ALERT

Your new swim spa GFCI will trip.

A Ground Fault Interrupter (GFCI) Trip Test must occur to allow proper spa function.

Your swim spa came with special instructions for the installer / electrician. If they have not already advised you on what to do or expect from the GFCI Trip Test, please contact them for instructions.

If the GFCI breaker connected to your swim spa trips, this is normal behavior. Please reset the breaker and enjoy your spa. The trip test has been completed successfully.

If your swim spa was not wired to a GFCI breaker or your breaker fails the GFCI Trip Test, the spa will repeatedly attempt (at preset intervals) to trip the breaker in the future until such time that it triggers a GFCI Trip. If a GFCI does not trip properly, your spa's display will show an error message.

GFCI breakers are important safety devices required by code for your swim spa. For more information, refer to your dealer or to the section in your Owner's Manual titled "Ground Fault Circuit Interrupter."

IMPORTANT SAFETY WARNINGS

SAVE THESE INSTRUCTIONS

NOTE: When installing and using this equipment, basic safety precautions should always be taken to reduce the risk of electrical shock, to ensure safe usage, and to safeguard the user's health. Failure to follow instructions and warnings contained in this Owner's Manual, in the Swim Spa Installation Guide, and on the swim spa itself may result in severe personal injury, including death, as well as property damage.

WARNING:
Children should not use swim spas or hot tubs without adult supervision.

WARNING:
Do not use swim spas or hot tubs unless all suction guards are installed to prevent body and hair entrapment.

WARNING:
People using medications and/or having an adverse medical history should consult a physician before using a swim spa or hot tub.

WARNING:
People with infectious diseases should not use a swim spa or hot tub.

WARNING:
To avoid injury exercise care when entering or exiting the swim spa or hot tub.

WARNING:
Water temperature in excess of 100° F (38° C) may be injurious to your health.

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.

WARNING:
Pregnant, or possibly pregnant, women should consult a physician before using a swim spa or hot tub.

WARNING:
Before entering the swim spa or hot tub measure the water temperature with an accurate thermometer.

WARNING:
Do not use a swim spa or hot tub immediately following strenuous exercise.

WARNING:
Prolonged immersion in a swim spa or hot tub may be injurious to your health.

WARNING:
Do not permit electric appliances (such as a light, telephone, radio, or television) within 1.5m of the swim spa or hot tub.

WARNING:
Maintain water chemistry in accordance with manufacturer's instruction.

WARNING:
The use of alcohol or drugs can greatly increase the risk of fatal hyperthermia in hot tubs and swim spas.

TABLE OF CONTENTS

GFCI Alert.....1

Important Safety Warnings.....2

Table of Contents.....3

Important Safety Instructions.....5
- Dos and Don'ts.....7
- Hyperthermia.....7

Swim Spa installation.....8
- Site and Positioning.....8
- Outdoor Installation.....9
- Indoor Installation.....9

Swim Spa System Components.....10

Swim Spa Components.....11

Jets and Air Controls.....12
- Jets.....12
- Cleaning or Replacing Jets.....12

Electrical Information.....13
- Important Safety Instructions.....13
- Installation Options.....13
- Amperage Charts.....15

Start Up Procedures.....16
- Priming Your Swim Spa.....16

TP600 Control Panel.....17
- Main Menus.....17
- Filling Your Spa.....18
- Spa Behavior.....18
- Temperature and Temp Range.....19
- Mode - Rest and Ready.....20
- Show and Set Time-of-Day.....20
- Flip (Invert Display).....20
- Restricting Operation.....21
- Unlocking.....21
- Adjusting Filtration.....21
- Wi-Fi Connectivity.....21
- GFCI Trip Test.....21

TP800 Control Panel.....22
- Button Functions.....22
- The Main Screen.....23
- Spa & Shortcut Screens.....23
- The Settings Screen.....24
- Filling Your Spa.....25
- Spa Behavior.....26
- Time-of-Day.....26
- Adjusting Filtration.....27
- Restricting Operation.....27
- Unlocking.....27
- Wi-Fi Connectivity.....27
- GFCI Test Feature.....27
- Scenes.....27

Bluetooth Connection.....28

WiFi Connectivity.....29
- Smart Device WiFi Spa Controls.....29
- Getting Started.....29
- After Application Download.....29
- Connect to your Spa.....29
- Connecting to WiFi Network.....30
- Application Functions.....31
- Settings.....31
- Setting Time.....31
- Setting Filter Cycles.....32
- Controls.....32

Safety Features.....33
- Automatic Time Outs.....33
- Common LCD Equipment Messages.....33
- Common LCD Messages.....34

TABLE OF CONTENTS

Maintenance.....35
Water Chemistry.....35
Sanitizing.....35
pH Level.....35
Water Maintenance.....35
Sanitizing With Ozone.....36
Specialty Chemicals.....36
Draining Your Swim Spa.....36
Filter Maintenance.....37
Winterizing.....37
Swim Spa Cabinet Care.....38
Swim Spa Surface Care and Cleaning.....38
Underwater LED light cluster.....38

Common Water Problems.....40

Common Hardware Problems.....43

Swim Spa Soaking Guidelines.....45

MXBP20 Series System Wiring Diagram.....47

VS501 Series System Wiring Diagram.....48

MXBP501 Series System Wiring Diagram....49

GS501 Series System Wiring Diagram.....50

MXBP21 Series System Wiring Diagram.....51

Safety Sign/Limited Warranty Summary.....52

Copyrights and Trademarks.....53

Notes.....54

IMPORTANT SAFETY INSTRUCTIONS

READ AND FOLLOW ALL INSTRUCTIONS

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

2. A wire connector is provided on this unit to connect a minimum 6 AWG (5.15 mm^2) 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.

3. (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.

4. **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 spa unless they are supervised at all times.

5. **DANGER** - Risk of injury. The suction fittings in this spa are sized to match the specific water flow created by the pump. Should the need arise to replace the suction fittings or the pump, be sure that the flow rates are compatible.

    Never operate spa if the suction fittings are broken or missing. Never replace a suction fitting with one rated less than the flow rate marked on the original suction fitting.

6. **DANGER** - Risk of Electric Shock. Install at least 5 feet (1.5m) from all metal surfaces. As an alternative, a spa may be installed within 5 feet of metal surfaces if each metal surface is permanently connected by a minimum 6 AWG (5.15 mm^2) solid copper conductor to the wire connector on the terminal box that is provided for this purpose.

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

8. **WARNING** - To reduce the risk of injury:
    a. The water in a spa should never exceed 40°C (104°F). Water temperatures between 38°C (100°F) and 104°F (40°C) are considered safe for a healthy adult. Lower water temperatures are recommended for young children and when spa use exceeds 10 minutes.
    b. Since excessive water temperatures have a high potential for causing fetal damage during the early months of pregnancy, pregnant or possibly pregnant women should limit spa water temperatures to 38°C (100°F).
    c. Before entering a spa the user should measure the water temperature since the tolerance of water temperature-regulating devices varies.

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

e. Obese 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 spa.

SAVE ALL INSTRUCTIONS

NOTE: Check with your state/local code enforcement officer to determine electrical code requirements and compliance. Use a qualified licensed electrician to complete all spa final electric connections.

Caution: Risk of electrical shock. Read and follow all instructions.

TO AVOID RISK OF ELECTRICAL SHOCK:

1. A green colored terminal or a terminal marked G, GR, Ground, Grounding, or the international symbol ⏚ is located on the side of the supply terminal box or compartment. This terminal must be connected to the grounding means provided in the electric supply service panel, using a continuous copper wire equivalent in size to the circuit conductors supplying this equipment.
   **IEC Publication 417, Symbol 5019.*

2. At least two lugs marked "BONDING LUGS" are provided on the external surface or on the inside of the supply terminal box or compartment. Connect the local common bonding grid (house-hold ground) in the area of the hot tub or spa to these terminals, using an insulated or bare copper conductor not smaller than No. 6 AWG.

3. All field-installed metal components such as rails, ladders, drains or similar hard ware located within 5 ft. of the spa or hot tub shall be bonded to the equipment grounding bus with copper conductors not smaller than No. 6 AWG.

4. **Never** connect unit to a power supply with a load controller.

5. Install to provide drainage of compartment for electrical components.

6. The electrical supply for this product must include a suitably rated switch or circuit breaker to open all ungrounded supply conductors. This disconnecting means must be readily accessible for operation but installed at least 1.5m from the spa. All electrical connections should comply with local regulations.

Dos and Don'ts of Spa Care:

Do:

- **Save these instructions!**
- Replace the cover immediately after use.
- Keep the cover locked when spa is not in use.
- Be aware of the dangers of a wet and slippery surface. Use caution when entering and exiting your spa.
- Have a licensed electrician make all final electrical connections.
- Replace worn, frayed or broken electrical cords.
- Keep the water chemistry correctly balanced. Untreated spa water will cause problems with your spa and equipment as well as being a health risk.
- Clean the spa filter monthly or as needed.
- Position the spa so that all sides remain accessible for maintenance.
- Use a bathing cap for long hair.
- Refer to information on hyperthermia, next column.
- Use only authorized spa care products for the best performance and to keep the water properly balanced.

Don't:

- Use the spa at 104°F (40°C) for long periods of time (more than 30 minutes). **See Hyperthermia**, next column.
- Use an extension cord to power your spa.
- Allow anyone to stand on the spa cover. It is not designed to support weight.
- Power the spa unless it is filled with water 5-6" below top of the lip of the spa.
- Operate the pump on high speed for extended periods of time with the cover in place. Extended operation can cause heat build-up and interfere with spa operation.

Hyperthermia

The causes, symptoms, and effects of hyperthermia may be described as follows: Hyperthermia occurs when the internal temperature of the body reaches a level several degrees above the normal body temperature of 98.6°F (37°C). The symptoms of hyperthermia include an increase in the internal temperature of the body, dizziness, lethargy, drowsiness, and fainting. The effects of hyperthermia include:

a. Failure to perceive heat
b. Failure to recognize the need to exit spa or hot tub
c. Unawareness of impending hazard
d. Fetal damage in pregnant women
e. Physical inability to exit the spa or hot tub, and
f. Unconsciousness resulting in the danger of drowning.

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

SWIM SPA INSTALLATION

Danger: Electrical shock risk. Install at least 1.5m from all metal surfaces.

The electrical supply for this product must include a suitably rated switch or circuit breaker to open all ungrounded supply conductors. The disconnecting means must be readily accessible but installed at least 1.5 meters from the Swim spa water. All electrical connections should comply with local regulations.

The appliance should be supplied through

a residual current device (RCD) or Ground Fault Interrupter (GFCI) with a rated tripping current not exceeding 30 mA. Means for disconnection must be incorporated in the fixed wiring in accordance with the wiring rules. Parts containing live parts, except parts supplied with safety extra-low voltage not exceeding 12 V, must be inaccessible to a person in the bath. Earthed appliances must be permanently connected to fixed wiring.

Site and Positioning

MAAX® Spas recommends that a Swim spa be placed in its final installation site by crane. In any installation where a crane cannot be used, you may want to consult with a professional rigging company.

When utilizing a crane for delivery, be sure that crane operator understands the weight of the Swim spa, the height it must be lifted, and the distance that the crane boom must travel. Be sure that the crane operator uses an 8' spreader bar and that the straps wrap all the way around the bottom frame of the Swim spa.

Locate the Swim spa on a solid, level foundation keeping in mind the weight of the filled Swim spa (in excess of 18,000 lb. (8165 kg.) on some models). If you have any doubts about the load bearing ability of your chosen site, contact an architect or a building contractor. The entire perimeter of the Swim spa Frame and bottom must be evenly supported.

We recommend that you provide a concrete foundation pad for the Swim spa. The foundation pad should be wider and longer than the Swim spa by at least 12 inches (30 cm) in each direction. Failure to provide a level surface could structurally damage your Swim spa and void the warranty.

The Swim spa must be installed to allow access for service and maintenance on all four sides; therefore, if you choose to install your Swim spa below grade level, you will be required to have a vault or pit constructed to prevent ground water, rain, snowmelt, or sources of water from collecting around the equipment of the Swim spa. The vault must have either sufficient drainage through a drain line or through the use of a sump pump. The vault must have adequate safe access as to allow for routine maintenance of the Swim spa components.

