

spaTouch2™ Icon Driven Control Panel

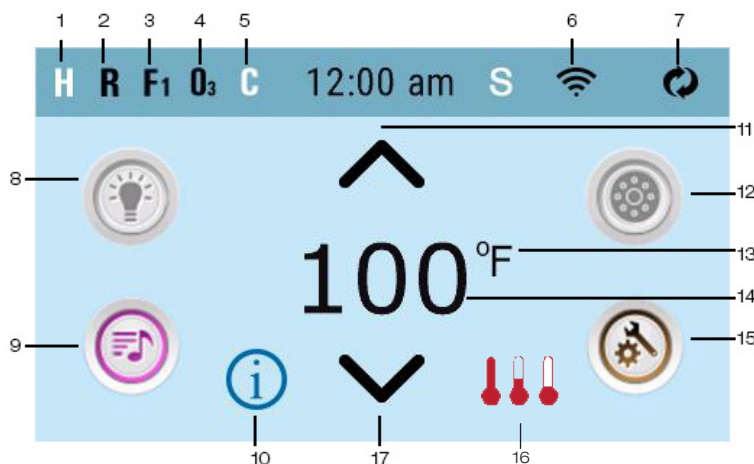
User Interface and Programming Reference Manual



THE MAIN SCREEN

Spa Status

- Important information about spa operation can be seen on the Main Screen.
- Most features, including Set Temperature adjustment, may be accessed from this screen.
- The water temperature is displayed and the Set Temperature may be adjusted.
- Time-of-Day, Ozone and Filter status are available, along with other messages and alerts.
- The selected Temperature Range is indicated in the upper left corner.
- The Spa Equipment Control Icon will spin when a pump is in operation.



ICON Specifications
















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

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

*The actual number of minutes can be customized.

THE MAIN SCREEN - Continued



ICON Specifications

1. **H** = High Temperature Range.
2. **R** = Ready Mode.  = Rest Mode.
3. **F1** = Filter Cycle 1 is running.  = Filter Cycle 2 is running.  = Filter Cycles 1 and 2 are both running.
4. **O3** = Ozone is Running. If you don't see the icon that means the Ozone is OFF.
5. **C** = Cleanup Cycle is Running.
6.  = Wi-Fi icon just indicates that the Wi-Fi link is connected. It does not indicate signal strength.
7.  = Invert (or flip) Screen.
8.  = Lights is turned ON.  = Light is Inactive.  = Light is Disabled.
9.  = Music is Active.  = Music is Inactive.  = Music is Disabled.
10. Message Waiting Indicator: The Message Waiting Indicator will show one of the following icons:
 -  = Fatal error (Spa can't function until it's fixed)
 -  = Normal Error or Warning
 -  = Reminder Message
 -  = Information Message.





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

Some messages will include the "Call for Service" text as it requires a service technician to fix the problem.

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

11.  = Adjust set temperature higher.
12.  = Spa Equipment Control Icon. Brings up a new screen where the spa jets, and other equipment can be controlled.

While on the Spa Equipment Screen, you can press a Jets button once for low speed, and if configured press it again for high speed.

 = Jet is Inactive. Indicates if a pump is running or not.
13. Indicates if the temperature is in **°F** = Fahrenheit or **°C** = Celsius.
14. Current water temperature if **°F** or **°C** is solid; set temperature if **°F** or **°C** is flashing.
15. Setting Icon.  = Settings is Active.
16.  Different animation sequences, including blinking, may indicate different stages of heating.
17.  = Adjust set temperature lower.

