT HAZARDS:

- Never use a spa/swim spa if any suction outlet component is damaged, broken, cracked, missing, or not securely attached.
- Replace damaged, broken, cracked, missing, or not securely attached suction outlet components immediately.
- It is recommended that suction components be inspected at least monthly.
- Replace the suction within 7 years from the installation date. Contact your dealer or local service center for quoting and scheduling this required maintenance. This is a mandated regulation and is not part of nor covered by the spa/swim spa warranty.

NOTE: Always review entire safety and maintenance information before beginning maintenance. Contact Master Spas for Suction Installation information for complete suction assembly replacement.

GLOSSARY OF SWIM SPA TERMINOLOGY

Your new swim spa features a variety of jets. All jets, regardless of style, return the water to the swim spa. Air is mixed with the water by using the air controls (if equipped) creating a vigorous massage. Water flow is adjusted by simply turning the outer face of most jets. Your swim spa may have a combination of pulsating, rotating, dual pulsating and directional adjustable jets. Here are some terms and definitions to help get you acquainted with your swim spa.

1. THERAPY JETS

Located throughout the seats of the swim spa to offer a variety of therapy combinations.

2. NECK JETS (if equipped)

Located above the normal water level to provide massaging action to the back of the neck.

3. SHOULDER JETS (if equipped)

Located above the normal water level to provide massaging action to the shoulders.

4. MASTER BLASTER® FOOT THERAPY JET (if equipped)

Large jet with several fixed nozzles located in the bottom of the swim spa near the floor to provide excellent massage to the feet.

5. JET DIVERTER VALVE (if equipped)

Located on the top flange of the swim spa, this large valve physically diverts the flow of water from one group of jets to another. Be sure that no sand or particles are brought into the swim spa as they will cause the diverter to seize up. It is best to turn the diverter valve only when the pump is turned off.

6. WATER FEATURE VALVE (if equipped)

Located on the top flange of the swim spa, this smaller valve adjusts water flow to the waterfalls and/or water features in your swim spa.

NOTE: When the swim spa is not in use, this valve should be turned mostly shut (not completely shut) to prevent the water features from allowing water to hit the cover while it is closed.

If left mostly open, water may hit the cover and possibly run out of the swim spa causing water loss.

7. AIR CONTROL VALVE

These smaller valves are located around the top of your swim spa. You may increase or decrease the force of your jets by opening or closing the air control valves. Each air control valve will typically function 1 to 2 groups or seats of jets in the swim spa. When not in use, the air controls should be kept in the closed position as the air being introduced into the water can tend to cool the water and increase the dissipation rate of sanitizer levels.

8. TOPSIDE CONTROL PANEL

You may safely control swim spa functions from inside or outside your swim spa using the Topside Control Panel. This panel is used to control the water temperature, pumps, the swim spa light, automatic filtration cycles and other advanced functions. The digital display will give you a constant temperature readout and will notify you in case of certain malfunctions. Several user programmable functions are also available.

9. PERSONAL REMOTE CONTROL (if equipped)

Select swim spa models may have an additional remote which allows the user to control the jet therapy while remaining in the seat (if applicable). By pressing the control one time, you will activate the pump. Press again for high speed and again to turn it off.

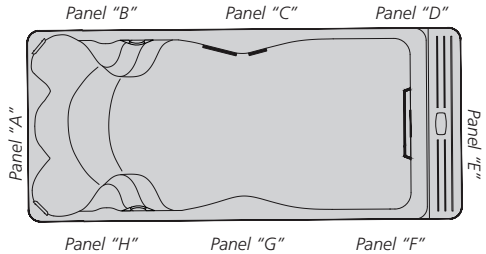
GLOSSARY OF SWIM SPA TERMINOLOGY

10. ACCESS PANELS

These are the skirt panels located around all four sides of the swim spa. All of the skirt panels are removable should service be required. Master Spas recommends at least 3 feet of space be provided around the swim spa.

11. EQUIPMENT ACCESS PANEL

This is the skirt panel located below the Topside Control Panel or behind access panel "A". This area houses the majority of components responsible for the swim spa's operation. These components include the pumps, heater, swim spa control system, ozonator (if equipped), and LED light system (if equipped). Pump and equipment placement may vary by model.



12. FILTER LID

This lid fits over the filter area and weir gate to cover the filters. Remove filter lid to access filters for maintenance. For models equipped with a telescoping filter housing, simply lift up to remove this floating assembly to access the filter. At low speed water flow or when the filtering/heating pump is off, the telescoping part of the filter assembly will float at or near the waterline. At high speed water flow, it will be drawn downward. See Accessing Filters in the Regular Maintenance Procedures section for detailed instructions on filter assemblies.

13. WEIR GATE

The weir gate is the horizontal door located in front of the filters that helps keep debris trapped in the filter area.

14. SWIM SPA CONTROL SYSTEM

This houses the wiring and electrical components necessary to operate the swim spa.

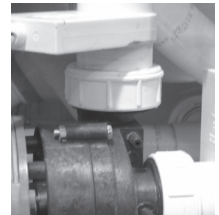
15. SWIM SPA HEATER

This is an electric heater housed in a stainless steel tube. It is thermostatically controlled and equipped with high-limit temperature safety shut-off sensors.

16. SLICE VALVES

These valves are used by service personnel to shut off water to the heating system (heater and pump plumbed to the heater) so that the swim spa water does not need to be drained if the swim spa requires service to the heating system (varies by model).

NOTE: Slice valves must be completely open during normal operations.



Slice Valve and Pump Union

17. MAIN THERAPY PUMP

This produces water flow through the main jets in the swim spa. The first pump may be operated on two speeds (varies by model). Low speed (if applicable) will produce efficient water circulation during filtration, heating of the swim spa water, and gentle jet action. High speed provides maximum jet action. The main pump is controlled by the "Jets" or "Jets 1" button on the Topside Control Panel.

GLOSSARY OF SWIM SPA TERMINOLOGY

18. SECONDARY THERAPY PUMP (if equipped)

This produces water flow through 1 to 2 groups or seats of jets in the swim spa. The second pump operates similar to the main pump and is controlled by the "Jets 2" or "Aux" button on the Topside Control Panel.

19. THIRD THERAPY PUMP (if equipped)

This produces water flow through 1 to 2 groups or seats of jets in the swim spa. This is controlled by the "Jets 3" button on the Topside Control Panel.

20. CIRCULATION PUMP (if equipped)

This produces water flow through the heater in the swim spa and provides the water flow necessary to actuate the ozone injector. This energy efficient pump runs 24 hours for efficient filtration and heating.

21. PUMP UNION

This connects the plumbing and pump together. These are used to help relieve possible pump air locks or for service personnel to easily service the pumps.

22. HEATER UNION

These are used by service personnel to easily service the heater.

23. SWIM SPA LIGHT

The on/off control for the lighting in your swim spa is located on the topside control panel near the therapy seats.

24. EXERCISE/SWIM JETS (H2X Swim Spas)

These large jets are grouped at the end of your swim spa to offer water flow for exercising against. A jet diverter valve may control the flow for these jets.

25. SWIM SPA JUNCTION BOX (MP Swim Spa Only)

The internal junction box for connecting your electrical service(s) to the swim spa is located behind and accessible by removing access panels "B" and "A".

26. PROPULSION SYSTEM ACCESS (MP Swim Spa Only)

The propulsion control system of the MP Swim Spas is located behind the skirt panel designated as "E" in the access panels drawing. The propulsion motor, propulsion control pack, and pulleys for the system are located in this area.

27. PROPULSION SYSTEM CONTROL PANEL (MP Swim Spa & H2X Challenger Models Only)

You may safely control the speed of the propulsion system or variable speed swim jets from the inside of your swim spa by using the touchscreen control panel mounted in the swim area. This control panel is used to turn the water flow for exercising on and off and to adjust the intensity. This control panel may be safely used from inside or outside of the swim spa to adjust the water flow.

THE ADVANTAGES OF ECOPUR® CHARGE

ECOPUR® CHARGE MASTER CORE TECHNOLOGY

The EcoPur® Charge* is made from Master Spa's patented filtration fabric. This fabric is wound tightly into a nautilus master core, creating a catalytic cell. The nautilus fabric cell is encased by a unique "spring core" that allows for maximum flow and water "charging". As water comes in contact with the EcoPur® Charge Master Core, a chemical reaction causes zinc and copper hydroxides to form in controlled amounts. Like Mother Nature, when controlled releases of copper and zinc oxides are carried into the filtered water, they kill bacteria and provide hostile conditions for algae and fungal growth. Using EcoPur® Charge helps reduce the amount of chemicals needed, therefore safeguarding the swim spa's plumbing and equipment because pipes are protected against the corrosive effects of chlorine. EcoPur® Charge Master Core Technology is another exclusive design by Master Spas.

FEATURES

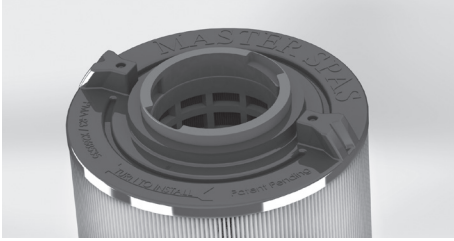
- Releases Sanitizing Copper & Zinc Oxides
- Reduces Water Soluble Heavy Metals
- Controls Scale, Bacteria and Algae
- Safeguards the Swim Spa's Plumbing
- Reduces Use of Chemicals
- Helps Prevent Damage to Swimwear



*PATENTS PENDING

THE ADVANTAGES OF ECOPUR® CHARGE

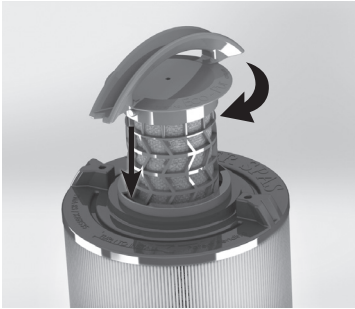
ECOPUR® CHARGE INSTALLATION



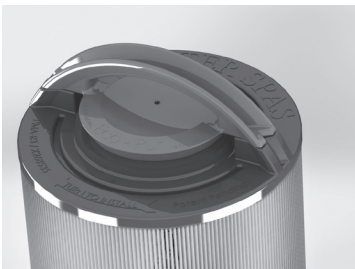
Master Spas Outer Filter*



EcoPur® Charge*



Turn Clockwise to Lock



STEPS FOR INSTALLATION

1. Insert EcoPur® Charge in to outer filter.
2. Twist EcoPur® Charge clockwise to lock in place while holding on to outer filter. When snapped in to locked position, EcoPur® Charge handle aligns with molded points on outer filter.

NOTE: EcoPur® Charge should be replaced every 6 months. Initial snap in fit of inner EcoPur® Charge to outer filter may be tight, especially if both are new.



*PATENTS PENDING

WATER CHEMISTRY TERMS YOU SHOULD KNOW

Before jumping into Water Maintenance, here are some terms to help you.

- 1. PARTS PER MILLION (PPM):** This is a form of measurement used in most pool or swim spa chemical readings. Best described as any one million like items of equal size and make up, next to one unlike item, but of equal size. This would be one part per million.
- 2. TOTAL ALKALINITY:** Measures substances in your water such as hydroxides, carbonates and bicarbonates. When at the proper levels, these elements keep your water from clouding and growing bacteria, as well as prevent the inner workings of your swim spa from deteriorating or forming scale. TA also helps to stabilize pH. The higher the TA level (as long as it is within the recommended range), the less likely the pH is to change. You are looking for a range between 80 - 120 ppm. With low alkalinity, the pH will fluctuate and be harder to control. With high alkalinity, it becomes extremely difficult to change the pH.
- 3. PH OR POTENTIAL HYDROGEN:** This indicates the acidity or basicity of the water. The goal is to have a neutral, stable pH to prevent spa damage and unhealthy conditions. Low pH levels can corrode metals, etch or stain fiberglass or acrylic, cause unsanitary conditions that irritate the eyes or skin and destruct the total alkalinity of the water. High pH can cause cloudy water, eye or skin irritation, scale formation and poor chlorine or bromine efficiency. Note that the chemicals you are using to sanitize and clean your hot tub can also lower or raise the pH level in the water. You want this range to fall between 7.2 - 7.6 on the scale. Unfortunately, there are lots of variables to preventing high pH in your swim spa.
- 4. SHOCKING:** By shocking the water in your swim spa you remove organic compounds from the water, kill bacteria, remove bromamines or chloramines and reactivate the bromides in the swim spa for cleaner water. You should shock your water once a week, after heavy bather use or any time free chlorine levels test lower than total chlorine levels. To do this, either add oxidizer/non-chlorine shock to burn off the chloramines or add extra chlorine to raise the chlorine level above 8 ppm. Oxidizer/non-chlorine shock acts by releasing oxygen in the water, which serves a similar function as chlorine. An advantage to using this type of shock is that the water is safe to enter after 15 minutes of the application and excessive sanitizer (chlorine) levels do not occur. However, an oxidizer/non-chlorine shock doesn't disinfect the water for bacteria. If you use chlorine to shock, you must wait until the total chlorine reading is below 5 ppm.
- 5. SEQUESTERING:** This can be defined as the ability to form a chemical complex which remains in solution, despite the presence of a precipitating agent (i.e. calcium and metals). If the minerals and metals in water are not sequestered, they can cause a reaction, turning the water brown, red, orange or green depending on the minerals and metals present in your water. It is important to add a sequestering agent when adding water to your swim spa and even on a regular basis (if bottle instructions recommend doing so). Common names for sequestering chemicals are: minquest, stain and scale control, metal-x, spa defender, spa metal gone, etc.
- 6. FILTRATION:** Filters are necessary to remove particles of dust, dirt, algae, etc. that are continuously entering the water. If the swim spa is not operated long enough each day for the filter to do a proper job, this puts a burden on the chemicals, causing extra expense. Filtration time will depend on the water capacity, pump and filter size and, of course, bather load. Spare filter cartridges should be kept on hand to make it easy to frequently clean the cartridge without the need for a long shut down. This will also allow the cartridge to dry out between usages, which will increase the cartridge life span as much as twice. Replace the cartridge when the pleats begin to deteriorate. Cartridge cleaning should be done a minimum of once a month. More often with a heavy bather load. See Cleaning Your Filter Elements in the Regular Maintenance section.

WATER CHEMISTRY TERMS YOU SHOULD KNOW

- 7. SANITIZERS:** Germs and bacteria enter the water from the environment and the human body; a sanitizer keeps the water balanced and safe to use. Either chlorine or bromine can be used as a sanitizer to create a healthy water environment.
- A. Chlorine:
1. Only one type is approved for swim spa use. Sodium dichlor which is granular, fast dissolving and pH neutral chlorine.
 2. Chlorine is an immediate sanitizer and will be added as needed to maintain free chlorine levels between 2.0 to 4.0 ppm.
- B. Bromine (Note: Bromine use is not recommended with EcoPur® filters.)
1. Two types of tablets:
 - a. Hydrotech
 - b. Lonza
 2. Bromine is a slow dissolve chemical and may take a few days to develop a reserve or reading in the water. Bromine levels should be maintained between 3.0 to 5.0 ppm.
- 8. TOTAL DISSOLVED SOLIDS (TDS):** Materials that have been dissolved by the water. i.e. Like what happens when you put sugar in coffee or tea.
- 9. USEFUL LIFE OF WATER (IN DAYS):** Water should be drained at least once every 180 days. Useful life may vary by usage and bather load.
- 10. DEFOAMER:** A chemical used to temporarily reduce foaming. Causes of foaming include body oils, cosmetics, lotions, surface cleaners, high pH or algae, as well as other organic materials. Low levels of calcium or sanitizer can also cause increased foaming. Note that you may need to physically remove the foam and/or drain all or part your water to remove or dilute the causes of the foam.
- 11. CALCIUM HARDNESS:** This measurement tells you how much magnesium and calcium are in your water. However, calcium hardness can react with all of the chemicals, bacteria, dirt and other substances that your water dissolves and get thrown out of balance. Just like the other elements, calcium levels must remain balanced and need to be monitored or you run the risk of metal deterioration, water foaming or clouding and scale formation at the surface of your water. The calcium hardness of your water should fall between 150 - 250 ppm.

NOTE: Always leave swim spa cover open for 15 minutes after adding chemicals to prevent the off gas from damaging your swim spa cover, swim spa pillows, stainless steel hardware and other critical parts.

WHY ARE CHEMICALS IMPORTANT IN A SWIM SPA

1. EVAPORATION:

As water evaporates, only pure water evaporates, leaving the salts, minerals, metals, and any unused chemicals behind. Adding water adds more salts, minerals, and metals. In time, the water can become saturated with these dissolved solids and can cause stains or scale to form on the walls of the swim spa or a scale build up inside the equipment. Colored or cloudy water and possible corrosion of plumbing and fittings may also occur.

2. HEAT:

Heat causes much quicker evaporation and also will cause minerals and metals to precipitate out of solution.

3. AIR:

Dust and other airborne contaminants are introduced into the swim spa.

4. ENVIRONMENT:

The environment surrounding the swim spa can also impact the water quality. Items such as pollen, grass, sand, dirt, lawn fertilizer, airborne dust, insects, leaves, and pets can all affect the water quality of the swim spa.

5. BATHERS:

As the swim spa is used, bathers introduce contaminants to the water. Increased bather load, length of use and frequency will increase the amounts of contaminants added in to the water.

NOTE: The maintenance routines set forth in this manual may need to be adjusted depending on bather load and how much the swim spa is being used.

WATER MAINTENANCE – START-UP

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START UP STEPS

1. Your swim spa should be filled using a Pre-filter, which can be obtained from your local dealer. This Pre-filter will help remove many of the minerals existing in the water, which will make adjusting the water balance easier after a new fill. Never use more than 50% softened water when filling the swim spa.
2. During the initial filling of the swim spa, add a sequestering agent to combat suspended minerals in the water. The agents are sold under many different names such as Mineral Clear or Metal Protect. Allow water to circulate and filter for at least 30 minutes (or per bottle recommendations) before adding any other chemicals.
3. Test water for pH, total Alkalinity, and Calcium hardness. The pH should be 7.4 - 7.6 and the total Alkalinity 100 - 120 ppm. Calcium hardness levels should be maintained between 150 and 250 ppm (part per million).
4. Adjust pH and total Alkalinity (TA) utilizing the directions on the chemical bottles. Wait 15 minutes, test and adjust if necessary.
5. It may be necessary to retest and add additional chemicals to get to the proper levels in Step 3.
6. Add concentrated chlorinating granules* (sodium Dichlor-s-triazinetreone) to reach a Free Chlorine level of 5 to 8 ppm on initial start up to begin sanitizing the swim spa water. Bathers should not enter the swim spa until the chlorine levels drop below 5.0 ppm. Always refer to the chemical manufacturers dosage recommendations listed on the container. It is important not to add the chlorinating granules until the pH, alkalinity and calcium hardness have been adjusted to their proper levels.

*SPECIAL NOTE:

We recommend a minimum level of 2.0 ppm residual free chlorine be maintained in swim spa water. Always refer to the chemical manufacturer's dosage recommendations listed on the container.

When adding chlorine or non-chlorine shock/oxidizer always spread it across the water while the pumps are running.

The quantities of sanitizer and oxidizer shown in this manual are for 500 gallons and may have to be adjusted depending on the actual amount of water that your swim spa holds. See the Model Specifications section of this manual for the correct gallons of your swim spa.

The concentration of active ingredients in swim spa chemicals varies by manufacturer. The amounts of sanitizer suggested in this manual are based on swim spa chemicals that have the active ingredient percentages listed below:

Chlorine	Non-Chlorine Shock/ Oxidizer
Active ingredient:	Active ingredient:
Sodium dichlor 99%	Potassium peroxymonosulfate 42.8%
Other ingredients..... 1%	Inert ingredients 57.2%
Total 100%	Total..... 100%



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WATER MAINTENANCE – SCHEDULE

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BEFORE EACH USE

Check swim spa water with a test strip for proper sanitation levels and adjust accordingly to the proper levels. Free chlorine level should be 2.0 - 4.0 ppm. Appropriate levels should be present before use of the swim spa. Bathers should not enter the swim spa if total chlorine levels are above 5.0 ppm or if free chlorine levels are below 2.0 ppm.

ONCE A WEEK

Add non-chlorine shock/oxidizer* or chlorine* to swim spa to help maintain the water quality.

3 TIMES A WEEK

Test water using chemical test strips. Adjust sanitizer, pH and Alkalinity accordingly. The total alkalinity should be between 100 - 120 ppm and the pH should be between 7.4 - 7.6. If free chlorine level measures less than total chlorine level, additional non-chlorine shock/oxidizer* treatment is necessary.

ONCE A MONTH

Soak your regular filter elements overnight in a container with swim spa Filter Cleaner and then rinse with clean water. For best results, allow the filter to dry before re-inserting. (The EcoPur® element should never be cleaned in a filter cleaner. Just rinse with water.) When cleaning filters, be sure to never have the pumps (including the circulation pump) running without the filters in place. Failure to do so may result in debris being drawn into the pumps causing unwarranted damage. See Cleaning Your Filter Elements in the Maintenance section of this manual for more information.

EVERY 180 DAYS

Drain and refill your swim spa with fresh water, install a new EcoPur® filter element, clean the regular filter, and repeat start up procedure. The regular filter should be replaced at least once every year.

AFTER EACH USE

Add non-chlorine shock/oxidizer* or chlorine* to the swim spa water.

*SPECIAL NOTE:

We recommend a minimum level of 2.0 ppm residual free chlorine be maintained in swim spa water. Always refer to the chemical manufacturer's dosage recommendations listed on the container. When adding chlorine or non-chlorine shock/oxidizer always spread it across the water while the pumps are running.

The quantities of sanitizer and non-chlorine oxidizer shown in this manual are for 500 gallons and may have to be adjusted depending on the actual amount of water that your swim spa holds. See the Model Specifications section of this manual for the correct gallons of your swim spa.

The concentration of active ingredients in swim spa chemicals varies by manufacturer. The amounts of sanitizer suggested in this manual are based on swim spa chemicals that have the active ingredient percentages listed below:

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Other ingredients..... 1%	Inert ingredients 57.2%
Total..... 100%	Total.....100%

WATER MAINTENANCE – SCHEDULE

AS NEEDED

If water looks hazy, check pH and Total Alkalinity, and treat with chlorine*. Always refer to the chemical manufacturer's dosage recommendations listed on the container. Free chlorine levels should be maintained between 2.0 - 4.0 ppm.

These are general recommendations for water maintenance that may vary by usage and bather load. Depending on bather load and frequency of use, drain and refill times may vary as well as the frequency of cleaning your filters.

A defoamer may be used when excessive foaming occurs. Over use of a defoamer will result in cloudy, milky water.

USE ONLY SWIM SPA CHEMICALS

Do not use chemicals designed for use in swimming pools. Swim spa chemicals are the same as spa chemicals.

With a swim spa you are working with a small volume of hot water compared to a large volume of relatively cool water in a swimming pool. Because of this, chemicals will have a shorter life span and bacteria can grow more quickly than in a swimming pool. A swim spa is less forgiving than a pool and requires that whatever is put into it have a pH as close to neutral as possible. That is why only chemicals made for swim spas should be used. Always refer to the chemical manufacturer's dosage recommendations listed on the container.

*SPECIAL NOTE:

We recommend a minimum level of 2.0 ppm residual free chlorine be maintained in swim spa water. Always refer to the chemical manufacturer's dosage recommendations listed on the container.

When adding chlorine or non-chlorine shock/oxidizer always spread it across the water while the pumps are running.

The quantities of sanitizer and oxidizer shown in this manual are for 500 gallons and may have to be adjusted depending on the actual amount of water that your swim spa holds. See the Model Specifications section of this manual for the correct gallons of your swim spa.