IMPORTANT: Proper drainage must be provided to keep base dry, especially if installed below grade/in a pit.

WARNING: ACCESS TO THE Swim spa SHOULD BE CONTROLLED IN ACCORDANCE WITH ALL APPLICABLE NATIONAL AND LOCAL CODES. IN SOME LOCATIONS THIS MAY INCLUDE AN APPROVED FENCE WITH SELF-CLOSING, SELF-LOCKING GATE AND/OR A LOCKABLE SAFETY HARDCOVER FOR OUTDOOR USE AND A LOCKABLE DOOR AND/OR SAFETY HARDCOVER FOR INDOOR USE.

Outdoor Installation

The following considerations apply when installing your Swim spa outdoors:

1. Local codes pertaining to fencing.
2. Local electrical and plumbing codes.
3. View from your house.
4. Wind direction.
5. Exposure to sunlight.
6. Location relationship to trees (twigs, leaves and shade).
7. Dressing and bathroom location.
8. Storage area for maintenance equipment and chemicals.
9. Location to facilitate adult supervision.
10. Landscaping and night time lighting.
11. Accessibility to equipment.
12. Location and routing of power supply to Swim spa and foot traffic.

Indoor Installation

In addition to the Outdoor installation consideration, please also understand that the following considerations apply when installing your Swim spa indoors:

1. Indoor Swim spas promote high humidity. Using either ventilation fans or commercial grade de-humidifiers will help to reduce the humidity. Consult your dealer for details.
2. **Floor drains must be provided near the Swim spa to drain off water that may cause falls and /or water damage. Water will splash out of the Swim spa during normal use when swimming and when exiting the Swim spa.**
3. Surface area of foundation pad and surrounding area should be flat with a non-skid finish. Carpeting or other porous materials may retain moisture, which leads to mold, mildew and odors and is not recommended.
4. Walls, ceilings, woodwork should be made of materials capable of withstanding high humidity.
5. MAAX® Spas only recommends the use of a concrete foundation pad to support your Swim spa. If you intend to install your Swim spa in an area where you cannot utilize a concrete foundation pad, you must consult with a structural engineer to ensure the floor load bearing capacities are adequate to support the concentrated Swim spa weight, the weight of the Swim spa occupants, and any furniture or people that will be using the immediate area of the Swim spa.
6. During shipment from the factory, plumbing components may loosen; therefore it is imperative that the Swim spa is double checked for leaks before installing to avoid possible water damage. Your dealer may include this service in their installation procedures.
7. Indoor sunrooms are capable of maintaining high ambient temperatures which may affect the Swim spa water temperature. It is **NOT** recommended that you operate your filter cycles for longer than 4 hours per day under these conditions.

Danger: Electrical shock risk. Install at least 5 feet (1.5 m) from all metal surfaces.

SWIM SPA SYSTEM COMPONENTS

A. Filter Skimmer/Weir: Removes floating debris from the water surface, provides a water return path to equipment, and houses water filter elements.

B. Topside Control Panel: Used to control temperature setting, jet pumps, circulation system, underwater lights and ambient effect lighting.

C. Air Controls: Increases or decreases air entering the jets. Close during heating for maximum efficiency. It is recommended that air controls to the swim jets remain closed during swimming to provide a clearer stream of water which is free from air bubbles.

D. Equipment Pack Service Panel (no user serviceable parts): Spa support system consisting of several of the following devices: electronic control pack, pumps, heater, UV water sanitizer, ozone generator, LED lighting interface and associated electrical controls (not shown).

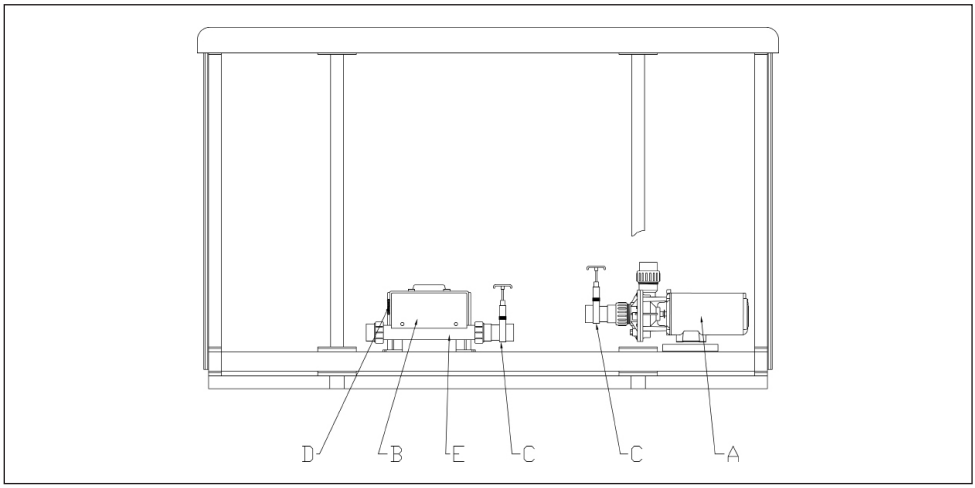
E. Drain Access (Adjacent to the equipment service panel): Drain faucets are located immediately behind the front door panel. Remove panel to access (not shown).

F. Manufacturer's Identification Label: Contains identification information for warranty service (serial number, model number, etc.) and electrical information (ampere rating and ampere requirements). Located on the lower right side of the front door panel (not shown).

G. Diverter Valve: Used to direct the flow of water between the massage jets in the hydrotherapy seats and the swim jets. By turning the diverter valve clockwise, the water is directed to the massage jets in the hydrotherapy seats and by turning the diverter jet counterclockwise, the water is directed to the swim jets.

SWIM SPA COMPONENTS

Reference only. Equipment is not always as shown



Note: No consumer serviceable parts. We recommend that only an authorized service technician perform swim spa repair or service.

A. Pumps: Each pump features single or dual-speed capacity. Low speed is utilized for water circulation during filtration and heating, and for lighter therapy and exercise programs; high speed is engaged for maximum action of the jets when deeper therapy or more rigorous exercise programs are desired. All pump functions are activated by topside controls.

B. Electronic Control Pack: All swim spa functions are operated by this control. There are no user-serviceable components in this control. Opening this control may subject you to high voltage and danger of electrical shock or electrocution.

Warning and Installation Label: Contains important safety information, hazard warnings and installation instructions.

C. Slice Valve: Used to shut off water flow from the swim spa vessel to pumps and electronic control pack while servicing. Quantity will vary depending on model. All valves should be open during normal operations.

D. ElectricalConnections: Contains receptacles for electrical connections. Connections are made during manufacture of the pool and by your electrician.

E. Heater Assembly: Thermostatically controlled and equipped with an overheat safety shut-off.

JETS AND AIR CONTROLS

Swim Area Jets
Swim sp jets are designed to produce a smooth flow of water with high output to create a consistent swim stream. Whether you want to swim or walk/jog against the force of the jets, you will find the flow of water deep enough and swift enough to meet your individual needs.

Hydrotherapy Area Jets
All spa jets are individually engineered to provide a unique hydro-massage. Depending on the model, your spa will have a combination of the following jets.

Directional Jets
Positioned to focus on large muscle groups, these jets deliver a concentrated, high volume stream of water for a deep massage. Each jet is fully adjustable, allowing users to set the water flow to the most comfortable setting. Nozzle can be rotated to target sore muscles.

Rotating Jets
Positioned to focus on muscle tension zones, these jets deliver a spinning V-shaped water stream for a gentle, pulsating massage. Each jet is fully adjustable, allowing for comfortable water flow settings for everyone to enjoy.

Euro Jets
Positioned in the foot well or shoulder areas, these jets deliver a penetrating massage to dissolve tension. This jet may be the entry point for ozone produced during automatic filtration and therefore it is not adjustable.
Note: Ozone production is stopped when functions are activated on control panel.

Cleaning or Replacing Jets
Hard water can cause calcium/mineral buildup that can restrict or bind the jets. A jet consists of a face plate and a nozzle. Rotate these parts weekly and remove/clean monthly to ensure free movement.
NOTE: It is not necessary to drain the spa to clean or remove the jets.

Rotating Jets
- Rotate the jet face left and right
- Return face plate to full open position
- Turn the jets on high speed
- Twist the nozzle left and right
- Rotate the nozzle in the socket

NOTE: If the jet insert disengages from the spa housing, see steps to reinstall below.

Cleaning Jets
- To **REMOVE** the jet insert, use the palm of your hand to exert pressure on the face of the jet. Turn counterclockwise until the jet 'clicks'. Gently pull the jet assembly from the housing.
- To **CLEAN** the jet insert and housing, use a pressurized hose and spray the inside of the jet. Soak the jet in a diluted spa cleaning solution, rinse. Wipe the inside of the housing to remove any debris.
- To **REINSTALL** the jet, line up the tab on the backside of the barrel with the groove in the body. Use the palm of your hand to gently tap the jet until it snaps into position.

ELECTRICAL INFORMATION

Caution: Risk of electrical shock.
Read and follow all instructions.

Important Safety Instructions
All electrical connections to this spa package MUST be accomplished by a qualified licensed electrician in accordance with the National Electrical Code (NEC) and with state/local electrical codes in effect at the time of installation.

NOTE: Prior to performing any service to the spa equipment, turn OFF all primary electrical power at the main circuit breaker or disconnect panel.

To make spa electrical connections, remove the exterior equipment access panel, locate the electrical control box, remove the control box cover and follow the wiring diagram on the inside of the control box cover.
Connections should be made using copper conductors **only**. Connecting wires, circuit breakers, or fuses must all be sized to accommodate the Total Ampere load as specified on the equipment label.
This equipment is designed to operate on 60Hz alternating current only, at 240 volts.

NOTE: All unions must be hand-tight and all slice valves must be locked in the OPEN position before filling or refilling spa!
A clip is provided to help keep the slice valve open. Run spa and check for union leaks before reinstalling front panel.

Ground-Fault Circuit Interrupter
A qualified licensed electrician shall connect the spa to a circuit protected by a GFCI or RCD (European). This is a requirement by the National Electric Code, article 680-42, and is also in compliance with Underwriter's Laboratories, Inc.

Installation Options
A hole may need to be drilled in the pedestal or base for the swim spa electrical service entrance.

Refer to the manufactures's nameplate located on the kick plate to determine your spa's ampere requirements.

Spas installed for 240 volt, 60 Hz, single phase operation require a 4-wire, 50 or 60 amp 240 volt sub-feed in non-metallic pipe to the spa equipment compartment (line 1, line 2, neutral and ground). A green colored terminal (or wire connector marked "G", or "GR", or "Grounding") is provided in the control box. To reduce the risk of electrical shock, connect this terminal or connector to the grounding terminal of your electrical service or supply panel with a continuous green insulated copper wire equivalent to the circuit conductor supplying this equipment, but no smaller than No. 12 AWG. A second pressure wire connector is provided on the surface of the control box for bonding to local ground points. To reduce the risk of electrical shock, this connector should be bonded with a No. 6 AWG copper wire to any metal ladders, water pipes, or any metal within 5 feet of the spa.
Note: Copper wire is strongly recommended for all electrical connections.

INSTRUCTIONS:

Find your swim spa listed in the chart on the next page then refer to the key below to determine what electrical service your swim spa requires.

240 Volt Installation Units Electrical Requirements	
Letter	**Requirement**
A	- 240 volt/60 amp. - 60 Hz - Single phase - 4-wire service (line 1, line 2 neutral and ground)
B	- 240 volt/50 amp. - 60 Hz - Single phase - 4-wire service (line 1, line 2, neutral and ground)
C	- 240 volt/40 amp. - 60 Hz - Single phase - 4-wire service (line 1, line 2, neutral and ground)
D	**NOT NORTH AMERICAN** - 240 volt - 50 Hz - Single-, two-, or three- phase service - Refer to wiring diagram or pouch on control system inside cabinet for specific wiring and phase info.

240 Volt Installation Units Electrical Requirements	
Number	**Meaning**
1	The heater will remain running with the high speed pump(s).
2	The heater can be activated only with the pump on low speed. Only the spa light can be operating at the same time without disabling the heater. See your authorized dealer to select this option.