THE MAIN SCREEN - Continued

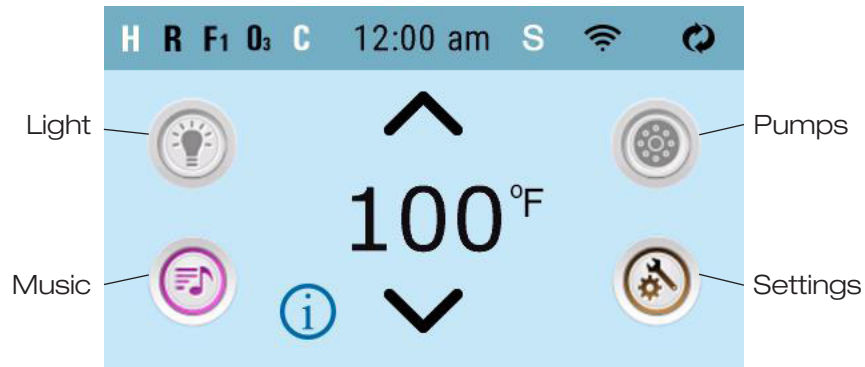
Navigation

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

The three screen selections indicated below can be selected. Pumps, settings and music*: Touch one of these to enter a different screen with additional controls.

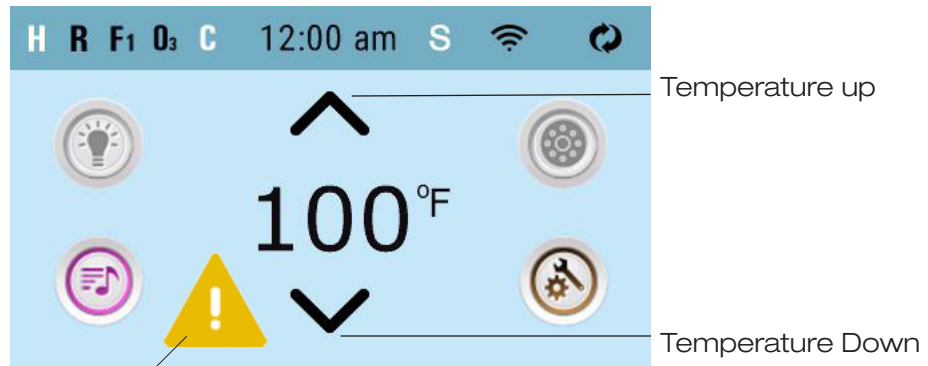
Most menu screens time out and revert to the main screen after 30 seconds of no activity.

*Music button active only when equipped with Bluetooth Audio system option.



Messages

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



A Warning Message is waiting

Set Temperature

Press Up or Down once to display the Set Temperature (indicated by a flashing °F or °C, plus a change in color of the temperature).

Press Up or Down again to modify the Set Temperature. The Set Temperature changes immediately.

Press-and-Hold

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

THE SPA SCREEN

All Equipment Access

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

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

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

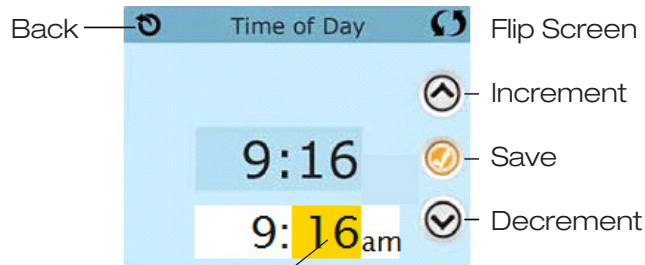


*One exception: The Main Spa Light is not shown on the Spa Screen; it is only shown (and controlled) on the Main Screen.

COMMON BUTTONS

Values Increment/Decrement

If an Up or Down button is shown and pressed when on an editing page, and a value has been selected (highlighted), the value can be incremented by pressing the up arrow or decremented by pressing the down arrow.



Selected Value

Flip Screen

Will appear on upper right on all screens. Pressing this icon will flip the screen 180 degrees.



Exiting Screens

Use the Back button to go back or exit. The Back button is on every screen except the Main Screen, the Priming Mode Screen or the Message Display Screen.



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

When you see both the Back button and an Active Save button, the Save button will Save, while the Back button will Cancel.

