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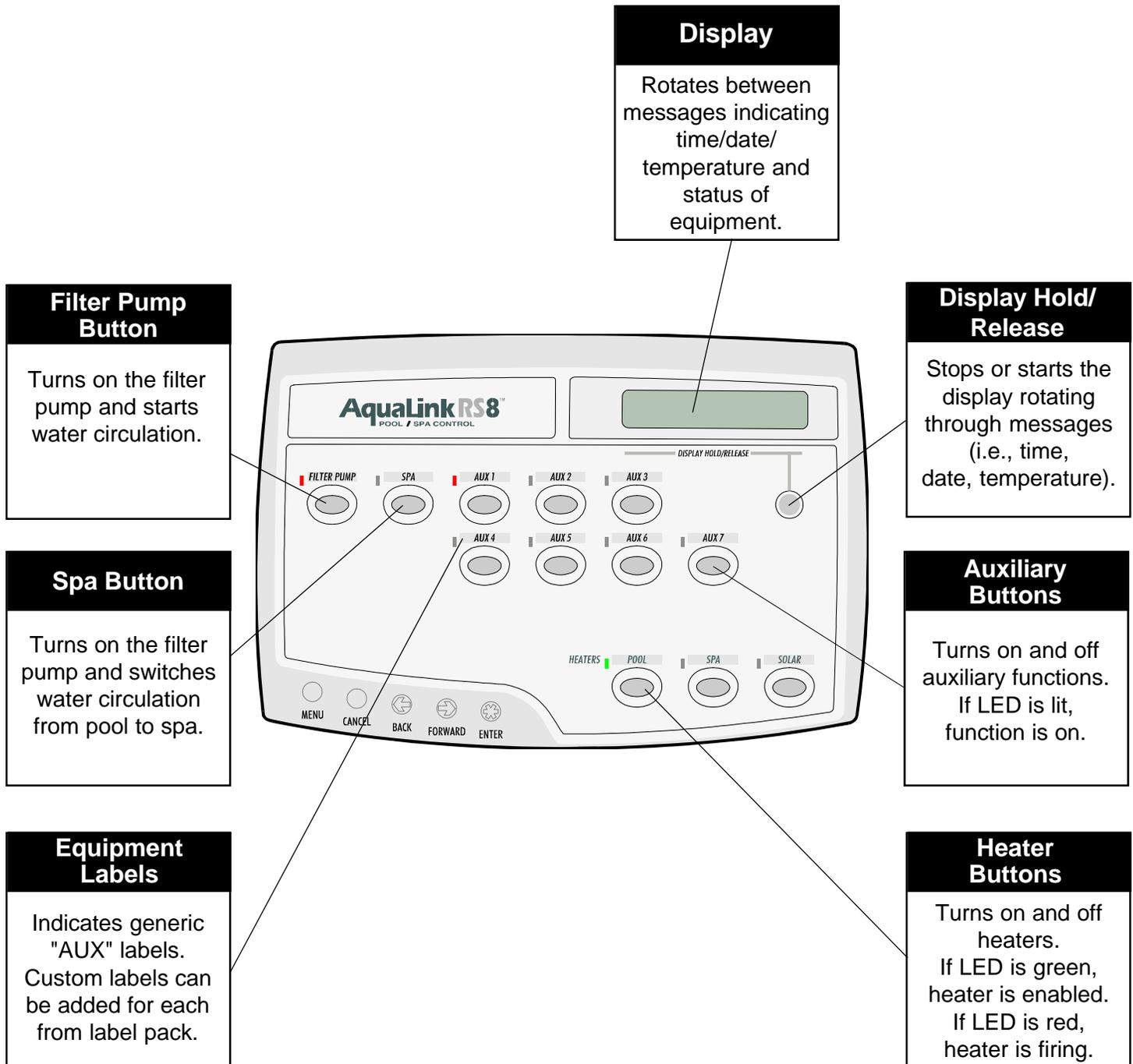
NOTE: Some of the features described in this Manual DO NOT apply to all AquaLink® RS models.

