



Let Us Help You!

Merlin Control Panel User's Manual

Newport Controls, LLC
2201 Alton Parkway
Irvine, CA 92606

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technicalsupport@newportcontrols.com 949-442-4260 www.newportcontrols.com

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Welcome To A New Dimension In Spa Control Systems.

Quick Start Guide - You can use your Merlin Smart Control & Video Display three ways: (1) One Button Touch in **Spa Shortcut Mode**

to turn a function On, like a Pump or Light without any navigation or additional steps. (2) **Spa Navigation Mode** where you utilize the full opportunities on the Full Color Screen. (3) One Button Touch in **Entertainment Shortcut Mode** to directly turn On and Control Entertainment functions, like Play or Pause for an iPod or DVD Player. The **Mode** Button quickly Changes from **Spa Shortcut Mode**, to **Spa Navigation Mode**, and to **Entertainment Mode**. All of the **Numbered Buttons** are Multifunction Buttons, which perform different Functions depending on the **Mode**. This Section is a **Quick Start Guide** to get you started in Navigating the **Merlin Control Panel** Menu System. For the **Best Button Response** when Touching a Button, use the Tip of your Finger or Thumb in the Center of the Button, rather than flattening out your thumb or finger on the Button.

Spa Shortcut Mode System Control

The Key to the **Button Functions** is on Screen.



These are the **Spa Shortcut Mode Active Buttons**.

In **Spa Shortcut Mode**, all of the buttons Except the **Select** Button and the **Back** Button can be used to Directly Control the Spa System equipment and other functions. A Yellow Icon on the Screen indicates that the Function is On. The **Back** Button is not used in the **Spa Shortcut Mode**.

The **Pump 1** Button is the Jet **Pump 1** Control Button.

The **Light** Button is the Spa **Light** Control Button.

The **Temp** Button is the Water **Temperature** Control Button.

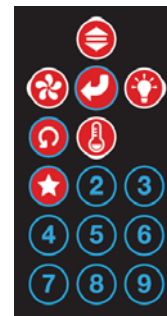
The **Invert** Button is the **Invert** Display Screen Button.

The **2**, **3**, **4**, **5**, **6**, **7**, **8**, and **9** Buttons are the Spa Option Control Shortcut Buttons as defined on the Screen, which may be the Air **Blower**, Jet **Pump 2**, Jet **Pump 3**, another **Light**, or other Option.

The **Select** Button is used to Change from **Spa Shortcut Mode** to **Spa Navigation Mode**. The **Mode** Button Changes from **Spa Shortcut Mode** to **Spa Navigation Mode**, and then to **Entertainment Shortcut Mode**.

Spa Navigation Mode System Control

The **iPod*** Icon on the Home Screen is Highlighted.



These are the **Spa Navigation Mode** Active Navigation Buttons.

In the **Spa Navigation Mode**, all of the **Main Functions** at the Top of the Screen can be Scrolled either Up or Down to access all of the Main Functions, rotating like a Wheel. In the Center of the Screen, all of the **Icon Functions** can be Scrolled either Left or Right to access all of the Icon Functions, rotating like a Wheel. All of the Buttons Except the Option **2**, **3**, **4**, **5**, **6**, **7**, **8**, and **9** Buttons can be used to **Navigate** and **Select** from the Menu System.



The **Up**  Button Scrolls **Up** from **Entertainment** at the Top of the Screen.

The **Down**  Button Scrolls **Down** from **Entertainment** at the Top of the Screen.



The **Left**  Button Moves **Left** to the next **Icon Function** Left.

The **Right**  Button Moves **Right** to the next **Icon Function** Right.

The **Select**  Button is used to **Select** a Menu Item, or turn an item On or Off.



The **Back**  Button is used to go back one level in the Menu System. From the **Spa Navigation Mode** Screen, the **Back**  Button is also used to immediately Change to **Spa Shortcut Mode**. The **Mode**  Button Changes from **Spa Navigation Mode**, to **Entertainment Mode**, and then to **Spa Shortcut Mode**.

The **2**, **3**, **4**, **5**, **6**, **7**, **8**, and **9** Buttons continue to operate as the Spa Option Control Shortcut Buttons in the **Spa Navigation Mode**.

When Navigating the Menus, if the Yellow Highlighted Menu Bar you are on has an Arrow at the Right End of the Menu Bar, use the **Right**  Button to Navigate to the Next Menu, and use the **Back**  Button to Return to the Previous Menu.



Use the **Up**  Button to Scroll Up to the next Menu Bar Above, or use the **Down**  Button to Scroll Down to the next Menu Bar Below.

If the Blue Area at the Bottom of the Menu says **More** and has Arrows pointing Down and/or Up, as indicated, use the **Down**  Button to Scroll from the Bottom Menu Bar to the Next Menu, or the **Up**  Button to Scroll from the Top Menu Bar to the Previous Menu.



Entertainment Shortcut Mode - iPod*, iPhone*, USB Device & MP3 Player

The Key to the **Button Functions** is on the **Side Menus**.



These are the **iPod Entertainment Shortcut Mode Active Buttons**.

When the **Entertainment Side Menus** with the iPod Control Shortcut Button Functions are displayed on screen, the System is in **iPod Entertainment Shortcut Mode**, and All of the buttons Except the **Select** (right arrow) Button and the **Back** (left arrow) Button can be used to Directly Control the iPod Entertainment equipment.

The **Left** (three arrows pointing left) Button is the Move **Left** Navigation Button.

The **Right** (three arrows pointing right) Button is the Move **Right** Navigation Button.

The **Down** (vertical line with downward arrow) Button is the Scroll **Down** Navigation Button.

The **Up** (vertical line with upward arrow) Button is the Scroll **Up** Navigation Button.

When the **Side Menus** are turned On, the Numbered Buttons are the Entertainment Control Shortcut Buttons as defined on the Side Menus.

On **Side Menu Page 1**: ② Power, ③ Page 2, ④ Volume Up, ⑤ Play, ⑥ Pause, ⑦ Volume Down, ⑧ Mute, ⑨ Stop.

On **Side Menu Page 2**: ② Power, ③ Page 1, ④ Volume Up, ⑤ Rewind/Previous, ⑥ Fast Forward/Next, ⑦ Volume Down, ⑧ Mute, ⑨ Display.

A **Volume Level Indicator** at the Bottom of the **Right Menu Bar** will Display the Volume Level. Full Volume is shown to the Right.



The **Select** (right arrow) Button is used to **Select** a Menu Item.

The **Mode** (star) Button Changes from **iPod Entertainment Shortcut Mode** to **Spa Shortcut Mode**, and then to **Spa Navigation Mode**.

The **Back** (left arrow) Button turns the **Side Menus** On and Off.

In the **Entertainment Mode**, when the **Side Menus** are turned Off, all of the Buttons except the **Back** (left arrow) Button are in **Spa Shortcut Mode** and control the Spa Functions. The **Side Menus** will automatically turn Off in 30 seconds if a Button is not touched.

* **iPod** and **iPhone** are trademarks of Apple Inc., registered in the United States and other countries.

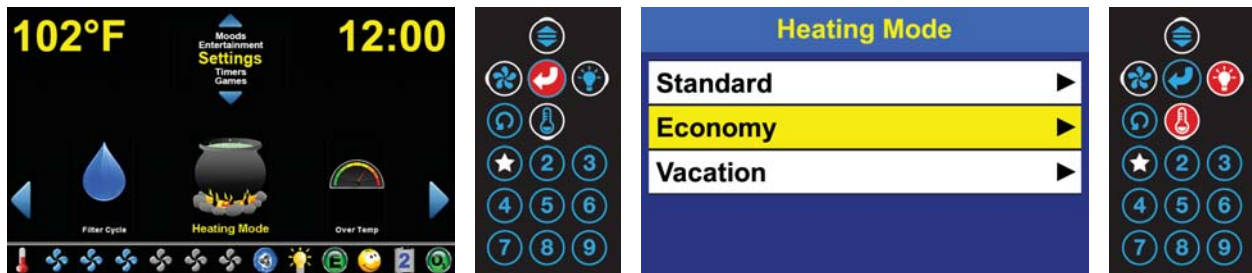
Setting Up Your Spa Control System




This Section of the **Merlin Control Panel User's Manual** provides more Detailed Instructions for properly Setting Up and Configuring your Spa Control System. All of the initial Spa Control System Options and Settings, like Time and Date, Filter Cycles, Heating Mode, and Language, are located in the **Settings** Menu. In case of Power Failure, all of your Options and Settings will be remembered by the Control System.



In **Spa Navigation Mode**, with the Default **Entertainment** Highlighted, Move **Down**  to **Settings**, and Touch the **Select**  Button to open a **Settings** Menu.

Set the Heating Mode - The Heating Mode determines when the Heater will heat and how the Water Temperature will be maintained. There's a Description of the Heating Mode in each Heating Mode Menu.



In the **Settings** Menu with **Heating Mode** Highlighted, Touch **Select**  to open the **Heating Mode** Menu. The Default Heating Mode is the **Standard** Mode. To change Heating Modes, from the **Heating Mode** Menu Bar, Move **Down**  and **Right**  to the **Heating Mode** Set Menu.



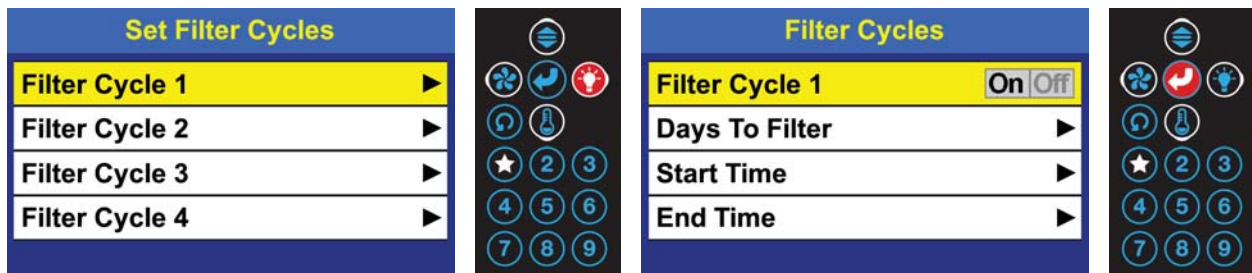
To change to this Heating Mode, Touch **Select** , or to Exit back, Touch **Back** .

Set the Filter Cycles - The Filter Cycles determine when the Filter Pump will turn On to Filter the Water. The Default is two 2 hour Filter Cycles every day of the week, 12 hours apart. You can Set up to four Filter Cycles on any days of the week, and with any Start Time and End Time you want.