DEDICATED 240V SWIM SPAS				
MODELS	NORTH AMERICA			NOT NORTH AMERICA
	240V/60A	240V/50A	240V/40A	240V/50Hz
DT6 (Swim side)	A1		C2	D
DT6 (Spa side)		B1	C2	D
LT6	A1		C2	D
MT6	A1		C2	D
RB4	A1		C2	D
RL4	A1		C2	D
RS1	A1		C2	D
RS2	A1		C2	D
XB4	A1		C2	D
XL4	A1		C2	D
XS1	A1		C2	D
XSD (Swim side)	A1		C2	D
XSD (Spa side)		B1	C2	D
XSL	A1		C2	D
XSP	A1		C2	D

START UP PROCEDURES

Follow recommendations for site location and electrical connection.

1. Use standard "tap water" to fill the swim spa by draping a garden hose over the wall. Take care to wrap the metal end of the hose with a soft cloth or set the end of the hose in the filter canister to protect the swim spa surface from the metal end of the hose. The metal end of your hose can become rough or jagged and may scratch the surface of your swim spa, and this damage is not covered under your warranty. Fill the swim spa until the water level is 2 to 2.5 cm from the top lip.
   Never use "softened" water in your pool or spa. Softened water can impact the chemical balance of the water and lead to degradation of metal plumbing fittings.
2. After you have assured that the swim spa is full of water and that all plumbing valves are open, turn power on at circuit breaker or disconnect panel.
3. Open the air controls, located on the top lip, and cycle the jets from high to low. Water should come from the therapy jets. If water flow is not established, turn off jets and see Priming Your Swim Spa.

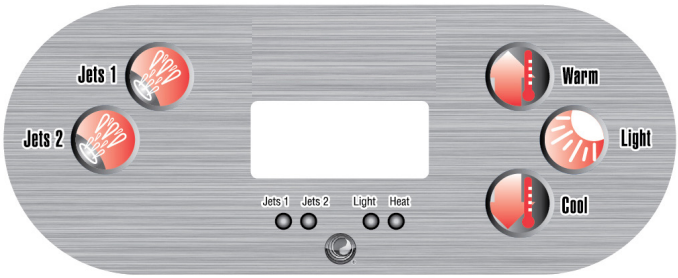
Important: Do not operate the Swim Spa without full water flow.

4. Add chemicals. See Chemical Treatment and Water Maintenance section. Follow Operating Instructions for your particular model to set heat to the desired temperature. Initially, you may find that the swim spa requires 18 to 24 hours on 230 Volt installations to reach temperature. Keep your thermal cover on the unit and close the air controls to help the heating process.

Priming Your Swim Spa

When filling your swim spa for the first time or, after draining and refilling the swim spa, you may need to bleed air from the system. Should you experience an air-lock on Pump 1, remove the filter basket cover, insert a garden hose through the center hole of the filter as far as possible without using force. Hold the hose in place and turn on the water. This forces water into the pump and forces the air out.

TP600 CONTROL PANEL



NOTE: The look of your topside control panel design and buttons will vary according to brand and features available on your swim spa. See table below for pictures and explanation of TP600 Control Panel button functions.

BUTTON	NAME	FUNCTION
	Jets 1 Jets 2	Activates jets on low or high setting
	Temperature Up	Increases temperature and allows for navigation through system
	Temperature Down	Decreases temperature and allows for navigation through system
	Light	Activates lights and chooses menus to navigate through system

MAIN MENUS

NAVIGATION

Navigating the entire menu structure is done with 3 buttons on the control panel: Temperature Up, Temperature Down and Light buttons.

Panels have separate **WARM** (Up) and **COOL** (down) buttons which are used to increase or decrease the temperature. These buttons are also used to navigate through menus.

The **LIGHT** button is used to activate spa lights and is also used to choose various menus to navigate each section.

Typical use of the Temperature buttons allows changing the Set Temperature while the numbers are flashing in the LCD screen. Numbers will begin flashing when either one of the temperature buttons are pressed. Pressing the **LIGHT** button while the numbers are flashing will take you to the menus.

The menus can be exited with certain button presses. Simply waiting for several seconds will return the panel operation to normal.

FILLING YOUR SPA

PREPARATION AND FILLING

Fill the spa to its correct operating level (5-6 inches below top of spa lip). Open all valves and jets in the plumbing system before filling to allow as much air as possible to escape from the plumbing and the control system during the filling process.

PRIMING MODE

This mode will last 4-5 minutes or you can manually exit the priming mode after the pump(s) have primed. Regardless of whether the priming mode ends automatically or you manually exit the priming mode, the system will automatically return to normal heating and filtering at the end of the priming mode. 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/no-flow conditions. Nothing comes on automatically, but the pump(s) can be energized by pushing the "Jet" buttons. If the spa has a Circ Pump, it can be activated by pressing the "Light" button during Priming Mode.

PRIMING THE PUMPS

After the display has gone through screens: "RUN" "PMPS" "PURG" "AIR" "-- -- -- --", push "Jet" button once to start Pump 1 in low-speed and again to switch to high-speed. Push the Pump 2 button (if you have a 2nd pump) to turn it on. The pumps will not be running in high-speed to facilitate priming. If the pumps have not primed after 2 minutes, and water is not flowing from the jets in the spa, turn off the pumps and repeat.

NOTE: Turning the power off/on again will initiate a new pump priming session. Sometimes turning the pump off/on helps it to prime. If the pumps will not prime after 5 times, turn power off and call for service.

IMPORTANT: A pump should not be allowed to run 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

Manually exit Priming Mode by pressing either Temperature button. If you do not manually exit the priming mode, it 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 momentarily display the set temperature but the display will not show the temperature yet because the system requires approximately 1 minute of water flowing through the heater to determine the water temperature and display it accurately.

SPA BEHAVIOR

Pumps

Press the "Jets 1" button once to turn pump 1 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. The pump 1 low-speed will time out after 30 minutes. The high-speed will time out after 15 minutes.

On non-circ systems, the low-speed of pump 1 runs when the blower or any other pump is on. If the spa is in Ready Mode, Pump 1 low may also activate for at least 1 minute every 30 minutes to detect the spa temperature 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
The circ pump (if your spa is equipped with one) operates 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 very hot climates).

Filtration and Ozone
On non-circ systems, Pump 1 low and the ozone generator will run during filtration. On circ systems, the ozone will run with the circ 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 blower (if there is one) or Pump 2 (if there is one) will run briefly to purge its plumbing to maintain good water quality.

Freeze Protection
If the temperature sensors within the heater detect a low enough temperature, the pump(s) and the blower automatically activate to provide freeze protection.
The pump(s) and blower will run either continuously or periodically depending on conditions.
In colder climates, an optional additional freeze sensor may be added to protect against freeze conditions that may not be sensed by the standard sensors. Auxiliary freeze sensor protection acts similarly except with the temperature thresholds determined by the switch. See your dealer for details.

Clean-up Cycle (optional)
When a pump or blower is turned on by a button press, a clean-up cycle begins 30 minutes after the pump or blower is turned off or times out. The pump and the ozone generator will run for 30 minutes or more, depending on the system. On some systems, you can change this setting.

TEMPERATURE & TEMP RANGE

Adjusting the Set Temperature
Pressing Up or Down temperature buttons will cause the temperature to flash. Pressing a temperature button again will adjust the set temperature in the direction indicated on the button. When the LCD stops flashing, the spa will heat to the new set temperature.

Press-and-Hold
If a Temperature button is pressed and held when the temperature is flashing, the temperature will continue to change until the button is released.

Dual Temperature Ranges
This system incorporates two temperature range settings with independent set temperatures. The High Range designated in the display by an "up" arrow, and the Low Range designated in the display by a "down" arrow. These ranges can be used for various reasons, with a common use being a "ready to use" setting vs. a "vacation" setting.
The Ranges are chosen using the menu structure below. Each range maintains its own set temperature as programmed by the user. This way, when a range is chosen, the spa will heat to the set temperature associated with that range.
For example:
High Range may be set between 80°F - 104°F.
Low Range may be set between 50°F - 99°F.
Freeze Protection is active in either range.

MODE - REST AND READY

In order for the 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 1 or a circulation pump.
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 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.

Circulation Mode
If the spa is configured for 24HR circulation, the heater pump generally runs continuously. Since the heater pump is always running, the spa will maintain set temperature and heat as needed in Ready Mode, without polling.
In Rest Mode, the spa will only heat to set temperature during programmed filter times, even though the water is being filtered constantly when in Circulation Mode.

Ready-in-Rest Mode
READY/REST appears in the display if the spa is in Rest Mode and Jet 1 is pressed. It is assumed the spa is being used and will heat to set temperature. While Pump 1 High can be turned on and off, Pump 1 Low will run until set temperature is reached, or 1 hour has passed. After 1 hour, the System will revert to Rest Mode. This mode can also be reset by entering the Mode Menu and changing it.

SHOW & SET TIME-OF-DAY

Setting the time-of-day can be important for determining filtration times and other background features. From the main menu, activate the temperature flashing. While the temperature is flashing, press "Light" repeatedly until "TIME" is displayed on the screen. Proceed to set current time using the up and down temperature buttons. When in the TIME menu, SET TIME will flash on the display if no time-of-day is set in the memory. 24-hour time display can be set under the PREF menu.
Note: If power is interrupted to the system, Time-of-Day is not stored. The system will still operate and all other user settings will be stored. If filter cycles are required to run at a particular time of day, resetting the clock will return the filter times to the actual programmed periods. When the system starts up, it defaults to 12:00 Noon, so another way to get filter times back to normal is to start up the spa at noon on any given day. SET TIME will still flash in the TIME Menu until the time is actually set, but since the spa started at noon, the filter cycles will run as programmed.

FLIP (INVERT DISPLAY)

From the main screen, activate the temperature flashing. While the temperature is flashing, press "Light" repeatedly until "FLIP" is displayed on the screen. While "FLIP" is displayed, press either the up or down temperature button to invert the screen. Follow the same procedures to flip it back.

RESTRICTING OPERATION

The control can be restricted to prevent unwanted use or temperature adjustments. From the main screen, activate temperature flashing. While temperature is flashing, press "Light" repeatedly until "LOCK" appears on the screen. Pressing the temperature up button allows you to toggle through "TEMP", "OFF" and "ON".
"TEMP" allows you to lock the temp./settings.
"ON" allows you to lock all settings/functions.
"OFF" does not lock the spa.

UNLOCKING

This Unlock sequence may be used from any screen that may be displayed on a restricted panel.While pressing and holding the Temperature Up button, slowly press the Light button twice. "UNLK" will display on the screen and after a few seconds, will revert to main screen.

ADJUSTING FILTRATION

Main Filtration
Filter cycles are set using a start time and a duration. Start time is indicated by an "A" or "P" in the bottom right corner of the display. Duration has no "A" or "P" indication. Each setting can be adjusted in 15-minute increments. The panel calculates the end time and displays it automatically.
To enter filter cycles, activate temperature flashing and press the "Light" button repeatedly until the display reads "FLTR" (with a 1 in the bottom right corner). Pressing the Light button will bring you to the display "BEGN". The numbers flashing indicate numbers that can be changed. Scroll through with the up and down temperature buttons to choose what time your filter cycle will start and press the Light button to make your choice. "RUN" "HRS" will be on the display next. Again, scroll through the numbers to choose the duration of your filter cycle.

Filter Cycle 2 - Optional Filtration
Follow the same procedures under "FLTR" (with a 2 in the bottom right corner) to set up filter cycle 2.
It is possible to overlap Filter Cycle 1 and Filter Cycle 2, which will shorten overall filtration by the overlap amount.

Purge Cycles
In order to maintain sanitary conditions, secondary Pumps and/or a Blower will purge water from their respective plumbing by running briefly at the beginning of each filter cycle.
If Filter Cycle 1 is set for 24 hours, enabling Filter Cycle 2 will initiate a purge when Filter Cycle 2 is programmed to begin.