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Important Safety Precautions

1. **Read and follow all instructions.**
Lire la notice technique.
2. **DANGER-** To reduce the risk of injury, do not permit children to use this product unless they are closely supervised at all times.
3. **WARNING- Water temperature in excess of 100°F/38°C may be injurious to your health.**
AVERISSEMENT: Des Températures de l'eau supérieures à 38°C/100°F peuvent présenter un danger pour la santé. Prolonged immersion in hot water may induce hyperthermia. Hyperthermia occurs when the internal temperature of the body reaches a level several degrees above the normal body temperature of 98.6°F. The symptoms include, dizziness, fainting, drowsiness, lethargy, and an increase in the internal temperature of the body. The effects of hyperthermia include, unawareness of impending danger, failure to perceive heat, failure to recognize the need to exit the spa, physical inability to exit the spa, fetal damage in pregnant women, and unconsciousness resulting in a danger of drowning.
WARNING- The use of alcohol, drugs or medication can greatly increase the risk of fatal hyperthermia in hot tubs and spas. *La consommation d'alcool ou de drogue augmente considérablement les risques d'hyperthermie mortelle dans une cuve de relaxation.*
4. Keep Power Center door closed.
5. PLEASE SAVE THESE INSTRUCTIONS.

An Overview of the Control Panel



Basic Operation

The AquaLink® RS can turn your pool/spa equipment on and off in two ways:

First, you can press the button of the equipment you want to turn on to activate the equipment. When the LED above a button is illuminated, it means that equipment is on (with the exception of the heater buttons; see page 5 for more details). When the LED above a button flashes, the equipment is being protected by a built-in safety delay (see page 14 for a description of safety delays).

Second, you can also program the equipment to turn on and off at specific times. See page 7 for a detailed explanation of how to program equipment for automatic operation.

Using the Main Buttons

About the Filter Pump Button:

The FILTER PUMP button turns the main filtration pump on and off for circulation to the pool. This pump also activates if the spa is turned on, if the pool cleaner is turned on, or if a spa spill-over effect is activated.

The main filtration pump circulates the pool or spa water through the filter and heater. It must be on if you want to display the pool temperature, or if you want to heat the pool.

About the Spa Button:

The SPA button switches water circulation from pool to spa (pool and spa combo models only). Turning on the spa also activates the filter pump (after a delay* for valve rotation) and deactivates the pool cleaner if it is on. The SPA button must be on to display the spa temperature and/or to heat the spa. Activation takes place after a thirty second delay (while valves are turning).

* See page 15 for a glossary of safety delays.

How to use the Filter Pump Button:

Press the FILTER PUMP button once to turn on the filter pump. Press it again to turn it off. When the filter pump is on, the LED next to it will illuminate. If the filter pump is waiting for a delay* before it comes on (or after it is turned off), the LED next to it will flash.

* See page 15 for a glossary of safety delays.

How to use the Spa Button:

Press the SPA button once to switch circulation from pool to spa and to turn on the filter pump. Press it again to switch circulation back to pool, and to turn off the filter pump (unless the filter pump was already on). When the spa is on, the LED next to it will illuminate and the pool cleaner and spa spill-over will all be inactive.

About the AUX Buttons:

AUX buttons control auxiliary equipment such as lights, cleaners, waterfalls, fountains, sprinklers, and other backyard features. Each AUX button can be custom labeled using the label pack provided, and matching labels can be set up to appear in the display, using the MENU button. If the buttons are not labeled, you should label them now. Consult with your installer to see what each auxiliary controls, and follow the instructions in the MENU Button section of this manual to label the functions.

How to use the AUX Buttons:

Press the button once to turn on the function. Press it again to turn it off. When the function is on, the LED above it will illuminate.

NOTE: Some software labels will effect the operation of the AUX Button. See page 15 for details on "Special Auxiliary Labels".

About the Heater Buttons:

The HEATER buttons enable the heater for the pool or spa. The solar heater button controls solar heating. When the green LED above a HEATER button is illuminated, that heater is enabled (i.e., ready to heat, but not heating). When the red LED above a HEATER button is illuminated, that heater is on (i.e., firing).

Solar Heat requires an optional solar sensor to operate. For solar heating to take place, the solar heater button must be pressed, the filter pump must be on, the solar temperature must be at least 5° above the water temperature, and the water temperature must be below the AquaLink RS thermostat setting.

If a Solar Sensor is not installed, the solar heater button may be used to control an auxiliary water feature. Check with your installer.