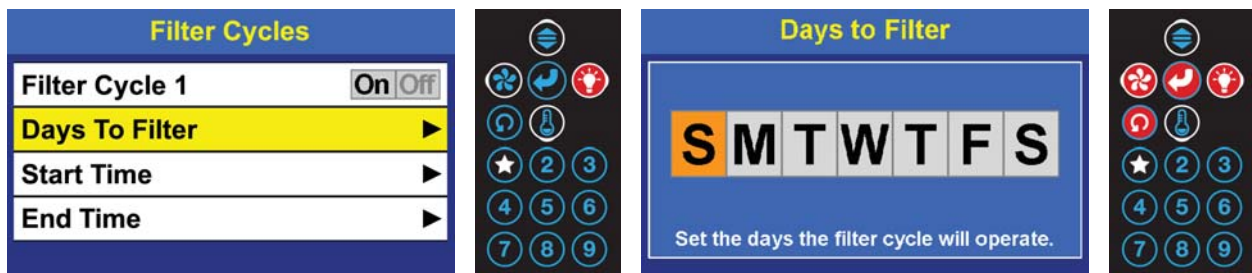
The Filter Cycle Days and Time also determine when the Heating will take place in the **Economy** and **Vacation** Heating Modes. In these Modes, the Heater will only operate during the Filter Cycle Filtration times, and will not operate between Filter Cycles.



In the **Settings** Menu with **Heating Mode** Highlighted, Move **Left** to **Filter Cycles** and Touch **Select** to open the **Set Filter Cycles** Menu.

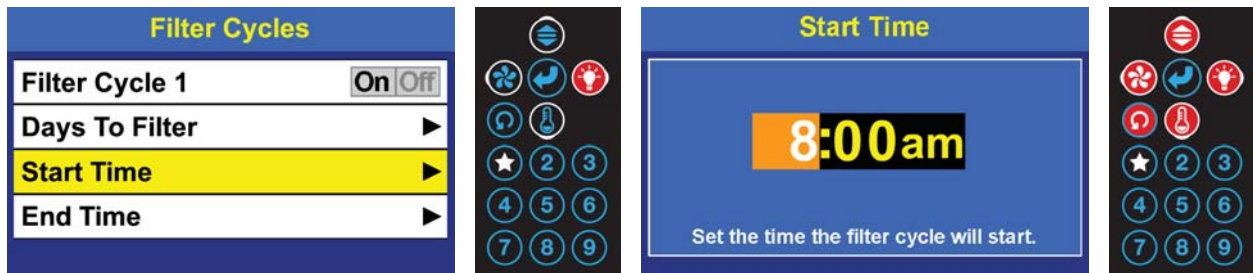








By Default, **Filter Cycle 1** is On and Preset. To Change the Days and Time for **Filter Cycle 1** or to Set or Modify other Filter Cycles, scroll to the Filter Cycle, then Move **Right** to the **Filter Cycles** Set Menu. To turn On (Enable) or turn Off (Disable) a Filter Cycle, with **Filter Cycle 1** Highlighted, Touch **Select**. If the Filter Cycle is Set to Off, the System ignores the Days and Times Set, and the Filter Cycle is Disabled.

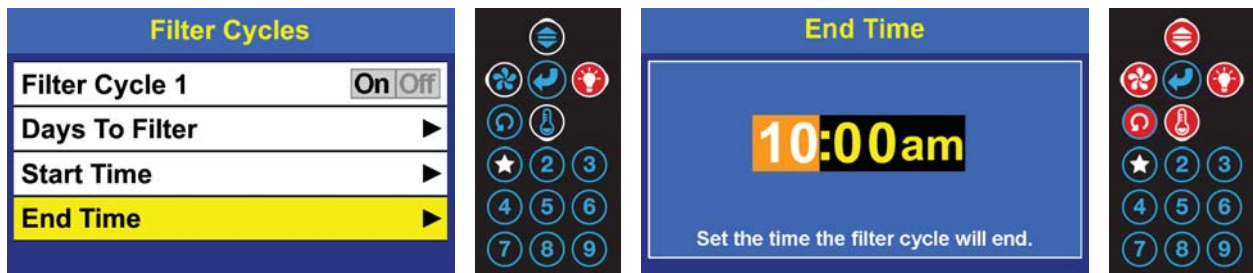


To Set the Days for the Filter Timer to Operate, from the **Days To Filter** Menu Bar, Move **Right** to the **Days To Filter** Menu. By Default, all days are turned On. To turn a day Off or On, Move **Left** or **Right** to that day and Touch **Select**. Touch **Back** to Exit back to the previous Menu.

Filter Cycles (Continued)

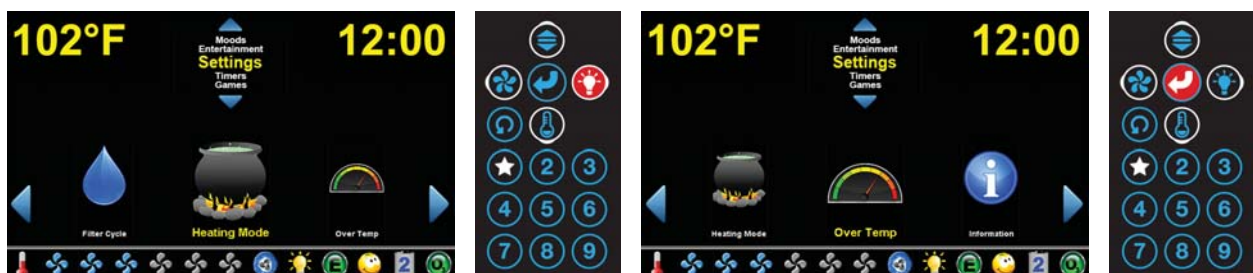


To Set the Filter Timer Start Time, from the **Start Time** Menu Bar, Move **Right**  to the **Start Time** Menu. To change the Filter Timer Start Time, Move **Left**  or **Right**  to Hours or Minutes, and then Touch **Up**  or **Down**  to change the Time. Touch **Back**  to Exit back to the previous Menu.



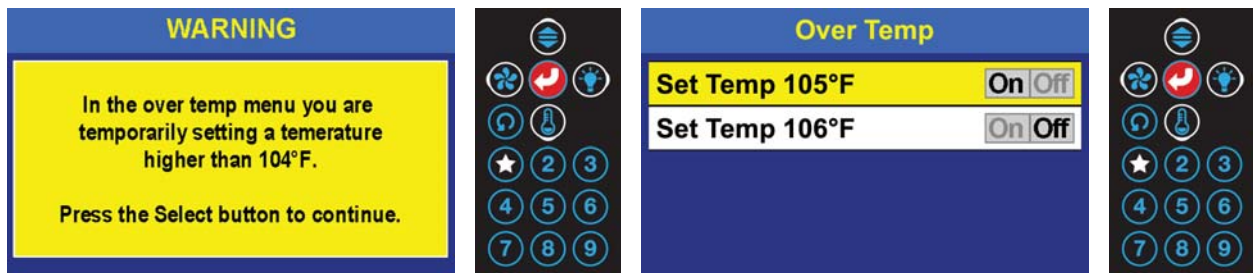
To Set the Filter Timer **End Time**, from the **End** Menu Bar, Move **Right**  to the **End Time** Menu. To change the Filter Timer **End Time**, Move **Left**  or **Right**  to Hours or Minutes, and then Touch **Up**  or **Down**  to change the Time. Touch **Back**  to Exit back to the previous Menu.



Set Over Temperature - If you want a temporary Water Set Temperature higher than 104°F (40.0°C), you Must Set it in the **Over Temp** Menu. Underwriters Laboratory requires this type of Control because the Consumer Product Safety Commission has determined that soaking in Water Temperatures above 104°F (40.0°C) can sometimes be Dangerous.

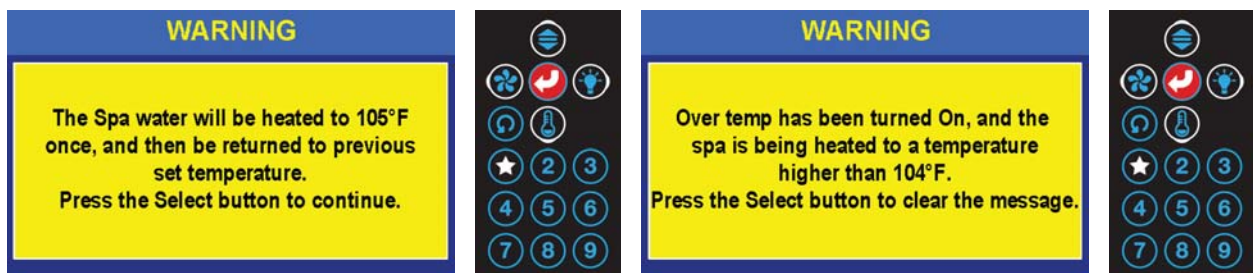




To Increase the Water Set Temperature to 105°F (40.5°C) or 106°F (41.0°C), From the **Settings** Menu with **Heating Mode** Highlighted, Move **Right**  to **Over Temp** and Touch **Select**  to open the **Over Temp** Menu.

Over Temp (Continued)

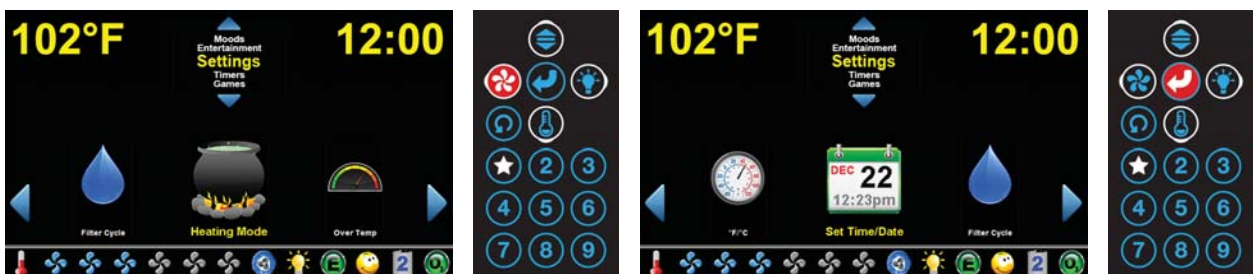


You must confirm your intention to temporarily Set a Water Temperature higher than 104°F (40.0°C). Touch **Select**  to continue to the **Over Temp** Menu to raise the Water Temperature above 104°F (40.0°C). Scroll to the desired Water Set Temperature and Touch **Select**  to Set that Water Temperature.



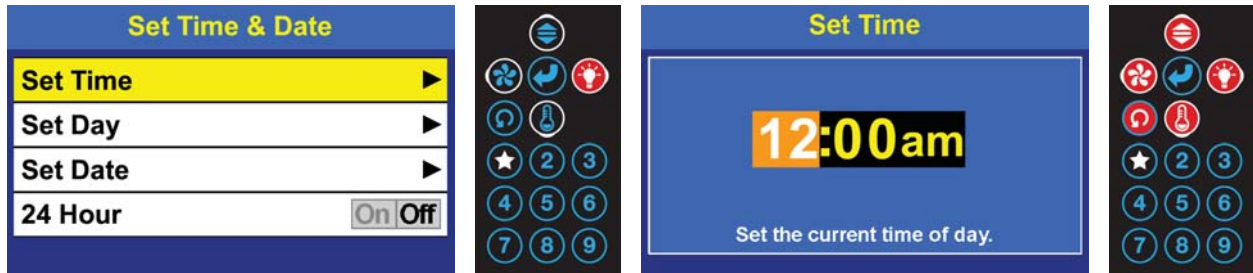
Touch **Select**  again to verify your selected Set Temperature. Touch **Select**  again to clear the last Warning Message, and your **Over Temp** selection will be recorded to the Event Log. The Water will be Heated to the selected Set Temperature one time. You will have to come back to the **Over Temp** Menu to raise it above 104°F (40.0°C) again.