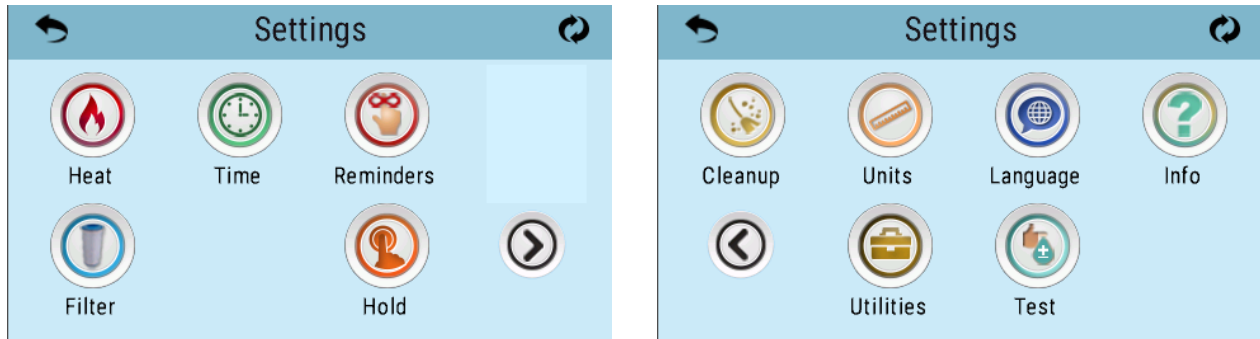
If the screen times out due to no activity it will act like Cancel.

COMMON BUTTONS - Continued

Page Right/Left

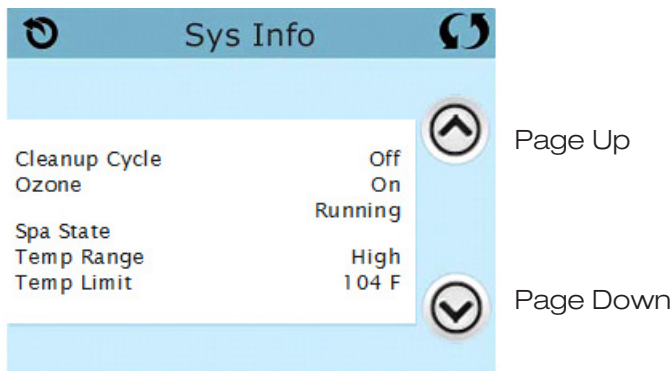
If there is a right arrow at the bottom of the screen, it takes you to the next page.

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



Page Up/Down

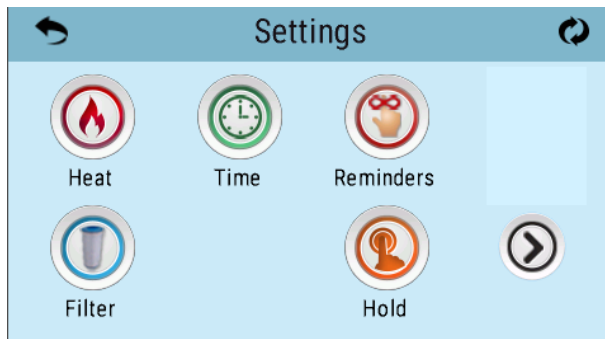
If an Up or Down button is shown and pressed when on a page with a text list, the list can be scrolled a page at a time.



THE SETTINGS SCREEN

Programming, Etc.

The Settings Screen is where all programming and other spa behaviors are controlled. Each icon on the Settings Screen takes you to a different screen, where one or more settings may be viewed and/or edited.



The Heat Icon takes you to a screen where you control the Heat Mode.

THE SETTINGS SCREEN

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 is a 2-Speed Pump 1, Ready Mode and will circulate water every 1/2 hour, using Pump 1 in Low, 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.


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

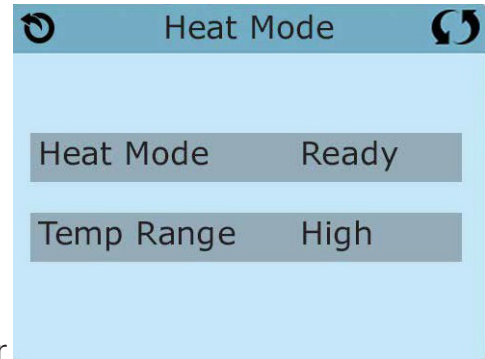
Circulation Mode (See Pumps, for other circulation modes)

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 24HR circulation mode.