HEATER BUTTONS ON POOL ONLY/SPA ONLY UNITS:

TEMP 1 is the priority (high) temperature. It must be set higher than **TEMP 2**, and it overrides **TEMP 2** whenever it is enabled. Set temperature for **TEMP 1** before setting temperature for **TEMP 2**.

TEMP 2 is the maintenance (low) temperature. It must be set lower than **TEMP 1**. If **TEMP 2** is on and **TEMP 1** is activated, **TEMP 2** will turn off and its LED will flash. When **TEMP 1** is turned off again, **TEMP 2** will re-activate.

How to use the Heater Buttons:

Press the HEATER button corresponding to the body of water you wish to heat. Press the SOLAR HEATER button if you want to use solar heat. The heater will only come on if the water is circulating (i.e., filter pump is on) to the corresponding body of water (i.e., SPA for spa heater) and the actual water temperature is below the temperature you set with TEMP SET in the Menu. If these conditions are not met, the heater will be enabled (ready to go), but will not fire. When the heater is enabled, the LED next to the button will be green. When it is firing, the LED will turn red.

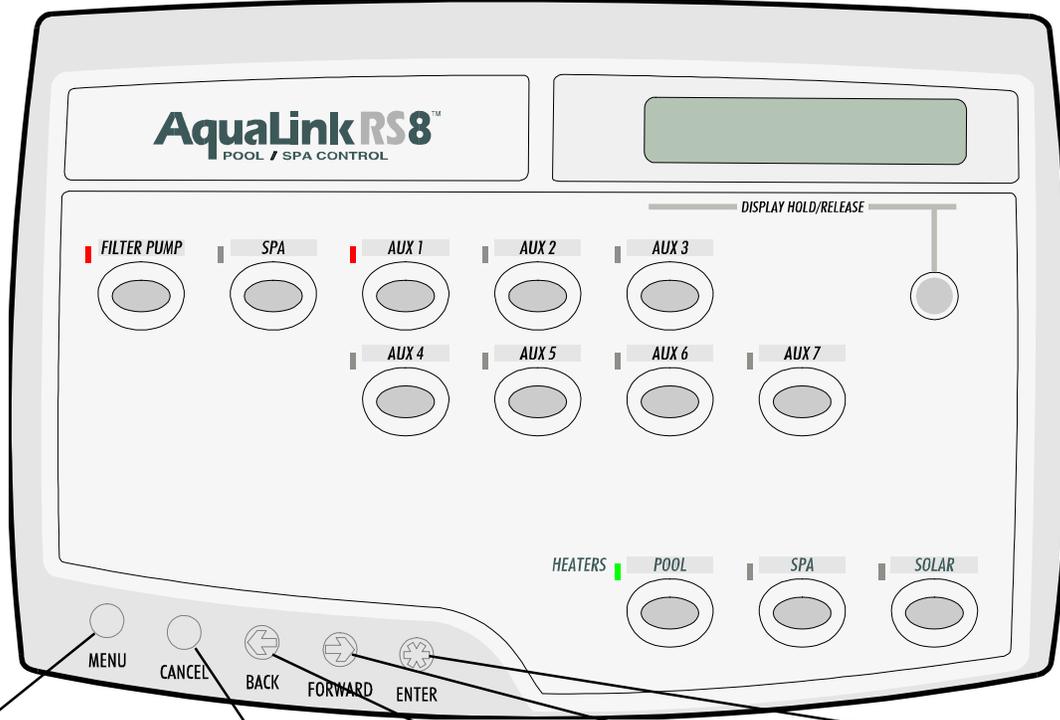
About the Display Hold/Release Button:

The DISPLAY HOLD/RELEASE button locks the AquaLink RS display that cycles through displays of time, date, temperature and equipment status (i.e., PUMP OFF).

How to use Display Hold/Release Button:

Press the DISPLAY HOLD/RELEASE button once to lock the AquaLink RS display on the desired message or readout. Press it again to release it, allowing the display to cycle through messages.

Using the Menu



Menu Button

Accesses menu of options.

Cancel Button

Cancels commands while in MENUS; provides for canceling of various options.

Back Button

Moves backward through list of options.

Forward Button

Moves forward through list of options.