Set Time and Date - Once you Set the Current Time of Day, Day of the Week, and Calendar Date, it will be maintained in System Memory, and it should not have to be Set again except for Daylight Savings Time changes. The Calendar Date is only used for the **Event Log** which is in the **Service** Menu and **Settings** Menu. Only the Time of Day and Day of the Week are used for Setting Filter Cycles and other Timers. You also have a choice of regular 12 Hour Time Display with AM and PM, or 24 Hour Military Time.

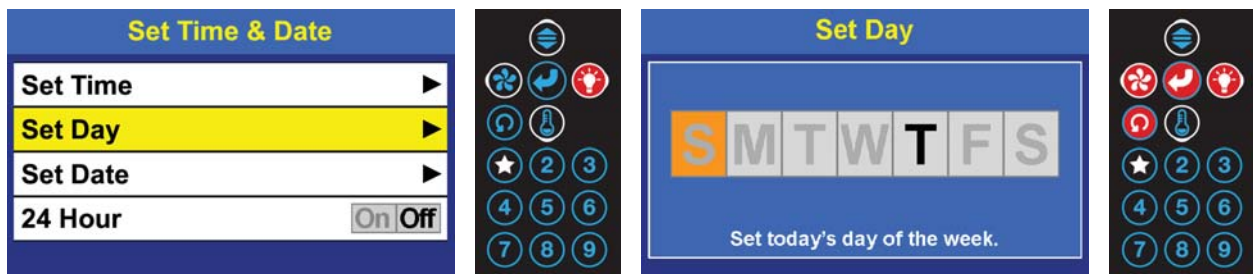


In the **Settings** Menu with **Heating Mode** Highlighted, Move **Left**  to **Set Time/Date** and Touch **Select**  to open the **Set Time & Date** Menu.

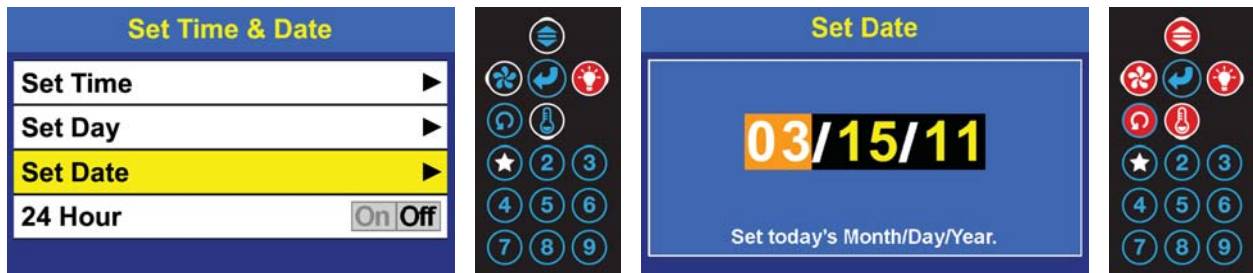
Time & Date (Continued)



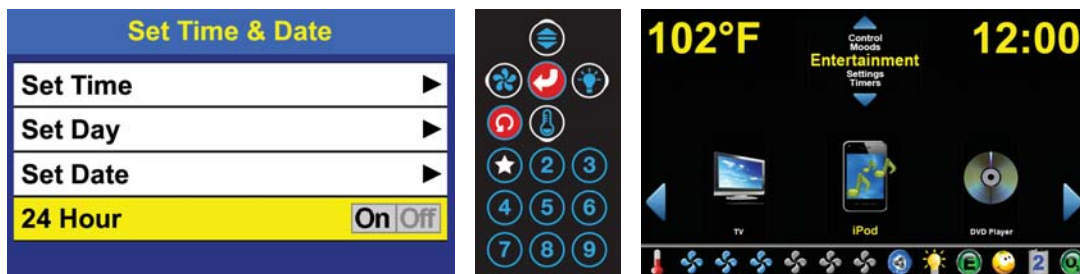
To Set the Time of Day, from the **Set Time** Menu Bar, Move **Right** to the **Set Time** Menu. To change the Time of Day, Move **Left** or **Right** to Hours or Minutes, and then Touch **Up** or **Down** to change the Time. To Exit back, Touch **Back** .



To Set the Day of the Week, from the **Set Day** Menu Bar, Move **Right** to the **Set Day** Menu. To change the Current Day of the Week to a different Day, Move **Left** or **Right** to that day and Touch **Select** . To Exit back, Touch **Back** .

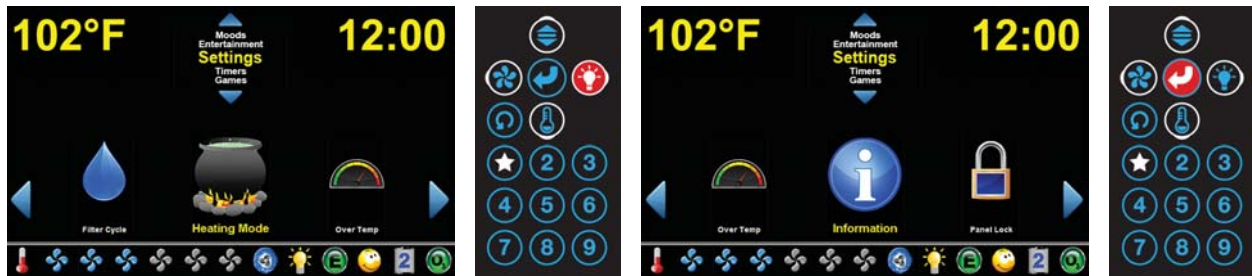


To Set the Calendar Date, from the **Set Date** Menu Bar, Move **Right** to the **Set Date** Menu. To Set the Calendar Date, Move **Left** or **Right** to Month, Day, or Year, and then Touch **Up** or **Down** to Set the Date. To Exit back, Touch **Back** .



To turn **24 Hour** Time Display On or Off, from the **24 Hour** Menu Bar, Touch **Select** . When you Move **Back** to the Home Screen, the Time will read 1:00 - 24:00 Hours.

Check the Spa Information - You can find out Information about your Spa or Spa Manufacturer on the Information Menu.



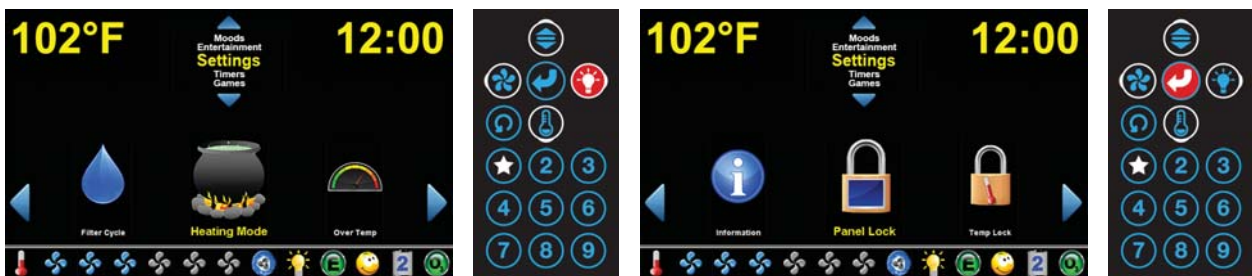
In the **Settings** Menu with **Heating Mode** Highlighted, Move **Right**  to **Information** and Touch **Select**  to open the **Information** Menu. The **Information** Menu will have different Information or Instructions, depending on the Brand of the Spa.

Set Fahrenheit or Celsius - Your Water Temperature can be Set to display in either Degrees **Fahrenheit** or Degrees **Celsius**. The Default is Degrees **Fahrenheit**.



To toggle back and forth between **°F** and **°C** Temperature display, from the **Settings** Menu with **Heating Mode** Highlighted, Move **Left**  to **°F/°C** and Touch **Select**  to change from **°F** to **°C** or from **°C** to **°F**.

Lock the Control Panel - You can Lock the Control Panel so that none of the Panel Buttons operate. When the Panel is Locked, the only User Input the System will recognise is the Unlock Code Sequence.



In the **Settings** Menu with **Heating Mode** Highlighted, Move **Right**  to **Panel Lock** and Touch **Select**  to Lock the Control Panel.

Panel Lock (Continued)

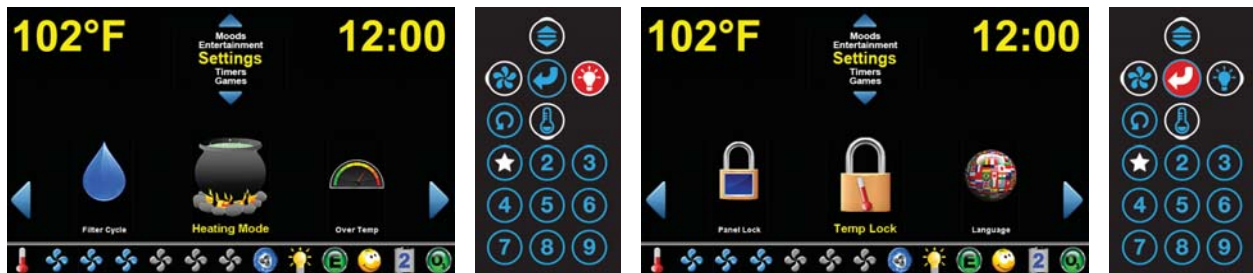


Wait a few Seconds.

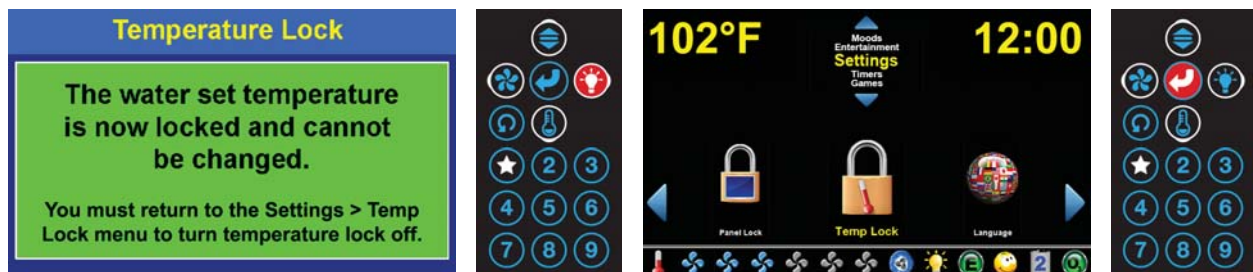


The **Panel Lock** Message appears on the Screen for a few seconds after the Panel is Locked, and then it goes back to the Home Screen. To Unlock the Control Panel, you Must Touch **Select - Select - Up** after the **Panel Lock** Message Closes back to the Home Screen. Touch a **Shortcut Button** to Display the Message again.