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Chlorine	Non-Chlorine Shock/ Oxidizer
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Sodium dichlor 99%	Potassium peroxymonosulfate 42.8%
Other ingredients..... 1%	Inert ingredients..... 57.2%
Total..... 100%	Total..... 100%



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WATER MAINTENANCE – TROUBLE-SHOOTING GUIDE

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PROBLEM	POSSIBLE CAUSES	HOW TO FIX IT
CHLORINE ODOR	Excessive chlorine	Shock water with oxidizer/non-chlorine shock treatment
	Low pH	Adjust pH if necessary
WATER ODOR	Low levels of sanitizer	Adjust sanitizer level with chlorinating granules
	pH out of range	Adjust pH if necessary
	Bacteria or algae growth	If sanitizer has already been adjusted, it may be necessary to perform a system flush
CLOUDY WATER	Dirty filters or inadequate filtration	Clean filters with filter cleaner and adjust filtration
	Unbalanced water chemistry	Test and adjust chemistry levels
	Old water	Drain, clean inner shell and refill with filtered water
CLOUDY AND GREEN WATER	Total alkalinity levels are low	Use a pH increaser
	Sanitizer levels are low	Apply oxidizer/non-chlorine shock treatment and adjust sanitizer
CLEAR GREEN WATER	High iron or copper content	Use a sequestering agent
	Sanitizer levels are low	Apply oxidizer/non-chlorine shock treatment
BROWN WATER	High iron or manganese level	Use a sequestering agent
FOAMING	High levels of body oils, lotions, soap, etc.	Add small amount of defoamer, an enzyme product and check water chemistry
	Low calcium hardness	Use a calcium hardness increaser
	Unbalanced water chemistry	Test and adjust chemistry levels
EYE OR SKIN IRRITATION	Unsanitary water	Adjust water chemistry according to testing results
	Total chlorine level above 5 ppm	Apply oxidizer/non-chlorine shock treatment
	Poor sanitizer/pH levels	Adjust pH level as necessary
SCUM DEPOSITS AT WATERLINE	Body oils and dirt	Use multi-purpose cleaner to clean swim spa surface and add enzyme product to swim spa water
CHALKY, WHITE SCALE DEPOSITS	Minerals present in the water and lack of sequestering agent use	When tub is drained, use a multi-purpose cleaner or white vinegar and scrub with a soft cloth
PITTING OF METAL FIXTURES	Low pH or total alkalinity	Check water chemistry and adjust

RECOMMENDED RANGES FOR BALANCED WATER

This table shows the ideal balanced measurements that you are looking for in your testing results. Parts per million (ppm), is a form of measurement used in most pool and swim spa chemical readings. This is equivalent to one milligram of concentration per liter of water.

Total Alkalinity	80 - 150 ppm
pH	7.2 - 7.6
Chlorine	2 - 4 ppm
Bromine	3 - 5 ppm
Calcium Hardness	180 - 250 ppm

*Recommended levels stated in this manual are based on industry standards for permanently installed and portable residential swim spas.

REGULAR MAINTENANCE PROCEDURES

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NOTE: These maintenance procedures are the responsibility of the swim spa owner to perform. These procedures are not covered by the swim spa warranty.

DRAINING YOUR SWIM SPA

Due to the physical size of the swim spa, we recommend draining your swim spa with a submersible sump pump. Draining your swim spa with a conventional spa drain is not a reasonable option. When draining the Momentum 80 swim spa always drain the water from the spa side before draining the swim side. Your swim spa requires periodic draining and cleaning to ensure a safe, healthy environment. It is recommended that you clean your swim spa at least every 180 days. Heavy bather load will require cleaning it more often.

STEPS FOR USING A SUMP PUMP*

1. Turn off power to your swim spa at the GFCI breaker.
2. Carefully lower submersible pump with hose connected into the lowest point of swim spa, taking care not scratch or gouge your spa swim shell (for Momentum model with the clear divider between the spa end and swim end, always pump out the spa side first and then the swim side).
3. Run the discharge end of the hose from your submersible pump to a desired location several feet away from your swim spa, where the water will drain away from foundation that the swim spa is resting on.
4. Plug in/turn on your submersible pump.
5. Turn off/disconnect your submersible pump once it is no longer able to suck up any further water (indicated by a suctioning sound and water no longer coming out of the drainage hose). If you plan to fully wipe down and clean your entire swim spa shell, a shop vac can be used to remove the remaining small pockets of water in the swim spa.

*Sump Pump is not provided with spa.

SWIM SPA SURFACE CARE

- Clean the spa shell, jets and other controls with a soft cloth and spa shell cleaner to help remove residue and buildup on the shell surface. For mineral based buildup, white vinegar or mild scale remover product may be necessary to use with a soft cloth for removal. Consult with your local Master Spas dealer for proper swim spa cleaning products.
- Rinse the cleaned surfaces with fresh water from your garden hose and wipe with soft cloth as doing so will help remove residual cleaning agents (as some may cause foaming to occur in the water once refilled).
- Always use an approved insulating swim spa cover by Master Spas to cover your swim spa when not in use, especially in outdoor installations where the swim spa is exposed to weather conditions and sun. Constant, prolonged exposure and use of unapproved or non-insulating swim spa cover can result in damage to swim spa surface which would not be warranted.

REFILL YOUR SWIM SPA

- When filling the Momentum swim spa always fill the swim side of the unit before filling the spa side.
- Refer to the Water Maintenance Start-Up section for specific instructions.

REGULAR MAINTENANCE PROCEDURES

▶ WATCH HOW-TO VIDEOS: masterspas.com/video-tutorials

NOTE: These maintenance procedures are the responsibility of the swim spa owner to perform. These procedures are not covered by the swim spa warranty.

CLEANING JETS



The majority of jets in your swim spa can individually be turned on/off. If any of these jets become hard to turn, it will be necessary to remove the jet to clean it as grit/sand and mineral deposit may be present.

The jets in your swim spa can be removed for cleaning by turning them counter-clockwise until they release and then pulling out the jet.

TO CLEAN JETS: Place the jet(s) in a container, fully immerse in white vinegar. Let the jet(s) soak overnight and then rinse with water. It may be necessary to clean grit and deposits from the white jet body (mounted in the swim spa shell) by using a small bristled brush.

CLEANING DIVERTER VALVES



Mineral deposits, grit and sand may get into the internal parts of the diverter valves over time. The diverter valves may become difficult to turn or not turn at all.

CAUTION – TURN OFF SWIM SPA BEFORE PROCEEDING WITH THIS MAINTENANCE.

FOLLOW THE STEPS BELOW:

1. Remove the handle from the top of diverter valve by grasping the handle and pulling up with a rocking motion.
2. Turn the cap piece counter-clockwise. It may be necessary to put a clean towel over the cap and turn it with a wrench.
3. Once loose, the cap, internal rotor assembly and handle can be pulled up out of the white plumbing fitting.
4. Wipe down the internal rotor assembly that attaches to the cap and handle.
5. Soak the internal rotor assembly in white vinegar.
6. The inner wall of the white plumbing fitting should also be wiped down. If the surface of the white plumbing has become too abrasive, you can take wet, fine sandpaper and smooth it out.
7. Rinse the diverter internals. Inspect O-rings for cracking or swelling and apply silicone lubricant to them. Then reassemble.

NOTE: It is helpful to turn the diverter valve only when the pump is not on. Cleaning your diverter valve should occur every time you drain your swim spa. Refer to Draining Your Swim Spa in the Regular Maintenance Procedures section.

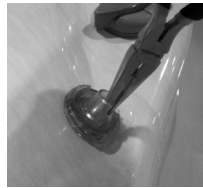
REGULAR MAINTENANCE PROCEDURES

NOTE: These maintenance procedures are the responsibility of the swim spa owner to perform. These procedures are not covered by the swim spa warranty.

CARE OF LAMINAR FLOW JETS:

In order to keep your Laminar Flow Jets operating properly, follow these steps:

1. Turn off Laminar Flow Jets.
2. Remove outer ring by turning face counter-clockwise.
3. Remove internal Jet insert with a pair of needle nose pliers.
4. Clean plastic filter at the back of the Jet insert so all holes are free of debris.
5. Reinstall Jet insert and outer ring.



NOTE: To prevent premature failure of your swim spa cover and the possibility of water running out of the swim spa off the bottom of the cover, always turn Laminar Flow Jets down so that they do not hit the cover when the cover is closed. You do not want to completely turn jets off. Doing so may cause a build up of stagnant water in the water line if not used often.

CLEANING YOUR FILTER ELEMENTS

The filter elements are one of the most important components of your swim spa. Not only are they essential for clean water, but they also extend the life of the swim spa equipment. Your filter elements should be cleaned on a regular basis, at least once a month on average with normal usage. With heavy use, poor water quality and/or high dissolved solid content in water, the filters may need to be cleaned more often.

NOTE: Never operate the swim spa without the filters installed. Damage to the pumps and other components could result from operation without filters installed.

NOTE: Do not soak the EcoPur filter in a filter cartridge cleaner. Rinse off only.

1. Turn power off to the swim spa before servicing filters. Never leave to the spa running when removing the filters. Debris can be pulled into the plumbing system and cause unwarranted damage.
2. Remove any large or floating debris from the filter area. Next, match your filter housing to the following photos on the next page to finish steps for removing filter element(s).

REGULAR MAINTENANCE PROCEDURES

NOTE: These maintenance procedures are the responsibility of the swim spa owner to perform. These procedures are not covered by the swim spa warranty.

Filter Weir with Front Access



Slide Faceplate Up and Out Slowly to Remove



Allow the Weir Door to fall back towards the filters in order to remove the filter housing.



Pull Up on Plastic Skimmer Plate to Remove



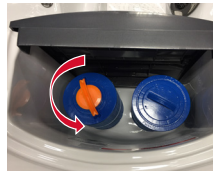
Turn Filter Counter-clockwise to Remove

NOTE: When lifting the housing, be careful not to lift too far, as you could break the floating weir door. Damage to weir door is not warranted.

Filter Weir with Top Access



Remove Filter Lid



Turn Filters Counter-clockwise to Remove

Vane Teleweir Filter Housing



Pull Up to Remove Floater Assembly



Turn Filters Counter-clockwise to Remove

CLEANING YOUR FILTER ELEMENTS (continued)

3. With a garden hose, spray each element under pressure. Monthly, the standard filter elements should be soaked in a filter cleaner. Do not soak EcoPur® element in a filter cleaner. The EcoPur® element should only be rinsed with fresh, clean water if necessary. Check with your Master Spas dealer for details on cleaning and/or filter replacement recommendations.
4. The EcoPur® element should be replaced every 6 months. The standard filter should be cleaned regularly and will typically last approximately 1 year. Bather load, usage and water quality will effect the longevity of the filters and require more frequent cleaning or replacement.

REGULAR MAINTENANCE PROCEDURES

NOTE: These maintenance procedures are the responsibility of the swim spa owner to perform. These procedures are not covered by the swim spa warranty.

CLEANING THE CLEAR ACRYLIC DIVIDER (Momentum)

- The surface should be first flushed with clean water to remove loose abrasive particles. The clear acrylic sheet should then be gently sponged with a mild soap/water solution and finally rinsed with clean water. Care must be taken not to leave any of the soap residue in the swim spa as it could cause the swim spa water to foam during operation.
- Drying can be done with a clean soft cotton towel. Avoid hard rough cloths or paper towels since they can put fine scratches on the acrylic surface.
- Do not use any aggressive solvents (lacquer thinner, gasoline, acetone and etc.) on the clear acrylic sheet. These products can cause damage to the sheet that may not be visible until days or weeks later.
- Window glass cleaning compounds are not recommended. Cleaning products that contain any type of abrasive material should not be used.

CARE OF ACRYLIC LED LIT HANDRAILS

Special care should be given to the Acrylic LED Lit Handrails so that they maintain their attractive appearance and durability for the life of your swim spa.

- During draining and cleaning process, wipe down the handrails with a mild dishwashing detergent or spa shell surface cleaner and a clean soft cloth, applying light pressure. Rinse with clean water and blot dry with a dry soft cloth. Remove as much residual soap as possible from swim spa to prevent foaming when refilled.
- Scale and mineral (i.e. calcium) buildup can be removed using white vinegar and soft cloth. Rinse with clean water and blot dry with a soft cloth.
- Maintain the surface gloss of the acrylic and lessen scratches by occasionally polishing with a plastic cleaner and polish. Apply a thin even coat with a clean soft cloth and polish lightly with cotton flannel. Then wipe with damp, soft cloth. This is recommended to do after swim spa is drained for cleaning.
- To remove deeper scratches, first sand lightly with 400-grit wet sandpaper, using plenty of water and rinsing the sandpaper often. Next, follow the steps for applying plastic polish above (if necessary, do so when swim spa is drained).

NOTE: Do not use window cleaning spray, kitchen scouring compounds, or solvents such as acetone, gasoline or lacquer thinner. The clear handrail does have limited resistance to Isopropyl alcohol up to 50% grade. If used, limit the exposure time to prevent damage and do not expose to more than 50% grade.

CARE OF YOUR SWIM SPA PILLOWS

- Your swim spa pillows should be rinsed periodically to remove chemical residue. This helps improve pillow lifespan and slows down deterioration of the pillows (i.e. discoloring, becoming stiff and flaking of the material).
- If the swim spa will not be used for a period of time, the pillows could be removed and rinsed to prolong their life.

NOTE: Do not cover the swim spa for 15 minutes after adding chemicals as the off gas can cause damage.

REGULAR MAINTENANCE PROCEDURES

NOTE: These maintenance procedures are the responsibility of the swim spa owner to perform. These procedures are not covered by the swim spa warranty.

CARE OF STAINLESS STEEL

Master Spas uses stainless steel in a number of our swim spas. Its lasting beauty and resistance to corrosion make it an excellent material for handrails and jets faces.

With the proper care it will keep its luster for many years. All stainless steel can corrode given the right circumstances so we have provided a guide to help you keep the stainless components in your swim spa looking nice.

Stainless steel derives its ability to resist corrosion by forming a very thin transparent coating on the surface when exposed to oxygen. This coating can be damaged by abrasive materials such as steel wool, sand paper, and other cleaning materials that are abrasive. Chlorine salts, sulfides, or other rusting metals can also erode this thin coating exposing the metal to corrosion.

The best defense to combat corrosion on stainless steel components in your swim spa is make sure that it is kept clean and free of any chemical build up.

Always:

- Clean frequently with fresh, clean water.
- Remove any rust spots as soon as they appear with vinegar or a brass, silver, or chrome cleaner.
- Use a good car cleaning wax for extra protection.
- Leave cover removed for at least 15 minutes after adding chemicals to the swim spa water.

Never:

- Clean with mineral acids or bleaches.
- Clean with steel wool or any other abrasive material.
- Leave in contact with iron, steel any other metals.
- Close the cover immediately after adding chemicals to the water.

NOTE: Failure to take proper care of the stainless steel components could result with them rusting. Rusting is not covered by the warranty.

NOTE: Do not cover the swim spa for 15 minutes after adding chemicals as the off gas can cause unwarranted damage. Larger dosages can require longer lengths of time to off gas. It is recommended to check swim spa water more frequently to allow small dosages be added as necessary versus large dosages being added less often.

CARE OF YOUR SWIM SPA CABINET

The swim spa cabinet is made from a UV resistant material. The cabinet requires only periodic cleaning with a stream of water from a garden hose.

CARE OF YOUR OZONE SYSTEM

The ozone hose and check valve connecting between the ozone generator and ozone injector should be inspected and/or replaced, if necessary, every 12 months. Depending on conditions of the air which is being brought in to the ozone generator, the ozone hose and check valve can wear more rapidly. This regular maintenance is not covered under the swim spa warranty. We recommend that your Master Spas Dealer or Service Center be contacted to perform this type of maintenance.

REGULAR MAINTENANCE PROCEDURES

NOTE: These maintenance procedures are the responsibility of the swim spa owner to perform. These procedures are not covered by the swim spa warranty.

CARE OF YOUR SWIM SPA COVER

Always cover your swim spa when not in use with an approved insulating swim spa cover by Master Spas. This will greatly reduce energy consumption and will cause swim spa water to heat more rapidly. Water loss and chemical usage will also be reduced.

- Be sure to lock down all straps on the cover after each use.
- Do not allow swim spa to sit uncovered in direct sunlight. This may cause damage to exposed surfaces of swim spa and discoloration of swim spa fittings.
- Periodically hose off both sides of swim spa cover for maximum life of cover. Once a month use a vinyl cleaner and conditioner on the vinyl portion of your cover. Rinse residue off. See cover manual instructions for detailed instructions on proper cover care.
- Keep cover open for 15 minutes after adding chemicals to prevent off gas damage.

NOTE: If your swim spa is going to be left empty for prolonged periods, do not replace cover directly on surface of swim spa. Place 2"-3" blocks between cover and swim spa. This allows for adequate ventilation of cover and swim spa.

NOTE: The cover warranty is not part of the limited warranty provided with the swim spa. It is provided through the cover manufacturer and may not be through Master Spas. Check the tags and labeling on your cover to verify manufacturer and refer to the manufacturer's care, maintenance and warranty information. Your dealer can help provide you with these details.

NOTE: Always turn water feature valve down so that the water features do not hit the cover when the cover is closed.

CARE OF EXERCISE EQUIPMENT

The included exercise equipment accessory package makes it easy to exercise in your own backyard. This kit is located in a box inside your swim spa cabinet near where you found your owner's manual and manufacturer warranty documents. There are shell mounted clips that are used to fasten the rowing equipment to the swim spa. These clips are located along the sides of your swim spa next to the grab rails that are placed around the perimeter of the swim area. Be sure to read the included materials for instructions on utilizing this equipment in your swim spa.

CAUTION: Do not leave exercise equipment inside the swim spa when not in use. Do not leave exercise equipment outside exposed to sun and UV. Failure to follow the above guidelines could result in injury.

CAUTION: Inspect exercise equipment before each use for deterioration and unsafe conditions. Do not use if significant deterioration and unsafe conditions exist (i.e. cracking and break down in bungee strap material caused by use, water conditions and care). Replacement exercise kits can be purchased through your Master Spas dealer. Failure to follow the above guidelines could result in injury.

SWIM SPA TROUBLE SHOOTING GUIDE

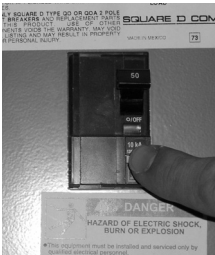
NOTE: For wiring outside of U.S. and Canada, GFCI may be referred to as a RCD (residual current device). Be sure all local electrical codes are followed.

GFCI IS TRIPPING

A ground fault circuit interrupter (GFCI) is required by the National Electrical Code for your protection. The tripping of the GFCI may be caused by a component on the swim spa or by an electrical problem. Electrical problems include but are not limited to, a faulty GFCI breaker, swim spa component, power fluctuations, and/or improper wiring. If this is a new electrical service and GFCI installation, an instantly tripping GFCI may likely be caused by improper wiring of the load neutral from the GFCI to the swim spa. It may be necessary to contact an electrician if your Master Spas dealer recommends doing so.

NOTHING ON THE SWIM SPA OPERATES

1. Check the control panel display for any messages. If there is a message, refer to the diagnostic section on that model swim spa. There, you will find the meaning of the message and what action is to be taken.
2. If there is no message on the control panel and the control panel is completely dark (off), try to reset the GFCI breaker.



The GFCI should be located in a weather proof box within sight from the swim spa, but not close enough to reach from within the swim spa (consult NEC and licensed electrician).

NOTE: If your swim spa requires 2 independent electrical services (shown in the Model Specifications and appropriate Electrical Requirements Configuration), be sure to check all breakers for your swim spa.

If the swim spa does not respond, or the GFCI breaker continues to trip, contact your local Master Spas dealer or service organization.

SWIM SPA TROUBLE SHOOTING GUIDE

NOTE: For wiring outside of U.S. and Canada, GFCI may be referred to as a RCD (residual current device). Be sure all local electrical codes are followed.

SWIM SPA NOT HEATING

If the swim spas heater has failed, the majority of the time it will trip the GFCI breaker. If the swim spa is not heating and has not tripped the breaker, please follow these steps:

1. Check water set temperature at control panel to make sure it is set to desired temperature, above the current water temperature.
2. Check the "Heat Mode" that the swim spa is set in. The swim spa should be set in the Standard Mode or Ready Mode depending on the model.
3. Check the control panel for heat indicator. If heat indication is on, wait a reasonable amount of time (at least 1 hour) to see if the water temperature is rising.
4. If heat indicator does not remain on, the system should be displaying a message indicating why it can't heat. Check the control panel for diagnostic messages. Refer to Spa Control Section titled System Related Messages. Follow steps to alleviate the message.
5. Check the control panel for light indicator. Wait a reasonable amount of time (at least 1 hour) to see if the water temperature is rising.
6. Reset power to the swim spa at GFCI breaker.
7. If swim spa is still not heating, contact your local Master Spas dealer or service organization.

PUMP(S) DO NOT OPERATE

1. Press the "Jets" button on your control panel.

If you hear the pumps trying to operate:

- A. Check that all the slice valves are open.
- B. Pump may need to be primed.

Refer to Installation Instructions section. If you do not hear anything from the pump, contact your local Master Spas dealer or service organization.

POOR JET PERFORMANCE

1. Make sure pump is operating.
2. Check that the water level is adequate (at least to minimum safe water level on sticker located near filter.)
3. Make sure the jets are open and the air controls are open.
Refer to Glossary of Swim Spa Technology section.

WINTERIZING & STORING YOUR SWIM SPA

WINTERIZING YOUR SWIM SPA

Your swim spa is designed to be used year round in any type of climate.

However, if you decide you don't want to use your swim spa in the winter, you must drain it and follow the winterizing steps listed below.*

DISCLAIMER: *Master Spas does not recommend winterizing your swim spa. If you choose to do so, any damage that may result is not covered under the swim spa warranty.*

1. Drain your swim spa. Refer to instructions in Regular Maintenance Procedures.
2. Use a shop vac to get all standing water out of your unit.
3. Remove access panels from equipment area.
4. Loosen all pump unions.
5. Remove winterizing plug from face of the pump(s) where applicable.
6. Using your shop vac in a blowing mode, insert the hose into the nozzle of each jet and blow the trapped water from the lines into the interior of the swim spa. A non-toxic, RV water line type antifreeze can be used and added to jets in each seat around your swim spa to help prevent freeze damage from occurring. Be sure to thoroughly flush the system before startup.
7. After this is completed, use the shop vac to remove any standing water in the swim spa and in the equipment area.
8. Clean the swim spa with a soft cloth and a non-abrasive swim spa surface cleaner.
9. Replace access panels.
10. Cover the swim spa to prevent water from entering it and check the swim spa periodically to be sure no water is entering and accumulating. Swim spa covers are a great insulator but will allow some precipitation to enter the swim spa. For this reason, it is highly advised to also cover the swim spa with a water tight tarp while winterized. It is beneficial to keep the swim spa cover slightly gapped off the acrylic shell while winterized to allow air flow in to the shell area to reduce mildew/mold buildup caused by trapped moisture.

* If you decide to winterize your swim spa, we recommend that you periodically check the swim spa throughout the winter to assure water is not entering the swim spa through or around the swim spa cover.

STORING YOUR SWIM SPA

The swim spa shell should never be left unprotected and uninsulated while being stored. Clear plastic wrap or similar material should never be used to cover/protect the swim spa.

Prolonged, direct sun heat can damage the surfaces of the swim spa along with any components on the swim spa's surface. Always keep the swim spa covered and protected with an insulating swim spa cover. Resulting damage such as cracking in the shell surface, warping or discolored components on the swim spa would not be warranted.

An empty swim spa should never be exposed to temperatures below 0°F (-18°C) after delivery as extreme cold can cause shell damage. This includes storage and draining (winterizing). If your swim spa will be exposed to these temperatures, keep the unit filled and running. If you do not plan to use your swim spa, you can set the swim spa to the lowest temperature setting allowed by the control system while in Standard/Ready Mode.

Failure to adhere to these guidelines may result in unwarranted damage caused to the swim spa.

MODEL SPECIFICATIONS

Model	Listing Number	Swim Spa Dimensions (in./cm)	Electrical Requirements ¹	Seating Capacity ²	Water Capacity (gallons/m ³) ³	Dry Weight (lbs./kilos) ⁴	Full Weight (lbs./kilos) ^{3,4}	Therapy Pumps
MP FORCE	8600	201" x 94" x 51" 511 x 239 x 130	Configuration # 3 240V, 50A SVC*	5	1660 / 6.28	2490 / 1129	17260 / 7829	2
MP FORCE D	1420	201" x 94" x 60" 511 x 239 x 153	Configuration # 3 240V, 50A SVC	5	1935 / 7.32	2685 / 1218	19750 / 8959	2
MP SIGNATURE D	8900	215" x 94" x 60" 547 x 239 x 153	Configuration # 3 240V, 50A SVC	5	2275 / 8.61	2795 / 1268	22695 / 10295	2
MP SIGNATURE D WITH WAVE XP PRO	8900	215" x 94" x 60" 547 x 239 x 153	Configuration # 7 240V, 50A GFCI & 240V, 50A SVC	5	2275 / 8.61	2795 / 1268	22695 / 10295	2
MP MOMENTUM 80	8700A - Spa 8700B - Swim	231" x 94" x 51" 587 x 239 x 130	Configuration # 5 240V, 50A SVC & 240V, 30A GFCI	7 5 - Spa 2 - Swim	2,055 / 7.78 270 / 1.02 - Spa 1785 / 6.76 - Swim	3280 / 1488	21720 / 9852	3
MP MOMENTUM 80 D	1250A - Spa 1250B - Swim	231" x 94" x 60" 587 x 239 x 152	Configuration # 5 240V, 50A SVC & 240V, 30A GFCI	7 5 - Spa 2 - Swim	2,325 / 8.80 275 / 1.04 - Spa 2,050 / 7.76 - Swim	3700 / 1678	24390 / 11063	3

¹As configured from factory. See appropriate Electrical Requirements section for further details.