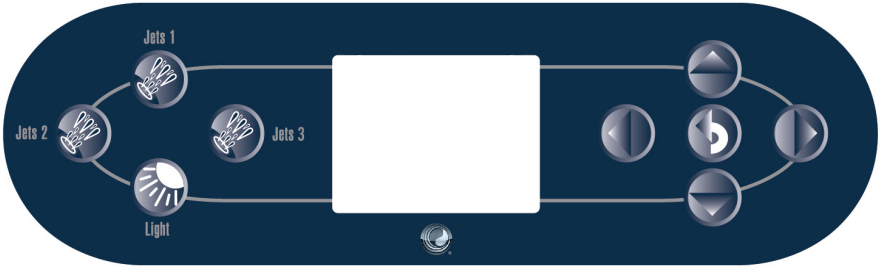
WiFi-CONNECTIVITY

See pages 29-32 to read about your spa's Wi-Fi capabilities. Some spas are equipped with full Wi-Fi. See your dealer for details if you are unsure of what your spa should receive.

GFCI TEST FEATURE

A GFCI is an important safety device and is required equipment on a hot tub installation. Your spa may be equipped with a GFCI Protection feature. If so, a GFCI Trip Test must occur to allow proper spa function.
Within 7 days after startup, the spa will trip the GFCI to test it. The GFCI must be reset once it has tripped. After passing the GFCI Trip Test, the spa will operate normally.

TP800 CONTROL PANEL



NOTE: The look of your topside control panel design and buttons will vary according to brand and features available on your spa. See table below for pictures and explanation of TP800 Control Panel button functions.

BUTTON	NAME	FUNCTION
	Jets 1 Jets 2 Jets 3	Activates jets on low or high setting
	Light	Activates lights
	Up Arrow	Increases temperature and allows for navigation through system
	Down Arrow	Decreases temperature and allows for navigation through system

BUTTON	NAME	FUNCTION
	Left Arrow	Allows for navigation through system
	Right Arrow	Allows for navigation through system
	Select	Allows user to go back or select an option.

THE MAIN SCREEN

SPA STATUS
Important information about spa operation can be seen quickly from the Main Screen. The most important features, including Set Temperature adjustment, can be accessed from this screen. The actual water temperature can be seen in large text and the desired, or Set Temperature, can be selected and adjusted. Time-of-day, Ozone operation and Filter Operation status is available, along with other messages and alerts. High Temperature Range vs. Low Temperature Range is indicated in the upper right corner. The Jets Icon in the center will light up if any pump is running and changes color when the heater is on. A Lock icon is visible if the panel or settings are locked. The Menu choices on the right can be selected and the screen will change to show more detailed controls or functions.

NAVIGATION
Navigating the entire menu structure is done with 5 buttons on the control panel. When a text item changes to white during navigation, that indicates the item is selected for action. Operating or changing a selected item is generally done with the center or "Select" button. The only item that can be changed on the left side of the Main Screen is the Set Temperature. Press the Left Arrow button to change the Set Temperature number to white. The Set Temperature can then be adjusted with the up and down buttons. Pressing the Select button or the Right Arrow button will save the new set temperature. On the right side of the screen, the menu selections can be selected with the Up and Down Buttons. Use the Select Button to choose an item. Selecting one of these items will change to a different screen with additional controls.

MESSAGES
At the bottom of the screen, messages may appear at various times. Some of these messages must be dismissed by the user.

PRESS-AND-HOLD
If an Up or Down button is pressed and held when the Set Temperature is selected, the temperature will continue to change until the button is released, or the Temperature Range limits are reached.

SPA & SHORTCUT SCREENS

ALL EQUIPMENT ACCESS
The Spa Screen shows all available equipment to control, as well as other features, like Invert, in one easy-to-navigate screen. The display shows icons that are related to the equipment installed on a particular spa model. The navigation buttons are used to select an individual device. The device that is chosen is highlighted with a white outline and the text under the icon changes to white. Once a device is selected, it can be controlled using the center Select Button. Some devices have low and high settings which have different icons for low and high speed indicators.
If the Spa has a Circ Pump, a Circ Pump Icon will appear to indicate its activity, but outside of Priming Mode, the Circ Pump cannot be controlled directly.
NOTE: The icon for the pump that is associated with the heater (Circ or P1 Low) will have a red glow in the center when the heater is running.

ONE-PRESS ACTIVATION
The Shortcut Screen requires no navigation. Each button is fixed on a specific fuction and can be used as a very simple user interface for the spa.

THE SETTINGS SCREEN

PRESSING A "BUTTON"

When instructions are given to "press a button" any of the following can be done:

• Navigate to the desired item on any Screen. When the desired item is highlighted, press the Select Button.

• Press the button for that device while on the Shortcuts Screen, if the device is one of the 4 functions available.

PROGRAMMING, ETC.

The Settings Screen is where all programming and other spa behaviors are controlled. This screen has several features that can be acted on directly. These features include Temp Range, Heat Mode, and Invert Panel. When one of these items is highlighted, the Select Button is used to toggle between two settings. All other menu items (with an arrow pointing to the right) go to another level in the menu.

PRESS-AND-HOLD

If an Up or Down button is pressed and held when an item in a Menu List is highlighted, the list can be scrolled quickly from top to bottom. The scroll bar on the right side of the screen indicates the relative position of the highlighted item in the list.

DUAL TEMPERATURE RANGES

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 right 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 spa will heat to the set temperature associated with that range.

High Range can be set between 80°F - 104°F.

Low Range can be set between 50°F - 99°F.

Freeze Protection is active in either range.

HEAT MODE - READY VS. REST

In order for the 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. 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 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. While Pump 1 High can be turned on and off, Pump 1 Low will run until set temperature is reached, or 1 hour has passed.

CIRCULATION MODE

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

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

READY-IN-REST MODE

READY/REST appears in the display if the spa is in Rest Mode and the Jets 1 Button is pressed. It is assumed that the spa is being used and will heat to set temperature. While Pump 1 High can be turned on and off, Pump 1 Low

will run until set temperature is reached, or 1 hour has passed. After 1 hour, the System will revert to Rest Mode. This mode can also be reset by entering the Settings Menu and changing the Heat Mode.

FILLING YOUR SPA

PREPARATION AND FILLING

Fill the spa 5-6 inches below top of spa lip. Be sure to open all valves and jets in the plumbing system before filling to allow as much air as possible to escape from the plumbing and the control system during the filling process. After turning the power on at the main power panel, the top-side panel will display a splash, or startup screen.

PRIMING MODE

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. The system will automatically return to normal heating and filtering at the end of the priming mode, which lasts 4-5 minutes. 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. Manually exit Priming Mode by pressing the "Exit" Button.

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 and then again to switch to high-speed. Also, select the other pumps, to turn them on. The pumps should be running in high-speed to facilitate priming. If the pumps have not primed after 2 minutes, and water is not flowing from the jets in the spa, do not allow the pumps to continue to run. Turn off the pumps and repeat.

Note: Turning the power off and back on again will initiate a new pump priming session. Sometimes momentarily turning the pump off and on will help it to prime. Do not do this more than 5 times. If the pump(s) will not prime, shut off the power to the spa and call for service.

Important: A pump should not be allowed to run 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

You can manually exit Priming Mode by navigating to the "Back" button on the Priming Mode Screen. If you do not manually exit the priming mode, it will terminate after 4-5 minutes. Once the system has exited Priming Mode, the top-side panel will display the Main Screen, but the display will not show the temperature yet because the system requires approximately 1 minute of water flowing through the heater to determine the water temperature.

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. The pump 1 low-speed will time out after 30 minutes. The high-speed will time-out after 15 minutes. On non-circ systems, the low-speed of pump 1 runs when the blower or any other pump is on. If the spa is in

Ready Mode, Pump 1 low may also activate for at least 1 minute every 30 minutes to detect the spa 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
The circ pump operates 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 very hot climates).

FILTRATION AND OZONE
On non-circ systems, Pump 1 low and the ozone generator will run during filtration. On circ systems, the ozone will generally run with the circ pump, but can be limited to filtration cycles. 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 water devices like blower and other pumps will run briefly to purge the plumbing to maintain good water quality.

FREEZE PROTECTION
If the temperature sensors within the heater detect a low enough temperature, then the water devices automatically activate to provide freeze protection. The water devices will run either continuously or periodically depending on conditions. In colder climates, an optional additional freeze sensor may be added to protect against freeze conditions that may not be sensed by the standard sensors. Auxiliary freeze sensor protection acts similarly except with the temperature thresholds determined by the switch. See your dealer for details.

CLEAN-UP CYCLE (OPTIONAL)
When a pump or blower is turned on by a button press, a clean-up cycle begins 30 minutes after the pump or blower is turned off or times out. The pump and the ozone generator will run for 30 minutes or more.

TIME-OF-DAY

Setting the time-of-day is important for determining filtration times and other background features. "Set Time" will appear on the display if no time-of-day is set in the memory. On the Settings Screen, select the Time-of-Day line. On the Time-of-Day screen, simply navigate right and left to select the Hour, Minutes, AM/PM and 12/24 Hour segments. Use the Up and Down Buttons to make changes.

SAVING SETTINGS
The Time-of-Day screen is a simple, editable screen that illustrates a feature of the control that applies to all other editable screens as well. When changes are made, the icon to go "Back" changes to "Save" and a new icon for "Cancel" appears under the Save icon. Navigating to the left will highlight the Save icon, and navigating down from there will allow the user to cancel the pending change. Pressing the "Select" button will save or cancel the changes and go back to the previous screen.
NOTE: If power is interrupted, you may have to reset your spa's time.

ADJUSTING FILTRATION

MAIN FILTRATION
Using the same navigation/adjustment as Setting the Time, Filter Cycles are set using a start time and a duration. Each setting can be

adjusted in 15-minute increments. The panel calculates the end time and displays it.

FILTER CYCLE 2 - OPTIONAL FILTRATION
Simply navigate to the Filter Cycle 2 line by pressing the Right Navigation Button, and when "NO" is highlighted, press Up or Down to toggle Filter Cycle 2 on and off. When Filter Cycle 2 is ON, it can be adjusted in the same manner as Filter Cycle1 by navigating to the right. It is possible to overlap Filter Cycle 1 and Filter Cycle 2.

CIRCULATION PUMP MODES
Some spas may be manufactured with Circ Pump settings that allow programming filtration cycle duration. Some circ Modes are pre-programmed to operate 24 hours a day and are not programmable.

PURGE CYCLES
In order to maintain sanitary conditions, as well as protect against freezing, secondary water devices will purge water from their respective plumbing by running briefly at the beginning of each filter cycle.
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.

RESTRICTING OPERATION

The control can be restricted to prevent unwanted use or temperature adjustments. Locking the Panel prevents the controller 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 Set Temperature, Invert, Lock, Utilities, Information and Fault Log. They can be seen, but not changed or edited.

UNLOCKING

An Unlock Sequence using the navigation buttons can be used from the Lock Screen. The Unlock Sequence is the same for both Panel Lock and Settings Lock. Press the following buttons: SELECT - SELECT - DOWN ARROW.

WiFi-CONNECTIVITY

See pages 29-32 to read about your spa's Wi-Fi capabilities. Some spas are equipped with full Wi-Fi. See your dealer for details.

GFCI TEST FEATURE

The Ground Fault Circuit Interrupter (GFCI) is an important safety device and is required equipment on a hot tub installation.
Used for verifying a proper installation, the GFCI Trip Test must occur to allow proper spa function. Within 7 days after startup, the spa will trip the GFCI to test it. The GFCI must be reset once it has tripped. After passing the GFCI Trip Test, the spa will operate normally.

SCENES

Your TP800 control has an icon labeled "Scenes" that is not enabled. Future versions of your spa's software may contain functionality related to the Scenes settings, but please disregard this icon unless you receive notification from your dealer otherwise.

BLUETOOTH CONNECTION

Spas purchased with a factory-installed Bluetooth/MP3 Audio System option come equipped with a built in amplifier, BlueTooth (BT) receiver, subwoofer, and weather-tight portable media (MP3) dock to allow you to stream your favorite audio source through the spa's sound system.

Bluetooth/MP3 Audio System Option
CAUTION: Stereo/MP3/Cell Phone/Portable Electronic Devices
Many consumers own some form of portable electronic device, and some spas come equipped with stereos designed to interface with these devices. It is important to protect a spa's stereo equipment and your portable electronics by following a few simple procedures found on pages 38 and 39 of this manual.