Ready-in-Rest Mode

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



FILL IT UP!

Preparation and Filling

Fill the spa to its correct operating level, 2/3 up the skimmer. 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 screen or startup screen.

Priming Mode - M019*

After the initial start-up sequence, the control will enter Priming Mode and display a Priming Mode screen. Only pump icons appear on the priming mode screen. During the priming mode, the heater is disabled to allow the priming process to be completed without the possibility of energizing the heater under low-flow or no-flow conditions. Nothing comes on automatically, but the pump(s) can be energized by selecting the "Jet" buttons.



You can manually exit Priming Mode by pressing the "Back" button on the Priming Mode Screen. 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 the process. 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

The system will automatically enter the normal heating and filtering at the end of the priming mode, which lasts 4-5 minutes.

Note that if you do not manually exit the priming mode as described above, the priming mode will be automatically terminated after 4-5 minutes. Be sure that the pump(s) have been primed by this time: when water flows from the jets and all air is purged from the system.

Once the system has exited Priming Mode, the top-side panel will display the Main Screen, but the display will show the water temperature yet, as shown below. This is because the system requires approximately 1 minute of water flowing through the heater to determine the water temperature and display it.

---°F ---°C

*M0XX is a Message Code. See Fault Log.

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 of 15 minutes on high speed then transition to 5 minutes on low before turning off. You may manually turn the pump back on.

The low-speed of pump 1 runs when 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.

Filtration and Ozone

When Pump 1 is on low speed the ozone generator will run during filtration.

Filter Cycles:

- Filter cycle 1 is set at the factory to run for 1 hour one time per day.
- Filter cycle 2 is set at the factory to run for 1 hour one time per day.
- At the start of each filter cycle, pumps will run briefly to purge the plumbing to maintain good water quality.
- Adjusting the time of the filtration cycle(s) is a matter of personal preference and usage patterns. Setting the filtration cycles for late at night can avoid higher electrical rate costs as an example. If you live in a climate that is seasonally hot, running the filtration cycle at night can avoid unwanted heat build-up from the pumps and prolong the life of the equipment. If your usage patterns are heavy and you would like additional filtration to occur, you have the choice of extending the filtration time or changing the second cycle to a different part of the day.

Freeze Protection

If the temperature sensors within the heater detect a low enough temperature, 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 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 the temperature thresholds are determined by the switch. See your dealer for details.

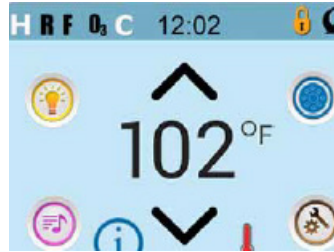
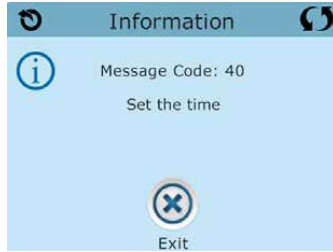
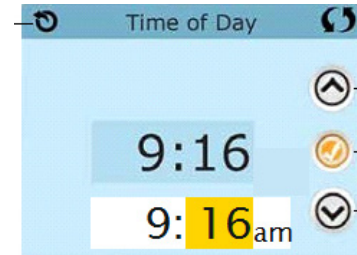
Clean-up Cycle

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

TIME-OF-DAY

Be sure to set the Time-of-Day

- Setting the Time-of-Day is important for determining filtration times and other background features.
- Settings Screen takes you to a screen where you control the Time-of-Day.
- On the Time-of-Day screen, simply select the Hours and Minutes. Use the Up and Down Buttons to make changes, then Save.
- If no Time-of-Day is set in the memory an Information Screen will appear. If you exit it an Information Icon will appear at the bottom of the Main Screen, until the Time-of-Day has been set.