²Total bather capacity in swim spa. The number of bathers in swim spa should never exceed indicated seating capacity. Depending on swim spa size, water level and bather displacement; full seating capacity may not be achievable. Do not allow additional bathers to enter if bather displacement results in water levels overflowing or reaching the swim spa controls (air controls, diverters, swim spa topside control and etc.) as this will result in water leaking out of the swim spa shell and potentially in to the equipment area.

³Full weight based on dry weight of swim spa, max seating capacity of swim spa, assumed average weight per person of 185 pounds and estimated water weight of 8.34 pounds per gallon. Rounded up in increments of 5.

⁴Manufacturing tolerances along with other factors can result in variance in actual swim spa weight. If weight is a critical figure necessary for delivery, or final installation, we suggest a minimum of 15% be added to the listed weight when planning delivery or installation.

SITE PREPARATION / GENERAL GUIDELINES

Swim spa installation is simple when properly planned. It is important that you read the following information carefully and consult with your Master Spas dealer.

- 1. ACCESS:** The actual dimensions of your new swim spa will determine the amount of space that is needed in moving the swim spa from curbside to its final installation area. Be sure to consider and measure side yard dimensions, gates, doors, overall room dimensions and vertical obstructions such as ceilings, roof overhangs, balconies and overhead cables. Any other space limiting obstacles such as stairs, trees, and shrubs must also be evaluated. Please be sure to contact and review these site and installation plans with your Master Spas dealer prior to delivery.
- 2. SURFACE/PAD REQUIREMENTS:** When your new swim spa is filled with water and bathers, it may weigh as much as several tons. It is imperative that the base beneath the swim spa can support the entire weight. The swim spa must be on a uniformly firm, continuous, and level surface. The recommended foundation is a concrete pad with a minimum thickness of four inches with steel reinforcement bars crossed throughout the pad.

IMPORTANT

When installing your swim spa indoors, on a wood deck, roof or balcony, load requirements need to be evaluated before installation. You should speak with a qualified contractor or your local building department to confirm that your surface is adequate for supporting a swim spa.

All sides of the swim spa must be accessible for regular maintenance or in the event that service is needed. Periodical maintenance checks require entry into the equipment bay. When possible, it is wise planning for the future to leave 3 feet of access on all sides of the swim spa in the event that your swim spa requires maintenance to allow ample room for service. Your swim spa warranty does not cover costs associated with improper access or gaining access to the swim spa.

GENERAL CONSIDERATIONS FOR OUTDOOR INSTALLATION

Again, proper planning will increase your total enjoyment factor with your new swim spa. Listed below are some additional items to consider when planning your installation.

- How swim spa will complement landscaping and vice versa
- View from inside swim spa and view of swim spa from inside of home
- Exposure to sunlight and shading from trees
- Privacy
- Getting to swim spa from house and return
- Proximity to dressing rooms and bathrooms
- Storage for swim spa chemicals
- Local building codes (if applicable)
- Power cable
- Appropriate materials and drainage around the swim spa to handle water presence and runoff

GENERAL CONSIDERATIONS FOR INDOOR INSTALLATION

Installing your swim spa indoors creates an entirely different set of considerations.

- Work with your Master Spas dealer and contractor to insure all local building, electrical and plumbing codes are met
- Plan for floor drains around your swim spa to drain off excess water runoff that will occur during normal use and for draining and cleaning your swim spa
- A ventilation fan may be necessary due to high humidity created by your swim spa
- Finished material in your swim spa room should also be capable of withstanding increased humidity

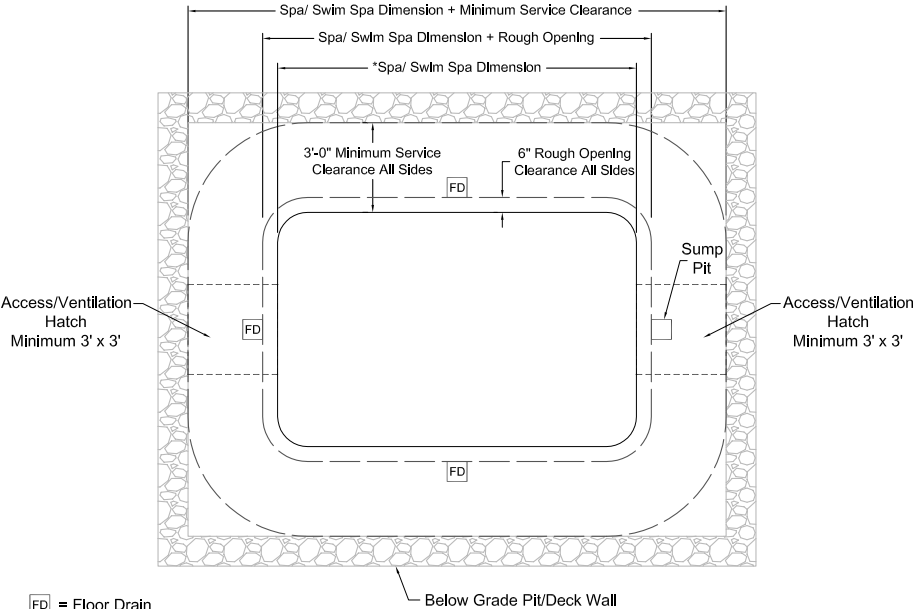
SITE PREPARATION / GENERAL GUIDELINES

GUIDELINES FOR PARTIALLY OR FULLY RECESSED INSTALLATION

Swim Spas manufactured by Master Spas are designed to be installed in a variety of settings. One of which is installing below grade. Should a swim spa be installed below the level of the site drainage system (below grade), a system for preventing water collecting and pooling must be designed based on the requirements of the local authority having jurisdiction. The drainage system must be designed based on things such as rainfall, water runoff, splashing, draining the swim spa, etc., that could potentially feed the below grade area with water. When located in designated floodways, additional attention to maximum water load entering the area below grade must be addressed to prevent water from accumulating below grade at all times. It is generally recommended that the swim spa be installed above grade because the swim spa is not designed to be submerged in water. When a proper drainage system is designed and proper ventilation is planned based on the characteristics of the site, installing the swim spa below grade is an accepted method of installation.

- The unit is self-supporting when placed on a surface designed to support the full load of the swim spa (see Surface/Pad Requirements). Do not backfill with sand, gravel, or earth. Doing so will void the warranty.
- Plan for complete drainage so that water accumulation drains away from the swim spa perimeter and standing water never reaches the electrical equipment.
- Plan for appropriate ventilation to remove moisture accumulation and prevent equipment overheat.
- Provide a minimum of 3 feet service area around the perimeter of the unit. Site access issues are not covered by the product warranty.
- The unit is not designed to be submerged in water. Water entering the equipment area creates many hazards and resulting damage will not be covered by the product warranty.
- Make sure that the surroundings do not create any additional hazards.
- Surfaces placed around the unit should also be evaluated for walking/slipping hazards from standing water. Proper drainage is vital to the installation of a below grade installation.
- Check all building, electrical, and plumbing codes with the authority having jurisdiction to ensure that your installation is in compliance with all local codes.
- Additional consideration needs to be made when installing unit in designed floodways.
- Verify that site specific drainage systems such as down spouts are not going to feed the area below grade.
- Below grade drainage system needs to be evaluated based on area specific rainfall. One size does not fit all so an analysis by a qualified, local engineer to ensure proper drainage of all sources of water is a must when installing below grade.

SITE PREPARATION / GENERAL GUIDELINES



- FD = Floor Drain
- = Access/ Ventilation Hatch (Min. 3' x 3')
- * = See "Model Specification" section of Owner's Manual for applicable Spa/ Swim Spa dimensions.

ELECTRICAL REQUIREMENTS

CONFIGURATION 3 - 240V, 50A SERVICE

NOTE: Electrical requirements by model is shown in Model Specifications. Only electrical configurations pertaining to the models referenced in this manual are shown.

ELECTRICAL REQUIREMENTS

HAVE YOUR ELECTRICIAN READ THE FOLLOWING INFORMATION BEFORE INSTALLATION BEGINS

Electrical connections made improperly, or the use of wire gauge sizes for incurring power which are too small, may continually blow fuses in the electrical equipment box, may damage the internal electrical controls and components, may be unsafe and in any case will void your warranty.

It is the responsibility of the swim spa owner to ensure that electrical connections are made by a qualified electrician in accordance with the National Electrical Code and any local and state electrical codes in force at the time of installation.

These connections must be made in accordance with the wiring diagrams found inside the control box. This equipment has been designed to operate on 60Hz alternating current only, 240 volts are required. Make sure that power is not applied while performing any electrical installation. A copper bonding lug has been provided on the electrical equipment pack to allow connection to local ground points. The ground wire must be at least 8 AWG copper wire and must be connected securely to a grounded metal structure such as a cold water pipe. The supply wiring to the swim spa must utilize a symmetrically grounded system. The swim spa must not be wired to electrical systems utilizing no ground (IT) or TN-C grounding. Be sure to have a licensed electrician examine and ensure proper grounding is provided. All Master Spas equipment packs are wired for 240 VAC only. The electrical service for your swim spa must include a 50 AMP switch or circuit breaker to open all non-grounded supply conductors to comply with section 422-20 of the National Electrical Code. A disconnect must be installed and be readily accessible to the swim spa occupants, but installed at least five feet from the swim spa. A Ground-Fault circuit interrupter (GFCI) must be used to comply with section 680-42 of the National Electric Code. A ground fault is a current leak from any one of the supply conductors to ground. A GFCI is designed to automatically shut off power to a piece of equipment when a ground fault is detected. The MP Swim Spas are equipped from the factory with a pre-installed 50A internal GFCI breaker and will not need to have one installed.

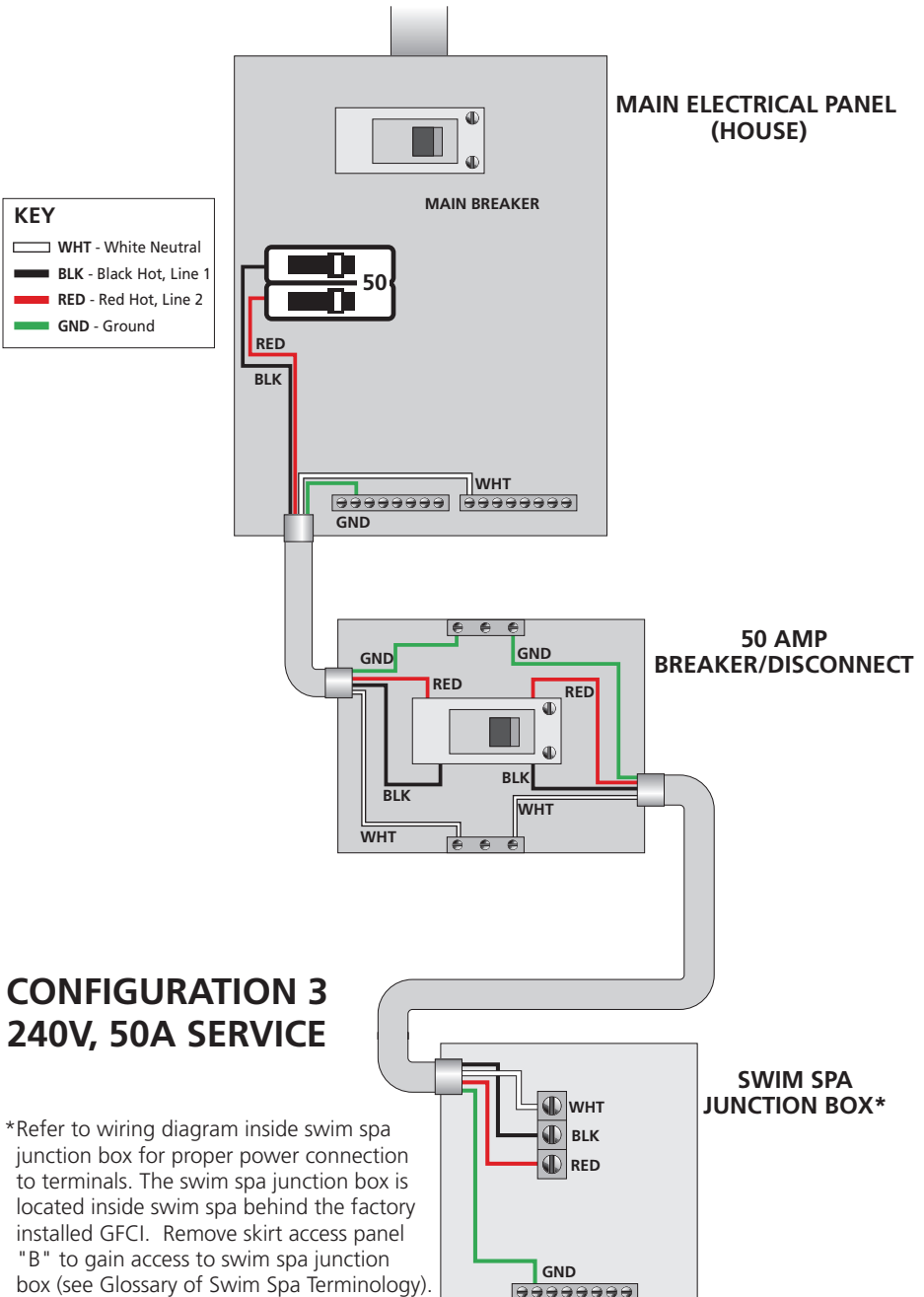
The 50A non-GFCI protected service must be 240 volt, 3 wire plus ground (#6 AWG copper with minimum #8 AWG copper ground).

Route service in to the swim spa junction box located inside the swim spa behind skirt access panel "B" (see Glossary of Swim Spa Terminology). Refer to wiring schematic inside swim spa junction box for proper power connections to terminals. The MP Swim Spas are equipped from the factory with a pre-installed 50A GFCI breaker to power the propulsion system and spa side equipment. The 50A non-GFCI protected service shall be connected to the appropriate terminals within the swim spa junction box which feed the internal 50A GFCI. This must be a "dedicated" service. The term "dedicated" means the electrical circuit for the swim spa is not being used for any other electrical items (patio lights, appliances, garage circuits, etc.). If the swim spa is connected to a non-dedicated circuit, overloading will result in "nuisance tripping" which requires resetting of the breaker switch at the house electrical panel.

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ELECTRICAL REQUIREMENTS

CONFIGURATION 3 - 240V, 50A SERVICE



ELECTRICAL REQUIREMENTS

CONFIGURATION 5 - 240V, 50A SERVICE & 240V, 30A GFCI SERVICE

NOTE: Electrical requirements by model is shown in Model Specifications. Only electrical configurations pertaining to the models referenced in this manual are shown.

ELECTRICAL REQUIREMENTS

This configuration requires 2 independent, dedicated services, a 240V, 50A Service (non-GFCI) & a 240V, 30A GFCI Service

HAVE YOUR ELECTRICIAN READ THE FOLLOWING INFORMATION BEFORE INSTALLATION BEGINS

Electrical connections made improperly, or the use of wire gauge sizes for incurring power which are too small, may continually blow fuses in the electrical equipment box, may damage the internal electrical controls and components, may be unsafe and in any case will void your warranty.

It is the responsibility of the swim spa owner to ensure that electrical connections are made by a qualified electrician in accordance with the National Electrical Code and any local and state electrical codes in force at the time of installation.

These connections must be made in accordance with the wiring diagrams found inside the control box. This equipment has been designed to operate on 60Hz. alternating current only, 240 volts are required. Make sure that power is not applied while performing any electrical installation. A copper bonding lug has been provided on the electrical equipment pack to allow connection to local ground points. The ground wire must be at least 8 AWG copper wire and must be connected securely to a grounded metal structure such as a cold water pipe. The supply wiring to the swim spa must utilize a symmetrically grounded system. The swim spa must not be wired to electrical systems utilizing no ground (IT) or TN-C grounding. Be sure to have a licensed electrician examine and ensure proper grounding is provided. All Master Spas equipment packs are wired for 240 VAC only. Each of the electrical services for your swim spa must include a properly rated switch or circuit breaker to open all non-grounded supply conductors to comply with section 422-20 of the National Electrical Code. A disconnect must be installed and be readily accessible to the swim spa occupants, but installed at least five feet from the swim spa. A Ground-Fault circuit interrupter (GFCI) must be used to comply with section 680-42 of the National Electric Code. A ground fault is a current leak from any one of the supply conductors to ground. A GFCI is designed to automatically shut off power to a piece of equipment when a ground fault is detected. The MP Swim Spas are equipped from the factory with a pre-installed 50A internal GFCI breaker and will not need to have one installed for the 50A service.

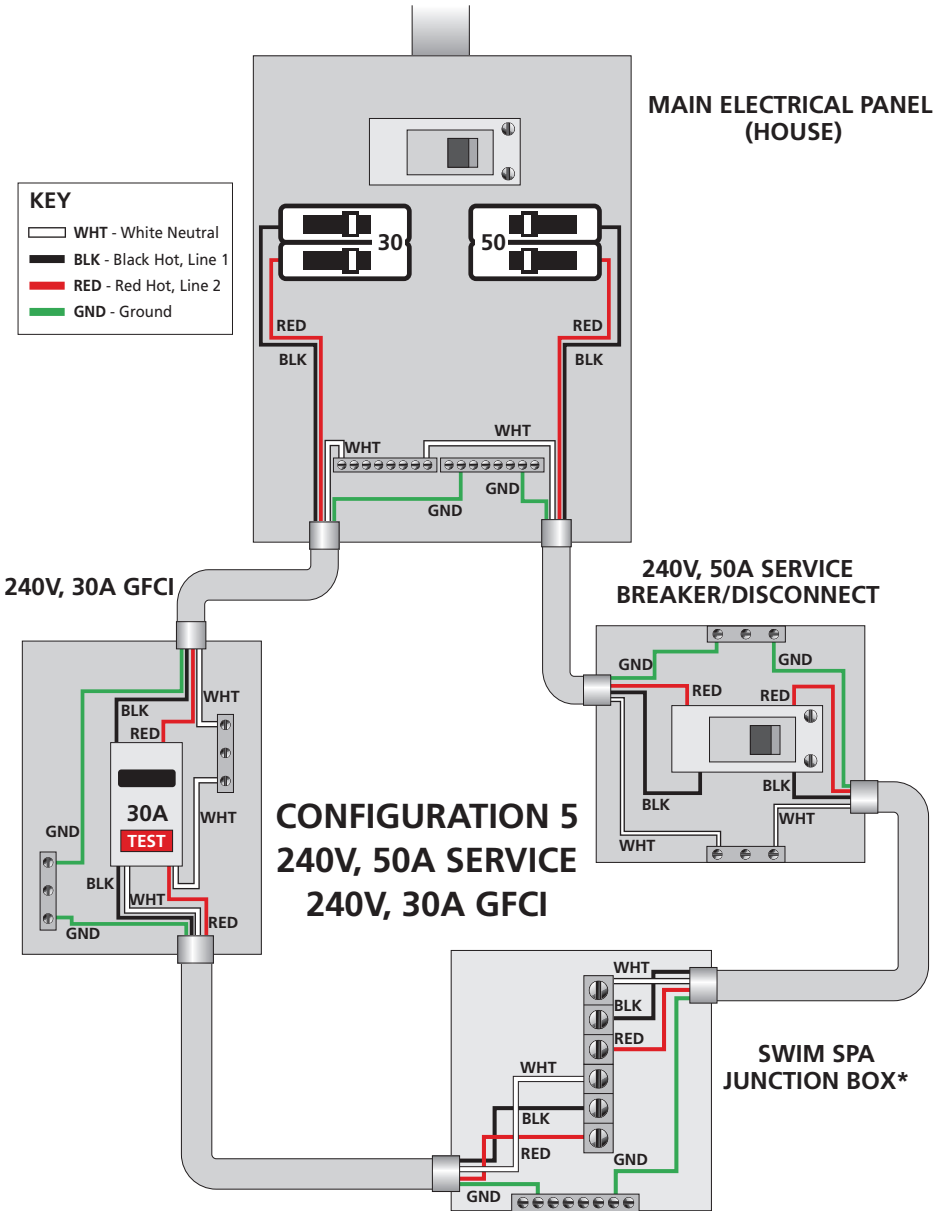
The 50A non-GFCI protected service must be 240 volt, 3 wire plus ground (#6 AWG copper with minimum #8 AWG copper ground). The 30A GFCI protected service must be 240 volt, 3 wire plus ground (#8 AWG copper).

Route services in to the swim spa junction box located inside the swim spa behind skirt access panel "B" (see Glossary of Swim Spa Terminology). Refer to wiring schematic inside swim spa junction box for proper power connections to terminals. The MP Swim Spas are equipped from the factory with a pre-installed 50A GFCI breaker to power the propulsion system and spa side equipment. The 50A non-GFCI protected service shall be connected to the appropriate terminals within the swim spa junction box which feed the internal 50A GFCI. The 30A GFCI protected service shall be connected to the appropriate terminals within the swim spa junction box to power the swim side equipment control system. These must be "dedicated" services. The term "dedicated" means the electrical circuit for the swim spa is not being used for any other electrical items (patio lights, appliances, garage circuits, etc.). If the swim spa is connected to a non-dedicated circuit, overloading will result in "nuisance tripping" which requires resetting of the breaker switch at the house electrical panel.

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ELECTRICAL REQUIREMENTS

CONFIGURATION 5 - 240V, 50A SERVICE & 240V, 30A GFCI SERVICE



*Refer to wiring diagram inside swim spa junction box for proper power connection to terminals. The swim spa junction box is located inside swim spa behind the factory installed GFCI. Remove skirt access panel "B" to gain access to swim spa junction box (see Glossary of Swim Spa Terminology).

ELECTRICAL REQUIREMENTS

CONFIGURATION 7 - 240V, 50A SERVICE & 240V, 50A GFCI SERVICE

NOTE: Electrical requirements by model is shown in Model Specifications. Only electrical configurations pertaining to the models referenced in this manual are shown.

ELECTRICAL REQUIREMENTS

This configuration requires 2 independent, dedicated services, a 240V, 50A Service (non-GFCI) & a 240V, 50A GFCI Service

HAVE YOUR ELECTRICIAN READ THE FOLLOWING INFORMATION BEFORE INSTALLATION BEGINS

Electrical connections made improperly, or the use of wire gauge sizes for incurring power which are too small, may continually blow fuses in the electrical equipment box, may damage the internal electrical controls and components, may be unsafe and in any case will void your warranty.

It is the responsibility of the swim spa owner to ensure that electrical connections are made by a qualified electrician in accordance with the National Electrical Code and any local and state electrical codes in force at the time of installation.

These connections must be made in accordance with the wiring diagrams found inside the control box. This equipment has been designed to operate on 60Hz. alternating current only, 240 volts are required. Make sure that power is not applied while performing any electrical installation. A copper bonding lug has been provided on the electrical equipment pack to allow connection to local ground points. The ground wire must be at least 8 AWG copper wire and must be connected securely to a grounded metal structure such as a cold water pipe. The supply wiring to the swim spa must utilize a symmetrically grounded system. The swim spa must not be wired to electrical systems utilizing no ground (IT) or TN-C grounding. Be sure to have a licensed electrician examine and ensure proper grounding is provided. All Master Spas equipment packs are wired for 240 VAC only. Each of the electrical services for your swim spa must include a properly rated switch or circuit breaker to open all non-grounded supply conductors to comply with section 422-20 of the National Electrical Code. A disconnect must be installed and be readily accessible to the swim spa occupants, but installed at least five feet from the swim spa. A Ground-Fault circuit interrupter (GFCI) must be used to comply with section 680-42 of the National Electric Code. A ground fault is a current leak from any one of the supply conductors to ground. A GFCI is designed to automatically shut off power to a piece of equipment when a ground fault is detected. The MP Swim Spas are equipped from the factory with a pre-installed 50A internal GFCI breaker to power the propulsion system and will only need a GFCI installed on the 50A service powering the spa control system.