Lock the Water Temperature - You can Lock the Temperature Adjustment so that the Water Set Temperature cannot be changed. When the Temperature is Locked, you cannot change the Temperature with the **Temp** Button, and you cannot change the Temperature on the Water **Temperature** Screen in Navigation Mode.



In the **Settings** Menu with **Heating Mode** Highlighted, Move **Right** to **Temp Lock** and Touch **Select** to Lock the Water Temperature.



The **Temp Lock** Message appears on the Screen after the Temperature is Locked. To Exit the Message, Touch **Back** or **Select**. To Unlock the Control Panel, you Must Return to **Temp Lock** on the Home Screen, and Touch **Select** to turn it Off.

Check the Spa Event Log - You can Check the **Event Log** for Information about your Spa. The **Event Log** records Spa Events such as a Possible Freeze Condition, or if you have had any Power outages.

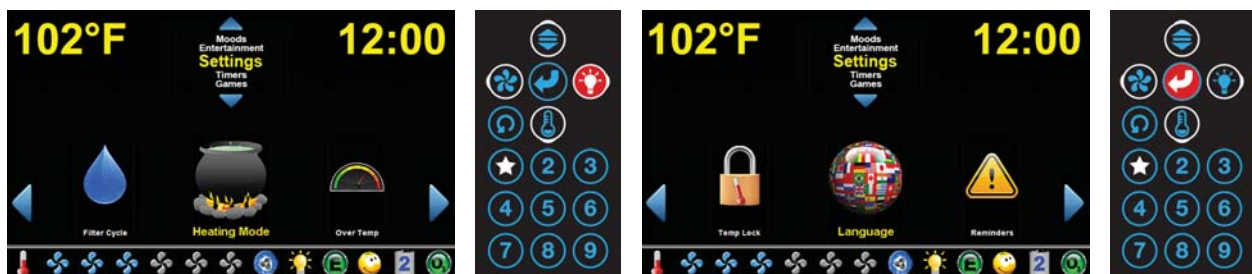


In the **Settings** Menu with **Heating Mode** Highlighted, Move **Left** to **Event Log** and Touch **Select** to open the **Event Log** Screen.



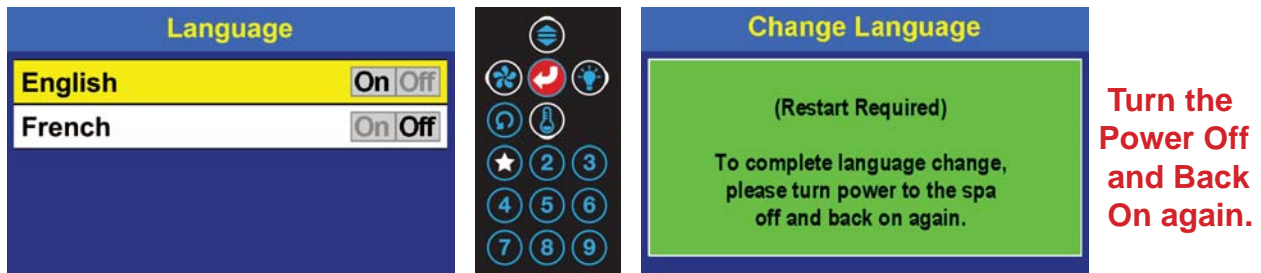
The **Event Log** will Display the 12 most recent Spa Events. Each Event will have the Month, Day, and Hour that the Event occurred. Touch **Back** to Exit back to the previous Menu.

Set the Language - The Default Language is English, but you may have other Languages available on your Spa. If your desired Language is not Listed on the Language Menu, it may be available from your Spa Manufacturer.



To Set your desired Language, from the **Settings** Menu with **Heating Mode** Highlighted, Move **Right** to **Language** and Touch **Select** to Open the **Language** Menu. All Installed Languages will be shown on the **Language** Menu.

Language (Continued)

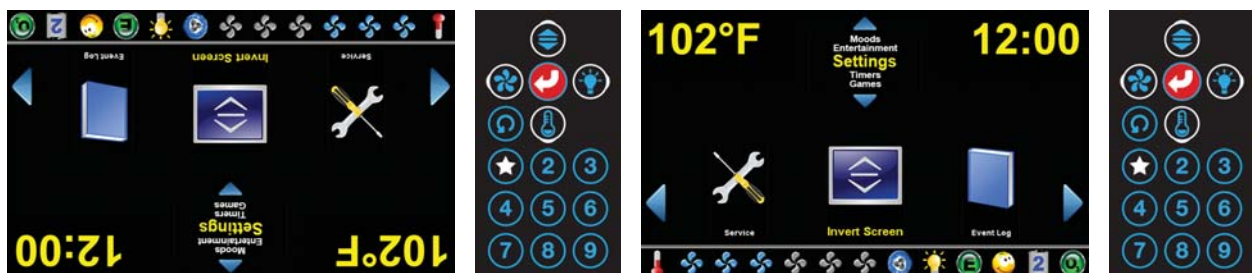


Scroll down through the **Language** Menu to see which Languages are available on your Spa. To change to a different **Language**, Scroll to the desired **Language**, then Touch **Select** (Select icon) to turn it On. There will be a Message that tells you a Restart is Required to change to a different **Language**. Turn the Power to the Spa Off and then back On again, and the Spa System will start up again with the selected **Language**.

Invert the Screen - When the Screen is Inverted, the Spa Navigation Buttons are also Inverted, so that the **Up** and **Down** Buttons are switched with each other and the **Left** and **Right** Buttons are switched with each other. The **Back** Button does not change position. The Screen and Navigation Buttons are Uninverted the same way as they are Inverted.

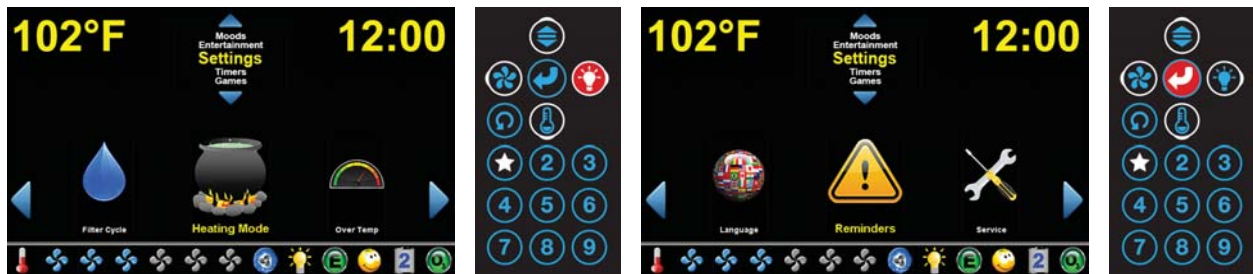


To Invert the Screen and Navigation Buttons in **Spa Navigation Mode**; from the **Settings** Menu with **Heating Mode** Highlighted, Move **Left** (Left arrow icon) to **Invert Screen** and Touch **Select** (Select icon) to **Invert** the Screen.

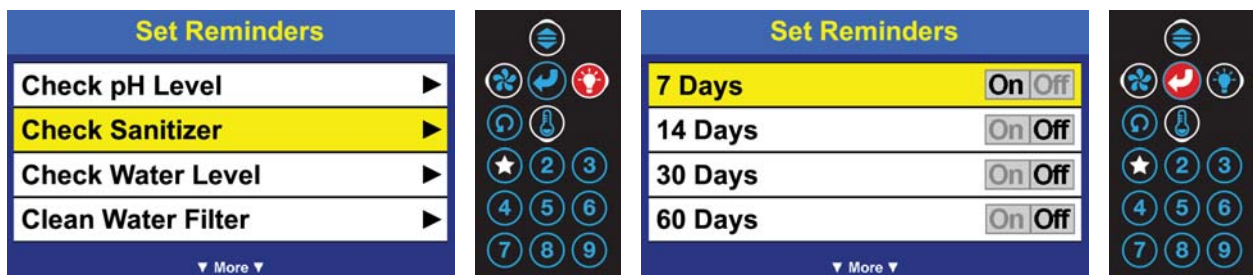





To Uninvert the Screen and Navigation Buttons in **Spa Navigation Mode**; Move **Left** (Left arrow icon) or **Right** (Right arrow icon) to **Invert Screen** and Touch **Select** (Select icon). The Screen can also be Inverted or Uninverted in **Spa Shortcut Mode** by Touching the **Invert** (Invert icon) Button.

Set Reminder Messages - The Reminder Messages Pop-Up periodically to Re-
mind you to perform the Normal Maintenance required for your Spa. They are all set to
Pop-Up at various intervals from 7 Days to 1 Year, but you can change any of them.



In the **Settings** Menu with **Heating Mode** Highlighted, Move **Right**  to **Reminders**
and Touch **Select**  to Open the **Set Reminders** Menu.



To Set a Reminder Message, Scroll to the desired Message you want to change or turn
off, then Move **Right**  to the **Set Reminders** Menu. To turn the Pop-Up Reminder
Message interval Off or On, Touch **Select** . To change to a different interval, scroll to
the desired interval and Touch **Select**  to turn it On. If there are no intervals Set to
On, the Message will never Pop-Up. When a Pop-Up Reminder Message appears on
your Screen, you can Touch any Button to return to the previous Screen.

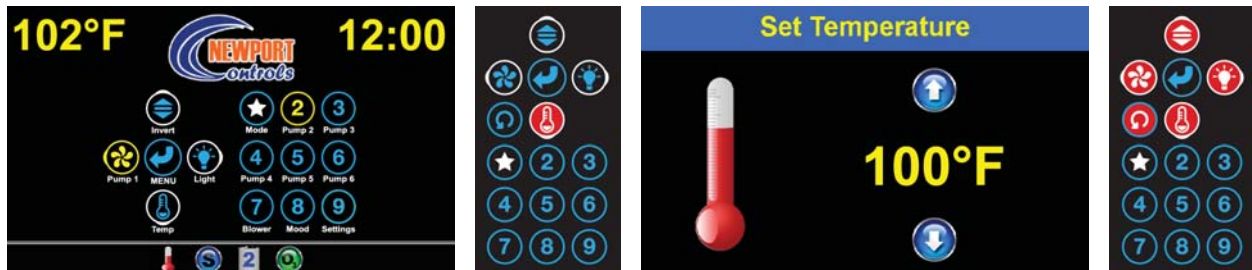
The Service Menu - WARNING! The **Service** Menu is only for experienced Spa
Electrical Technicians. The options that are available in the **Service** Menu are only
used for Spa Electrical Service, and are not used in Normal Spa Operation.