Enter Button

Chooses selection in Menu options or during programming.

THE MENU BUTTON:

The MENU button on the AquaLink RS allows you to control and customize the features of the unit. Below is a brief list of things you can do with the menu button:

- Program equipment (set times for equipment to automatically go on and off)
- Review programming (display any automatic time sets for a particular piece of equipment)
- Set pool and spa temperatures (desired temperature for heating the pool and/or spa)
- Set time
- Lock out programming changes or turn off the Spa Side Switch
- Switch between Programming groups
- Turn the light on the AquaLink RS display on and off
- Label your AquaLink RS Auxiliary buttons (customize your AquaLink RS with AUX equipment labels)
- Set the Spa Side Switch functions (set which equipment the buttons on the optional spa side switch will operate)
- Set the SpaLink RS functions (set which equipment the buttons on the optional SpaLink RS will operate)
- Configure Freeze Protection (protects equipment from damage caused by freezing water — freeze sensor must be installed)
- Turn the Air Temperature display on and off (air temperature sensor must be installed)
- Change between Celsius and Fahrenheit temperature displays
- Adjust the temperature to match other thermometers
- Assign JVA's (Valve actuators; rotates valve when AUX button is pressed)
- Assign auxiliaries to be dimmable lights
- Clear the memory (all programs, temperature settings, date, time, and AUX labels will be lost)

To access any of the above features, press the MENU button and follow the prompts. When you see <- -> on the right side of the AquaLink RS display, it indicates you have a menu of choices to scroll through. Use the FORWARD and BACK arrow buttons to move through the list of options, and press the ENTER button when the option you want is displayed.

Using the Menu

About the Program Menu:

The PROGRAM Menu lets you program on and off times for any equipment controlled by the AquaLink RS. You can program equipment to turn on or off at any time you want, including all days, weekends, weekdays, or any specific day of the week. You choose the specific on and off hour and minute. You can program each piece of equipment for multiple on/off times each day.

How to set automatic on and off times:

1. Press the MENU button. Use the FORWARD and BACK buttons to advance to the PROGRAM Menu and press ENTER. The AquaLink RS display will read SELECT EQUIPMENT TO PROGRAM.
2. Press the button of the equipment you want to program (e.g., FILTER PUMP).
3. You are now in a menu of choices. You may choose ON ALL DAYS, ON WEEKDAYS, ON WEEKENDS, or you may choose a specific day of the week. Use the FORWARD and BACK arrow keys to move to the choice you want, then press ENTER.
4. The display now reads ON HR 1 PM <- ->*. Use the FORWARD and BACK arrow keys to move to the hour that you want the equipment to turn on, and press ENTER when that hour is displayed.
5. Repeat this process to set the ON MINUTE, OFF HOUR, and OFF MINUTE. When you are finished, the AquaLink RS Display will review a summary of your program(s).

Note on multiple programs: You can have many on and off times for a piece of equipment. If you have more than one program (i.e., more than one on and off time) for a piece of equipment, when you enter a second program, the AquaLink RS display will read 1 PROGRAM TIME ALREADY EXISTS. If more than one program time already exists, the AquaLink RS will display how many program times exist. To review these programs, use the REVIEW Menu (see below). If you set two overlapping program times for a piece of equipment (e.g., the off time for the first program is later than the on time for the second program), the equipment will turn on at the first on time, and turn off at the first off time.

About the Review Menu:

The REVIEW Menu lets you review programming, temperature settings for pool and spa water, Spa Side Switch settings, freeze protection settings for equipment, auxiliary equipment labels, which auxiliaries control dimmable lights, and JVA assignments.

How to review items:

1. Press the MENU button. Use the FORWARD and BACK buttons to move to the REVIEW Menu and press ENTER. The AquaLink RS display will read PROGRAMS <- ->* .
2. Advance through the list of items to review. Choose PROGRAMS if you want to review programming, TEMP SET if you want to review the temperature settings for the pool and spa, SPA SWITCH if you want to review what the buttons on the Spa Side Switch or Spa Link control and whether it is enabled or not, FRZ PROTECT if you want to review which equipment is freeze protected, AUX LABELS if you want to see the label associated with each piece of auxiliary equipment, DIMMERS if you want to review which buttons control dimmable lights, or JVA ASSIGNS if you want to review which buttons control JVAs. Press ENTER when the option you want is displayed.
3. After you press ENTER, the AquaLink RS display will show a review of the item you selected.