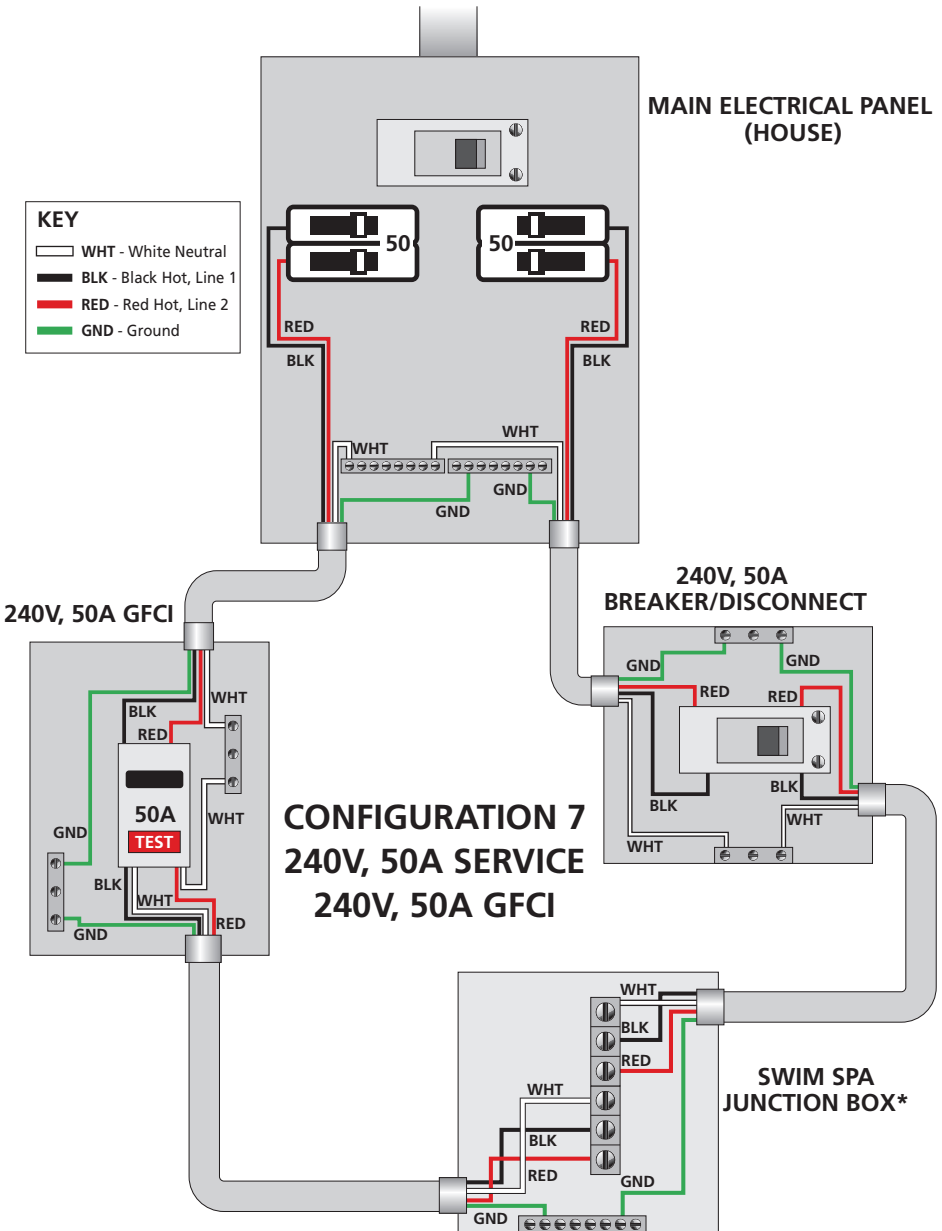
The 50A non-GFCI protected service must be 240 volt, 3 wire plus ground (#6 AWG copper with minimum #8 AWG copper ground). The 50A GFCI protected service must be 240 volt, 3 wire plus ground (#6 AWG copper with minimum #8 AWG copper ground).

Route services in to the swim spa junction box located inside the swim spa behind skirt access panel "B" (see Glossary of Swim Spa Terminology). Refer to wiring schematic inside swim spa junction box for proper power connections to terminals. The MP Swim Spas are equipped from the factory with a pre-installed 50A GFCI breaker to power the propulsion system. The 50A non-GFCI protected service shall be connected to the appropriate terminals within the swim spa junction box which feed the internal 50A GFCI. The 50A GFCI protected service shall be connected to the appropriate terminals within the swim spa junction box which power the swim spa control system. These must be "dedicated" services. The term "dedicated" means the electrical circuit for the swim spa is not being used for any other electrical items (patio lights, appliances, garage circuits, etc.). If the swim spa is connected to a non-dedicated circuit, overloading will result in "nuisance tripping" which requires resetting of the breaker switch at the house electrical panel.

201412

ELECTRICAL REQUIREMENTS

CONFIGURATION 7 - 240V, 50A SERVICE & 240V, 50A GFCI SERVICE



*Refer to wiring diagram inside swim spa junction box for proper power connection to terminals. The swim spa junction box is located inside swim spa behind the factory installed GFCI. Remove skirt access panel "B" to gain access to swim spa junction box (see Glossary of Swim Spa Terminology).

INITIAL SWIM SPA SETUP

▶ WATCH HOW-TO VIDEOS: masterspas.com/video-tutorials

SETUP STEPS

1. Put swim spa in final position that allows for access to equipment and swim spa components.
2. Remove skirt panels "A" and "B" to access the electrical connections inside the swim spa. The junction box (MP Swim Spas Only), swim spa control system(s) and majority of the equipment in your swim spa can be accessed by removing access panels "A" and "B". See Equipment Access Panel in Glossary of Swim Spa Terminology for diagram.

3. Be sure all pump and heater unions are secure. Each pump has 2 unions and the heater has 2 unions. A newly delivered swim spa may have loose unions caused in transporting the swim spa. Check that all slice valves are open, in the up position. The slice valves may become closed during transportation of the swim spa.



Slice Valve and Pump Union

4. Fill swim spa at least 1" above the filters or to the minimum water level indication sticker. This sticker is typically located on the shell of the swim spa near the filter area. On the Momentum swim spa model with a clear acrylic divider, it is recommended that the swim side be filled first and then the spa side. When draining the swim spa always drain the spa side before draining the swim side.

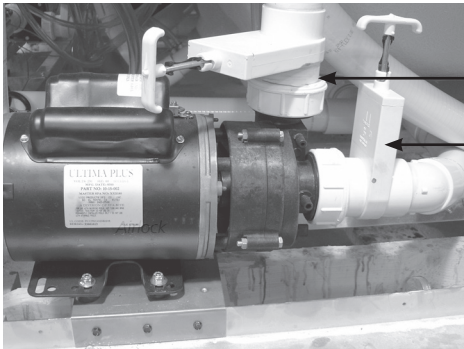
NOTE: In below freezing temperatures, caution should be taken when planning to install a swim spa and fill it with water. As it takes time for the water to fill the swim spa and reach the proper minimum water level, the water entering the various plumbing lines and equipment may begin to freeze up when done in winter weather conditions. This could result in pumps being seized until thawed or other potentially worse freeze damage occurring to the equipment and plumbing lines.

5. Turn on power to the swim spa. If your swim spa is equipped with two electrical supplies, make sure that they are both turned on. The swim spa will go through its priming mode. This lasts approximately 5 minutes. The purpose of the priming mode is to help insure that the jet pumps have been primed with water and are ready to operate. It may be necessary in some instances to bleed air from the jet pumps in your swim spa. If after the priming mode the swim spa pumps run but do not move water, the pump may have an air lock.

Due to the nature of water flow and hydro-therapy pumps, please be advised that air locking of pumps may occur. Master Spas has taken measures to reduce the possibility of this, but it still may occur, especially after filling the swim spa. This is not a service covered by the warranty and service charges may apply. See next page for instructions on how to relieve an airlock.

INITIAL SWIM SPA SETUP

▶ **WATCH HOW-TO VIDEOS:** masterspas.com/video-tutorials



Airlock

To relieve an airlock situation, loosen the pump union on the discharge of the pump. This pump union is indicated by an arrow in the picture. Water should leak out of the union once the air has been removed. Tighten the union and test the pump for proper operation. Repeat this process if needed.

6. Be sure the jets in your swim spa are open.
7. Adjust water chemistry according to the instructions provided in the Water Maintenance section.
8. Your swim spa water will heat approximately 1°F (0.5°C) per hour, on average, with the cover closed on the swim spa. Times may vary. This varies depending on the size of the swim spa and ambient temperatures.



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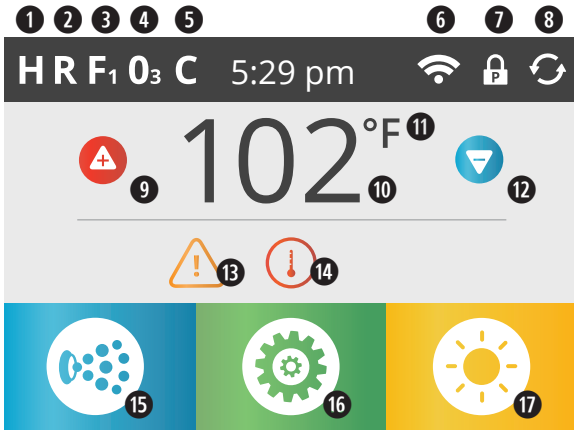
SWIM SPA CONTROLS - ICON SPA TOUCH

THE MAIN SCREEN



SWIM SPA CONTROLS - ICON SPA TOUCH

THE MAIN SCREEN



SWIM SPA STATUS

Important information about swim spa operation can be seen on the Main Screen. Various features and main menus can be accessed from this screen. The actual water temperature can be seen and the Set Temperature can be adjusted. Time-of-Day, Ozone and Filter Cycle status is visible, along with other messages and alerts. The selected Temperature Range is indicated in the upper left corner. The Swim Spa Equipment Control Icon in the bottom left corner will bubble if any pump is running. A Lock icon is visible if the panel or settings are locked.

ICON SPECIFICATIONS












- ① H = High Temperature Range
- ② R = Ready Mode
- ③ F₁ = Filter Cycle 1 Running
- ④ O₃ = Ozone Running
- ⑤ C = Cleanup Cycle
- ⑥ Wi-Fi Indicator
- ⑦ Lock Indicator Icon
- ⑧ Invert Screen
- ⑨ Set Temperature Up
- ⑩ Current Water Temperature
- ⑪ Temperature Scale (F/C)
- ⑫ Set Temperature Down
- ⑬ Message Waiting Indicator
- ⑭ Heat Indicator
- ⑮ Swim Spa Equipment Control Icon
- ⑯ Settings Icon
- ⑰ Light Icon = Turns On/Off



NOTE: After 30 minutes the display will automatically go into sleep mode, which turns the display off. This is normal operation. Touch anywhere on the screen to wake the control panel up.

SWIM SPA CONTROLS - ICON SPA TOUCH










THE MAIN SCREEN

ICON SPECIFICATIONS

1.  = High Temperature Range  = Low Temperature Range
2.  = Ready Mode  = Ready And Rest Mode  = Rest Mode
3.  = Filter1 Mode  = Filter2 Mode  = Filter1 and 2 Mode
4.  = Ozone is Running. If you don't see the icon that means the Ozone is OFF.
5.  = Cleanup Cycle is Running. If you don't see the icon that means the Cleanup Cycle is OFF.
6.  = Wi-Fi Icon just indicates that the optional Wi-Fi module is connected to the swim spa system. It does not indicate signal strength.
7. **Lock Icon:** When displayed, indicates the panel is in a locked mode.

There are 2 lock icons that can be shown on the title bar of most screens. A lock icon with an 'S'  means that a settings lock has been applied. It is shown on screens that are affected by the settings lock. And a lock icon with a 'P'  means the Panel has been locked. If both settings and panel are locked, only the panel lock will show since it overrules just settings being restricted. When the panel is locked, the Settings Menu Screen will only show items not affected by that lock (System Info and Lock Screens).

To unlock or lock a setting or panel lock, you press the corresponding icon that is locked and then press and hold the word "Lock" in the title bar for 5+ seconds until the text and icon change to the opposite state.

8.  = Invert (or flip) Screen
9.  = Set Temperature Up: Adjust set temperature higher.
10. **Current water temperature:** Displays current water temperature.
11. **Temperature Scale:** Indicates if the temperature is in  = Fahrenheit or  = Celsius.
12.  = Set Temperature Down. Adjust set temperature lower.
13. **Message Waiting Indicator.** The Message Waiting Indicator will show one of the following icons:
 -  = Critical Error (Swim spa can't function until it's fixed)
 -  = Normal Error or Warning
 -  = Reminder Message
 -  = Information Message

Touch the Indicator to go to a Message Screen which shows the message.

Some messages will include the "Call for Service" text as it requires a service technician to fix the problem. If the panel is locked and a message alert appears, you will be taken to the UNLOCK screen before you can clear the message.







Touching the Error/Warning/Reminder/Info Icon on the Message Screen will take you to the System Information Screen to allow for troubleshooting over the phone or for a field service tech to better understand what is going on. Exiting the System information Screen will take you back to the Message Screen in that situation.

14.  = Heat Indicator. Indicates the heating process and when the swim spa heater is on.

SWIM SPA CONTROLS - ICON SPA TOUCH

THE MAIN SCREEN

ICON SPECIFICATIONS

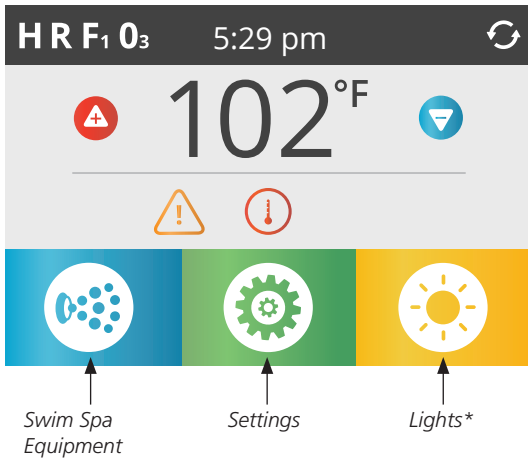
15.  = **Swim Spa Equipment Control Icon**. Brings up a screen where the swim spa jets or other equipment can be controlled. While on the Swim Spa Equipment Screen, you can press a Jets button once for low speed, and if applicable, press it again for high speed.
17. **Setting Icon:**  = **Settings is Active**  = **Settings is Inactive**
Takes you to Settings Menu Screen, where the available specific features that can be adjusted by the control panel can be modified.
18.  = **Light is turned ON**  = **Light is turned OFF**  = **Light is Disabled**

NAVIGATION

Navigating the entire menu structure is done by touching the screen.

The screen selections indicated below can be selected to take you to additional menus. Touch one of these to enter a different screen with additional controls.

Most menu screens time out and revert to the main screen after 30 seconds of no activity.



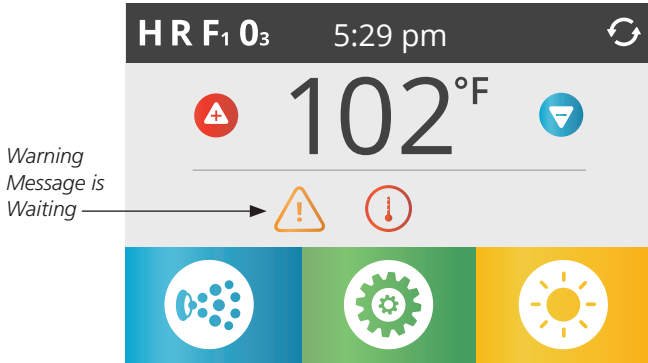
**Only if Light System is equipped.
Options vary by model.*

SWIM SPA CONTROLS - ICON SPA TOUCH

THE MAIN SCREEN

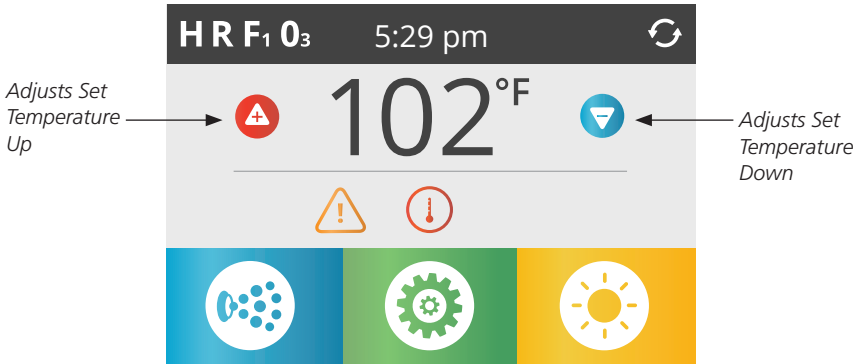
MESSAGES

At the bottom of the screen, at certain times an indicator may appear showing that a message is waiting. Touch this indicator to go to the Message Display Screen. On that Screen some of the messages can be dismissed.



SWIM SPA CONTROLS - ICON SPA TOUCH

THE SET TEMPERATURE AND LIGHTS



SET TEMPERATURE


Press Up or Down once to display the Set Temperature (indicated by a flashing °F or °C). Press Up or Down again to modify the Set Temperature. The Set Temperature changes immediately.

If you need to switch between High Temperature Range and Low Temperature Range you need to go to the Settings Screen.

PRESS-AND-HOLD

If Up or Down is pressed and held, the temperature will continue to change until you stop pressing, or until the Temperature Range limits are reached.


LIGHTS

The Lights Icon  turns the lights (if equipped) inside your swim spa on or off. If your swim spa is equipped with LED Light System, turn the lights on and off repeatedly within a couple of seconds to rotate through available color schemes.

SWIM SPA CONTROLS - ICON SPA TOUCH

THE SPA SCREEN

ALL EQUIPMENT ACCESS

The Swim Spa Equipment Icon  takes you to the Spa Screen, which shows all available equipment* to control. The display shows icons that are related to the equipment installed on a particular swim spa model, so this screen may change depending on the installation.

The icon buttons are used to select and control individual devices.

Some devices, like pumps, may have more than one ON state, so the icon will change to reflect the state of the equipment. Below are some examples of 2-speed Pump indicators.



Jets Off



Jets Low



Jets High

If the swim spa has a Circulation Pump, a Circulation Pump Icon will appear to indicate its activity, but outside of Priming Mode, the Circulation Pump cannot be controlled directly.



Circulation Pump

If equipped, it is only controllable in Priming Mode during initial power-up.

**One exception: The Main Spa Light is not shown on the Spa Screen; it is only shown (and controlled) on the Main Screen.*

SWIM SPA CONTROLS - ICON SPA TOUCH

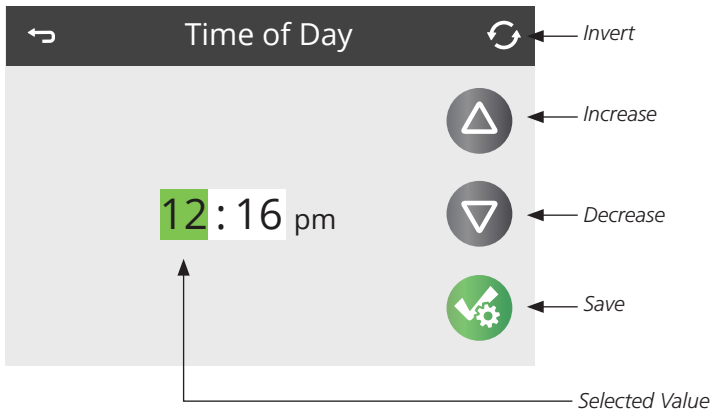
COMMON BUTTONS

VALUES INCREMENT/DECREMENT

If an Up or Down button is shown and pressed when on an editing page, and a value has been selected (highlighted), the value can be increased by pressing the Up Arrow or decreased by pressing the Down Arrow.

INVERT

Will appear on upper right on all screens.



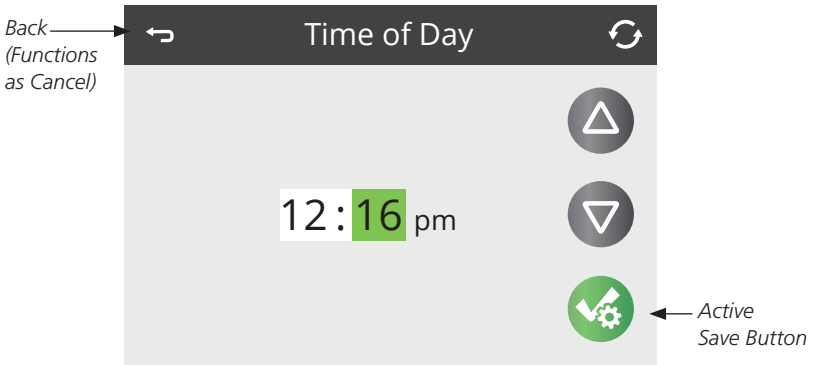
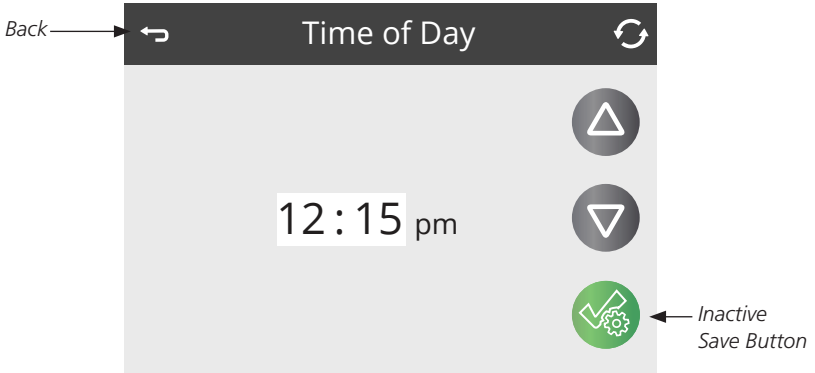
SWIM SPA CONTROLS - ICON SPA TOUCH

COMMON BUTTONS

EXITING SCREENS

The Back button is on every screen except the Main Screen, the Priming Mode Screen and Message Display Screen.

When you see only this button, or this button plus an Inactive Save Button, it means Back or Exit. It appears on editing screens before you have changed any value, as well as on all other screens.



When you see both the Back button and an Active Save button, the Save button will Save, turning the green selection to white, while the Back button will Cancel. If the screen times out due to no activity it will act like Cancel.

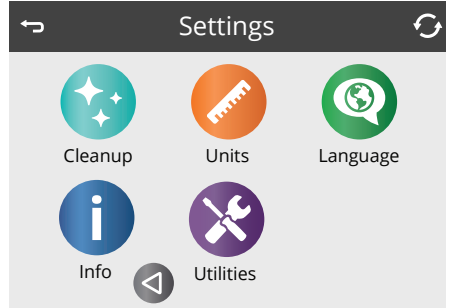
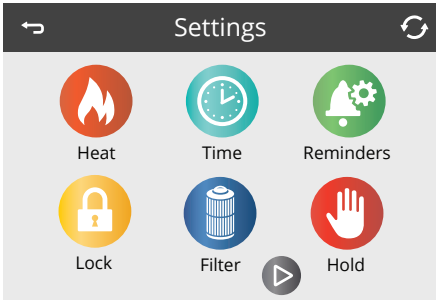
SWIM SPA CONTROLS - ICON SPA TOUCH

COMMON BUTTONS

PAGE RIGHT/LEFT

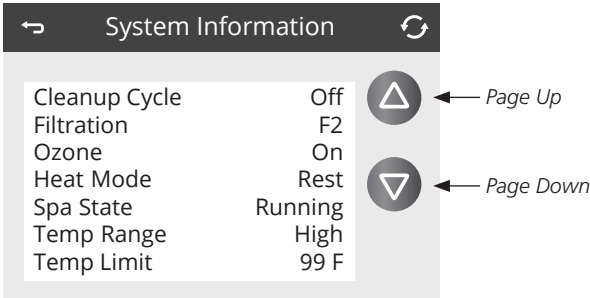
If there is a Right Arrow at the bottom of the screen, it takes you to the next page.

If there is a Left Arrow at the bottom of the screen, it takes you to the previous page.



PAGE UP/DOWN


If an Up or Down button is shown and pressed when on a page with a text list, the list can be scrolled a page at a time.