In the **Settings** Menu with **Heating Mode** Highlighted, Move **Left**  to **Service** and
Touch **Select**  to Open the **Service Menu** **WARNING** Message.

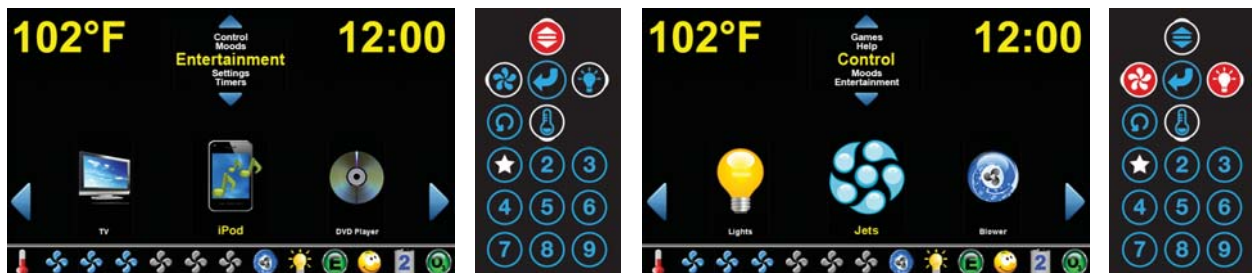
Set Water Temperature - The Water Set Temperature is the Water Temperature that the Spa Heater will maintain in your Spa. It can be Set in either **Spa Shortcut Mode**, directly with a Single Button Touch, or in the **Spa Navigation Mode** from the **Control > Temperature** Menu.

Spa Shortcut Mode - Set Temperature by using the **Temperature Control**  Button.

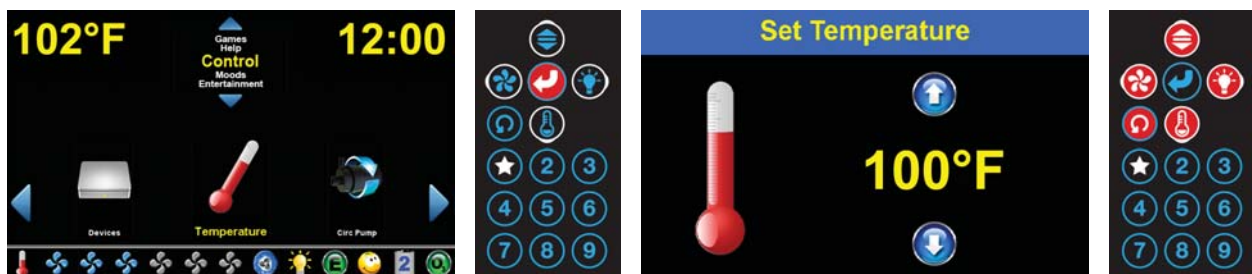


In the **Spa Shortcut Mode**, with the Key to the Button Functions on Screen, Touch the **Temperature Control**  Button to open the **Set Temperature** Menu. On the **Set Temperature** Menu, Touch the **Up**  and **Down**  Buttons to Raise or Lower the Water Set Temperature in 1°F or 0.5°C increments. Touch **Left**  to go to the Lowest Set Temp of 70°F (21.0°C), or Touch **Right**  to go to the Highest Set Temp of 104°F (40.0°C). Then Touch **Back**  to Exit. To Set a Temperature higher than 104°F (40.0°C), see “**Set Over Temperature**”.

Spa Navigation Mode - Set Temperature by **Navigating** to the **Control** Menu.

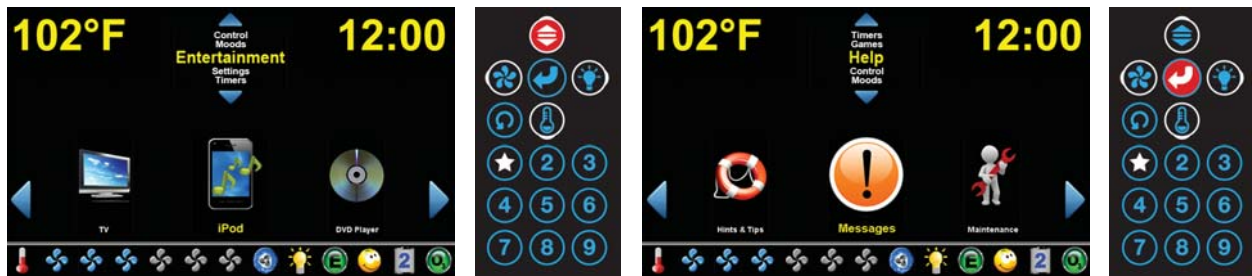


In **Spa Navigation Mode**, with the Default **Entertainment** Highlighted, Move **Up**  to **Control**, and then Move **Left**  or **Right**  to **Temperature**.

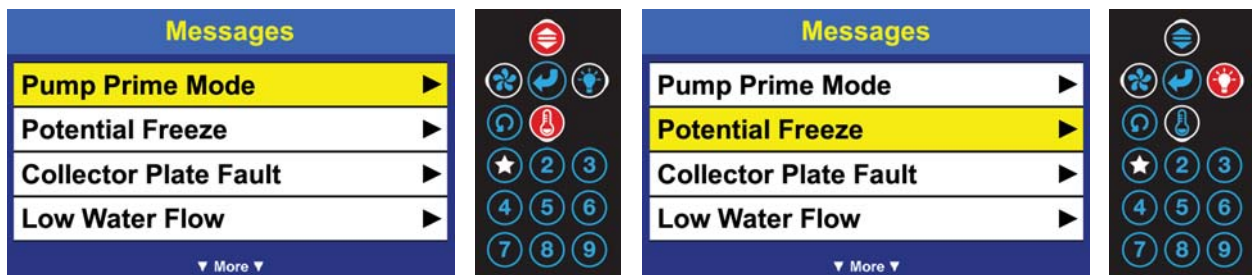


With **Temperature** Highlighted, Touch **Select**  to open the **Set Temperature** Menu. Touch the **Up** , **Down** , **Left** , and **Right**  Buttons to Raise or Lower the Water Set Temperature. Then Touch **Back**  to Exit.

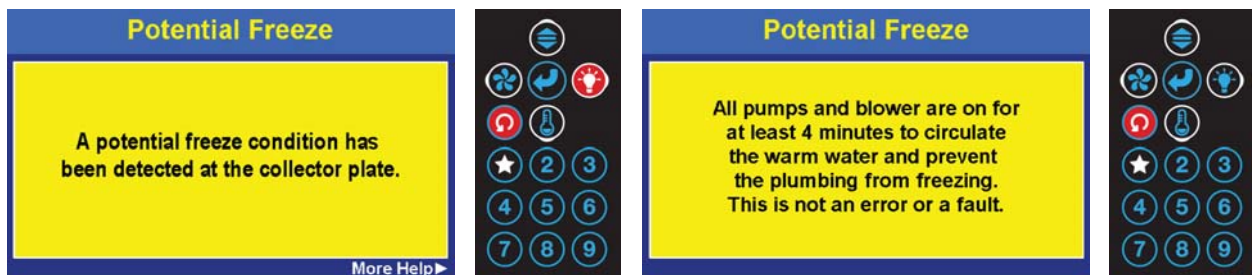
Help with Messages and Maintenance - Help is available for various Pop-Up Messages you may see on the Screen, and for day to day Spa Maintenance.



For **Help** with Pop-Up **Messages**, in **Spa Navigation Mode**, with the Default **Entertainment** Highlighted, Move **Up** (↑) to **Help**, and then Touch **Select** (⌂) to open the **Messages** Menu.



Move **Up** (↑) or **Down** (↓) to the desired **Messages** Menu Bar, then Move **Right** (→) to View that Pop-Up Message.

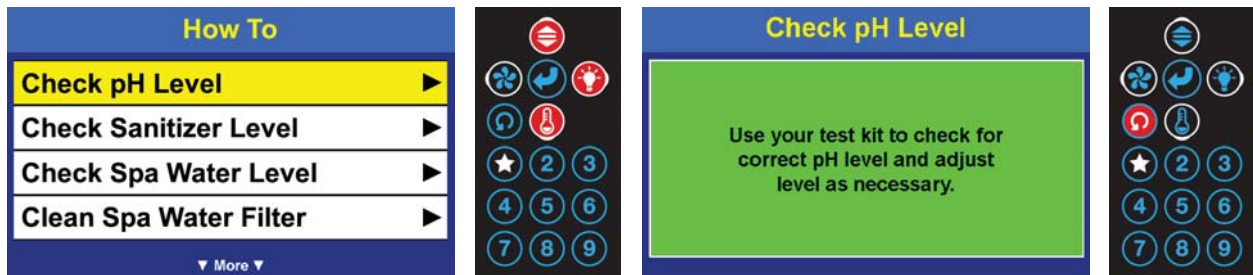


For **More Help** on that Message, Move **Right** (→) for additional information, or Touch **Back** (←) to Exit Back to the Previous Menus.



For **Help** with **Maintenance**, in the **Help** Menu with **Messages** Highlighted, Move **Right** (→) to **Maintenance** and Touch **Select** (⌂) to open the **How To** Menu.

Maintenance Help (Continued)



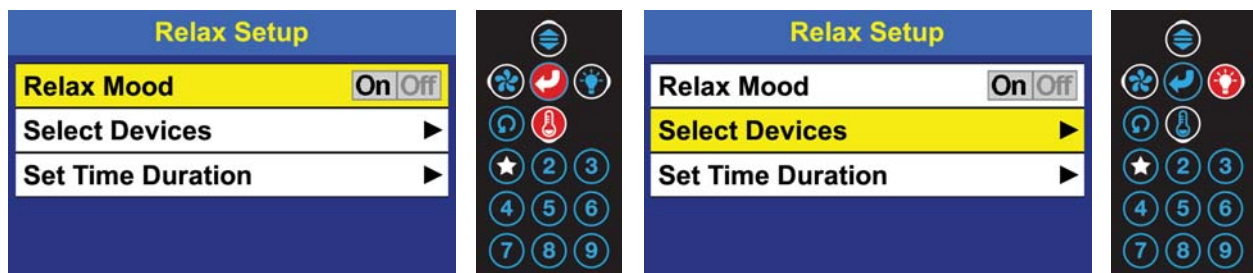
Move **Up**  or **Down**  to the desired **Maintenance How To** Menu Bar, then Move **Right**  to View that Maintenance Help information. Then, Touch **Back**  to Exit Back to the Previous Menus.



The Message Screen Background Color will be **GREEN** for an Information or Instruction Message, **YELLOW** for a Caution Message, or **RED** for a Warning Message.

Set Your Moods - Unique preset Moods can be Modified any way you want them. You can preset Pumps and Speeds, Lights and Levels, and which Device you want playing Music in the Various Moods. Most Spas will have a Single Button assigned to Instantly turn On the Preset Mood.