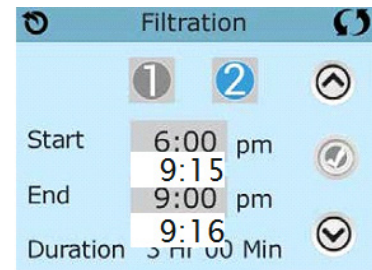
Note: If power is interrupted to the system, Time-of-Day will be maintained for several days.

ADJUSTING FILTRATION

Main Filtration

Using the same 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 automatically.

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



Filter Cycle 2

Viewing Filter 1 while Filter 2 is OFF:



Viewing Filter 1 while Filter 2 is ON:



- Press “1” to view Filter 1. Press “2” once to view Filter 2. Press “2” again to turn Filter 2 ON or OFF.
- When Filter Cycle 2 is ON, it can be adjusted in the same manner as Filter Cycle 1.
- It is possible to overlap Filter Cycle 1 and Filter Cycle 2, which will shorten overall filtration by the overlap amount.

ADDITIONAL SETTINGS

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. (Some systems will run a certain number of purge cycles per day, independent of the number of filter cycles per day. In this case, the purge cycles may not coincide with the start of the 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.

The Meaning of Filter Cycles

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

AUXILIARY PANEL

Specific Buttons for Specific Devices

If the spa has an Auxiliary Panel installed, pressing buttons on that panel will activate the device indicated for that button.

These dedicated buttons will operate just like the Spa Screen buttons and the equipment will behave in the same manner with each button press.

Hold - M037*

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

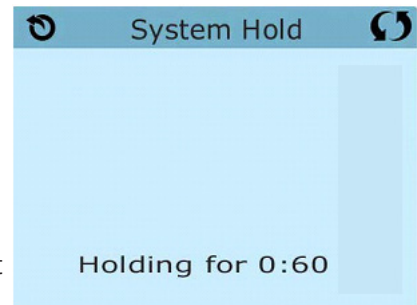
The Hold Icon on the Settings Screen places the spa in Hold Mode and displays the System Hold screen. Touch Back to exit Hold Mode.

Drain Mode

Some spas have a special feature that allows Pump 1 to be employed when draining the water. When available, this feature is a component of Hold Mode.

Touch this Icon to turn the Drain Pump ON or OFF.

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

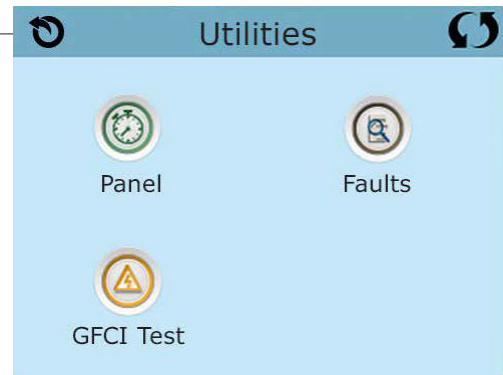


THE UTILITIES SCREEN

Utilities

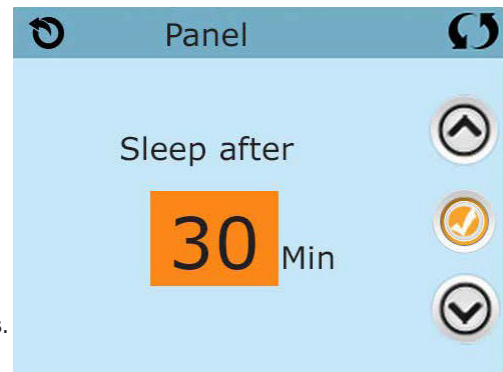
The Utilities Icon on the Settings Screen takes you to the Utilities Screen.

The Utilities Screen contains the following:



Panel

Touching the Panel Icon on the Utilities Screen takes you to the Panel Screen, where you can set how long it takes the panel to go to sleep after the last activity. The Sleep Timer can be set from 1 minute to 60 minutes. The default is 30 minutes.



Fault Log

The Fault Log is a record of the last 24 faults that can be reviewed by a service tech.

Use the Up and Down buttons to view each of the Faults.