SWIM SPA CONTROLS - ICON SPA TOUCH

THE SETTINGS SCREEN


PROGRAMMING, ETC.

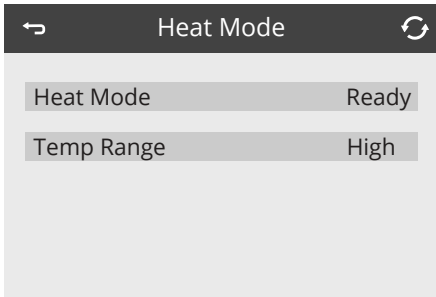
The Settings icon  takes you to the Settings Screen, where all programming and other swim spa behaviors are controlled.



Each icon on the Settings screen takes you to a different screen, where one or more settings may be viewed and/or edited.

HEAT MENU

The Heat icon  in the Settings Screen takes you to a screen where you can control the Heat Mode and the Temperature Range.



TEMPERATURE RANGES (HIGH VS. LOW)

This system incorporates two temperature range settings with independent set temperatures. The specific range can be selected on the Settings Screen and is visible on the Main Screen in the upper left corner of the display. These ranges can be used for various reasons, with a common use being a "ready to use" setting vs. a "vacation" setting. Each range maintains its own set temperature as programmed by the user. This way, when a range is chosen, the swim spa will heat to the set temperature associated with that range. Check the set water temperature and consider lowering it for the times when the swim spa will typically not be in use.

The swimming/exercising water temp, while in High Temp Range, can be set between 80°F (27°C) and 99°F (37°C). For Trainer 19 and Momentum models, the separate hot tub body of water High Temp Range can be set between 80°F (27°C) and 104°F (40°C). Low Range can be set between 50°F (10°C) and 99°F (37°C). Freeze Protection is active in either range. Consider that the comfortable temperature range during use may be lower than the maximum safe temperature.

SWIM SPA CONTROLS - ICON SPA TOUCH

THE SETTINGS SCREEN

HEAT MODE – READY VS. REST

In order for the swim spa to heat, a pump needs to circulate water through the heater. The pump that performs this function is known as the “heater pump”. The heater pump can be either a 2-speed Pump (Pump 1) or a Circulation Pump.

READY MODE

If the heater pump is a 2-speed Pump 1, Ready Mode will circulate water every 1/2 hour, using Pump 1 Low, in order to maintain a constant water temperature, heat as needed, and refresh the temperature display. This is known as “polling”.

REST MODE

If the swim spa is not going to be used for a prolonged period of time, this mode will only allow heating during programmed filter cycles. Since polling does not occur, the temperature display may not show a current temperature until the heater pump has been running for a minute or two. This is seen on the screen as: _ _ _ _ °F _ _ _ _ °C. Using Rest Mode is not recommended in below freezing temperatures.

NON-CIRCULATION MODE (2-speed Pump 1)

When the heater pump has come on automatically (for example for heating or polling) you can switch between low speed and high speed but you cannot turn the heater pump off.

CIRCULATION MODE

If the swim spa is configured for 24hr circulation, the heater pump generally runs continuously. Since the heater pump is always running, the swim spa will maintain set temperature and heat as needed in Ready Mode, without polling.

In Rest Mode, the swim spa will only heat to set temperature during programmed filter times, even though the water is being filtered constantly when in 24hr circulation mode.

NOTE: See more information on circulation modes within “Pumps” in the Swim Spa Controls - Spa Behavior sections.

READY-IN-REST MODE

Ready in Rest Mode appears in the display if the swim spa is in Rest Mode and the Jets 1 Button is pressed. When the heater pump has come on automatically (for example for heating) you can switch between low speed and high speed but you cannot turn the heater pump off. After 1 hour, the System will revert to Rest Mode. This mode can also be reset by selecting the Heat Mode.

SWIM SPA CONTROLS - ICON SPA TOUCH

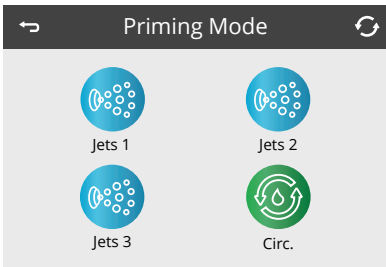
FILL IT UP!

PREPARATION AND FILLING

Fill the swim spa to its correct operating level, using the instructions found in Initial Swim Spa Setup under the Installation Instructions section.

PRIMING MODE – M019*

After the initial start-up sequence, the control will enter Priming Mode and display a Priming Mode screen. Only pump icons appear on the priming mode screen. During the priming mode, the heater is disabled to allow the priming process to be completed without the possibility of energizing the heater under low-flow or no-flow conditions. Nothing comes on automatically, but the pump(s) can be energized by selecting the “Jet” buttons. If the swim spa has a Circulation Pump, it can be turned on and off by pressing the “Circ” button during Priming Mode.



PRIMING THE PUMPS

As soon as the Priming Mode screen appears on the panel, select the “Jets 1” button once to start Pump 1 in low-speed (if applicable) and then again to switch to high-speed. If the pump is operating but there is no water flow after 10 seconds of running, shut the pump off for 5-10 seconds and then back on for 5-10 seconds. Repeat until water begins flowing, this means the pump is primed. Also select the other pumps to turn them on and perform this priming process if necessary. If the pumps have not primed after

4-5 minutes, and water is not flowing from the jets in the swim spa, do not allow the pumps to continue to run. Turn the swim spa off, then back on and repeat the process.

NOTE: Turning the power off and back on again will initiate a new pump priming session. Do not do this more than 5 times. If the pump(s) will not prime, shut off the power to the swim spa and see instructions for relieving an air lock in the Initial Swim Spa Setup section.

IMPORTANT: A pump should not be allowed to run continuously without priming for more than 2 minutes. Under NO circumstances should a pump be allowed to run without priming beyond the end of the 4-5 minute priming mode. Doing so may cause damage to the pump and cause the system to energize the heater and go into an overheat condition.

EXITING PRIMING MODE

The system will automatically enter the normal heating and filtering at the end of the priming mode, which lasts 4-5 minutes. You can manually exit Priming Mode by pressing the “Back” button on the Priming Mode Screen. Note that if you do not manually exit the priming mode as described above, the priming mode will be automatically terminated after 4-5 minutes. Be sure that the pump(s) have been primed by this time. Once the system has exited Priming Mode, the top-side panel will display the Main Screen, but the display will not show the water temperature yet, as shown below. This is because the system requires approximately 1 minute of water flowing through the heater to determine the water temperature and display it. The panel will display the following until it is able to get a temperature read: **_ _ _ _ °F _ _ _ _ °C**

*M0XX is a Message Code. See Messages Log in the Utilities section.

SWIM SPA CONTROLS - ICON SPA TOUCH

SWIM SPA BEHAVIOR

PUMPS

On the Spa Screen, select a "Jets" button once to turn the pump on or off, and to shift between low- and high-speeds if equipped. If left running, the pump will turn off after a time-out period (15 minutes at high speed).

NON-CIRCULATION SYSTEMS

The low-speed of Pump 1 runs when any other pump is on so that the system can monitor swim spa water temperature. If the swim spa is in Ready Mode, Pump 1 low may also activate for at least 1 minute every 30 minutes to detect the swim spa water temperature (polling) and then to heat to the set temperature if needed. When the low-speed turns on automatically, it cannot be deactivated from the panel, however the high speed may be started.

CIRCULATION PUMP MODES

If the system is equipped with a circulation pump, it will be configured to work in one of two different ways depending on the control system software. The circulation pump mode cannot be changed.

1. Most circulation pumps operate continuously (24 hours) with the exception of turning off for 30 minutes at a time when the water temperature reaches 3°F (1.5°C) above the set temperature (most likely to happen in warm climates or if set temperature is lowered/set below the current water temperature). This is the typical mode for most swim spas with a dedicated circulation pump.
2. A programmable circulation pump will come on when the system is checking temperature (polling), during filter cycles, during freeze conditions, or when another pump is on.

FILTRATION AND OZONE

On non-circulation systems, Pump 1 low and the ozone generator will run during filtration. On circulation systems, the ozone will generally run with the circulation pump.

The system is factory-programmed with one filter cycle that will run in the evening (assuming the time-of-day is properly set) when energy rates are often lower. The filter time and duration are programmable. A second filter cycle can be enabled as needed.

At the start of each filter cycle, the pumps will run briefly to purge the plumbing to maintain good water quality.

See Adjusting Filtration section within Swim Spa Controls for more information.

SWIM SPA CONTROLS - ICON SPA TOUCH

SWIM SPA BEHAVIOR

FREEZE PROTECTION

If the temperature sensors within the heater detect a low enough temperature, then the pumps automatically activate to provide freeze protection. The pumps will run either continuously or periodically depending on conditions.

CLEAN-UP CYCLE (OPTIONAL)


When a pump is turned on by a button press, a clean-up cycle begins 30 minutes after the pump is turned off or times out. The heat/filter pump and the ozone generator will run for 30 minutes or more, depending on the system. If the swim spa has a 24hr circulation pump which performs as the heat and filter pump, the cleanup cycle will not apply as the 24hr circulation pump provides constant filtration. On some systems, you can change this setting. See the Cleanup Cycle section in Additional Settings.

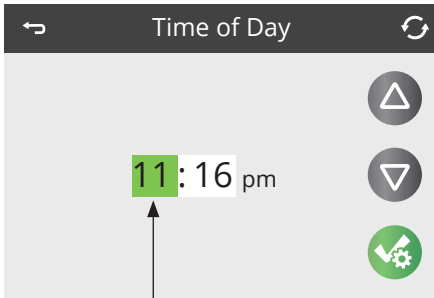
SWIM SPA CONTROLS - ICON SPA TOUCH

TIME-OF-DAY

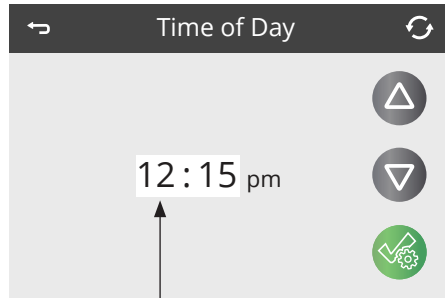
SETTING THE TIME-OF-DAY

Be sure to set the time-of-day, it is important for determining filtration times and other background features.

The Time Icon  on the Settings Screen takes you to a screen where you control the Time-of-Day. On the Time-of-Day screen, use the Up and Down Buttons to make changes to the highlighted green field. You can toggle between hours and minutes to make changes by touching the numbers on the screen. When finished, Save and the green field will turn white.

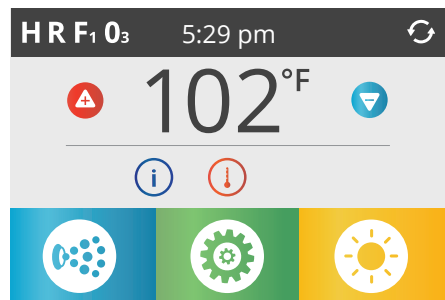


Green highlight shows an active field to edit



Field changes to white when saved

If no time-of-day is set in the memory an Information Screen will appear. If you exit it an Information Icon will appear at the bottom of the Main Screen, until the time-of-day has been set.




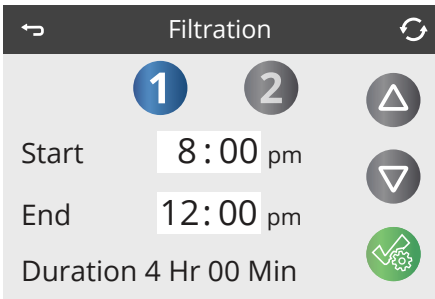
SWIM SPA CONTROLS - ICON SPA TOUCH

ADJUSTING FILTRATION

MAIN FILTRATION

Using similar adjustments as the Time-of-Day Screen on previous page, Filter Cycles are set using a start time and an end time. Each setting can be adjusted in 15-minute increments. The panel calculates the duration and displays it automatically.

The Filter Icon  on the Settings Screen takes you to a screen where you control the Filter Cycles.



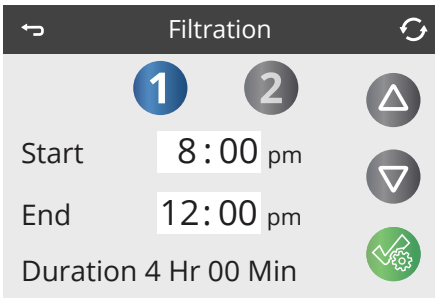
FILTER CYCLE 2 - OPTIONAL FILTRATION

Filter Cycle 2 is OFF by default on most systems. Press "1" to view Filter 1. Press "2" once to view Filter 2. Press "2" again to turn Filter 2 ON or OFF.

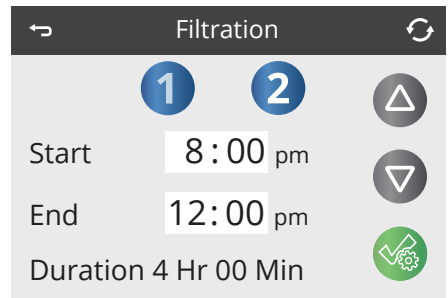
When Filter Cycle 2 is ON, it can be adjusted in the same manner as Filter Cycle 1.

It is possible to overlap Filter Cycle 1 and Filter Cycle 2, which will shorten overall filtration by the overlap amount.

Viewing Filter 1 while Filter 2 is OFF:



Viewing Filter 2 when it is ON and selected:



SWIM SPA CONTROLS - ICON SPA TOUCH

ADJUSTING FILTRATION

PURGE CYCLES

In order to maintain sanitary conditions, as well as protect against freezing, all pumps will purge water from their respective plumbing by running briefly at the beginning of each filter cycle. It is best that all jets be left in their open position and water diverters in their centered positions when done using the swim spa so all jets get water flow during purge cycles.

If the Filter Cycle 1 duration is set for 24 hours, enabling Filter Cycle 2 will initiate a purge when Filter Cycle 2 is programmed to begin.

THE MEANING OF FILTER CYCLES

1. The heating pump always runs during the filter cycle*
2. In Rest Mode, heating only occurs during the filter cycle
3. Purges happen at the start of each filter cycle

* For example, if your swim spa is set up for 24/hour circulation except for shutting off when the water temperature is 3°F/1.3°C above the set temperature, that shutoff does not occur during filter cycles.

SWIM SPA CONTROLS - ICON SPA TOUCH

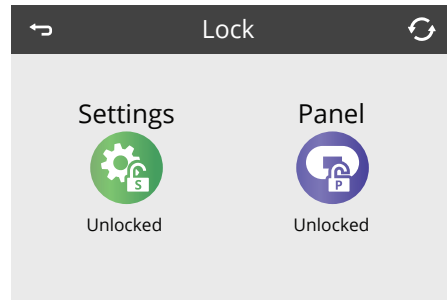
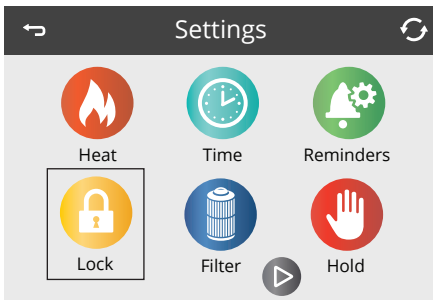
RESTRICTING OPERATION

The control can be restricted to prevent unwanted use or temperature adjustments.

Locking the Panel prevents the control panel from being used, but all automatic functions are still active.

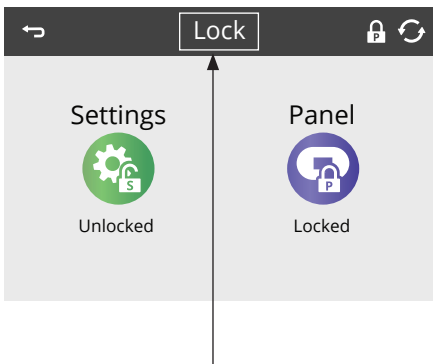
Locking the Settings allows Jets and other features to be used, but the Set Temperature and other programmed settings cannot be adjusted. Settings Lock allows access to a reduced selection of menu items. These include Filter Cycles, Invert, Information and Messages. They can be seen, but not changed or edited.

Settings Unlocked and Panel Unlocked



LOCKING AND UNLOCKING

Settings Unlocked and Panel Locked



After you have touched the Settings or Panel Icon, press here for 5 seconds to lock or unlock.

The same steps are used to Lock and Unlock Panel or Settings.

TO LOCK:

1. Select Settings Icon (if it says "Unlocked") or Panel Icon (if it says "Unlocked")
2. Press and hold the word "Lock" in the title bar for at least 5 seconds

TO UNLOCK:

1. Select Settings Icon (if it says "Locked") or Panel Icon (if it says "Locked")
2. Press and hold the word "Lock" in the title bar for at least 5 seconds

with 'S' = Settings Lock

with 'P' = Panel Lock

SWIM SPA CONTROLS - ICON SPA TOUCH

ADDITIONAL SETTINGS

HOLD - M037*

The Hold Icon  on the Settings Screen places the swim spa in Hold Mode and displays the System Hold screen.

Hold Mode is used to disable the swim spa equipment during service functions like cleaning or replacing the filter. Hold Mode will last for 1 hour unless the mode is exited manually. If swim spa service will require more than an hour, it may be best to simply shut down power to the swim spa.

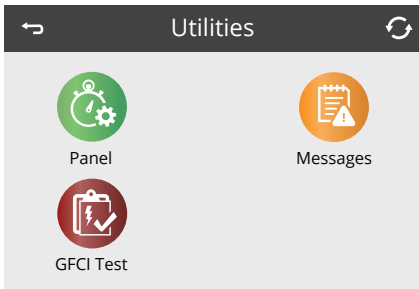
Touch Back to exit Hold Mode.




**M0XX is a Message Code. Codes like this will be seen in the Messages Log.*

SWIM SPA CONTROLS - ICON SPA TOUCH

THE UTILITIES SCREEN



UTILITIES

The Utilities Icon  in the Settings Screen takes you to the Utilities Screen. The Utilities Screen may contain the following:

PANEL

Allows you to set the time that the screen goes to sleep after so many minutes of inactivity. For example, you can set your control panel screen to shut off 10 minutes after you've last touched the screen.

MESSAGES LOG

The Messages Log is a record of the last 24 errors or messages that can be reviewed by a service tech. Use the Up and Down buttons to view each of the messages. When Priming Mode shows in the Messages Log, it is not an error. Rather, it is used to keep track of swim spa restarts.

GFCI TEST (Feature not available on all systems)

GFCI Test will not appear on the screen if the feature is not available. This screen allows the GFCI to be tested manually from the swim spa control panel (See more in Utilities - GFCI Test Feature).

SWIM SPA CONTROLS - ICON SPA TOUCH

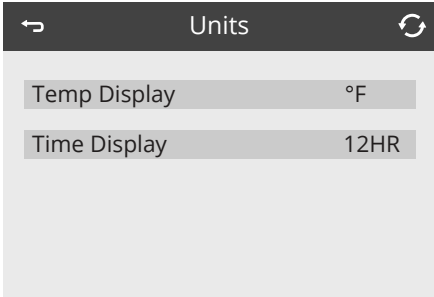
ADDITIONAL SETTINGS

UNITS

The Units Icon  on the Settings Screen takes you to the Units Screen.


Press "Temp Display" to change the temperature between Fahrenheit and Celsius.

Press "Time Display" to change the clock between 12 HR and 24 HR display.

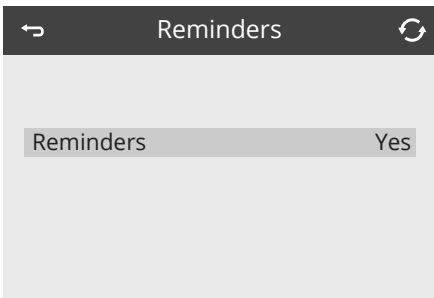


REMINDERS

The Reminder Icon  on the Settings Screen takes you to the Reminders Screen.

Reminders are preprogrammed routine maintenance reminders that appear on the Main Screen as  at different intervals and will help guide you in taking care of your swim spa.

Press "Reminders" to turn them ON (which displays as Yes) or OFF (Displays as No). This will allow reminders like "Clean Filters" to appear. To see a full listing of Reminder Messages, refer to "Reminder Messages" in the back of the Swim Spa Controls section.




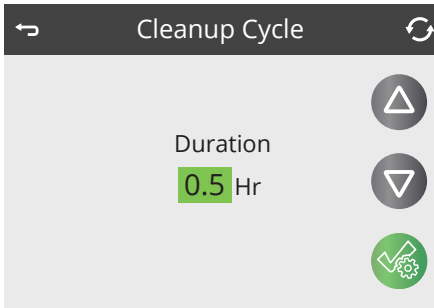
SWIM SPA CONTROLS - ICON SPA TOUCH

ADDITIONAL SETTINGS

CLEANUP CYCLE

Cleanup Cycle Duration is not always enabled, so it may not appear. When it is available, set the length of time the heat/filter pump will run after each use. 0-4 hours are available. Setting to 0.0 Hr prevents the Cleanup Cycles from running.

The Cleanup Icon  on the Settings Screen takes you to the Cleanup Cycle screen.

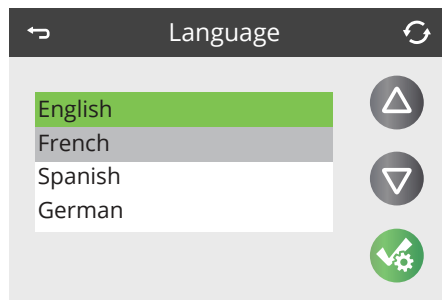
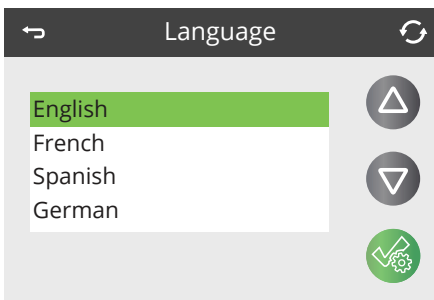


NOTE: Cleanup cycles do not apply to systems set for 24hr circulation pump mode as the circulation pump performs as the heat and filter pump to provide constant filtration.

LANGUAGE

The Language Icon  on the Settings Screen takes you to the Language Screen.


Change the language displayed on the panel by pressing the arrow keys. The light grey highlight indicates the language you are changing it to.

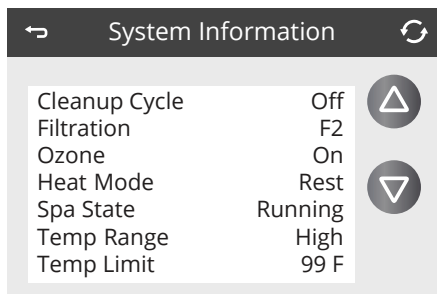


SWIM SPA CONTROLS - ICON SPA TOUCH

INFORMATION

SYSTEM INFORMATION

The Information Icon  on the Settings Screen takes you to the System Information screen, which displays various settings and system identification.



SYSTEM MODEL

Displays the Model Number of the System.

PANEL VERSION

Displays a number of the software in the topside control panel.

SOFTWARE ID (SSID)

Displays the software ID number for the System.

CONFIGURATION SIGNATURE

Displays the checksum for the system configuration file.

CURRENT SETUP

Displays the currently selected Configuration Setup Number.

DIP SWITCH SETTINGS

Displays a number that represents the DIP switch positions of S1 on the main circuit board.

HEATER VOLTAGE (Feature not used on CE rated systems)

Displays the operating voltage configured for the heater.

HEATER WATTAGE AS CONFIGURED IN SOFTWARE (CE Systems Only)

Displays a heater kilowatt rating as programmed into the control system software (1-3 or 3-6).

HEATER TYPE

Displays a heater type ID number.

SWIM SPA CONTROLS - ICON SPA TOUCH

UTILITIES – GFCI TEST FEATURE

The Ground Fault Circuit Interrupter (GFCI) or Residual Current Detector (RCD) is an important safety device and is required equipment on a swim spa installation.



FORCING THE GFCI TRIP TEST (North America Only)

Touching the GFCI Test Icon on the Utilities Screen takes you to the GFCI Test screen. This feature is not available on all systems. The GFCI Test icon will only display if the system is capable of this feature. Some UL registered systems do not have the GFCI Test Feature.

The installer can use the GFCI Trip Test to confirm proper function of the GFCI.

The GFCI should trip within several seconds and the swim spa should shut down. If it does not, shut down the power and manually verify that a GFCI breaker is installed and that the circuit and swim spa are wired correctly. Verify the function of the GFCI with its own test button. Restore power to the swim spa and repeat the GFCI Trip Test.