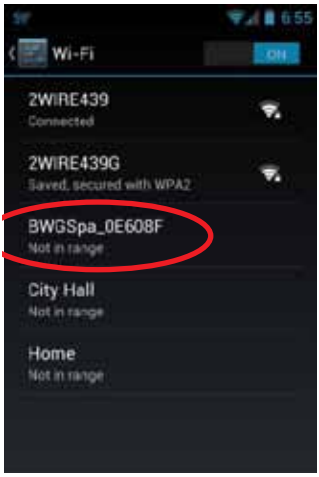
Connecting via BlueTooth (BT):
The spa's BT audio system is "On" all of the time and looking for suitable BlueTooth audio sources within its range. All one needs to do is stand close to the spa with your BT device (smartphone, tablet, MP3 player, etc.) and go to the device's BT settings. There you will see a source named "Belkin xXX" or something similar. Click on (or "Select") that Belkin BT receiver, which will Sync it to your BT device. Then just open your BT device's audio player and play your favorite song, station, podcast, etc. If the sync was successful, you will hear that audio as long as your mobile audio source is within range of the spa's BT receiver. You will then control the volume and audio source playing through the spa's audio system from your BT device.

Connecting via MP3 (wired connection):
Or if you prefer, you can achieve a wired version of the connection described above by plugging a mobile audio player (e.g., MP3 player, smartphone, etc.) directly into the 1/8" (3.5mm) receptacle inside the dock on the front of your spa.

Whichever form of connection you use, we recommend placing your mobile audio source inside the dock on the front of the spa to protect it from the elements or from splashed water.

WiFi CONNECTIVITY

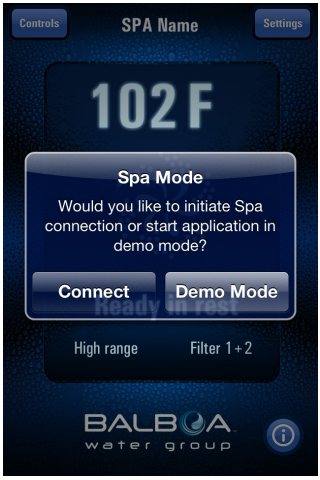
Smart Device WiFi Spa Controls
Certain spas come factory equipped with a WiFi transceiver that allows them to connect wirelessly with select smart devices (Android™, iPad or iPhone®). (If you are not sure if your spa is equipped with a Wifi transceiver, please inquire with your local dealer.) If your WiFi-equipped spa is installed within range of your home's WiFi router, you may also connect your spa to the Internet to allow wireless control of your spa from anywhere your smart device accesses the Internet.



Getting Started
Download the Wi-Fi Spa Control application to your smart device through either the Google® Play or iTunes® Store. Search for your spa brand's Wi-Fi Spa Control Application and the application will appear for download.

After Application Download
Make sure your smart device's WiFi setting is on and that you are near your spa. Open your device's WiFi settings and find the BWG SPA network which will look similar to "BWG-Spa_12345". Connect to this network. No password is required.

Connect to your Spa
Start the newly downloaded application on your smart device. Choose "Connect" when prompted to connect to your spa and wait until you are connected.



Connecting to WiFi Network

Once you are connected to your spa, you can then connect your spa to your home WiFi network in order to control your spa from anywhere your smart device has access to the internet. To do this:

1. Open the main screen of the application
2. Choose "Settings" in the top right corner
3. Choose "Advanced" at the bottom center
4. Type in your home WiFi connection information and SAVE
5. Be sure to select Open, WEP, WPA, or WPS based on your home WiFi router's encryption type.

Note: If you do not have a wireless internet connection in your home, you will not be able to connect with WiFi access.

You will still be able to control the spa from your smart device within 30 feet (10 meters) of your spa.

2. Setting Screen

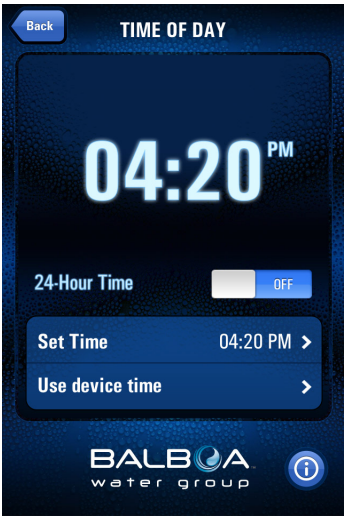
1. Main Screen

3. Advanced Setting Screen

Application Functions
You will be brought to the below main screen each time you start the app. The following options are available to you from the main screen:
Settings (top right)
Controls (top left)

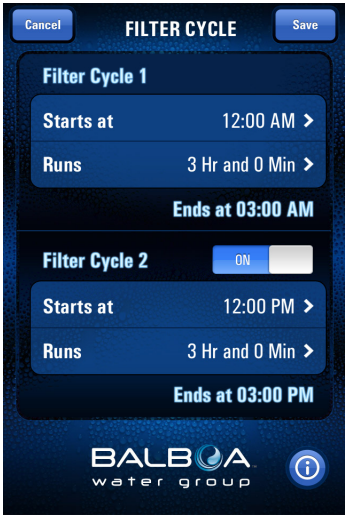
Settings
Set the temperature by sliding the bar to the degree you want.
The "Temperature unit" setting allows you to toggle between displaying degrees in Fahrenheit or Celsius.
"Heat mode" allows you to toggle between READY and REST. READY indicates your spa's controls can be turned on or off immediately. REST indicates your spa will have to "wake up" from sleep mode.
"Temperature range" offers a high temperature range option from 80-104ºF (26-40ºC) or a low temperature range option from 50-80ºF (10-26ºC). The temperature range on the top bar will change based on the range and unit of measurement you choose. (See photo on top of next column.)

Setting Time of Day
From the Settings menu, choose the Time of Day clock icon. On the next screen you can then set the time manually or choose Use Device Time. You can also choose to switch to 24 Hour Time.



Setting Filter Cycles

From the Settings menu choose the Filter Cycles icon. From there you will have the option to set one or two filter cycles, the time of day each starts and the duration of each cycle. **Note: The recommended duration of filter cycles is twice a day, three hours per cycle.**



Controls

From the main screen, choose Controls on the top left corner. You will be led to a screen which allows you to control the jets, blower and lights. Buttons that are lit up indicate items are in use, dimmed buttons indicate items are idle.

EQUIPMENT SAFETY FEATURES

Automatic Time Outs
Your **swim spa** is equipped with an automatic Time Out feature designed to protect both the equipment and the user. For your safety and to reduce unnecessary use of the pumps and lights, the Time Out feature turns selected accessories off automatically, as follows:

Accessory	Mode	Shuts off in...
Pump 1	Low	4 hours
Pump 1	High	15 minutes
Pump 2	Low	15 minutes
Pump 2	High	15 minutes
Pump 3	Low	15 minutes
Pump 3	High	15 minutes
Lights		1 hour

Common LCD Equipment Safety Messages and Trouble Shooting
The following table describes the most common messages, possible causes, and corrective actions you may need to take:

If the LCD displays...	Indicates...	What happens...	Possible cause...	Corrective action...
OHH	Overheat - one of the sensors has detected water temperature of 118°F+ (48°C+) inside the heater	Swim spa heater will automatically shut down until temperature falls below 108°F+ (42°C+)	- Low speed pump operating for an extended period of time - Programming error causing continuous filtering - Faulty Pump	- Make sure slice valves are open - Reprogram to ensure time cycles are not overlapping - Contact dealer if problem persists - Open all jets
OHS	Overheat - One sensor has detected temperature of swim spa water entering heater to be 108°F+ (42°C+)	Swim spa heater will automatically shut down until temperature falls below 108°F+ (42°C+)	- Low speed pump operating for an extended period of time - Programming error causing continuous filtering	- Make sure slice valves are open - Reprogram to ensure time cycles are not overlapping - Contact dealer if problem persists - Open all jets
HFL	Heater flow problem	Heater will shut down while swim spa continues to function normally	- Plugged filter - Low water	- Remove filter and clean - Add water - Open all jets - Contact dealer

If the LCD displays...	Indicates...	What happens...	Possible cause...	Corrective action...
LF	Water flow problem - Persistent flow problem	Heater will shut down while swim spa continues to function normally	- Plugged filter - Low water	- Remove filter and clean - - Add water - Open all jets - Contact dealer
drY	No water to the heater	Swim spa functions will shut down	- Slice valves closed - Block suction returns - Blocked filter/ skimmer	- Open valves - Remove blockage - Open all jets - Contact dealer
dr	Lack of water to the heater	Heater will shut down, otherwise swim spa continues to function normally	- Slice valves closed - Block suction returns - Blocked filter/ skimmer	- Open valves - Remove blockage - Open all jets - Contact dealer
SnA	Heater sensor A not functioning	Swim spa automatically deactivated	- Non-functioning sensor	- Contact dealer for replacement sensor
SnB	Heater sensor B not functioning	Swim spa automatically deactivated	- Non-functioning sensor	- Contact dealer for replacement sensor
SnS	Heater sensors are out of balance			- Contact dealer

Common LCD Messages

The following table defines other messages you will frequently see on the LCD display:

Message...	What it is...	What it means...
Pr	Priming mode	Swim spa is in normal Priming Mode operation
ICE	Freeze condition	Pump and Heater will come on to keep water above 45°F
- -	Water temperature	Current water temperature not measured

MAINTENANCE

Water Chemistry
Water chemistry is critical in a swim spa system. Chemicals are used to sanitize the water and control the pH balance. The combination of warm or high water temperature and small water volume means that the chemical balance must be watched carefully. It is recommended that you purchase a chemical start up kit, and the additional chemicals needed to maintain the proper/optimum chemical balance of your swim spa, from your dealer.

Sanitizing
Sanitizing the water destroys harmful organisms and keeps your swim spa healthy and safe. Three commonly used sanitizing or oxidizing agents are bromine, chlorine and ozone. Chlorine and bromine are chemicals that you add to the water. Ozone is a gas that is produced by an ozone generator and injected into the water. It is important that a residual of sanitizer remain in your water. High water temperature, aeration and use will increase the need for sanitizer.
In addition to maintaining a residual, it is important to "shock" your swim spa water periodically and after heavy use. This addition of substantial amounts of sanitizer super-chlorinates the water and oxidizes non-filterable organic residue. Allow the sanitizer level to drop back to the residual amount before using. Also use your Clean Up Cycle after heavy use for additional filtration. Tests should be done daily with your test kit to keep a chlorine or bromine residual of 3.0 to 5.0 ppm.

pH Level
pH is the balance of acidity and alkalinity in the water. Maintaining proper pH is important for the effectiveness of your sanitizer, for user comfort, and to prevent corrosion of the swim spa equipment.
Caution: Never mix two chemicals together.
Caution: Never store chemicals in the equipment compartment of your swim spa.
Caution: Do not use muriatic acid to balance pH as it will damage your swim spa surface and equipment.

Recommended Levels

pH:	7.2–7.6 (Ideal 7.4–7.6)
Chlorine/Bromine Residual:	3.5–5.0 ppm
Total Dissolved Solids:	100–200 ppm
Free Available Sanitizer:	3.0–5.0 ppm
Total Alkalinity:	80–100 ppm ideal for dichlor, trichlor, and bromine

NOTE: Make sure you use fresh test kit strips/chemicals. Test kits and test chemicals should be stored in a cool, dry location. Check the manufacturer's instructions to determine shelf life and expiration date.

Water Maintenance With Ozone Generator and Ultra Violet Sanitizer
Your swim spa may be equipped with either or both the Ozone Generator and Ultra Violet Sanitizer. These systems treat the water in your swim spa with a specialized ozone application and/or the extra sanitizing power of ultra-violet (UV) light, which in conjunction with spa sanitizing and water balancing chemicals

provides you with cleaner, healthier water, reduced chemical usage, and protects your skin from chemically induced irritation.

Sanitizing with Ozone
Swim spa products vary in size, and in the frequency and conditions of use. For these reasons you will need to establish your sanitizing program based upon your own personal use. When using ozone, you should start by balancing your water chemistry as you normally would. A swim spa should be filtered a minimum of six hours per day, during which time ozone will be mixed into the water. If your swim spa is heavily used, this run time should be increased.

The amount of a residual sanitizer (chlorine or bromine) that you maintain in the water will also vary depending on use. It is recommended that you maintain a residual of 3.0–5.0 ppm. Periodically, and after periods of heavy use, it is necessary to "shock" your swim spa with large amounts of sanitizer.