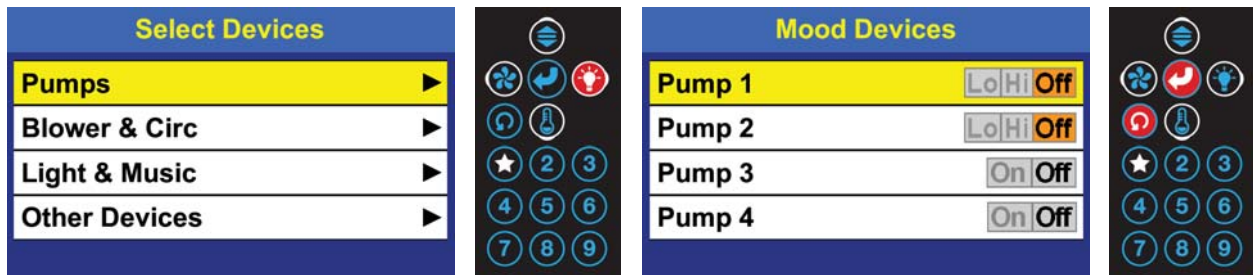




To Setup the **Relax Mood**, in **Spa Navigation Mode**, with the Default **Entertainment** Highlighted, Move **Up**  to **Moods**, and then Touch **Select**  to open the **Relax Setup** Menu.

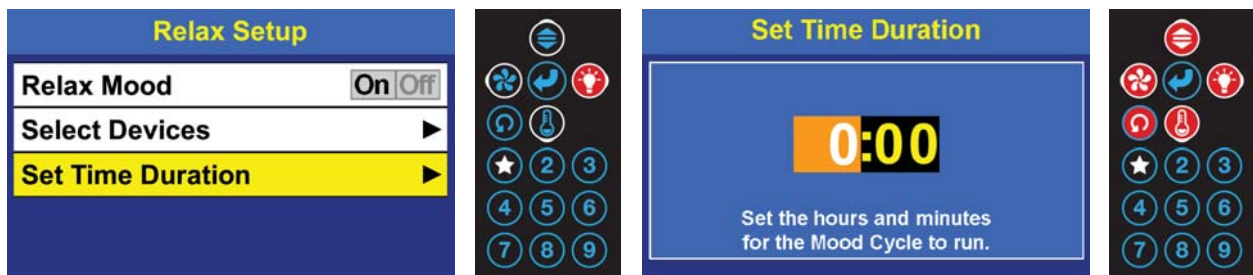








To assign **Relax** to the **Mood** Button, on the **Relax Mood** Menu Bar, Touch **Select** . To Setup the **Devices**, Speeds, and Levels you want to operate in the **Relax Mood**, from the **Select Devices** Menu Bar, Move **Right**  to the **Mood Devices** Menu.

Moods Setup (Continued)

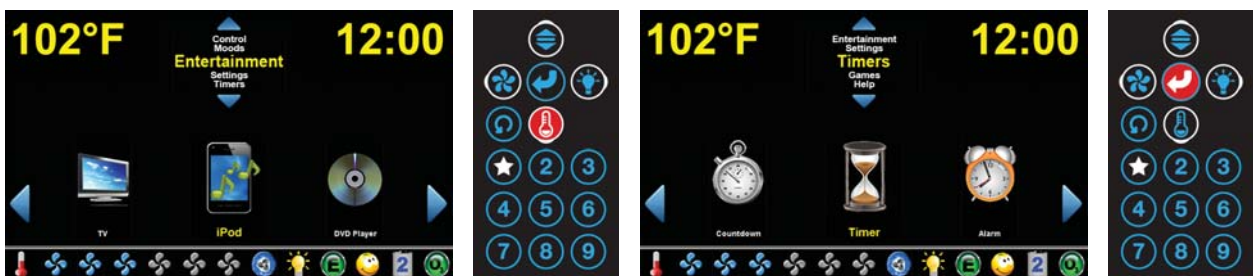


Scroll through the list of available **Mood Devices**, and turn them On or Off, set the Pump and Blower Speeds, set the Spa Light Level, and set the Music Player for the **Relax Mood** by Touching the **Select**  Button as required for each **Device**. Touch the **Back**  Button to go back to the previous Menu.



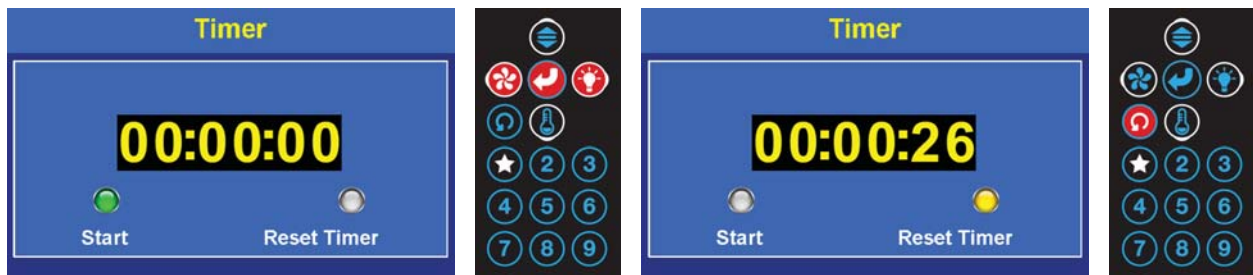
To Set the **Duration** of the Mood before it turns Off, on the **Set Time Duration** Menu Bar, Move **Right**  to the **Set Time Duration** Menu. To Set or Change the Time Duration, Move **Left**  or **Right**  to Hours or Minutes, and then Touch **Up**  or **Down**  to change the Time. Touch **Back**  to go back to previous Menus.

Set Your Wellness Timers - The **Timers** Feature has three different functions. There's a **Timer** that starts at 0:00:00 and counts up, three **Countdown Timers** that count down to 0:00, and an **Alarm** that Flashes the Spa Light at the Set time.

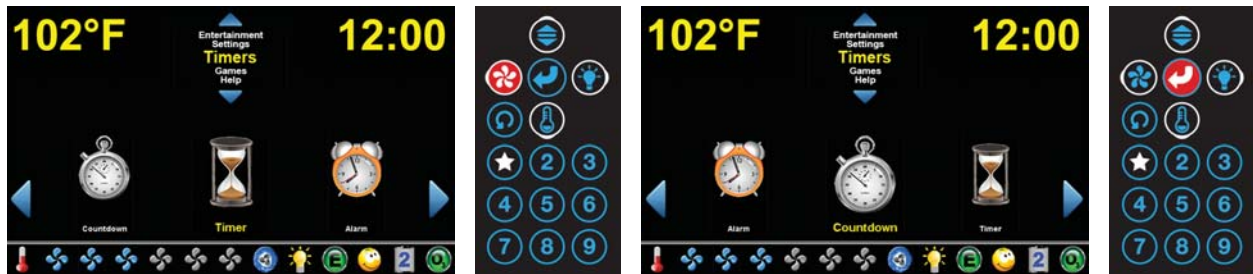


To Set your **Timer** in Wellness Timers, in **Spa Navigation Mode**, with the Default **Entertainment** Highlighted, Move **Down**  to **Timers**, and Touch the **Select**  Button to open the **Timer** Menu.

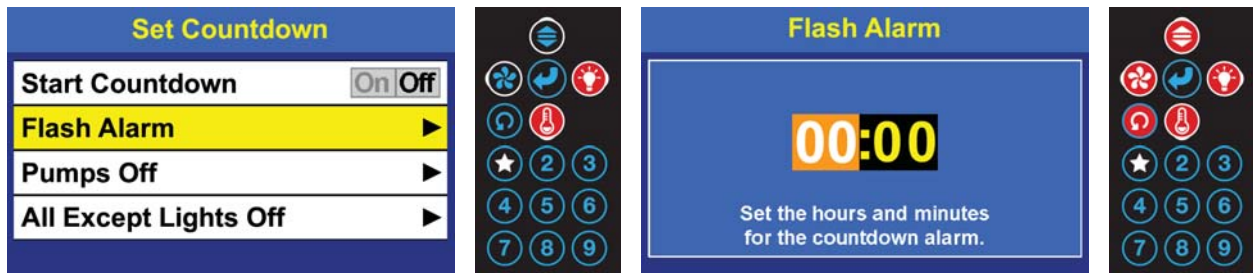
Timers Setup (Continued)






To Start or Reset the **Timer**, Move **Right**  or **Left**  to the **Start** and **Reset** Icons, and Touch **Select** . Touch **Back**  to Exit Back to the Previous Menu.



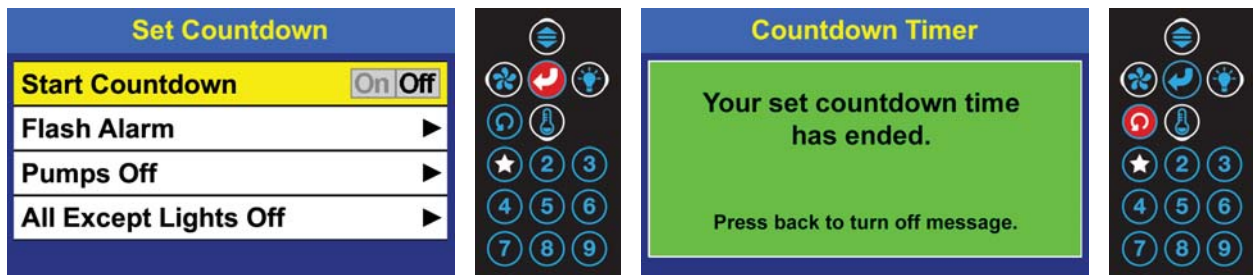
To Set your **Countdown Timer** in Wellness Timers, from the **Timers** Menu with **Timer** Highlighted, Move **Left**  to **Countdown** and Touch **Select**  to open the **Set Countdown** Menu.




At the end of the **Countdown**, you can Flash an Alarm (Flash the Spa Light), turn Off all the Pumps that are running, or turn Off everything that is On except the Spa Light. To Set the **Countdown** Time, from any of the three **Countdown** Timer Menu Bars, **Flash Alarm** for example, Scroll **Down**  to Flash Alarm, and then Move **Right**  to the **Flash Alarm** Set Menu.

To Set the **Flash Alarm** Countdown Time in the **Flash Alarm** Set Menu, Move **Left**  or **Right**  to Hours or Minutes, and then Touch **Up**  or **Down**  to change the Countdown Time. Touch **Back**  to Exit Back to the **Set Countdown** Menu and Start the **Countdown** Timer.