Once the GFCI is tripped by the test (causing the swim spa to be shut off from power being removed), reset the GFCI breaker to turn swim spa back on. You can verify a successful test by navigating to the above screen. "Passed" should appear after the Reset line is selected on the GFCI screen.

CE PRODUCT

CE registered systems do not have an RCD Test Feature due to the nature of the electrical service. The end-user must be trained how to properly test and reset the RCD.

SWIM SPA CONTROLS - ICON SPA TOUCH

GENERAL MESSAGES

MESSAGES

Most messages and alerts will appear at the bottom of the Main Screen. Several alerts and messages may be displayed in a sequence.

WATER TEMPERATURE IS UNKNOWN

After the pump has been running for 1 minute, the temperature will be displayed.

— — — — °F — — — — °C



POSSIBLE FREEZING CONDITION

A potential freeze condition has been detected, or the Aux Freeze Switch has closed. All water devices are activated. In some cases, pumps may turn on and off and the heater may operate during Freeze Protection. This is an operational message, not an error indication.

THE WATER IS TOO HOT – M029*

The system has detected a swim spa water temp of 110°F (43.3°C) or more, and swim spa functions are disabled. System will auto reset when the swim spa water temp is below 108°F (42.2°C). Check for extended pump operation (i.e. filter cycle durations or extended swim spa pump use beyond the 15 minute timeouts) and warm ambient temperatures.

**M0XX is a Message Code. Codes like this will be seen in the Messages Log.*

SWIM SPA CONTROLS - ICON SPA TOUCH

HEATER-RELATED MESSAGES

THE WATER FLOW IS LOW – M016**

There may not be enough water flow through the heater to carry the heat away from the heating element. Heater start up will begin again after about 1 min. See “Flow Related Checks” below.

THE WATER FLOW HAS FAILED* – M017**

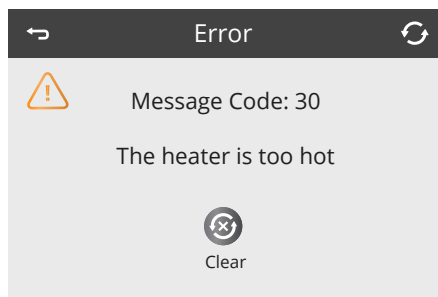
There is not enough water flow through the heater to carry the heat away from the heating element and the heater has been disabled. See “Flow Related Checks” below. After the problem has been resolved, reset the message*.

THE HEATER MAY BE DRY* – M028**

Possible dry heater, or not enough water in the heater to start it. The swim spa is shut down for 15 min. Reset this message* to reset the heater start-up. See “Flow Related Checks” below.

THE HEATER IS DRY* – M027**

There is not enough water in the heater to start it. The swim spa is shut down. After the problem has been resolved, you must reset the message* to restart heater start up. See “Flow Related Checks” below.



THE HEATER IS TOO HOT* – M030**

One of the water temp sensors has detected 118°F (47.8°C) in the heater and the swim spa is shut down. You must reset the message* when water is below 108°F (42.2°C). See “Flow Related Checks” below.

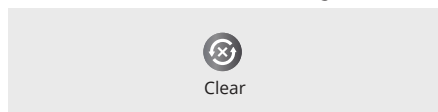
FLOW-RELATED CHECKS

Check filters for possible blockage. Try cleaning or replacing filters (especially if swim spa is equipped with 24 hour circulation pump).

Check for low water level, suction flow restrictions (i.e. any leaves or debris pulled against suction fittings in bottom of swim spa shell), closed valves, too many closed jets and pump prime/air locked pump (see initial swim spa setup for instruction on relieving pump air lock).

On some systems, even when swim spa is shut down by an error condition, some equipment may occasionally turn on to continue monitoring the temperature or if freeze protection is needed.

* Some messages can be reset from the panel. Messages that can be reset will appear with a Clear Icon at the bottom of the Message Screen. Press the Clear Icon to reset the system.



**M0XX is a Message Code. Codes like this will be seen in the Messages Log.

SWIM SPA CONTROLS - ICON SPA TOUCH

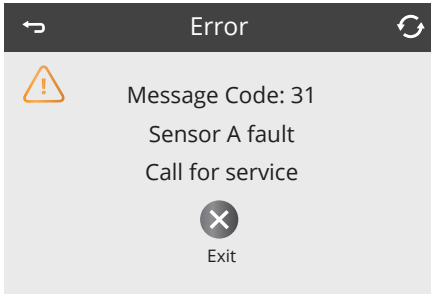
SENSOR-RELATED MESSAGES

SENSORS ARE OUT OF SYNC – M015**

The temperature sensors MAY be out of sync by 3°F (1°C). Contact your Master Spas dealer or service organization if this message does not disappear within a few minutes.

SENSORS ARE OUT OF SYNC – CALL FOR SERVICE* – M026**

The temperature sensors ARE out of sync. The fault above has been established for at least 1 hour. Contact your Master Spas dealer or service organization.



SENSOR A FAULT, SENSOR B FAULT –

SENSOR A: M031**, SENSOR B: M032**

A temperature sensor or sensor circuit has failed. Contact your Master Spas dealer or service organization.

MISCELLANEOUS MESSAGES

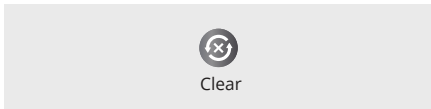
COMMUNICATIONS ERROR

The control panel is not receiving communication from the System. Contact your Master Spas dealer or service organization.

TEST SOFTWARE INSTALLED

The Control System is operating with test software. Contact your Master Spas dealer or service organization.

* Some messages can be reset from the panel. Messages that can be reset will appear with a Clear Icon at the bottom of the Message Screen. Press the Clear Icon to reset the system.



**MOXX is a Message Code. Codes like this will be seen in the Messages Log.

SWIM SPA CONTROLS - ICON SPA TOUCH

SYSTEM-RELATED MESSAGES

PROGRAM MEMORY FAILURE* – M022**

At power-up, the system has failed the Program Checksum Test. This indicates a problem with the firmware (operation program). Contact your Master Spas dealer or service organization.

THE SETTINGS HAVE BEEN RESET (PERSISTENT MEMORY ERROR)* – M021**

Contact your Master Spas dealer or service organization if this message appears on more than one power-up.

THE CLOCK HAS FAILED* – M020**

Contact your Master Spas dealer or service organization.

CONFIGURATION ERROR (SWIM SPA WILL NOT START UP)

Contact your Master Spas dealer or service organization.

THE GFCI TEST FAILED (SYSTEM COULD NOT TEST THE GFCI) – M036**

(North America Only) May indicate an unsafe installation. Contact your Master Spas dealer or service organization as well as your electrician. A GFCI replacement will require an electrician.

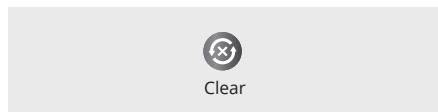
A PUMP MAY BE STUCK ON – M034**

Water may be overheated. POWER DOWN THE SWIM SPA. DO NOT ENTER THE WATER. Contact your Master Spas dealer or service organization.

HOT FAULT – M035**

A Pump Appears to have been Stuck ON when swim spa was last powered POWER DOWN THE SWIM SPA. DO NOT ENTER THE WATER. Contact your Master Spas dealer or service organization.

* Some messages can be reset from the panel. Messages that can be reset will appear with a Clear Icon at the bottom of the Message Screen. Press the Clear Icon to reset the message.




**M0XX is a Message Code. Codes like this will be seen in the Messages Log.

SWIM SPA CONTROLS - ICON SPA TOUCH

REMINDER MESSAGES

REMINDER MESSAGES OF ROUTINE MAINTENANCE

Reminder Messages can be turned off by using the Reminders Screen.

Reminders are preprogrammed routine maintenance reminders that appear on the Main Screen as  at different intervals and will help guide you in taking care of your swim spa. Some messages may not apply depending on the actual equipment in the swim spa.

CHECK THE PH

May appear on a regular schedule, i.e. every 7 days. Check pH with a test kit and adjust pH with the appropriate chemicals.

CHECK THE SANITIZER

May appear on a regular schedule, i.e. every 7 days. Check sanitizer level and other water chemistry with a test kit and adjust with the appropriate chemicals.

CLEAN THE FILTER

May appear on a regular schedule, i.e. every 30 days.

TEST THE GFCI (OR RCD)

May appear on a regular schedule, i.e. every 30 days.

The GFCI or RCD is an important safety device and must be tested on a regular basis to verify its reliability.

Every user should be trained to safely test and reset the GFCI or RCD associated with the swim spa installation.

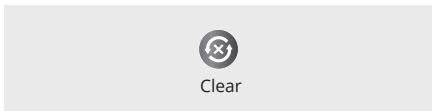
A GFCI or RCD will have a TEST button on it that allows a user to verify proper function.

CHANGE THE WATER

May appear on a regular schedule, i.e. every 180 days. Change the water in the swim spa on regular basis to maintain proper chemical balance and sanitary conditions.

Additional messages may appear on specific systems.

Reminder messages are simply cleared and automatically reset to appear at the next preprogrammed interval by clicking the Clear Icon.



SWIM SPA CONTROLS - ICON SPA TOUCH

REMINDER MESSAGES

CLEAN THE COVER

May appear on a regular schedule, i.e. every 30 days. Vinyl covers should be cleaned and conditioned for maximum life.

TREAT THE WOOD

May appear on a regular schedule, i.e. every 180 days. Wood skirting and furniture should be cleaned and conditioned per the manufacturers instructions for maximum life.

CHANGE THE FILTER

May appear on a regular schedule, i.e. every 365 days. Filters should be replaced periodically to maintain proper swim spa function and sanitary conditions. EcoPur® elements should be replaced every 180 days. Refer to Cleaning Your Filter Elements section in Routine Maintenance.

CHANGE THE UV

May appear on a regular schedule, i.e. every 18 months. Change the UV as instructed in the Mast3rPur section. This is a general message and may not apply if swim spa is not equipped with UV.

CHECK OZONE

May appear on a regular schedule, i.e. every 365 days. Check the ozone system as instructed in the Regular Maintenance Procedures.

Additional messages may appear on specific systems.

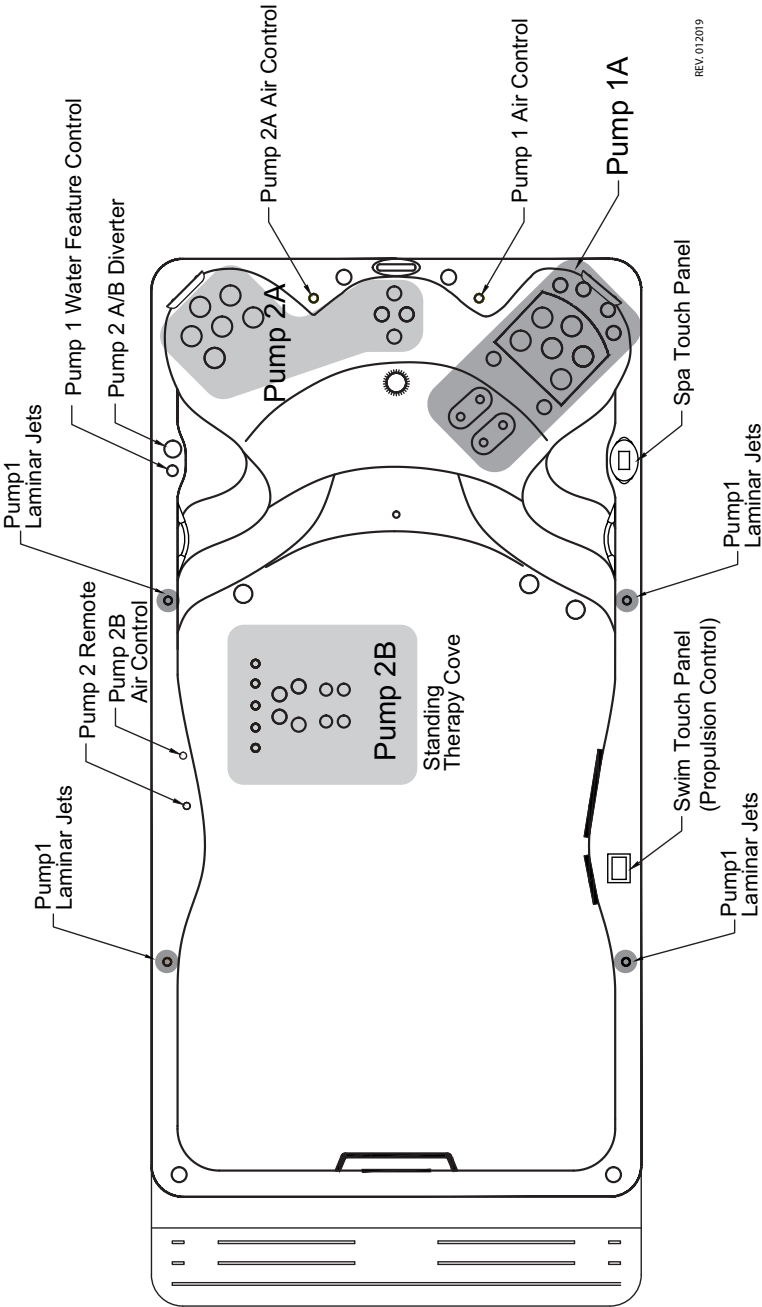
Reminder messages are simply cleared and automatically reset to appear at the next preprogrammed interval by clicking the Clear Icon.



Clear

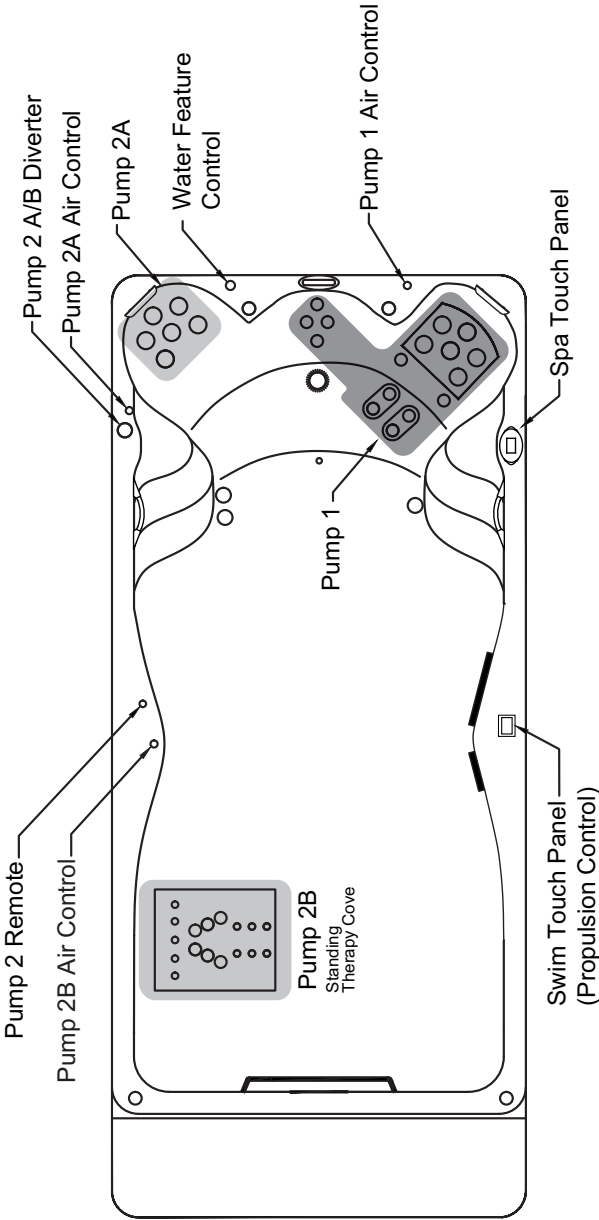
SWIM SPA CONTROLS - PUMP CONTROL DIAGRAM

MP FORCE & MP FORCE D



SWIM SPA CONTROLS - PUMP CONTROL DIAGRAM

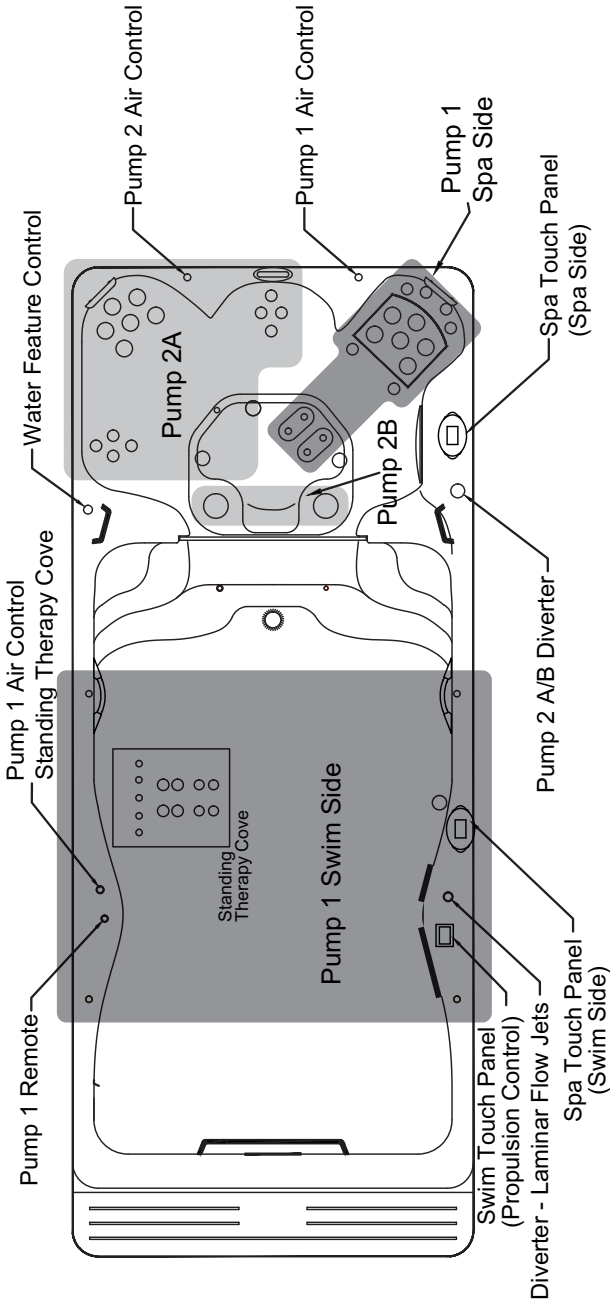
MP SIGNATURE D & MP SIGNATURE D WITH WAVE XP PRO



REV. 01/2019

SWIM SPA CONTROLS - PUMP CONTROL DIAGRAM

MP MOMENTUM 80 & MP MOMENTUM 80 D



REV. 01/2019

PROPULSION SYSTEM CONTROLS



THE PROPULSION SYSTEM

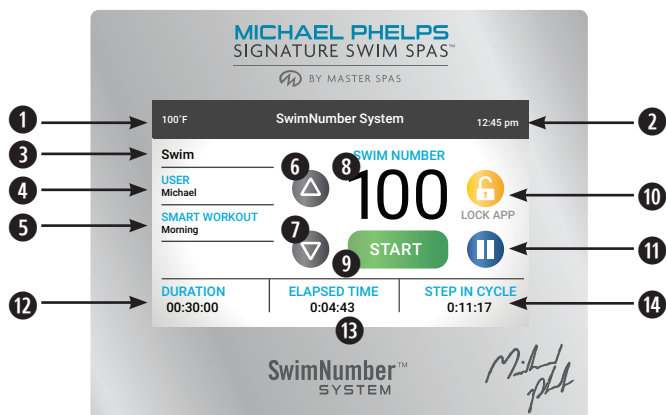
The unique belt-driven propulsion system provides the most consistent flow of water to swim and exercise against. This propulsion system is controlled by the revolutionary Swim Number™ System. Along with this, your MP Swim Spa is equipped with a WiFi module which allows control of the system through our Swim Number App (SNAPP)*. SNAPP is available for iPad on the Apple store and allows you to build your own personal workouts.

The easy to operate propulsion control panel allows you not only to control the speed of the water flow but also to select programmed Smart Workouts.

*See Swim Number App (SNAPP) Instruction Manual for further information.

PROPULSION SYSTEM CONTROLS

SWIM CONTROL OPERATION



- ❶ **Temperature** of water in swim spa.
- ❷ **Time** of day.
- ❸ **Mode** reference used during workouts to calculate calorie counts when used with Swim Number App (SNAPP). During manual operation this setting can be changed by touching the highlighted text but you will not see a change in the swim current.
- ❹ **User** workout selection allows you to choose between the default user and any custom users that have been added through the SNAPP APP.
- ❺ **Smart Workouts** can be selected from here by touching the highlighted area. Please refer to the Smart Workout Reference guide included with the swim spa information materials. From there you can select Smart Workouts that will allow you exercise with preprogrammed workouts that control the Wave Propulsion Systems.
- ❻ **Up** button increases the swim number (speed).
- ❼ **Down** button lowers the swim number (speed).
- ❽ **Swim Number** indicates the speed of the propulsion system. Speed is indicated in numbers from 1 to 100, where the higher number indicates faster water flow.
- ❾ **Start** button starts the propulsion system after a 5 second delay. This delay allows the swimmer time to get into position and prepare for the swim current.
- ❿ **Lock APP** allows you to restrict control of the propulsion system from the SNAPP.
- ⓫ **Pause** button allows you to momentarily pause the operation of the propulsion system. Whenever the it is restarted, there will be a 5 second delay before it resumes operation.
- ⓬ **Duration** shows the duration of the complete workout.
- ⓭ **Elapsed Time** will be displayed in a manual mode workout and indicates the total time that the propulsion system has been running in the current workout. It is only active in manual mode.
Remaining Time will be displayed in a Smart Workout and indicates how much time is left to complete the workout.
- ⓮ **Step in Cycle** indicates the time you have been in a specific workout step.

NOTE: If the topside control touch screen becomes erratic or will not function correctly, it may need to be synced to the main control pack. To sync the topside control hold the pause button until the display resets and shows "Synchronizing" in the lower left hand corner of the display.

PROPULSION SYSTEM CONTROLS

BEGINNER FITNESS WORKOUT - 9 MIN. 30 SEC.

Step	Mode	Seconds	Wave XP Swim Number*	Wave XP Pro Swim Number*	Recommended Exercise**
1	Jog	15	1	1	Walking Forward
2	Jog	15	1	1	Walking Backward
3	Jog	15	1	1	Walking Sideways
4	Jog	15	1	1	Marching
5	Jog	15	1	1	Heel to Butt
6	Jog	15	1	1	Straight Leg Rise
7	Jog	15	1	1	Switch Legs
8	Jog	30	1	1	Trailing Forward/Back (Both Flow Directions)
9	Jog	45	1	1	Flies
10	Jog	45	1	1	Push/Pulls
11	Jog	45	1	1	Push Downs
12	Jog	45	1	1	Hip Flexion/Extension
13	Jog	45	1	1	Hip Abduction/Adduction
14	Jog	45	1	1	Core rotations. 2 hand start with isometric hold
15	Jog	45	1	1	Continue core rotations with Forward/Side Flow
16	Jog	120	12	11	Gentle jog into flow

*Swim Number speed depends on propulsion system equipped in swim spa.

**See Swim Number App for iPad or exercise book for detailed exercise instructions.

PROPULSION SYSTEM CONTROLS

INTERMEDIATE FITNESS WORKOUT - 15 MIN. 15 SEC.

Step	Mode	Seconds	Wave XP Swim Number**	Wave XP Pro Swim Number**	Recommended Exercise**
1	Jog	25	1	1	Walking forward
2	Jog	25	1	1	Walking backward
3	Jog	25	1	1	Walking sideways (with both arms back)
4	Jog	25	1	1	Marching
5	Jog	25	1	1	Heel to butt with UE
6	Jog	25	1	1	Straight leg rise
7	Jog	25	1	1	Switch legs
8	Jog	25	1	1	Straight leg rise out
9	Jog	25	1	1	Switch legs
10	Jog	45	1	1	Flies forward
11	Jog	45	1	1	Switch legs
12	Jog	45	1	1	Flies side
13	Jog	45	1	1	Switch legs
14	Jog	45	1	1	Push/Pulls
15	Jog	45	1	1	Switch legs
16	Jog	45	1	1	Push downs
17	Jog	45	1	1	Switch legs
18	Jog	45	1	1	Power swings
19	Jog	45	1	1	Switch legs
20	Jog	45	1	1	Soccer kicks
21	Jog	45	1	1	Switch legs
22	Swim	30	56	48	Pikes in to flow
23	Jog	120	23	20	Running forward (no bells or fins)

*Swim Number speed depends on propulsion system equipped in swim spa.