When Priming Mode shows in the Fault Log, it is not a fault. Rather, it is used to keep track of spa restarts.

GFCI Test

(Feature not available on CE rated systems.)

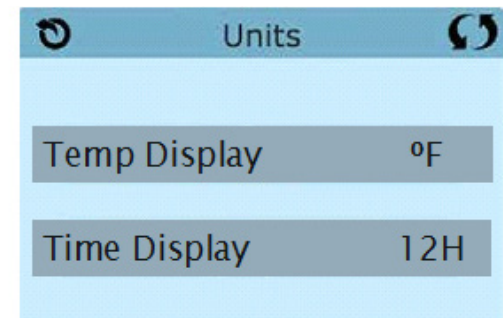
Your system may have GFCI configured in one of three ways:

1. GFCI test is not enabled
2. Manual GFCI test is enabled but automatic GFCI test is not enabled
3. Both manual and automatic GFCI tests are enabled. The automatic test will happen within 7 days of the spa being installed and if successful will not repeat. (If the automatic test fails it will repeat after the spa is restarted.)

GFCI Test will not appear on the screen if it is not enabled. This screen allows the GFCI to be tested manually from the panel and can be used to reset the automatic test feature.

Units Screen

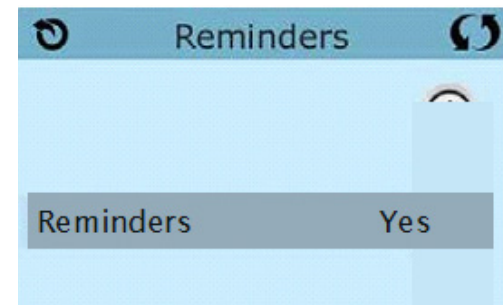
- The Units Icon on the Settings Screen takes you to the Units Screen.
- Press Temp Display to change the temperature between Fahrenheit and Celsius.
- Press Time Display to change the clock between 12 hr and 24 hr display.



Reminders

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

Press Reminders to turn the reminder messages (like Clean Filter) ON (Yes) or OFF (No).

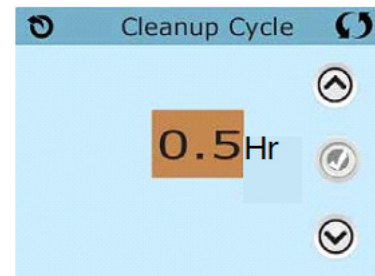


REMINDERS - Continued

Cleanup Cycle

Cleanup Cycle Duration is not always enabled, so it may not appear. When it is available, set the length of time Pump 1 will run after each use. 0-4 hours are available. Settings it to 0.0 Hr keeps the Cleanup Cycles from running.

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



Language

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

Change the language displayed on the panel.



INFORMATION

System Information

The System Information Screen displays various settings and identification of the particular system.

System Model

Displays the Model Number of the System.

Panel Version

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

Software ID (SSID)

Displays the software ID number for the System.

Configuration Signature

Displays the checksum for the system configuration file.

Current Setup

Displays the currently selected Configuration Setup Number.

Dip Switch Settings

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

Heater Voltage (Feature not used on CE rated systems.)

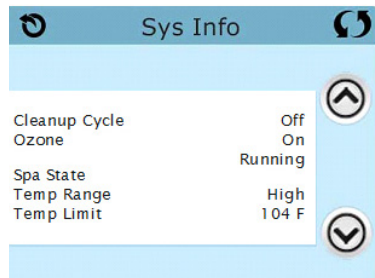
Displays the operating voltage configured for the heater.

Heater Wattage as Configured in Software (CE Systems Only.)

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

Heater Type

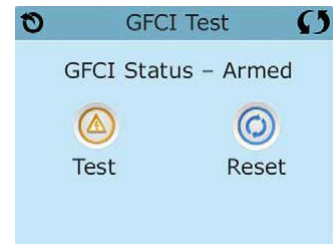
Displays a heater type ID number.



UTILITIES - GFCI TEST FEATURE

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

(The GFCI Test Feature is not available on CE rated systems.)