Timers Setup (Continued)

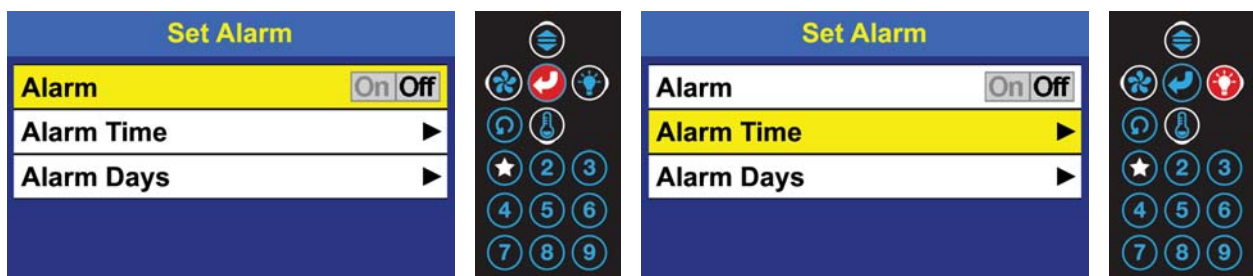


To Start the most recently Set **Countdown** Timer, on the **Set Countdown** Menu, from the **Start Countdown** Menu Bar, Touch the **Select**  Button to turn it On.

The **Countdown Timer** Message appears on the Screen at the end of the **Countdown Alarm** time. To Exit the Message, Touch the **Back**  Button to return to the previous Screen.



To Set your **Alarm** in Wellness Timers, from the **Timers** Menu with **Timer** Highlighted, Move **Right**  to **Alarm** and Touch **Select**  to open the **Set Alarm** Menu.



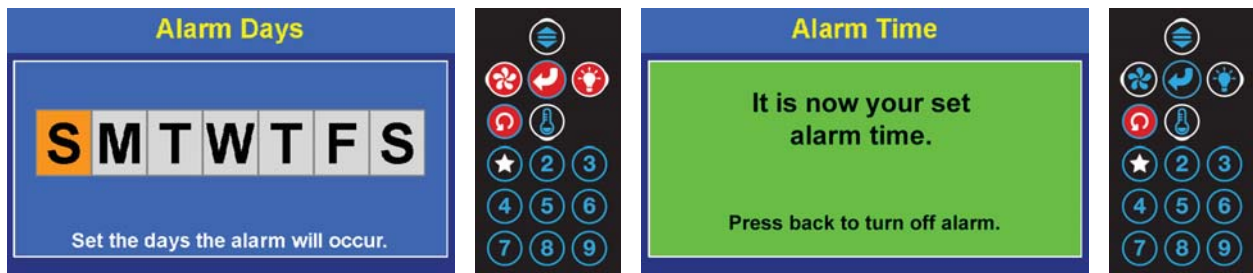
To Set the **Alarm** to On or Off, from the **Alarm** Menu Bar, Touch the **Select**  Button. To Set the **Alarm Time**, from the **Alarm Time** Menu Bar, Move **Right**  to the **Alarm Time** Set Menu.

At the Set **Alarm Time** on the Set **Alarm Days**, the Spa Light will Flash and there will be a Pop-Up Message on the Display Screen.

Timers Setup (Continued)



To Change the **Alarm Time**, Move **Left** (🌀) or **Right** (🌀) to Hours or Minutes, and then Touch **Up** (⬆️) or **Down** (⬇️) to change the Time. Touch **Back** (🌀) to Exit Back and Set the **Alarm Days**. To Set the **Alarm Days**, from the **Alarm Days** Menu Bar, Move **Right** (🌀) to the **Alarm Days** Set Menu.

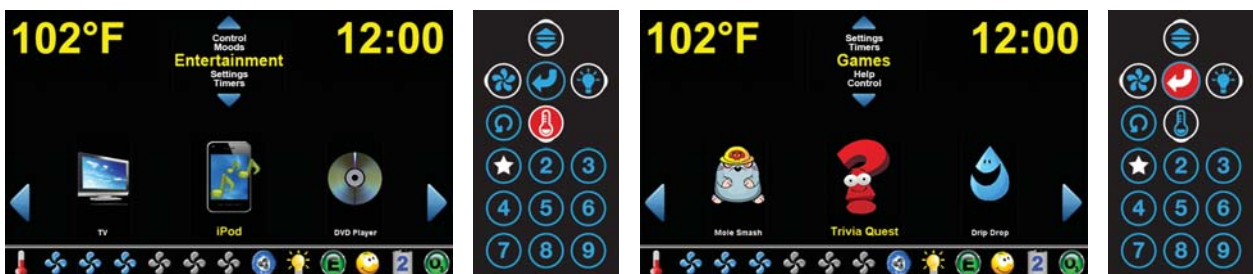


By Default, all days of the week are turned On. To turn an **Alarm Day** Off or On, Move **Left** (🌀) or **Right** (🌀) to that day and Touch **Select** (🌀). To Exit back to the previous Menus, Touch **Back** (🌀).

The **Alarm Time** Message appears on the Screen at the **Alarm Set Time** on the **Alarm Days**. To Exit the Message, Touch the **Back** (🌀) Button to return to the previous Screen. The Spa Light will Flash until the **Back** (🌀) Button is Touched.

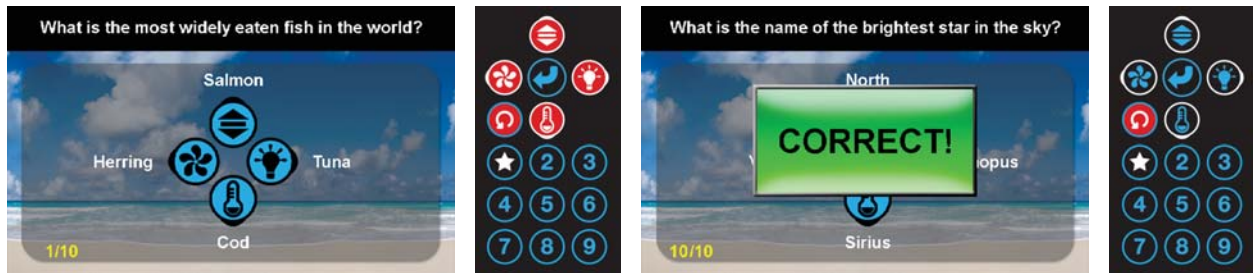
Your Entertainment and Games

Play Your Games - The **Games** Feature will allow you to Play several different Games on your Control Panel using the Navigation Buttons.



In **Spa Navigation Mode**, with the Default **Entertainment** Highlighted, Move **Down** (⬇️) to **Games**, and Touch the **Select** (🌀) Button to open the **Trivia Quiz** Game.

Games (Continued)



To Play the **Trivia Quiz** Game, Touch **Left** (Left Arrow), **Right** (Right Arrow), **Up** (Up Arrow), or **Down** (Down Arrow) to Answer the Trivia Quiz questions. You get Points for selecting the correct answers to the questions. Touch **Back** (Back Arrow) to Exit Back to the **Games** Menu.

Entertain With Your iPod or iPhone - The **Entertainment** Feature will allow you to watch **Movies**, listen to **Music**, watch **Podcasts**, and view **Photos** or Slideshows from your connected iPod, iPhone, or other USB connected MP3 Player or Flash Drive. You will have complete On Screen Control of all of your iPod Entertainment Features, directly from your **Merlin** Control Panel.

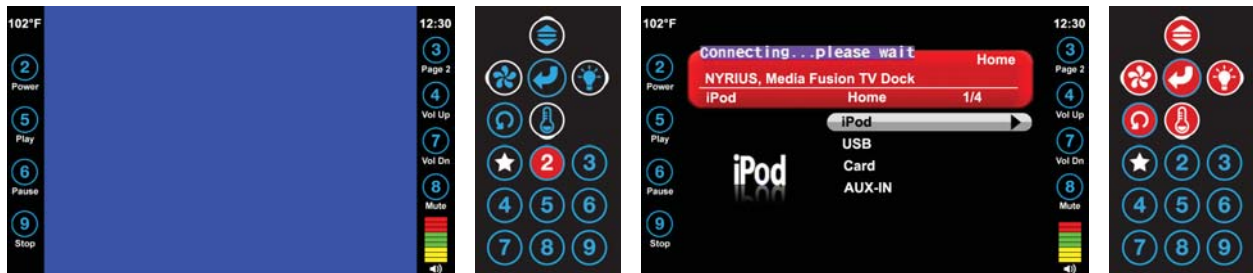
Any **Apple iPhone**, **iPod**, or **iPod Touch** will work with the **eControl**, including iPhone 4, iPhone 3GS, iPhone 3G, iPhone, iPod Classic, iPod 5th Gen, iPod Touch 1st & 2nd Gen, and iPod Nano 3rd, 4th, & 5th Gen. The compatible Entertainment formats which are recognized by your **eControl** are MP3, WMA, MPEG, and MPEG4.

Open the door on your **iPod eControl Module** and connect the **Apple iPod Cable** to your iPod or other Apple compatible Entertainment Device (iPod, iPhone, iTouch, etc.). Or, plug a compatible USB Connected Entertainment Device (USB MP3 Player, USB Flash Drive containing Music or Movie files) into the **USB Connector**. Make sure your Entertainment Device is securely inside the **eControl Module**, and close the door securely to protect your Entertainment Device from water.




To View your **iPod Entertainment** on the **Merlin Screen**, and Control your iPod with the **Merlin Buttons**, in **Spa Navigation Mode**, with the Default **Entertainment** Highlighted and the **iPod** Icon Highlighted, Touch the **Select** (Select Button) Button to open the **iPod Entertainment** and Control Screen. When the **Entertainment Screen** opens, there will be a **Blue Screen** Displayed if Power to the **iPod** has not been turned On or if there is not a Movie playing.







Entertainment (Continued)



The **2**  Button is used to Open the **iPod Control Menu** and turn On the **iPod**.

When the **iPod Entertainment Screen** opens, there will be a **Menu Bar** on each side of the **Merlin Screen** that indicates the **Entertainment Shortcut Mode** functions of the Numbered Control Panel Buttons. The other buttons can be used to Navigate the On Screen Menus, **Left** , **Right** , **Up** , **Down** , and **Select** . The **iPod Entertainment Screen** can be used to View or Listen to all of your iPod Entertainment.



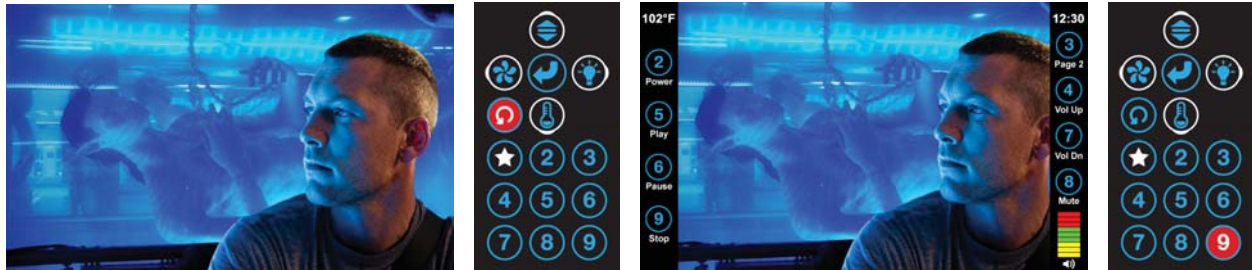
To Navigate the On Screen iPod Menu, with the **Side Menus** on the Screen, use the **Left** , **Right** , **Up** , **Down** , and **Select**  Buttons. To Exit the Side Menus and Entertainment Control, Touch **Back** , or wait 30 seconds for auto exit. When the **Side Menus** are not on the screen, the Buttons are in **Spa Shortcut Mode**, and all of the Buttons can be used to operate the Spa Functions, like Jets, Light, etc.