** See Swim Number App for iPad or exercise book for detailed exercise instructions.

PROPULSION SYSTEM CONTROLS

ADVANCED FITNESS WORKOUT - 27 MIN.

Step	Mode	Seconds	Wave XP Swim Number*	Wave XP Pro Swim Number*	Recommended Exercise**
1	Jog	45	1	1	Walking forward
2	Jog	45	1	1	Walking forward
3	Jog	45	1	1	Walking sideways (one arm forward, one arm back)
4	Jog	45	1	1	Marching
5	Jog	45	1	1	Heel to butt with UE
6	Jog	45	1	1	Straight leg rise
7	Jog	45	1	1	Switch legs
8	Jog	45	1	1	Straight leg rise out
9	Jog	45	1	1	Switch legs
10	Jog	45	1	1	Straight leg rise in
11	Jog	45	1	1	Switch legs
12	Jog	75	1	1	Flies forward
13	Jog	75	1	1	Switch legs
14	Jog	75	1	1	Flies side
15	Jog	75	1	1	Switch legs
16	Jog	75	1	1	Alternating push/pulls
17	Jog	75	1	1	Switch legs
18	Jog	75	1	1	Alternating push downs
19	Jog	75	1	1	Switch legs
20	Jog	75	1	1	Power swings
21	Jog	75	1	1	Switch legs
22	Jog	75	1	1	Soccer kicks
23	Jog	75	1	1	Switch legs
24	Swim	45	1	1	Ronde De Jambe
25	Jog	60	45	39	Sprinting forward
26	Jog	60	45	39	Sprinting sideways
27	Jog	60	45	39	Sprinting backwards

*Swim Number speed depends on propulsion system equipped in swim spa.

** See Swim Number App for iPad or exercise book for detailed exercise instructions.

PROPULSION SYSTEM CONTROLS

BEGINNER TRAINING WORKOUT - 15 MIN.

Step	Mode	Seconds	Wave XP Swim Number*	Wave XP Pro Swim Number*	Recommended Exercise**
1	Swim	60	34	30	Breast stroke
2	Jog	60	34	30	Running in place
3	Jog	30	1	1	Step-up right leg
4	Jog	30	1	1	Step-up left leg
5	Jog	60	45	39	Butt kicks
6	Jog	30	1	1	Arm circles forward
7	Jog	30	1	1	Arm circles backward
8	Jog	60	45	39	High knees
9	Jog	60	1	1	Row bars
10	Jog	60	45	39	Running in place
11	Jog	30	1	1	Band (bicep curl) right arm
12	Jog	30	1	1	Band (bicep curl) left arm
13	Jog	60	45	39	Butt kicks
14	Jog	60	1	1	Seated pull rows
15	Jog	60	45	39	High knees
16	Jog	30	1	1	Band (tricep extension)
17	Swim	60	45	39	Breast stroke
18	Swim	30	56	48	Body weight
19	Jog	60	23	20	Running in place

*Swim Number speed depends on propulsion system equipped in swim spa.

**See Swim Number App for iPad or exercise book for detailed exercise instructions.

PROPULSION SYSTEM CONTROLS

INTERMEDIATE TRAINING WORKOUT - 30 MIN.

Step	Mode	Seconds	Wave XP Swim Number*	Wave XP Pro Swim Number*	Recommended Exercise*
1	Swim	120	34	30	Breast stroke
2	Jog	120	34	30	Running in place
3	Jog	60	1	1	Step-up right leg
4	Jog	60	1	1	Step-up left leg
5	Jog	60	45	39	Butt kicks
6	Jog	60	1	1	Right leg raise
7	Jog	60	1	1	Left leg raise
8	Jog	60	1	1	Arm circles forward
9	Jog	60	1	1	Arm circles backward
10	Jog	60	45	39	High knees
11	Jog	60	1	1	Band (shoulder press)
12	Swim	60	45	39	Breast stroke
13	Jog	60	1	1	Band (chest press)
14	Swim	60	34	30	Free style swim
15	Jog	60	1	1	Band (bicep curl) right arm
16	Jog	60	1	1	Band (bicep curl) left arm
17	Swim	60	34	30	Free style swim
18	Jog	60	1	1	Seated pull rows
19	Jog	60	45	39	Running in place
20	Jog	60	1	1	Dumb bells push/pull
21	Jog	60	45	39	Breast stroke
22	Jog	60	1	1	Band (tricep extension)
23	Jog	60	45	39	Butt kicks
24	Jog	60	1	1	Dumb bells push and squeeze at end
25	Jog	60	45	39	High knees
26	Swim	60	56	48	Body weight
27	Jog	120	14	11	Running in place

*Swim Number speed depends on propulsion system equipped in swim spa.

** See Swim Number App for iPad or exercise book for detailed exercise instructions.

PROPULSION SYSTEM CONTROLS

ADVANCED TRAINING WORKOUT - 45 MIN.

Step	Mode	Seconds	Wave XP Swim Number*	Wave XP Pro Swim Number*	Recommended Exercise**
1	Swim	120	34	30	Breast stroke
2	Jog	120	34	30	Running in place
3	Jog	60	1	1	Step-up right leg
4	Jog	60	1	1	Step-up left leg
5	Jog	60	45	39	Butt kicks
6	Jog	60	1	1	Right leg raise
7	Jog	60	1	1	Left leg raise
8	Jog	60	1	1	Arm circles forward
9	Jog	60	1	1	Arm circles backward
10	Jog	60	45	39	High knees
11	Jog	60	1	1	Band (shoulder press)
12	Swim	120	45	39	Breast stroke
13	Jog	60	1	1	Band (chest press)
14	Swim	120	56	48	Free style swim
15	Jog	60	1	1	Step-up right leg
16	Jog	60	1	1	Step-up left leg
17	Swim	120	45	39	Breast stroke
18	Jog	60	1	1	Band (bicep curl) right arm

Step	Mode	Seconds	Wave XP Swim Number*	Wave XP Pro Swim Number*	Recommended Exercise**
19	Jog	60	1	1	Band (bicep curl) left arm
20	Swim	120	56	48	Free style swim
21	Jog	60	1	1	Seated pull rows
22	Jog	60	1	1	Arm circles forward
23	Jog	60	1	1	Arm circles backward
24	Swim	120	45	39	Breast stroke
25	Jog	60	1	1	Dumb bells push/pull
26	Swim	120	56	48	Free style swim
27	Jog	60	1	1	Band (tricep extension)
28	Jog	60	1	1	Step-up right leg
29	Jog	60	1	1	Step-up left leg
30	Jog	60	45	39	Butt kicks
31	Jog	60	1	1	Dumb bells push and squeeze at end
32	Jog	60	1	1	Arm circles forward
33	Jog	60	1	1	Arm circles backward
34	Jog	60	45	39	High knees
35	Swim	60	56	48	Body weight
36	Jog	120	14	11	Running in place

*Swim Number speed depends on propulsion system equipped in swim spa.
 ** See Swim Number App for iPad or exercise book for detailed exercise instructions.

PROPULSION SYSTEM CONTROLS

BEGINNER SWIM WORKOUT - 25 MIN.

Step	Mode	Seconds	Wave XP Swim Number*	Wave XP Pro Swim Number*	Recommended Exercise**
1	Swim	60	41	35	Free Style Swim
2	Swim	60	41	35	Kick Chore
3	Swim	60	34	30	Catch Up Drill
4	Swim	60	47	40	Backstroke
5	Jog	60	1	1	Jog in Place
6	Swim	60	47	40	Free Style Swim
7	Swim	60	41	35	Kick Chore
8	Swim	60	34	30	Catch Up Drill
9	Swim	60	47	40	Backstroke
10	Jog	60	1	1	Jog in Place
11	Swim	60	47	40	Free Style Swim
12	Swim	60	41	35	Kick Chore
13	Swim	60	34	30	Catch Up Drill
14	Swim	60	47	40	Backstroke
15	Jog	60	1	1	Jog in Place
16	Swim	60	47	40	Free Style Swim
17	Swim	60	41	35	Kick Chore
18	Swim	60	34	30	Catch Up Drill
19	Swim	60	47	40	Backstroke
20	Jog	60	1	1	Jog in Place
21	Swim	60	47	40	Free Style Swim
22	Swim	60	41	35	Kick Chore
23	Swim	60	34	30	Catch Up Drill
24	Swim	60	47	40	Backstroke
25	Swim	60	41	35	Free Style Swim

*Swim Number speed depends on propulsion system equipped in swim spa.

** See Swim Number App for iPad or exercise book for detailed exercise instructions.

PROPULSION SYSTEM CONTROLS

INTERMEDIATE SWIM WORKOUT - 25 MIN. 30 SEC.

Step	Mode	Seconds	Wave XP Swim Number*	Wave XP Pro Swim Number*	Recommended Exercise**
1	Swim	120	34	30	Free Style Swim
2	Swim	60	34	30	Fly Drill 2-2-2
3	Swim	60	1	1	W Fly 5 Strokes Fast + 10 55 FR EZ
4	Swim	120	1	1	Free Style Moderate Effort
5	Swim	60	45	39	Free Style Hard Effort
6	Jog	30	1	1	Jog in Place
7	Swim	60	1	1	Fly Drill 2-2-2
8	Swim	60	1	1	W Fly 5 Strokes Fast + 10 55 FR EZ
9	Swim	120	1	1	Free Style Moderate Effort
10	Swim	60	45	39	Free Style Hard Effort
11	Jog	30	1	1	Jog in Place
12	Swim	60	45	39	Fly Drill 2-2-2
13	Swim	60	1	1	W Fly 5 Strokes Fast + 10 55 FR EZ
14	Swim	120	1	1	Free Style Moderate Effort
15	Swim	60	45	39	Free Style Hard Effort
16	Jog	30	1	1	Jog in Place
17	Swim	60	45	39	Fly Drill 2-2-2
18	Swim	60	1	1	W Fly 5 Strokes Fast + 10 55 FR EZ
19	Swim	120	45	39	Free Style Moderate Effort
20	Swim	60	56	48	Free Style Hard Effort
21	Swim	120	14	11	Free Style Swim

*Swim Number speed depends on propulsion system equipped in swim spa.

**See Swim Number App for iPad or exercise book for detailed exercise instructions.

PROPULSION SYSTEM CONTROLS

ADVANCED SWIM WORKOUT - 41 MIN.

Step	Mode	Seconds	Wave XP Swim Number*	Wave XP Pro Swim Number*	Recommended Exercise**
1	Swim	180	47	40	Free Style Swim
2	Swim	60	47	40	Catchup with Steady Kick
3	Swim	60	60	50	Free Style Moderate Effort
4	Swim	60	76	65	Free Style Hard Effort
5	Swim	60	47	40	KKP Breast Drill
6	Swim	60	76	65	Breast Hard
7	Jog	60	1	1	Jog in Place
8	Swim	60	41	35	EZ Kick
9	Swim	60	47	40	Moderate Kick
10	Swim	60	54	46	Hard Kick
11	Swim	60	47	40	Catchup with Steady Kick
12	Swim	60	60	50	Free Style Moderate Effort
13	Swim	60	76	65	Free Style Hard Effort
14	Swim	60	47	40	KKP Breast Drill
15	Swim	60	76	65	Breast Hard
16	Jog	60	1	1	Jog in Place
17	Swim	60	41	35	EZ Kick
18	Swim	60	47	40	Moderate Kick
19	Swim	60	54	46	Hard Kick

Step	Mode	Seconds	Wave XP Swim Number*	Wave XP Pro Swim Number*	Recommended Exercise**
20	Swim	60	47	40	Catchup with Steady Kick
21	Swim	60	60	50	Free Style Moderate Effort
22	Swim	60	76	65	Free Style Hard Effort
23	Swim	60	47	40	KKP Breast Drill
24	Swim	60	76	65	Breast Hard
25	Jog	60	1	1	Jog in Place
26	Swim	60	41	35	EZ Kick
27	Swim	60	47	40	Moderate Kick
28	Swim	60	54	46	Hard Kick
29	Swim	60	47	40	Catchup with Steady Kick
30	Swim	60	60	50	Free Style Moderate Effort
31	Swim	60	76	65	Free Style Hard Effort
32	Swim	60	47	40	KKP Breast Drill
33	Swim	60	76	65	Breast Hard
34	Jog	60	1	1	Jog in Place
35	Swim	60	41	35	EZ Kick
36	Swim	60	47	40	Moderate Kick
37	Swim	60	54	46	Hard Kick
38	Swim	120	41	35	Free Style Swim

*Swim Number speed depends on propulsion system equipped in swim spa.

** See Swim Number App for iPad or exercise book for detailed exercise instructions.

PROPULSION SYSTEM

TECHNICAL INFORMATION

CRITICAL REPLACEMENT COMPONENT PART NUMBERS:

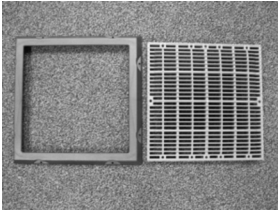
WARNING: Items listed below shall only be replaced with identical components unless approved by Master Spas Engineering Department. Any change or alteration to the system components will cause a safety hazard and void the safety certification.

PROPULSION SUCTION GRATES MISC. SPECIFICATIONS:

- Wall mount only
- Life span 7 years
- Tools required – No. 2 Phillips screwdriver
- Pulley system shall be 1:1 ratio only

NOTE: Fittings and fasteners should be observed for damage or tampering before each use of the swim spa.

- Propulsion suction grate assembly: X804490
- Propulsion grate fasteners (4 per grate): X717900



- Propeller
 - Wave XPX400820
 - Wave XP PROX400820
- *Max. Frequency
 - Wave XP 60Hz.
 - Wave XP PRO 68Hz.

*This is the certified maximum frequency. Actual frequency setting may vary.

NOTE: The propulsion system is designed to operate at any speed (Swim Number 1-100) for 30 minutes. The propulsion system can be operated for as much as 60 minutes continuous as long as the Swim Number is limited to 90 or below. If Swim Number exceeds 90 for more than 30 minutes, the propulsion motor could shut down to protect itself or trip the internal GFCI breaker. This is considered normal and can be avoided by operating the system as described above. If the system shuts down, verify that the internal GFCI is reset (on), allow time for the motor to cool, then operate as normal.

FUSION AIR SOUND SYSTEM (IF EQUIPPED)

REMOTE CONTROL POWER & SYNCING

WARNING – Never remain in your swim spa longer than 15 minutes per session when the water temperature is above 98°F. If you wish to spend more time in your swim spa, whether enjoying music, or just lounging, be sure to keep the swim spa water at or below body temperature (98.6°F).

WARNING – Prevent Electrocutation. Do not connect any auxiliary/external components to the system (i.e. cables, additional speakers, headphones, additional Audio/Video components, etc.).


HANDHELD REMOTE CONTROL CHARGING

The remote has a built-in Polymer Lithium rechargeable battery and comes with a charging cable. Connect one end of the charging cable to the charging connection on remote control and connect the USB end of the charging cable to any USB charger (5V DC) for charging. Be sure charging connection is dry or allowed to dry before connecting to charge.




Make sure the remote has been charged before used. Do not leave remote under swim spa cover when not in use. Always store remote in dry location when not in use.

HANDHELD REMOTE CONTROL SYNCHRONIZING

The remote should already be paired from the factory, but if you need to synchronize the remote, follow the steps below:

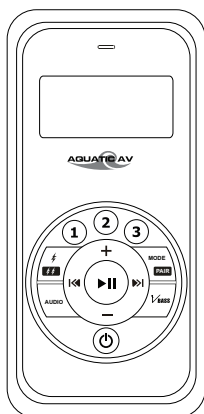
1. Make sure BlueCube+ Media Player is powered ON (red LED).
2. Put the remote within 20 inches (0.5 meter) of the BlueCube+ Media Player.
3. Press and hold  MODE on remote control until the LCD shows “Pairing in Progress”. Release the button.
4. Within 2 seconds, the LCD will show “Paired”. If it fails to pair, the LCD will show “Retry again”. If this happens, wait 5 seconds and repeat steps above.

For any additional remote controls, you will also need to synchronize those remote controls to the BlueCube+ Media Player.

-  *If the pairing process is not successful, try again to put your remote close to the remote receiver or charge the remote control if the battery is low.*
-  *Depending on the frequency of usage, the remote may drain its battery. Please charge the remote before use. If the LCD shows nothing, the battery has been drained and will need charging.*
-  *If you have lost or damaged your remote control and buy a new remote control, follow the above steps to pair the new remote control.*

FUSION AIR SOUND SYSTEM (IF EQUIPPED)

EXPLANATION OF CONTROLS



STEREO OUTPUTS

Internal stereo module has capabilities for Bluetooth, FM Radio, AUX and USB. There is no external capabilities for AUX and USB. For this reason, these inputs will not be applicable when seen on remote. Simply use Mode to rotate back to either Bluetooth input or FM.

REMOTE CONTROL

BUTTONS		BLUETOOTH	FM RADIO MODE
Power		Press once: Toggle from Operation mode to Standby mode or vice-versa. Press and hold: No function.	
Mode/Pair		Press once: Change mode. Press and hold: Synchronize remote control.	
Volume Up		Press once: Volume up Press and hold: Fast volume up	
Volume Down		Press once: Volume down Press and hold: Fast volume down	
Fast Forward		Press once: Next track Press and hold: Fast forward	Press once: +0.05kHz Press and hold: Scan up
Fast Rewind		Press once: Previous track Press and hold: Fast rewind	Press once: -0.05kHz Press and hold: Scan down
Play/Pause		Press once: Play/Pause Press and hold: No function	Press once: Toggle mute Press and hold: No function
1		Press once: No function Press and hold: No function	Press once: Listen to FM preset station 1 Press and hold: Set preset FM station 1
2		Press once: No function Press and hold: No function	Press once: Listen to FM preset station 2 Press and hold: Set preset FM station 2
3		Press once: No function Press and hold: No function	Press once: Listen to FM preset station 3 Press and hold: Set preset FM station 3
EXT Trigger		Press once: No function Press and hold: No function	Press once: No function Press and hold: No function
Audio		Press once: Enter Audio Menu Press and hold: Save & Exit Audio Menu	
VBass		Press once: Toggle VBass on/off Press and hold: No function	







FUSION AIR SOUND SYSTEM (IF EQUIPPED)

LISTENING TO DEVICES

PAIR WITH BLUETOOTH DEVICE

1. Switch on your Bluetooth device.
2. Select 'AQUATIC AV' from the list of available devices to pair (no password is needed).





LISTENING VIA BLUETOOTH DEVICE

1. Bluetooth mode will be activated once a Bluetooth device is paired in any mode. Use  (MODE) to change to the Bluetooth mode to listen to music.
2. Play the song from device and the sound will play through the BlueCube+ Media Player.
3. Press  (PLAY/PAUSE) to play/pause the song.
4. Press  /  (FAST REWIND/FAST FORWARD) buttons to play previous/next song file.
5. Press and hold  /  (FAST REWIND/FAST FORWARD) buttons to fast forward / fast rewind the song file.
6. Previous/next track and volume up/down can be controlled directly from your Bluetooth device or directly from the BlueCube+ Media Player remote control.

BLUETOOTH MULTI-LINK

A second Bluetooth device can pair to the BlueCube+ Media Player even when it has been paired to another Bluetooth device. The second Bluetooth device will be able to play once the first device has stopped playing.



ADJUST VOLUME LEVEL


1. Press  (VOLUME UP) once to increase the volume.
2. Press  (VOLUME DOWN) once to reduce the volume.
3. Press and hold either  or  (VOLUME UP or VOLUME DOWN) to increase or decrease audio volume continuously.

FUSION AIR SOUND SYSTEM (IF EQUIPPED)

LISTENING TO DEVICES



ENTER FM RADIO MODE

1. Press  (MODE) on the remote control to switch to FM radio mode.
2. Press  (PLAY/PAUSE) to mute or unmute the audio.




 If this is the first time you listen to FM radio, the default frequency will be 87.5MHz, as shown on the remote LCD.

 FM radio is only available when you are in FM Radio mode. Scan or seek FM radio Channels.


SCAN OR SEEK FM RADIO CHANNELS

1. Press  (FAST REWIND/FAST FORWARD) to seek another station.
2. Press once  (FAST REWIND/FAST FORWARD) to -0.05kHz or +0.05kHz to the frequency.





SAVING RADIO CHANNEL TO MEMORY

To save the current frequency to memory, press and hold the ,  or  for more than 2 seconds. The station will be stored into relevant button.

LISTENING TO SAVED RADIO MEMORY

Press the ,  or  preset button once to listen to the station stored in that button.

ADJUST VOLUME LEVEL

1. Press  (VOLUME UP) once to increase the volume.
2. Press  (VOLUME DOWN) once to reduce the volume.
3. Press and hold either  or  (VOLUME UP or VOLUME DOWN) to increase or decrease audio volume continuously.

FUSION AIR SOUND SYSTEM (IF EQUIPPED)

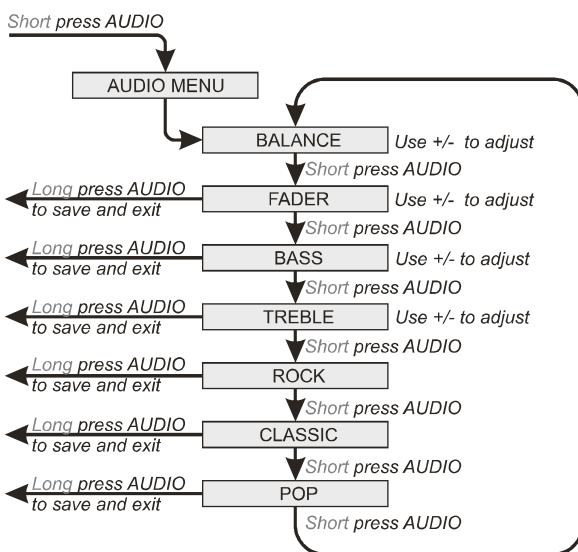
ADDITIONAL FEATURES

AUDIO MENU

The BlueCube+ Media Player is equipped with an audio DSP (Digital Signal Processor) to provide preset listening experiences for different music types.

1. To enter audio menu, press **AUDIO** (AUDIO) button once on the remote control.
2. Each press of **AUDIO** (AUDIO) button will advance to the next audio setting as described on the right.
3. In the audio menu, press and hold **AUDIO** (AUDIO) to save and exit the audio menu back to the original mode.

If you have chosen preset equalizer (Rock, Classic, or Pop), the previous Bass & Treble settings will be overridden.



VIRTUAL BASS (VBASS)

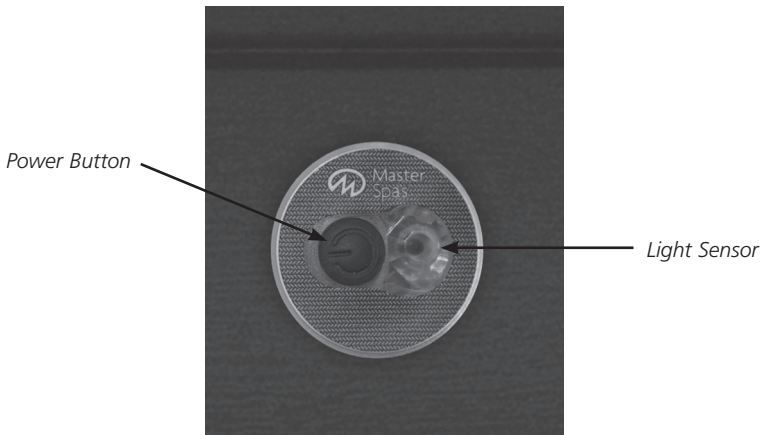
Virtual Bass (VBass) boosts the bass of the audio signal using the latest DSP technology and is particularly useful when used with very small speakers to create perceived bass frequencies of a much larger speaker.

Press **VBASS** (VBASS) once on the remote control to toggle it on or off.

WAVE LIGHTING (IF EQUIPPED)

Set into a decorative SoftTread™ insert, this laser LED light provides a warm and inviting glow to the exterior of your swim spa at night and looks great as part of your backyard design. The Wave Light Package is available for most deep swim spa models.

This feature utilizes a light sensor to turn on as daylight diminishes (dusk) and remains on through the night. You can manually shut off the lights by pressing the power button located on the light sensor, found on the short, seated end of your swim spa. The Wave Lighting feature is only activated by darkness. It will not turn on during daylight hours or in well lit areas.