Used for verifying a proper installation

Your spa may be equipped with a GFCI Protection feature. If your spa has this feature enabled by the manufacturer, the GFCI Trip Test must occur to allow proper spa function.

On some systems:

Within 1 to 7 days after startup, the spa will trip the GFCI to test it. (The number of days is factory programmed.) The GFCI must be reset once it has tripped. After passing the GFCI Trip Test, any subsequent GFCI trips will indicate a ground fault or other unsafe condition and the power to the spa must be shut off until a service person can correct the problem.

Forcing the GFCI Trip Test (North America Only)

Touching the GFCI Test Icon on the Utilities Screen takes you to the GFCI Test screen.

The installer can cause the GFCI Trip Test to occur sooner by pressing Test on the GFCI Test screen.

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

Once the GFCI is tripped by the test, reset the GFCI and the spa will operate normally from that point. You can verify a successful test by navigating to the above screen. Passed should appear after the Reset line is selected on the GFCI screen.

CE Product:

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

Reset Button:

- Only use the Reset Button prior to moving the spa to a new location.
- Pressing the Reset the button forces a new Test to be performed at the new location.

GENERAL MESSAGES

Most messages and alerts will appear at the bottom of the normally used screens. Several alerts and messages may be displayed in a sequence.

---°F---°C

Water Temperature is Unknown

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

Possible freezing condition

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

The water is too hot - M029*

The system has detected a spa water temp of 110°F (43.3°C) or more, and spa functions are disabled. System will auto reset when the spa water temp is below 108°F (42.2°C). Check for extended pump operation or high ambient temp.



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

HEATER-RELATED MESSAGES

The water flow is low - M016**

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

The water flow has failed* - M017**

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

The heater may be dry* - M028**

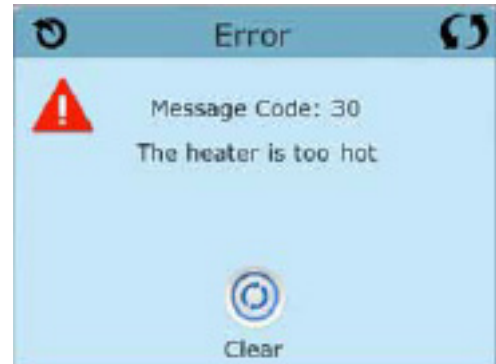
Possible dry heater, or not enough water in the heater to start it. The spa is shut down for 15 min. Reset this message* to reset the heater start-up. See Flow Related Checks below.

The heater is dry* - M027**

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

The heater is too hot* - M030**

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



Flow-Related Checks

Check for low water level, suction flow restrictions, closed valves, trapped air, too many closed jets and pump prime.

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

*** Some messages can be reset from the panel.**

Messages that can be reset will appear with a Clear Icon at the bottom of the Message Screen. Press the Clear Icon text to reset the message.



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

SENSOR-RELATED MESSAGES

Sensors are out of sync - M015**

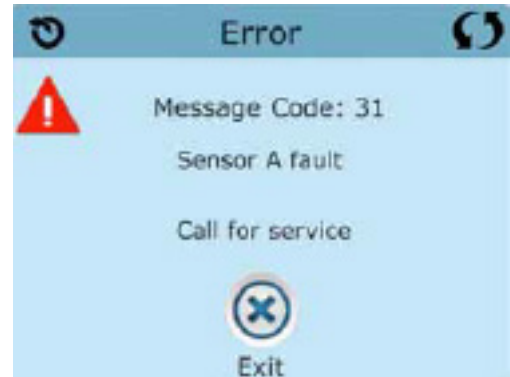
The temperature sensors MAY be out of sync by 2°F. Call for Service if this message does not disappear within a few minutes.

Sensors are out of sync - Call for service* - M026**

The temperature sensors ARE out of sync. The fault above has been established for at least 1 hour. Call for Service.

Sensor A Fault, Sensor B Fault - Sensor A: M031, Sensor B: M032****

A temperature sensor or sensor circuit has failed. Call for Service.



MISCELLANEOUS MESSAGES

Communications error

The control panel is not receiving communication from the System. Call for Service.