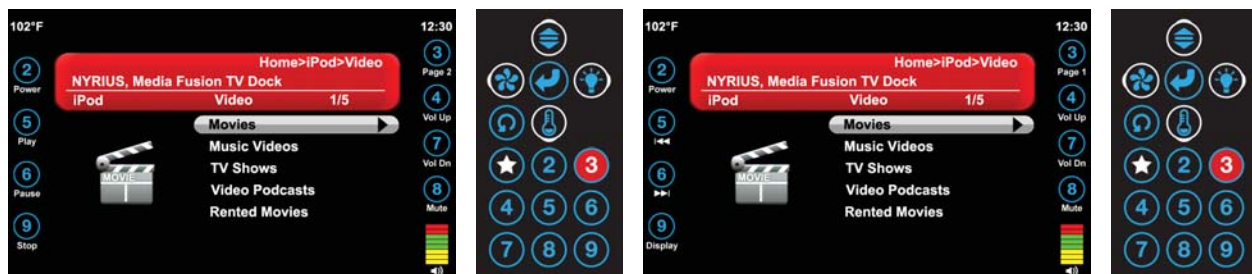
To open the **Side Menus** and return the Buttons to **Entertainment Shortcut Mode** Control, Touch **Back** , and then Touch **Back**  again to close the **Side Menus**.

Note: For **Detailed Instructions** on Playing and Controlling your Entertainment, see **Using Your Nyrius Entertainment Control Menu** on **Page 26**.

Entertainment (Continued)



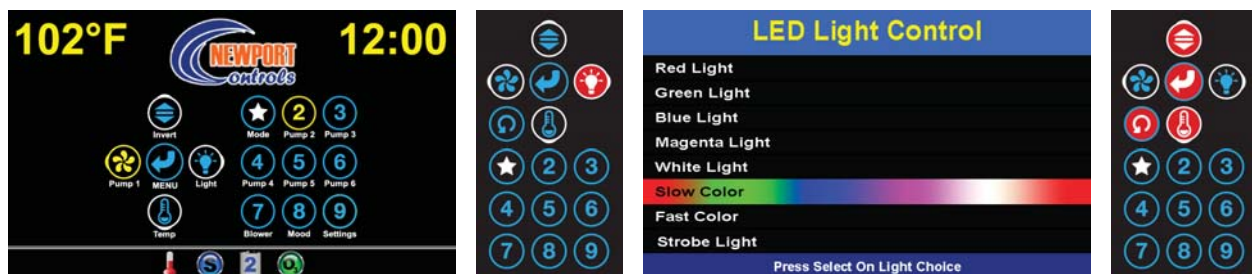
To Control the iPod while the Movie is playing, First touch **Back** (3) to open the **Side Menus**, then use the Shortcut Buttons to Control the iPod. For example, touch **9** (9), which is Stop, to Stop the Movie and return to the On Screen iPod Menu.



The **3** (3) Button is used to go back and forth between Page 1 and Page 2 of the **Side Menus**.

Control Your LED Spa Light (Optional Equipment) - If you have an Optional LED Spa Light that is Controllable, then you can select from five different LED Light Colors or three different LED Light Shows. Whatever Light Color or Light Show you have selected last will be turned On the next time you turn On the LED Spa Light.

Spa Shortcut Mode - Turn On the LED Light by using the **Light** (Light) Button.





In the **Spa Shortcut Mode**, with the Key to the Button Functions on Screen, Touch the **Light** (Light) Button to open the **LED Light Control** Menu. On the **LED Light Control** Menu, Touch the **Up** (Up) and **Down** (Down) Buttons to Scroll to one of the Five LED Light Colors or one of the three LED Light Shows, then Touch **Select** (Select) to Change to that **LED Light Control** Option. Then Touch **Back** (Back) to Exit the **LED Light Control** Menu, or the Menu will Auto Exit in a few seconds.

Using Your Nyrius Entertainment Control Menu - You Select and Play your Entertainment by Using the **Nyrius Control Menu**. To Navigate the **Control Menu**, with the **Side Bar Menus** on the Screen, use the **Left** , **Right** , **Up** , **Down** , and **Select**  Buttons. To Exit the **Side Bar Menus** and **Control Mode**, Touch **Back** , or wait 30 seconds for auto exit. To open the **Side Bar Menus**, Touch **Back**  again.




The **2**  **Power** Button is used to Open the **Control Menu** and turn On the **iPod**. If your **iPod** is connected, you will see **Connecting...please wait**, and then **Connect OK**.






1) To Play Video from your iPod, from the **Home** Menu, Select **iPod** Mode then Touch **Select**  or **Right**  to enter the **iPod** Menu. Scroll **Down**  to **Video** and Move **Right**  to the **Video** Menu.



To View and Play all the **Movie** Titles on your **iPod**, Move **Right**  2 times to the **Movies>All** Menu.



Scroll **Down**  to the **Movie** you want to View, and Touch **Select**  to start the **Movie**. The **Side Bar Menus** will close in a few seconds, or Touch **Back**  to close the **Side Bar Menus**.

iPod Control Menu (Continued)



2) To Play Music from your iPod, from the **Home** Menu, select **iPod** Mode then Touch **Select** (👉) or **Right** (🌐) to enter the **iPod** Menu. Scroll to **Music**, then Move **Right** (🌐) to the **Music** Menu.



To Select your **Music** by **Artist**, Scroll **Down** (🔍) to **Artists**, and Move **Right** (🌐) to the Music **Artists** Menu. Then Scroll **Down** (🔍) and select an **Artist**. Now Move **Right** (🌐) to View a List of **Music** by that **Artist**. Scroll **Down** (🔍) to the **Song** you want to Play and Touch **Select** (👉).

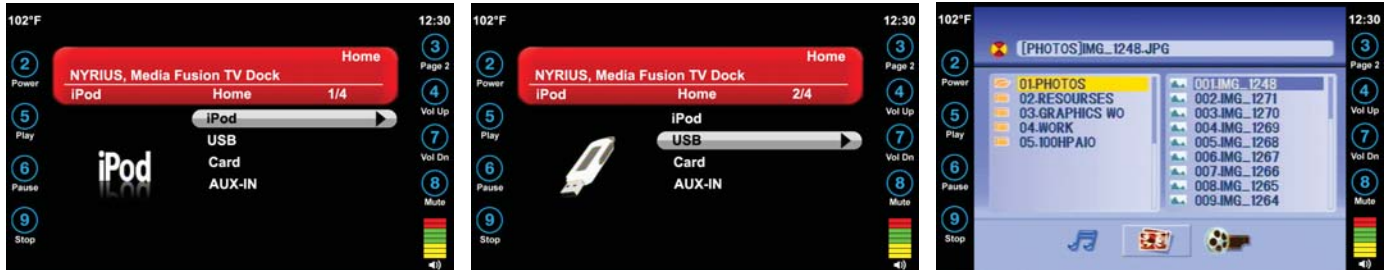


3) To View Photos from your iPod, from the **Home** Menu, Select **iPod** Mode then Touch **Select** (👉) or **Right** (🌐) to enter the **iPod** Menu. Scroll **Down** (🔍) to **Photos/ Camera Videos** and Touch **3** (📄) **Page 2** to go to **Page 2** of the **Side Bar** Menu.



Touch **9** (📄) **Display** to turn On **Photo Display** Mode. You Control your **Photos** from your **iPod**. In the **Home** menu of your **iPod**, select **Photos > Photo Library** to select a **Photo**, then Touch **Select** (👉) to View the **Photo**. To start a **Slideshow**, Touch **Select** (👉) again. Touch **Left** (🌀) to Exit.

iPod Control Menu (Continued)



4) To Play Music, Video, or Photos from a USB Device, from the Home Menu, Scroll **Down** to **USB** Mode then Touch **Select** or **Right** to open the **USB Control** Menu. Scroll to one of the **Entertainment Folders** on the **USB Device**, then Move **Right** to the **Photos, Music, or Video** List.





For Photos, to Select your **Photo** from the **Photo List**, Scroll **Down** to the **Photo** and Touch **Select** to View that **Photo** Full Screen. To manipulate the **Photo** that's being viewed, Touch **Up** to **Flip** the **Photo** Vertically, Touch **Down** to **Flip** the **Photo** Horizontally, Touch **Left** to **Rotate** the **Photo** 90° Counter-Clockwise, or Touch **Right** to **Rotate** the **Photo** 90° Clockwise. To Play all the **Photos** in the **Photo List**, Touch **5** **Play** for a Slideshow. **For Music or Video,** to Select your **Music or Video** from the **List**, Scroll **Down** to the **Music or Video** and Touch **5** **Play** or **Select** to Play the Item. To **Pause** Playback of the **Photos, Music, or Video**, Touch **6** **Pause**. To **Resume** Playback, Touch **5** **Play** again. To **Stop** Playback, and return to the **USB Control** Menu, Touch **9** **Stop**. You must Touch **2** **Power** two times to Exit back to the **Home** Menu. This will turn **eControl** Power Off and back On.





5) To Play Music from an MP3 Player, Plug the **eControl Headphone Cable** into your **MP3 Player**. From the **Home** Menu, Scroll **Down** to **AUX IN** Mode then Touch **Select** or **Right** to Connect to the **MP3 Player**. Turn the Volume all the way Up on your **MP3 Player**, and then Touch **4** **Vol Up** to Raise the Volume or **7** **Vol Dn** to Lower the Volume. Touch **Left** to Exit back to the **Home** Menu.


SAVE THESE INSTRUCTIONS

 **WARNING** – Risk of Accidental Drowning. Extreme caution must be exercised to prevent unauthorized access by children. To avoid accidents, ensure that children cannot use a spa or hot tub unless they are closely supervised at all times.

 **DANGER** – To reduce the risk of drowning from hair and body entrapment, install a suction fitting(s) with a marked flow rate that equals or exceeds the flow rate marked on the equipment assembly.

 **DANGER** – To reduce the risk of injury, do not remove the suction fittings. Never operate a spa or hot tub if the suction fittings are broken or missing. Never replace a suction fitting with one rated less than the flow rate marked on the equipment assembly.

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

 **WARNING** – Risk of Electric Shock. Install at least 5 feet (1.5 m) from the inside wall of spa or hot tub using nonmetallic plumbing.

 **WARNING** – **To reduce the risk of injury:**

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

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).

Before entering a spa or hot tub, the user should measure the water temperature since the tolerance of water temperature-regulating devices varies.

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

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.

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

SAVE THESE INSTRUCTIONS