NOTE: Extra filtration can be provided by manually starting a clean-up cycle. Turn Pump 1 on in low speed. The pump will operate for an extended period and then automatically turn off. The heater, ozone generator and UV system will also operate during this period if the controls are set in Ready mode.

Specialty Chemicals
While ozone and UV may significantly reduce the usage of specialty chemicals (chlorine and bromine), they are not a substitute. All chemicals should continue to be monitored, especially during periods of heavy usage and when changing/replenishing the spa water.

Draining your swim spa

NOTE: Always turn the circuit breaker off when you drain your swim spa. Do not turn the spa heater back on until you have full flow coming from the jets for several minutes. High concentrations of impurities caused by water evaporation, body oils, perfumes, and other contaminants may accumulate in the swim spa and cannot be filtered out.

NOTE: Consequently, it is advisable to drain your swim spa and refill it with fresh water every six to eight weeks, or more often depending on the amount of use.

All swim spa products are equipped with multiple internal drains. These drains are used to remove water from internal plumbing, when Winterizing your swim spa, or if the water is severely contaminated.

NOTE: Use a standard garden hose to direct the water to an appropriate disposal area.

All **internal** drain hose(s) are located behind the front access panel. Remove the access panel screws and the access panel. Locate the drain hose(s). For each hose drain valve, remove the cap, attach the garden hose, and turn the valve handles, located on the drain valve body, 90° counter-clockwise, then pull out on the hose to start flow. Water will begin to flow. When all water has been evacuated, push in and turn the valve handle clockwise until it stops. Remove garden hose and replace the cap. Repeat for each internal drain hose.

NOTE: Do NOT attempt to use the swim spa pump to drain the swim spa.

NOTE: Close and replace caps on all drains prior to refilling the swim spa.

NOTE: When refilling the swim spa you may need to bleed air from the system. Refer to Priming Your Spa for instructions.

Filter Maintenance

NOTE: It is not necessary to drain the swim spa in order to clean the filters.

The removable filter cartridges are located in the filter canisters inside the skimmer. The filters should be inspected/cleaned monthly during normal use and more often when spa use is heavy.

Keep the filter cartridges clean! Clean the filter cartridges at least once every 30 days. A clogged filter decreases performance and degrades water quality.

To clean the filter cartridge:

1. Turn the pump off.
2. Remove skimmer lid on top of swim spa.
3. Remove strainer basket
4. Remove filter cartridge from the filter canister by grasping the top and lifting upwards. Some filters are threaded on.
5. Soak filter in a commercial filter cleaner/degreaser, available from your MAAX® Spa dealer, per manufacturer's instructions. Rinse filter cartridge with a hose. Replace with new cartridge, if needed.
6. Place filter cartridge back into filter canister.
7. Replace strainer basket and skimmer lid.
8. Turn the pump ON.

Replacing the filter cartridge semi-annually is recommended to maintain optimum performance. Filter maintenance depends on usage.

Winterizing

In cold climates where freezing temperatures occur, special care is required to prevent the possibility of damage to the swim spa and associated equipment due to freezing. If you plan on using your swim spa during cold months, be sure your pump and heater are in good working order. The swim spa has been insulated to provide efficient operation in cold weather areas.

NOTE: If you elect not to drain your swim spa and the temperature is going to be below freezing for extended periods of time, it is best to operate the heater at the maximum high temperature 104°F (40°C), especially if there is a power outage threat. This will help reduce the likelihood of the water freezing if you have a power failure.

If you do not intend to use your swim spa during the winter months and there is danger of freezing, use the following steps to winterise your swim spa:

1. Turn off all electrical power to the swim spa.
2. Drain swim spa and hoses of all water using the directions for Draining Your Swim Spa. Open all unions, and remove drain plugs from bottom of pumps. If you cannot draw off all of the water (especially from hoses), add Recreational Vehicle antifreeze to the remaining water through the bottom of the skimmer and jets. If antifreeze is used, it must be an inhibitor Propylene Glycol such as Dow Frost™, available through Dow Chemical® distributors.
   NOTE: Prior to refilling the swim spa, drain all antifreeze from swim spa and hoses using the instructions for Draining Your Swim Spa. Carefully monitor chemicals until all antifreeze residue has been eliminated.

3. The filter should be drained, and the cartridge removed and cleaned.
4. Check to see that there is no water in the heater element chamber.
5. Clean your swim spa as directed in the following two sections on this page.
6. Cover your swim spa with a water-shedding, impenetrable cover.
7. For further information on blowing out the plumbing lines and winterising procedures, contact your local dealer.

Swim Spa Cabinet Care
The swim spa series cabinets are made of Duramaax™, a high quality alternative to wood that is virtually maintenance free, requiring no staining, sealing, or waxing.

Never use abrasive cleaners.

To clean the swim spa cabinet, rinse dirt and dust regularly with clear water. To remove stubborn dirt, grime, and mild discoloration, wash with a mild detergent and warm water.

Swim Spa Surface Care and Cleaning
Your swim spa shell surface is made of acrylic. A minimum amount of care and cleaning will keep it looking new for years.

Use a spa cleaner for residue and lime buildup at the water level. It may be necessary to lower the water level 1-2 inches (2.5-5 cm) before cleaning to avoid polluting the swim spa. Cleaner can be applied to the acrylic surface with a soft cloth and wiped clean. Use a non-abrasive mild dish washing detergent such as Ivory®Liquid. Rinse well and dry with a clean cloth.
NOTE: Do not allow the acrylic surface to come in contact with products such as acetone (nail polish remover), nail polish, dry cleaning solution, lacquer thinners, gasoline, pine oil, orange oil, citrus based cleaners, etc.

Remove dust and dry dirt with a soft, damp cloth. Clean grease, oil, paint and ink stains with isopropyl (rubbing) alcohol diluted with water. Avoid using razor blades or other sharp instruments that might scratch the surface.

Protect Swim spa finish - always keep cover on the swim spa when not in use.

Underwater LED Lights
The underwater LED light assemblies are serviceable from the inside the swim spa cabinet. Remove the side panel and insulation closest to the light; locate the bracket that holds the LED assembly. Turn the LED Holder 90 degrees counter-clockwise; remove from bracket. Pull bulb straight out and replace. Insert LED holder back into bracket and turn 90 degrees clock-wise to secure.

Bluetooth/MP3 Audio System Option
CAUTION: Stereo/MP3/Cell Phone/Portable Electronic Devices
Many consumers own some form of portable electronic device, and some spas come equipped with stereos designed to interface with these devices. It is important to protect a spa's stereo equipment and your portable electronics by following a few simple procedures:
- Always turn the volume down on your portable electronic device before connecting it to the spa stereo.
- Do not attempt to handle any portable electronic device with wet hands.
- Inspect any area for moisture before setting your portable electronic device in or on it.

- Because of the temperature differential between the warm spa cabinet interior and cooler surroundings outside, moisture is a distinct possibility inside built-in niches. Be sure to wipe these areas out with a dry cloth before connecting any portable electronic device, and do not leave the device inside the niche after exiting the spa.
- Water-resistant covers are available for many popular cell phones and portable music players. These covers are a wise investment for individuals who regularly use their portable electronic devices near hot tubs.
- CAUTION: Risk of Electric Shock. Do not leave compartment door open.
- CAUTION: Rise of Electric Shock. Replace components only with identical components.
- Do not operate the audio/video controls while inside the spa.
- WARNING: Prevent Electrocution. Do not connect any auxiliary components (for example cable, additional speakers, headphones, additional audio/video compentents, etc.) to the system.
- These units are not provided with an outdoor antennae; if provided, it should be installed in accordance with Article 810 of the National Electrical Code.
- Do not service this product yourself as opening or removing covers may expose you to dangerous voltage or other risk of injury. Refer all servicing to qualified service personnel.
- When the power supply connections or power supply cord(s) are damaged; if water is entering the audio/video compartment or any electrical equipment compartment area; if the protective shields or barriers are showing signs of deterioration; or if there are signs of other potential damage to the unit, turn off the unit and refer servicing to a qualified service personnel.
- This unit should be subjected to periodic routine maintenance (for example, once every 3 months) wo make sure that the unit is operating properly.

COMMON WATER PROBLEMS

Problem	Usual Cause	Solution
Cloudy Water	- Inadequate filtration/ dirty filter - Excessive oils/organic matter - Improper sanitation/ bacteria - High pH and/or high alkalinity - Suspended particles/ organic matter - High total dissolved solids	- Check to make sure the filter is running properly; clean filter with a filter cleaner or degreaser - Shock the swim spa with a chlorine or bromine sanitizer, or other shock treatment product - Increase sanitizer level to balance water and shock if needed - Adjust pH; add appropriate sodium bisulfate product - Use clarifier **NOTE: Your swim spa may use an ozone generator. Please consult your dealer before using polymer based clarifiers** - Depending on the severity, drain the swim spa to half and refill, or drain completely, clean and refill
Water Odour	- Excessive organics or chloramines; insufficient free available sanitizer - Improper sanitation - Inadequate filtration - Low pH	- Shock with a chlorine or bromine sanitizer, or other shock treatment product - Increase sanitizer to balance water; shock if necessary - Make sure that filter is operating properly; clean with filter cleaner - Raise pH with sodium bisulfate product. - If metals are present, add chelating agent.
Chlorine Odour	- Too many chloramines/ insufficient free available chlorine - Low pH	- Shock with a chlorine or bromine sanitizer, or other shock treatment product - Raise pH with sodium bisulfate product. - If metals are present, add chelating agent
Bromine Odour/ Yellow Water	- Low pH	- Adjust pH; raise pH with sodium bicarbonate poduct

Problem	Usual Cause	Solution
Musty Odour	- Bacterial or algae growth	- Shock with a chlorine or bromine sanitizer, or other shock treatment product. If problem is visible, drain, clean, refill and balance water
Foaming/Scum Ring Around Waterline of Swim Spa	- Build up of body oils, lotion and chemicals resulting from soap or detergent	- Skim foam off using your leaf net or drain, clean, refill and balance water
Algae	- pH Imbalance - Low free chlorine or bromine	- Adjust pH - Shock with a chlorine or bromine sanitizer, or other shock treatment product
Eye Irritation	- Low pH - Insufficient free available chlorine	- Raise pH with sodium bicarbonate product - Shock with a chlorine sanitizer/shock or other shock treatment product
Skin Irritation/ Rash	- Unsanitary/polluted water - Being in water too long - Chemicals not balanced, excessive ozone	- Keep recommended sanitizer residual at all times; superchlorinate or use a non-chlorine shock treatment - Soak for smaller intervals, such as 15 minutes - Correct chemical imbalance
Scale	- Too much calcium dissolved in water - pH and total alkalinity too high	- Add a scale control product. - Adjust total alkalinity and pH levels by adding the appropriate sodium bisulfate product - For concentrated scale deposits: drain swim spa, scrub scale off, clean, refill and balance the water
Erratic pH Test Results/Unusual pH Test Colour	- Sanitizer level too high - Old pH indicator dye	- Test the pH level when the sanitizer level is below 5 ppm: - Replace the pH indicator dye

Problem	Usual Cause	Solution
Sanitizer Dissipating Too Rapidly	- Excessive organics in water - Temperature too high - Low pH - Low pH corrosion of metal fixtures - Low calcium hardness - Low total alkalinity	- Increase shock dosage; add sanitizer; shower before entering swim spa - Reduce temperature - Raise pH with sodium bicarbonate product - Use chelating agent if metals are present; * Keep proper pH level (7.2 to 7.6). * Maintain minimum 150-200 ppm calcium hardness * Maintain proper alkalinity for type of sanitizer used.

NOTE: If your source water has a high metal or mineral content, a specialty chemical should be used to avoid staining or accumulation of deposits. These guidelines cover the most common water problems when operating a swim spa. Contact your dealer for further information regarding chemical control issues.