Test software installed

The Control System is operating with test software. Call for Service.

SYSTEM-RELATED MESSAGES

Program memory failure* - M022**

At Power-Up, the system has failed the Program Checksum Test. This indicates a problem with the firmware (operation program) and requires a service call.

The settings have been reset (Persistent Memory Error)* - M021**

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

The clock has failed* - M020**

Contact your dealer or service organization.

Configuration error (Spa will not Start Up)

Contact your dealer or service organization.

The GFCI test failed (System Could Not Test the GFCI) - M036**

(North America Only) May indicate an unsafe installation. Contact your dealer or service organization.

A pump may be stuck on - M034**

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

Hot fault - M035**

A pump appears to have been stuck ON when spa was last powered. POWER DOWN THE SPA. DO NOT ENTER THE WATER. Contact your dealer or service organization.

*** Some messages can be reset from the panel.**

Messages that can be reset will appear with a Clear Icon at the bottom of the Message Screen. Press the Clear Icon text to reset the message.



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

Warning! Qualified Technician Required for Service and Installation

Basic Installation and Configuration Guidelines

- Use minimum 6AWG copper conductors only.
- Torque field connections between 21 and 23 in lbs.
- Readily accessible disconnecting means to be provided at time of installation.
- Permanently connected power supply.
- Connect only to a circuit protected by a Class A Ground Fault Circuit Interrupter (GFCI) or Residual Current Device (RCD) mounted at least 5' (1.52M) from the inside walls of the spa/hot tub and in line of sight from the equipment compartment.
- CSA enclosure: Type 2
- Refer to Wiring Diagram inside the cover of the control enclosure.
- Refer to Installation and Safety Instructions provided by the spa manufacturer.

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

Warning: To avoid injury, exercise care when entering or exiting the spa or hot tub.

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

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

Warning: Maintain water chemistry in accordance with the manufacturers instructions.

Warning: The equipment and controls shall be located not less than 1.5 meters horizontally from the spa or hot tub.

Warning! GFCI or RCD Protection.

The Owner should test and reset the GFCI or RCD on a regular basis to verify its function.

Warning! Shock Hazard! No User Serviceable Parts.

Do not attempt service of this control system. Contact your dealer or service organization for assistance. Follow all owner's manual power connection instructions. Installation must be performed by a licensed electrician and all grounding connections must be properly installed.

CSA Compliance/Conformité Caution:

- Test the ground fault circuit interrupter before each use of the spa.
- Read the instruction manual.
- Adequate drainage must be provided if the equipment is to be installed in a pit.
- For use only within an enclosure rated CSA Enclosure 3.
- Connect only to a circuit protected by a Class A ground fault circuit interrupter or residual current device.
- To ensure continued protection against shock hazard, use only identical replacement parts when servicing.
- Install a suitably rated suction guard to match the maximum flow rate marked.

Warning:

- Water temperature in excess of 100.4°F or 38°C may be injurious to your health.
- Disconnect the electrical power before servicing.

Attention:

- Toujours vérifier l'efficacité du disjoncteur différentiel avant d'utiliser différentiel avant d'utiliser le bain.
- Lire la notice technique.
- Lorsque l'appareillage est installé dans une fosse, on doit assurer un drainage adéquat.
- Employer uniquement à l'intérieur d'une clôture CSA Enclosure 3.
- Connecter uniquement à un circuit protégé par un disjoncteur différentiel de Class A.
- Afin d'assurer une protection permanente contre le danger de choc électrique, lors de l'entretien employer seulement des pièces de rechange identiques.
- Les prises d'aspiration doivent être équipées de grilles convenant au débit maximal indiqué.

Avertissement:

- Des températures de l'eau supérieures à 38°C peuvent présenter un danger pour la santé.
- Déconnecter du circuit d'alimentation électrique avant l'entretien.

Warning/Avvertissement:

- Disconnect the electric power before servicing. Keep access door closed.
- Déconnecter du circuit d'alimentation électrique avant l'entretien.
- Garder la porte fermée.

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