MAST3RPUR™ (IF EQUIPPED)

NOTE: This regular maintenance for the Mast3rPur™ system is not covered under the warranty of the swim spa. Your Master Spas dealer or service organization can be contacted to schedule this maintenance.

WARNING – BEFORE PERFORMING ANY MAINTENANCE ON THE MAST3RPUR™ SYSTEM, MAKE SURE THE SWIM SPA IS SHUT DOWN.

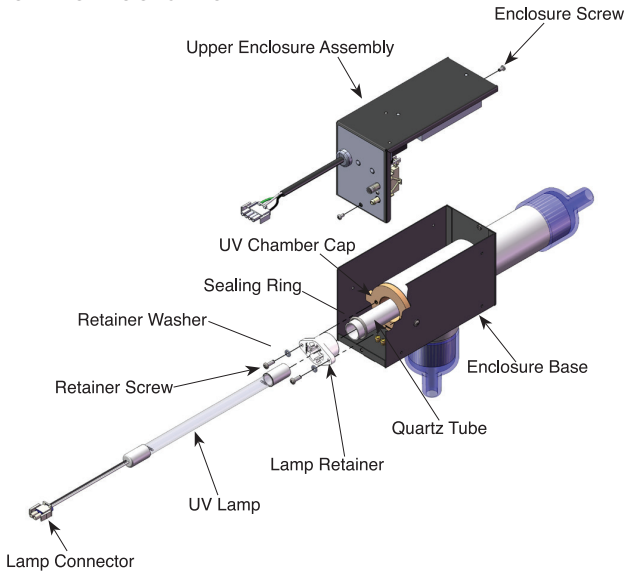


Figure 2: Spa Solar Eclipse Exploded View

UV LAMP REMOVAL

If the Green Power Indicator is on, but the Blue UV Lamp Indicator is off, the UV lamp needs to be replaced. For maximum UV sanitation effect, replace the UV Lamp every 18 months. Refer to Figure 2.

1. Make sure the unit is disconnected from power and the lamp has cooled before starting maintenance.
2. Open the Spa Solar Eclipse by removing the two Enclosure Screws on the Upper Enclosure Assembly and lifting it from the Enclosure Base.
3. Disconnect the Lamp Connector attached to the lamp wires and place the Upper Enclosure Assembly in a safe place.
4. Gently pull the Lamp Wires till the top of the UV Lamp is out of the Lamp Retainer. Grasp the white ceramic end of the UV Lamp and pull until it is fully removed. **IF YOU ARE NOT REPLACING THE LAMP, DO NOT TOUCH THE UV LAMP GLASS WITH YOUR BARE HANDS.** The oils on your hands can cause hot spots on the lamp and shorten its life. If oil from your fingers is left on the lamp glass, clean it off with a soft towel and rubbing alcohol. If you are removing an old lamp for replacement, handle the lamp carefully and dispose properly (see Environmental Notice).
5. Set the UV Lamp aside in a safe place.

INSTALLING THE UV LAMP

1. Make sure to handle the new lamp by the ceramic endcaps and clean the UV Lamp before installation if needed.
2. Slowly place the UV Lamp into the Lamp Retainer until the top of the UV Lamp is pushed past the tabs on the Lamp Retainer.
3. Connect the Lamp Connector to its corresponding part in the Ballast Assembly.

ENVIRONMENTAL NOTICE: UV Lamp CONTAINS MERCURY. Manage in accordance with disposal laws. See: www.lamprecycle.org

UV REACTOR SERVICE AND MAINTENANCE

The UV Lamp is housed in a Quartz Tube. If the Quartz Tube becomes dirty, its ability to transmit rays from the UV Lamp will be diminished and decrease system performance. The Quartz Tube should be removed from the UV Reactor at least once a year or during a routine swim spa water change for inspection and cleaning if necessary.

QUARTZ TUBE REMOVAL AND CLEANING

CAUTION – Wear proper eye and skin protection for servicing glass components.

1. Make sure the swim spa is shut down and the UV Lamp and Quartz Tube have cooled before performing maintenance on the Quartz Tube. If you have installed Isolation Valves, close them before servicing. If you do not have Isolation Valves, the swim spa must be drained below where the Spa Solar Eclipse is mounted.
2. Remove the Upper Enclosure Assembly and UV Lamp as described in the “UV Lamp Removal” instructions and set aside in a safe place.
3. Remove the two Retainer Screws and Retainer Washer from the top of the Lamp Retainer and slowly pull the Lamp Retainer out of the UV Chamber Cap.

CAUTION – If there is any water remaining in the plumbing, it will start to leak after the Lamp Retainer is removed.

4. Grasp the inside of the Quartz Tube and pull it out of the housing. Make sure the Sealing Ring does not get lost during Quartz Tube removal.
5. Inspect the Sealing Ring for nicks or hardness and replace if necessary.
6. Clean the Quartz Tube exterior with a mild solution of muriatic acid and water in a ratio of four parts water to one part acid (4:1). DO NOT USE ABRASIVE CLEANERS as they can scratch the high quality quartz glass.

CAUTION – Follow the directions for safe use and handling of muriatic acid on the acid bottle label. Never add water to acid. Always add acid to water.

7. After cleaning the Quartz Tube, wash it off with water and wipe dry with a soft towel. Inspect the Quartz Tube for cracks and replace if cracks are found.
8. Make sure the inside of the Quartz Tube is dry before replacing the UV Lamp(s).

NOTE: Damage caused by broken quartz tubes is not covered under the Mast3rPur™ System Limited Warranty.

QUARTZ TUBE INSTALLATION

1. Place the Sealing Ring on the Quartz Tube 3/4 inch from the open end.
2. Insert the Quartz Tube partially into the UV Chamber Cap. Place the Lamp Retainer over the open end of the Quartz Tube and slowly push in until it is touching the UV Chamber Cap.
3. Place the Retainer Washers onto the Retainer Screws and screw the Lamp Retainer Screws until the Lamp Retainer is completely seated against the UV Chamber Cap.
4. After swim spa is refilled, turn the swim spa ON and check the seal around the Lamp Retainer for leaks.
5. Correct any leak found by carefully tightening the retainer screws making sure lamp retainer is snug. Be careful not to over-tighten and damage lamp retainer. If leaking continues, contact your Master Spas dealer for service.
6. SHUT DOWN the swim spa once you have confirmed that there are no leaks.
7. Install the UV Lamp as described in the "Installing the UV Lamp" instructions.
8. Reinstall the Upper Enclosure Assembly to the Enclosure Base.
9. The unit is now ready for normal operation.

Contact your Master Spas dealer for replacement Mast3rPur™ parts and scheduling service for this regular maintenance.

NOTE: The ozone hose and check valve connecting between the ozone generator and ozone injector should be inspected and/or replaced, if necessary, every 12 months. Depending on conditions of the air which is being brought in to the ozone generator, the ozone hose and check valve can wear more rapidly. This regular maintenance is not covered under the swim spa warranty.

SOFTTREAD™ FLOOR SYSTEM BY SWIMDEK® (IF EQUIPPED)

The exclusive SoftTread Nonslip Comfort Floor System by SwimDek is available as a premium option on swim spas manufactured by Master Spas to provide better grip, traction and comfort on both the steps and floor of the swim spa. Making our swim spas as safe and easy as possible to use while getting in, out, or exercising.

Care & Maintenance Recommendations:

- SoftTread Nonslip Comfort Floor System by SwimDek cleans easily with soap, hot water and a brush (soft to medium bristle stiffness). Chlorine/bleach and water mixture, isopropyl rubbing alcohol or other household cleaner such as SoftScrub, Simple Green and 409 can be used to clean the pads.
- Be sure any soap or cleaning product is thoroughly rinsed from the pads and swim spa shell and this residue is removed before re-filling swim spa to prevent foaming.
- Always promptly attend to and clean any noticeable stains.

Never:

- Allow stains to develop without promptly being attended to and cleaned.
- Clean with acid based cleaning products.
- Use acetone or mineral spirits on SoftTread Nonslip Comfort Floor System by SwimDek or swim spa shell as damage caused to the swim spa shell from these chemicals would not be warranted.

SoftTread is a registered trademark of Hyperform, Inc., dba SwimDek.

LIMITED WARRANTY

MICHAEL PHELPS SIGNATURE SWIM SPAS

MICHAEL PHELPS
SIGNATURE SWIM SPAS™

BY MASTER SPAS

NOTE: This Standard Limited Warranty applies to residential use within the United States and Canada. If you purchased or acquired an Extended Limited Warranty, please see the Extended Limited Warranty either included with the owner's manual packet or provided by your retailer.

10 YEARS - SWIM SPA STRUCTURE

Master Spas warrants to the original retail purchaser the structural integrity of the swim spa against water loss from the swim spa due to defects in material or workmanship, in the swim spa structure for a period of 10 years from the date of the original retail purchase (parts and labor to repair or replace the swim spa shell or any part of the structure).

7 YEARS - SHELL SURFACE

Master Spas warrants to the original retail purchaser that the acrylic finish will not blister, crack or delaminate for a period of 7 years from the date of original retail purchase as a result of defects in material or workmanship. Master Spas will either repair or replace the nonconforming shell, including labor to repair or replace the nonconforming shell. (No Shell Surface Warranty on blemished units).

5 YEARS - EQUIPMENT

Master Spas warrants to the original retail purchaser the swim spa equipment (pumps, heater and control system) should a component of the Equipment Pack fail or malfunction due to defects in material and workmanship, for a period of 5 years from the date of the original retail purchase. Master Spas will either repair or replace the applicable component, including replacement parts and labor to install them (parts and labor).

5 YEARS - PLUMBING

Master Spas warrants to the original retail purchaser for a period of 5 years from the date of original retail purchase that the plumbing of the swim spa will not leak due to defects in material and workmanship (Master Spas will provide replacement parts and labor to repair or replace the applicable components). Jet internals are warranted against malfunctions due to defects in material and workmanship for a period of 5 years from the date of original retail purchase (Master Spas will provide replacement jet internal parts only). The cost of shipping and installation of any jet internals is the sole responsibility of the purchaser.

5 YEARS/LIFETIME - SKIRTING* (MasterTech™ & DreamStone™ / DuraMaster Polymer™)

Master Spas warrants to the original retail purchaser that the optional MasterTech™ and DreamStone™ skirting will not crack or rip due to defects in material for a period of 5 years from the date of the original retail purchase. Master Spas warrants to the original retail purchaser only that the DuraMaster Polymer™ skirting will not crack or rip for the life of the swim spa. Bowing that can occur under some conditions is considered normal and excluded by this limited warranty. Normal wear and weathering that occur overtime are not defects. If the skirting on the swim spa fails due to defects in materials or workmanship, Master Spas will replace the applicable skirting components (parts only). The cost of shipping and installation of any replacement skirting is the sole responsibility of purchaser.

2 YEARS - WAVE PROPULSION SYSTEM*

Master Spas warrants to the original retail purchaser that the Wave Propulsion System (propeller drive and all associated components/mountings that operate it including, but not limited to, the Wave control panel and motor) will not malfunction due to defects in material and workmanship for a period of 2 years from the date of the original retail purchase. Master Spas will repair or replace the applicable components, including labor to install (parts and labor).

*If equipped. Options vary by model.

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LIMITED WARRANTY

MICHAEL PHELPS SIGNATURE SWIM SPAS

MICHAEL PHELPS
SIGNATURE SWIM SPAS™

 BY MASTER SPAS

NOTE: This Standard Limited Warranty applies to residential use within the United States and Canada. If you purchased or acquired an Extended Limited Warranty, please see the Extended Limited Warranty either included with the owner's manual packet or provided by your retailer.

3 YEARS -SOFTTREAD™ FLOOR SYSTEM BY SWIMDEK®*

Master Spas warrants to the original retail purchaser that the factory installed SoftTread Floor System by SwimDek will not separate from the floor of the swim spa for a period of 3 years. In the event the adhesion fails causing the pad to come free from the swim spa shell or separation of the pad material occurs; Master Spas will either repair or replace the applicable component(s) including parts and labor. Normal discoloring, fading, or wear of the SoftTread Floor System by SwimDek is not covered by this limited warranty. Causes of these failures include but are not limited to water conditions, chemical levels or UV exposure. See the swim spa owner's manual for proper water chemistry levels, water maintenance and swim spa care for best longevity of your SoftTread Floor System by SwimDek. Damage such as cuts, gouges and scrapes caused to the pad from objects or exercise equipment brought in to the swim spa would not be covered by this limited warranty. SoftTread Floor System by SwimDek purchased and installed after the swim spa was manufactured by Master Spas is not covered by this limited warranty.

SoftTread is a registered trademark of Hyperform, Inc. dba SwimDek

1 YEAR - LED LIGHT SYSTEM*

Master Spas warrants to the original retail purchaser, for a period of 1 year from the date of original retail purchase that the optional, factory installed LED light system will not malfunction due to defects in workmanship and materials (parts). If the LED light system or any component thereof fails due to defects in material or workmanship, Master Spas will either repair or replace the applicable components. This limited warranty on LED light systems covers the labor for a period of 1 year from the date of retail purchase. After 1 year, the purchaser is solely responsible for any labor costs associated with the repair or replacement of an applicable component.

1 YEAR - WAVE LIGHTING*

Master Spas warrants to the original retail purchaser, for a period of 1 year from the date of original retail purchase, that the optional, factory installed Wave Lighting system in the swim spa skirt will not malfunction due to defects in workmanship and materials. If the Wave Lighting system or any of its components thereof has malfunctioned due to defects in workmanship or materials, Master Spas will either repair or replace the applicable components of the Wave Lighting system (parts and labor).

1 YEAR - OZONATOR*

Master Spas warrants to the original retail purchaser that the factory installed ozonator will not malfunction due to defects in materials or workmanship for a period of 1 year from the date of original retail purchase. If the ozonator malfunctions due to a defect in materials or workmanship, Master Spas will either repair or replace the applicable components including parts and labor.

1 YEAR - MAST3RPUR SYSTEM*

Master Spas warrants to the original retail purchaser that the factory installed Mast3rPur system will not malfunction due to defects in materials or workmanship for a period of 1 year from the date of original retail purchase. If the Mast3rPur system malfunctions due to a defect in materials or workmanship, Master Spas will either repair or replace the applicable components including parts and labor.

1 YEAR/90 DAYS - AUDIO EQUIPMENT*

Master Spas warrants to the original retail purchaser, the optional stereo and enclosure components within the audio system against malfunctions due to defects in material and workmanship for a period of 1 year (parts). This limited warranty on all optional Audio Equipment covers labor for a period of 90 days from the date of original retail purchase. After 90 days, the purchaser is solely responsible for any labor costs associated with the repair or replacement of any applicable audio components. Master Spas shall not be responsible for any damages or losses to any accessories (not supplied by Master Spas), including but not limited to iPods or similar systems, caused by a defect or malfunction of any Master Spas supplied component.

*If equipped. Options vary by model.

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LIMITED WARRANTY

EXCLUSIONS AND LIMITATIONS

EXCLUSIONS

This limited warranty is enforceable only by the original retail purchaser from the date of original retail purchase. Light bulbs, light lenses, fuses, covers, swim spa pillows or any dealer installed accessories are specifically excluded from this limited warranty. All warranties are void if the swim spa is placed in commercial service. Normal wear and weathering of finishes and components are not defects and specifically excluded from this limited warranty. In the event it is necessary to remove the swim spa from the residential premises to repair or replace any warrantable item, any and all cost of swim spa removal and replacement including but not limited to removal of the original swim spa and transportation of the replacement swim spa, damages to landscaping, decking, fencing or other structural alteration, or any cost related to obtaining access to the swim spa are the sole responsibility of the purchaser. Swim spa covers are not included or covered by this swim spa warranty.

LIMITATIONS

This limited warranty is voidable if the swim spa has been subject to misuse, alteration or attempted alteration, repairs or attempted repairs by a non-approved service center or if a failure or malfunction is due to improper installation, improper water chemistry, improper maintenance or lack of normal maintenance as prescribed in the Master Spas Owner's Manual, an act of God, weather conditions or other damage from causes beyond the control of Master Spas. Misuse or abuse shall mean operation of the swim spa other than in conformity with the Master Spas Owner's Manual. Such misuse and abuse shall include but not be limited to the following:

- Damage of the swim spa surface and components caused by leaving the swim spa uncovered or due to covering the swim spa with plastic film of any kind.
- Damage to the swim spa surface and components caused by use of a non-insulating cover or an unapproved cover not manufactured by Master Spas when the swim spa is subject to weather conditions and sun.
- Damage to the swim spa surface and components caused by contact with unapproved cleaners or solvents.
- Damage caused by operation of the swim spa at water temperatures outside the range of 34° F - 104° F.
- Freeze damage.
- Damage caused by unapproved sanitizers such as calcium hypochlorite, sodium hydroxide, "tri-chlor" type chlorines or any sanitizing chemical that may remain undissolved on the swim spa surface.
- Damages or malfunction due to a dirty, clogged, calcified filters or use of an unapproved filter cartridge.
- Damages or malfunction caused by failure to provide even, proper support for the swim spa.
- Damages or malfunction caused during installation of the swim spa.
- Damages or malfunction caused by use of unapproved filter cartridges.

LIMITED WARRANTY

EXCLUSIONS AND LIMITATIONS

WARRANTY REGISTRATION AND WARRANTY CLAIM PROCEDURE

The original retail purchaser should register their swim spa purchase within 10 days from the date of original retail purchase to establish proof of purchase with Master Spas. Failure to register does not void this limited warranty but, upon any warranty claim, proof of purchase must first be provided to confirm original retail purchase date to the original retail purchaser. Swim Spa Registration can be submitted online at www.masterspas.com/resources. In the event of a warranty claim of a defect or malfunction covered under the provisions of this limited warranty, the original retail purchaser must first notify in writing the retail dealer who sold the swim spa within ten (10) days of the initial malfunction or discovery of defect. If the retail dealer does not provide service, then the purchaser should contact Master Spas customer service department, via the web site, or provide written notice of the malfunction or defect at the address below. Upon notice of the warranty claim, the retail dealer or an approved independent service center representative will arrange inspection of the swim spa with the retail purchaser to determine if the claimed malfunction or defect is a covered malfunction or defect under this limited warranty. If it is determined that the malfunction is not covered by this limited warranty, the cost of the service call is the sole responsibility of the purchaser. If it is determined that the malfunction or defect is covered under this limited warranty, Master Spas through the retail dealer, or approved independent service center will repair or replace the covered item. In the event of swim spa replacement, the replacement swim spa will carry the balance of the original swim spa warranty from the original retail purchase date. Master Spas reserves the right for its dealers or approved service centers to collect from the retail purchaser reasonable travel expenses. In addition, access charges will be assessed if the swim spa is not reasonably accessible for inspection, repair or replacement. This limited warranty is extended only to the original retail purchaser and is not transferable. This limited warranty becomes void upon the transfer of ownership of the swim spa or moving of the swim spa to a different location.

DISCLAIMERS

MASTER SPAS LLC, NEITHER ASSUMES NOR DO WE AUTHORIZE ANY OTHER PERSON TO ASSUME FOR US, ANY OTHER LIABILITY IN CONNECTION WITH THE SALE OF SWIM SPAS MANUFACTURED BY MASTER SPAS. THIS LIMITED WARRANTY SHALL BE THE EXCLUSIVE REMEDY AVAILABLE TO A PURCHASER AND MASTER SPAS SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM MISUSE OF THE SWIM SPA OR CAUSED BY ANY DEFECT, FAILURE OR MALFUNCTION OF THE SWIM SPA, WHETHER A CLAIM IS BASED UPON WARRANTY, CONTRACT, NEGLIGENCE OR OTHERWISE. SOME STATES DO NOT ALLOW THE EXCLUSION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS LIMITATION MAY NOT APPLY TO YOU.

TO THE EXTENT PERMITTED BY APPLICABLE LAW, THIS LIMITED WARRANTY SPECIFICALLY EXCLUDES ANY AND ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND/OR FITNESS FOR A PARTICULAR PURPOSE, OTHERWISE ALL IMPLIED WARRANTIES ARE LIMITED IN DURATION TO TWO (2) YEARS FROM THE ORIGINAL DATE OF RETAIL PURCHASE. SOME STATES DO NOT ALLOW THE LIMITATION OF THE DURATION OF IMPLIED WARRANTIES, SO THIS LIMITATION MAY NOT APPLY TO YOU. THERE ARE NO OTHER WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF ANY KIND OR NATURE WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. SOME STATES DO NOT ALLOW THE LIMITATIONS OF REMEDIES SO THESE LIMITATIONS MAY NOT APPLY TO YOU.

IF YOUR SWIM SPA IS DESIGNATED BY MASTER SPAS AS A "BLEM" OR AS "BLEMISHED", THE SHELL SURFACE IS NOT WARRANTED AND THE SWIM SPA IS PURCHASED "AS IS" REGARDING ANY COSMETIC BLEMISHES.



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SWIM SPA CARE AND MAINTENANCE RECORD

MAINTENANCE AVERAGE TIMETABLES

Below is a list of routine maintenance and the guidelines on how often they should be done. The frequency in which these actions should be performed may vary depending on bather load and how often you use your swim spa.

- Test GFCI - Before each use
- Clean Filter Cartridge - at least once a month
- Clean and Condition Swim Spa Cover - twice a month
- Drain and Clean Swim Spa - every 6 months

MAINTENANCE LOG

Use the following lines to document your swim spa care and maintenance.

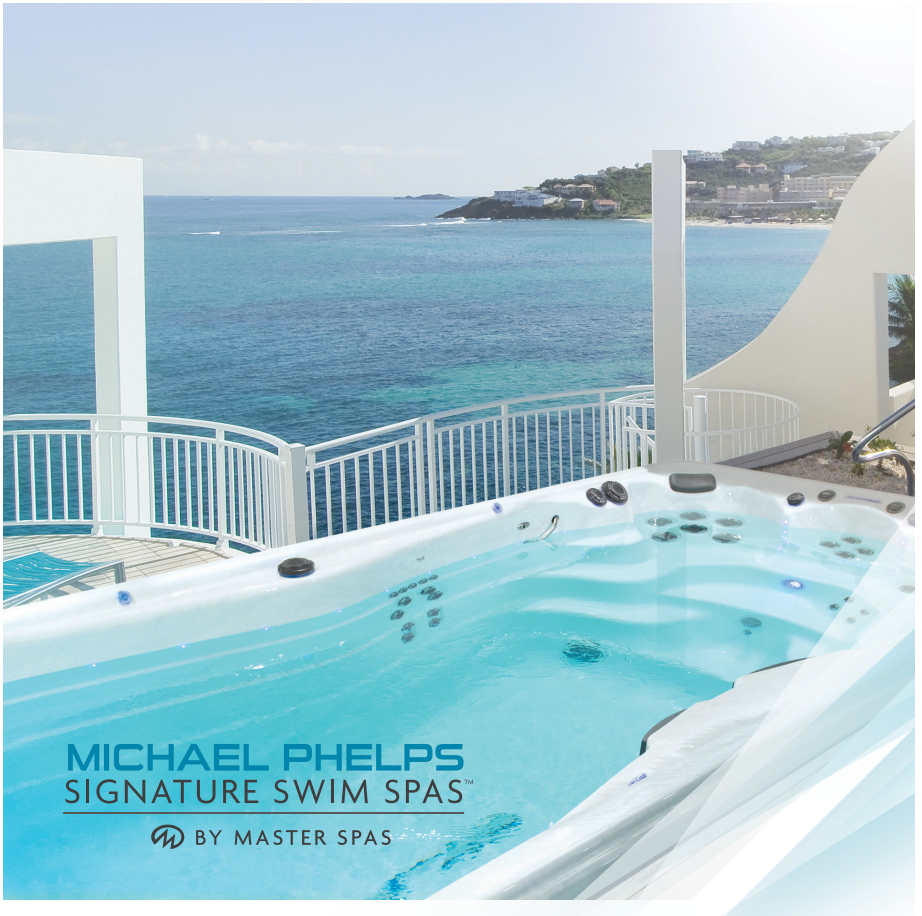
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SWIM SPA CARE AND MAINTENANCE RECORD

MAINTENANCE PERFORMED	DATE	DATE	DATE

SWIM SPA CARE AND MAINTENANCE RECORD

MAINTENANCE PERFORMED	DATE	DATE	DATE



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 BY MASTER SPAS



Customer Support: www.masterspas.com/resources

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