COMMON HARDWARE PROBLEMS

Problem	Usual Cause	Solution
System not operating	- House circuit breaker tripped or in OFF position	- Reset circuit breaker in panel box
Heater not operating	- Water level too low - Heater mode not selected - No power to heater - Heater not operating/defective - Jets are closed	- Add water to fill line on skimmer - Refer to temperature/heater functioning. See Control instructions - Check house circuit breaker - Contact dealer - Open all jets
Water not clean	- Clogged or blocked suction or skimmer - Dirty or clogged filter - Poor water chemistry - Insufficient filtering time - Improper maintenance - High content of solids in water	- Clean suction grate and skimmer basket - Clean or replace filter elements - See Maintenance section - Program longer filtration cycle, - Contact dealer - Use clarifier or drain, clean and refill
Abnormal water usage	- Excessive evaporation and/or splashing	- Use swim spa cover and refill as necessary - Revise your swimming stroke/ exercise regiment to include less splash
Overheating	- High ambient temperature	- Contact dealer
Low water flow from jets	- Operating in FILTER mode low speed - Clogged or blocked suction or skimmer - Dirty filter - Jets in OFF position - Slice valves closed	- Select hi-speed jets - Clean suction grate and skimmer basket - Clean or replace filter - Open jets; Turn outer ring to left - Open slice valves; ensure valve safety clips are attached

Problem	Usual Cause	Solution
Noisy pump and motor	- Clogged or blocked suction or skimmer - Low water level - Damaged or worn motor bearings	- Clean suction grate and skimmer basket - Add water to normal water level - Contact dealer
No water flow from jets	- Pump not primed - Adjustable jets turned off - House circuit breaker tripped, no power to system - Faulty pump or motor - Pump surges - Slice valves closed	- See Priming section - Turn on jets - Reset circuit breaker at house panel - Contact dealer - Check water level - Open slice valves; ensure valve safety clips are attached
Water leakage from under swim spa	- Check unions & drain hoses - Check for water seepage around jets or at glued fitting	- Close or tighten as necessary - Contact dealer
No air flow from jets	- Air control not open - Jet nozzle not seated properly - Jet nozzle missing	- Open control - Check jet nozzles - Inspect jets and replace as necessary
Motor will not operate	- House circuit breaker tripped or in OFF position - Improper or defective wiring or electrical supply - Pump thermal overload switch tripped	- Reset house circuit breaker in panel box - Contact dealer - Auto reset after pump motor has cooled. Contact dealer if pump continues to cycle
Black powder film around water line	- Wearing in of turbo/blower brushes	- Will disappear after use
Swim spa will not shut off	- Swim spa is in heating cycle - Swim spa is in filter cycle - Swim spa is in Ready mode	- Check 'Set Temperature' in standard mode - Normal. No need to change - Check mode setting

SWIM SPA SOAKING GUIDELINES

1. Persons with heart disease, diabetes, blood pressure or circulatory abnormalities, a serious illness, or pregnant women should not enter a swim spa without prior consultation with their doctor.

2. People with skin, ear; genital or other body infections, open sores, or wounds should not use the swim spa because of the possibility of spreading infection.

3. Before entering, look at the water in your swim spa. If there is cloudiness, foaming, or a strong chlorine smell is present, the water needs treatment. Properly maintained water will greatly reduce potential risk of skin rash (pseudomonas).
   Ask your Authorized Dealer for guidance.

4. Shower with soap and water before and after using the swim spa. Showering before use removes many common skin bacteria, perspiration, lotions, deodorants, creams, etc. that may reduce the effectiveness of the sanitizer and lessen the ability of the filter to work efficiently. Showering after use will help reduce skin irritation that may result from contact with sanitizing chemicals.

5. Enter the swim spa slowly and cautiously. Be careful of your footing, and allow your body to gradually adjust to the water temperature. Exit slowly to accommodate relaxed leg muscles and possible light-headedness.

6. Soaking for too long may cause some users to feel nauseous, dizzy, or light-headed. If you wish to soak in high temperature water 104°F (40°C), leave the swim spa after 15 minutes, shower, cool down and then return for another brief stay. In lower temperatures (e.g. 98.6°F (37.5°C) - normal body temperature) most people can comfortably and safely soak for longer periods at one sitting. **Never use the swim spa to swim, jog or exercise in hot water. Recommended water temperature for swimming and exercising is 80°F-86°F (27°C - 30°C)**. If you have any questions about what is right for you, your family, or other guests, consult your doctor.

7. Always be sure to check the water temperature before entering, and while using the swim spa.

8. Never use the swim spa while under the influence of alcohol or drugs.

9. Consult your doctor about potential harmful effects of using drugs or medications while swimming, jogging, and exercising or hot water soaking in your swim spa.

10. **Never use the swim spa when you are alone.** The first rule of Aquatic Exercise is Safety. Always be sure that any swim spa user is under the supervision of a responsible adult who is capable of rescuing the swim spa user in case of an emergency.

11. **Never allow children or elderly adults to use the swim spa unsupervised**.

12. Never allow anyone to jump or dive into the swim spa. The water depth will not accommodate jumping or diving, and serious injury or possible death can result from these dangerous actions.

13. Consult your physician before beginning any new exercise regiment, including swimming, aqua-jogging, aquatic exercise and aquatic stretching.

14. When using the optional aquatic resistance exercise equipment take care to always wear shatterproof goggles to protect your eyes in case you misconnect the attachment device or should a band slip or break.

15. Never leave exercise equipment or any other objects in swim spa when you are finished with them. They may create a trip or injury hazard if they are unseen below the surface of the water.

16. Closely monitor your physical condition when exercising in the swim spa. A general rule is that you should be able to talk normally while exercising. If you find it difficult to speak or think clearly during exercise, you should exit the swim spa until you are back to normal heart rate and can breathe freely.

17. Display all safety signs and rules located in the Owner Package for swim spa. Make sure that all users and guests understand the rules and know how to use the swim spa before allowing them to use it.

18. Swimming against the jets is similar to using a treadmill. You will want to pace your swim strokes and kicks to maintain your place in the water for an optimal workout. If you like to sprint during your workout, you can use the optional swim tether to give you maximum resistance when sprinting.

19. Always wear waterproof shoes when Aqua-Jogging for the best slip resistance and to protect your feet.

20. The bottom of the swim spa has contours built in for added structural integrity. Make yourself aware of those contours so that you know where they are as you exercise.

21. Always use swim-goggles when using your swim spa. Swim-goggles make it easier to see the bottom of the swim spa when swimming so that you can fix your position in the swim-lane. Swim-goggles also protect your eyes from continuous splashing during exercise. Whenever using resistance exercise bands or swim-tether, we recommend that you use shatter-proof swim-goggles.

22. Whenever using the optional resistance exercise bands, be sure that they are positively clipped into the attachment hardware on the swim spa. After attaching, give the cords a tug to ensure that they are latched. Always remove them from swim spa when you leave the swim spa. Keep resistance bands out of the reach of children.

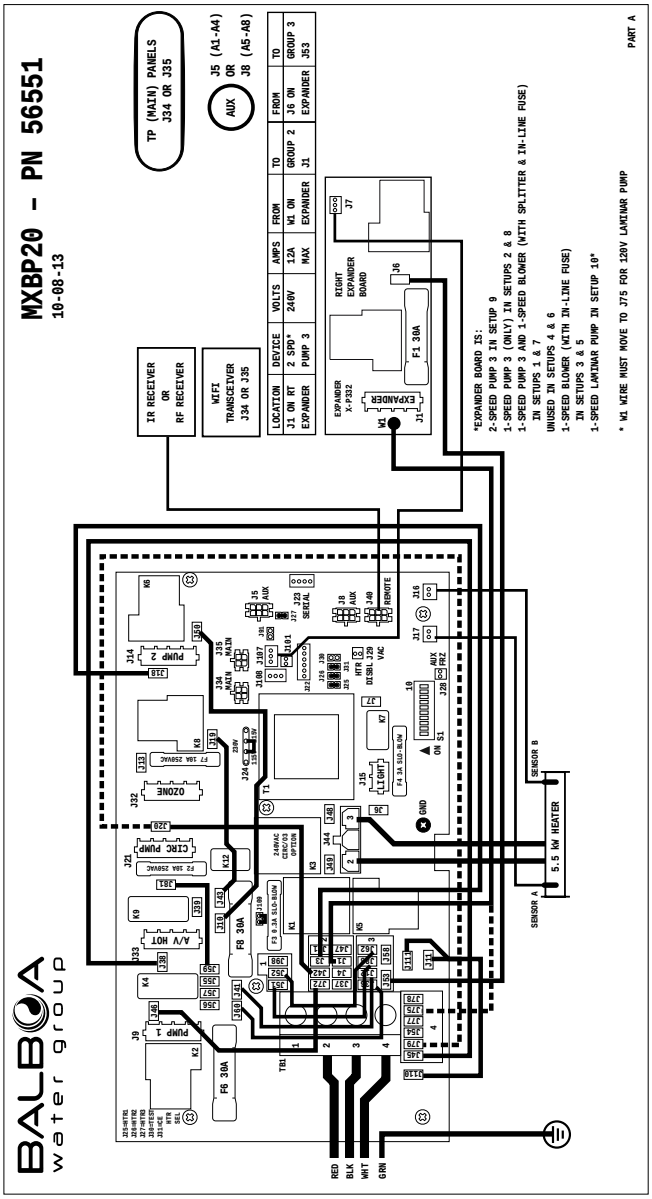
23. Whenever using the optional swim-tether, be sure that it is positively seated in the pole retainer. If it is not properly installed, it can slip out of place and enter the swim spa causing possible injury.

24. **Be safe, be healthy, have fun!**

MXBP20 SERIES SYSTEM WIRING DIAGRAM

Hardware Setup

Wiring Diagram



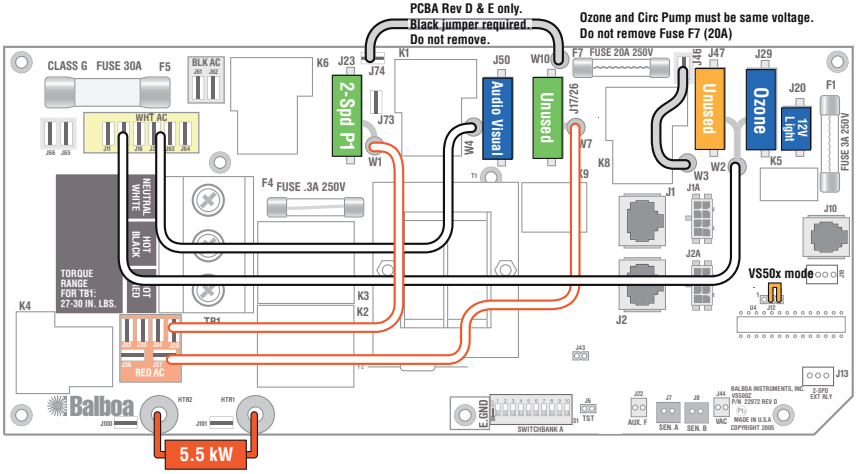
BALBOA water group

VS501 SERIES SYSTEM WIRING DIAGRAM

Wiring Configuration and DIP Settings

Setup 4 (As Manufactured)

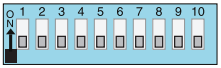
- 240V Pump 1, 2-Speed
- 120V Ozone
- 12V Spa Light
- 120V AV (Hot)
- 240V 5.5kW Heater
- Duplex Main Panel



WARNING: Main Power to system should be turned OFF BEFORE adjusting DIP switches.
WARNING: Persistent Memory (J43) must be RESET to allow new DIP switch settings to take effect. (See Persistent Memory page)

SSID #
67
63
51

Switchbank A



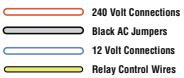
A1, Test Mode OFF
A2, Mode changes allowed
A3, Duplex Panel
A4, Aux Freeze
A5, 2-speed P1
A6, 60 Hz
A7, J17/26 Disabled
A8, Degrees F
A9, Non-Circ Mode
A10, High Amp mode

VS50x Compatible

J43

Memory Reset

Wiring Color Key



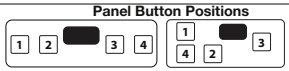
120 Volt Connections
240 Volt Connections
Black AC Jumpers
12 Volt Connections
Relay Control Wires

Board Connector Key

1 Typically Line voltage
2 Typically Line voltage for 2-speed pumps
3 Neutral (Common)
4 Ground
Note flat sides in connector

Panel Button Assignments
1=J17/26
2=Pump 1
3=Temp
4=Light

Panel Button Positions



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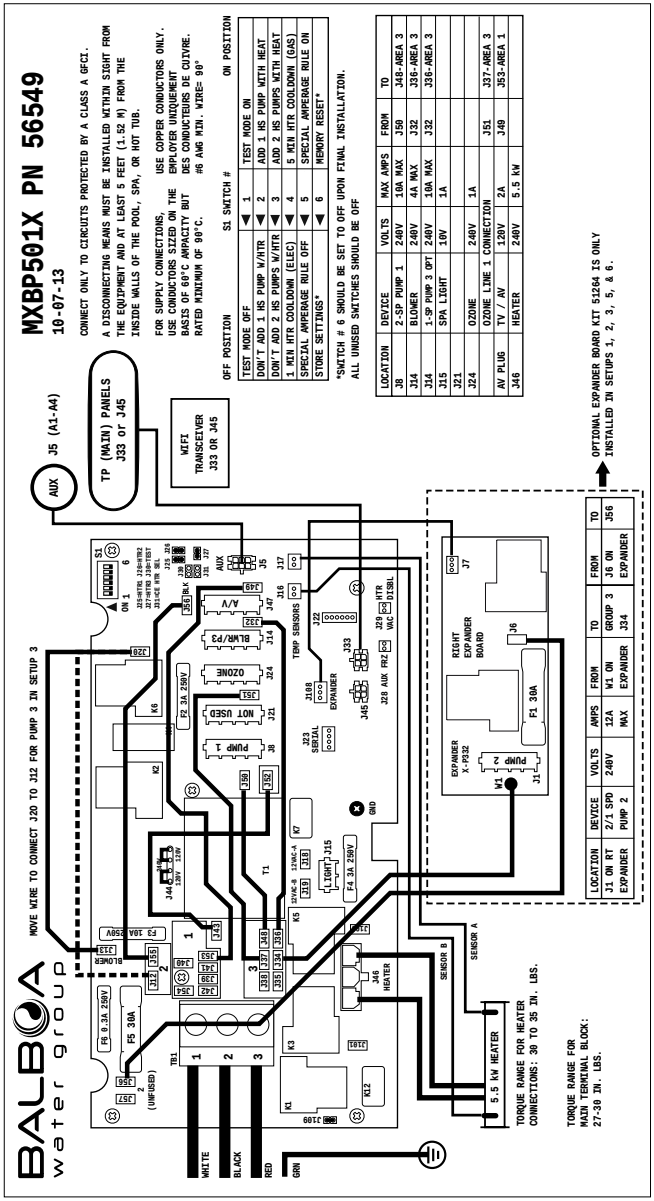
MXBP501 SERIES SYSTEM WIRING DIAGRAM

Hardware Setup



OFF POSITION — S1 SWITCH # — ON POSITION

TEST MODE OFF	1	TEST MODE ON
DON'T ADD 1 HS PUMP W/HTR	2	ADD 1 HS PUMP WITH HEAT
DON'T ADD 2 HS PUMPS W/HTR	3	ADD 2 HS PUMPS WITH HEAT
1 MIN HTR COOLDOWN (ELEC)	4	5 MIN HTR COOLDOWN (GAS)
SPECIAL AMPERAGE RULE OFF	5	SPECIAL AMPERAGE RULE ON
STORE SETTINGS*	6	MEMORY RESET*

*SWITCH # 6 SHOULD BE SET TO OFF UPON FINAL INSTALLATION. ALL UNUSED SWITCHES SHOULD BE OFF

LOCATION	DEVICE	VOLTS	MAX AMPS	FROM	TO
J8	2-SP PUMP 1	240V	10A MAX	J50	J48-AREA 3
J14	BLOWER	240V	4A MAX	J32	J38-AREA 3
J14	1-SP PUMP 3 OPT	240V	10A MAX	J32	J38-AREA 3
J15	SPA LIGHT	10V	1A		
J21					
J24	OZONE	240V	1A		
	OZONE LINE 1 CONNECTION			J51	J37-AREA 3
AV PLUG	TV / AV	120V	2A	J40	J53-AREA 1
J46	HEATER	240V	5.5 kW		

LOCATION	DEVICE	VOLTS	AMPS	FROM	TO	FROM	TO
J1 ON RT EXPANDER	2/1 SPD PUMP 2	240V	12A MAX	W1 ON EXPANDER	GROUP 3 J34	J6 ON EXPANDER	J56

BALBOA water group

GS501 SERIES SYSTEM WIRING DIAGRAM

GS501Z Wiring Diagram

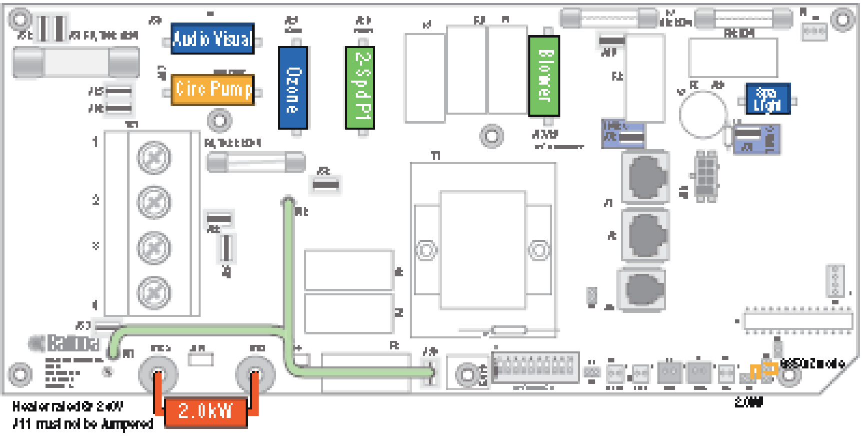
Contact Balboa (800-645-3201) for Hi Res Version

Wiring Configuration and DIP Settings

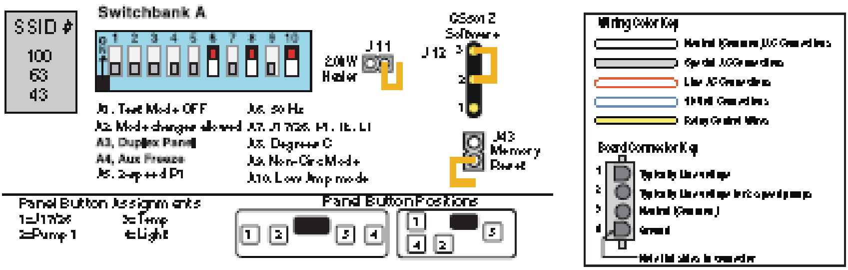
Setup 1 (As Manufactured)

- 230V Pump 1, 2-Speed
- 230V Blower
- 10V Spa Light
- 230V Ozone
- 230V AV (Stereo)
- 2.0 kW Heater
- Duplex Main Panel
- 230V Circ Pump (optional)

HiPot Testing Note:
Disconnect slip terminal with green wires from J90 prior to performing HiPot test. Failure to disconnect may cause a false failure of the test.
Reconnect terminal to J90 after successful completion of HiPot test.



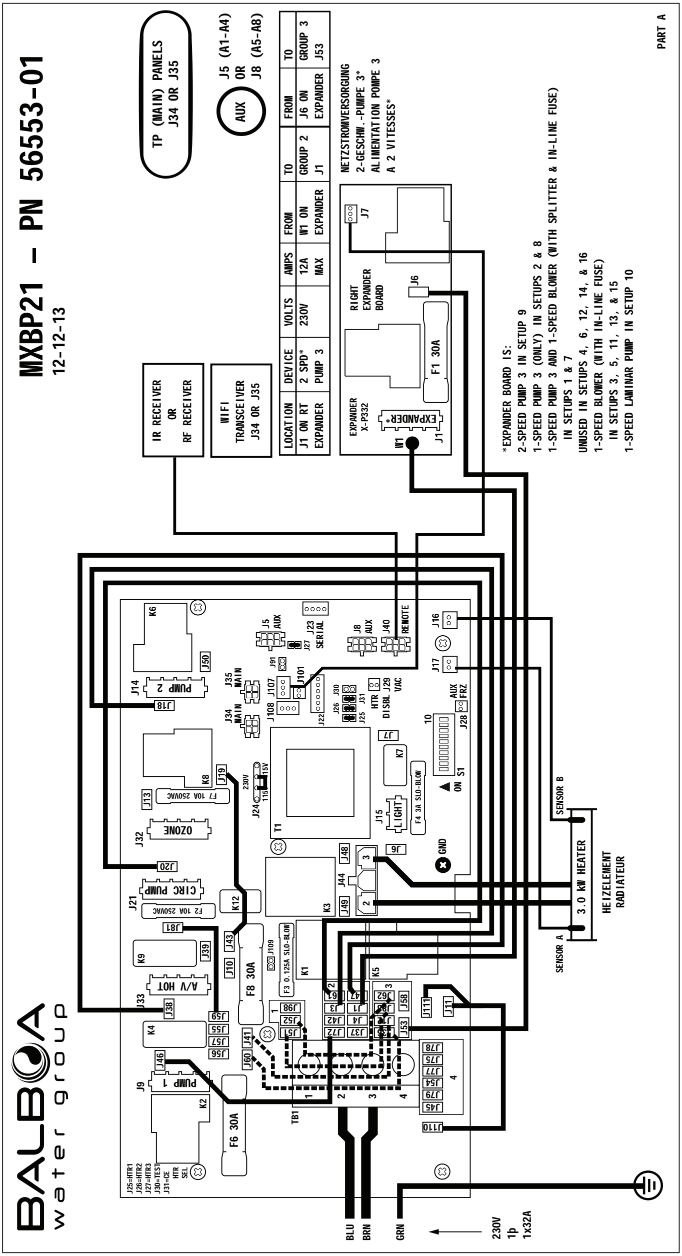
WARNING: Main Power to system should be turned OFF BEFORE adjusting DIP switches.
WARNING: Persistent Memory (J43) must be RESET to allow new DIP switch settings to take effect. (See Persistent Memory page)



MXBP21 SERIES SYSTEM WIRING DIAGRAM

Hardware Setup

Wiring Diagram



Manufactured under one or more of these patents. U.S. Patents: 5332944, 5361215, 5550753, 5559720, 5,883,459, 6253227, 6282370, 6590188, 6976052, 6965815, 7030343, 7,417,834 b2, Canadian Patent: 2342614, Australian patent: 2373248 other patents both foreign and domestic applied for and pending.

Template 56377 10-05-12 5 56553-01_97_AX2 12-12-13

SAFETY SIGN

The safety sign enclosed with your Owner's Manual should be permanently installed where visible to all users of the spa. This sign is adhesive backed and includes four screws for mounting the sign on rough surfaces. It is very important that you, as a spa owner, review the important safety instructions and warnings before you operate your spa. It is equally important that you instruct all users, even occasional ones, as to the warnings associated with spa use.
You may obtain additional signs by contacting :

USA: MAAX Spas Industries Corp..
Customer Service
25605 South Arizona Avenue
Chandler, Arizona 85248
www.maaxspas.com

LIMITED WARRANTY SUMMARY

Please refer to the Warranty Card included with your product for complete warranty information. In order to receive prompt warranty service, you must return your warranty card, completed with model and serial number, to your dealer immediately upon completion of the spa installation. MAAX Spas Industries Corp. provides a limited warranty to our customers. It applies to the spa structure, surface, plumbing, pumps, heater, blower, and controls. The limited warranty does not cover damage resulting from improper maintenance, improper installation, misuse, abuse, accident, fire, normal wear and tear, or improper water maintenance. Unauthorized modifications of the spa may void the warranty. Replacement cost associated with transportation, removal and reinstallation are the sole responsibility of the spa owner. MAAX Spas Industries Corp., reserves the right to make changes in design or material of its products at any time without incurring liability. This limited warranty applies to the first retail purchaser and terminates upon any transfer of ownership.

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Disclaimer:
The information in this manual is accurate to the best of MAAX Spas Industries Corp.'s knowledge. However, MAAX Spas Industries Corp. assumes no responsibility for errors or omissions. Nor is any liability assumed for damages resulting from use of the information contained herein. Specifications subject to change without notice. Spas shown at variable percentage of actual size.

Congratulations on your purchase of a MAAX® Spas product. Your Owner's Manual provides installation, operation and maintenance instructions.
Please review it and keep it for future references.

Save These Instructions
Owner's Record Information

Date Purchases :

Purchased From :

Phone Number :

Installed By :

Serial Number : Model :

NOTES