Using the Menu

About the Set Temperature Menu:

The SET TEMP Menu allows you to set the pool or spa thermostat. This is the temperature that the water will be heated to when the pool or spa heater button is pressed. The default pool temperature is 80°F(26°C). The default spa temperature is 102°F(38°C).

On pool only and spa only units, you may set two separate temperatures for the pool or spa. Press the **TEMP 1** button to heat to one temperature and the **TEMP 2** button to heat to another. You can use the SET TEMP Menu to set these temperatures. The default for **TEMP 1** is 80°F(26°C). The default for **TEMP 2** is 60°F(15°C). **NOTE: TEMP 1** should be set first and must be higher than **TEMP 2**.

Note on Solar Temperature: You cannot set the solar temperature. Solar heating will activate when the solar button is pressed, the solar temperature is at least 5° higher than the water temperature, and the water temperature is lower than the thermostat setting.

About the Set Time Menu:

The SET TIME Menu lets you set the AquaLink RS's internal clock. It is important to set the correct time and date so that programming will work properly.

About the Lockouts Menu:

The LOCKOUTS Menu allows you to "lock out" all changes to: AquaLink RS programming, use of the Spa Side Switch, SpaLink RS or an individual device.

When the SYSTEM LOCKOUT feature is activated, it is impossible to add or cancel programs, change auxiliary labels, change spa-side switch functions, or change any other adjustable feature on the AquaLink RS. Use this feature to prevent accidental changes to preferred settings.

When the SPA SWITCH or SPALINK LOCKOUT feature is activated, all control from the Spa Side Switch or SpaLink is turned off.

When a device lockout is selected, it will not activate either manually or by programming. This feature can be used to prevent a heater from firing or to stop a fill line from adding water during the rainy months.

How to set the pool and/or spa temperature:

1. Press the MENU button. Use the FORWARD and BACK buttons to advance to the SET TEMP Menu and press ENTER. The AquaLink RS display will read SET POOL TEMP <- ->* .
2. Use the FORWARD and BACK arrow buttons to choose between SET POOL TEMP and SET SPA TEMP. If you have a pool only or spa only, the choice will be between **TEMP 1** and **TEMP 2**. When the temperature you want to set is displayed, press ENTER.
3. The AquaLink RS display will show the current thermostat setting. Use the FORWARD and BACK arrows to move the temperature up and down. When the temperature you want is displayed, press ENTER.

How to set the time:

1. Press the MENU button. Use the FORWARD and BACK buttons to move to the SET TIME Menu and press ENTER. The AquaLink RS display will read YEAR 1998 <—>* .
2. Use the FORWARD and BACK arrow buttons to change the year. When the correct year is displayed, press ENTER.
3. Repeat this process for month, day, hour, and minute. When you are finished, the display will show the correct time and date.

How to enable or disable Lockout programming or equipment:

1. Press the MENU button. Use the FORWARD and BACK buttons to advance to the LOCKOUTS menu and press ENTER. The AquaLink RS display will read SYSTEM <- ->* .
2. Use the arrow buttons to toggle between SYSTEM, SPA SWITCH, SPA LINK, and DEVICE. Press ENTER when the desired option is displayed.
3. Use the arrow buttons to disable or enable the lockout of your choice. Press ENTER when you are done.

Using the Menu

About the Program Group Menu:

Program groups are useful for setting specific programs for summer and winter use, or for vacation and at-home. The AquaLink RS will store separate programs for each group.

Use the PROGRAM GROUP Menu to switch between PROGRAM GROUP A and PROGRAM GROUP B. All programming done while in PROGRAM GROUP A is exclusive to Group A, and all programming done while in Group B is exclusive to Group B. This means that when switching between Groups A and B, you change which set of programs is operating.

Confirm you are in the right Program Group before programming equipment. To check programs for a Program Group, switch to that Group and review programming by using the *Review Menu* (described on page 16).

How to use Program Groups:

1. Press the MENU button. Use the FORWARD and BACK buttons to move to the PGM GROUP Menu and press ENTER. The AquaLink RS display will read PROGRAM GROUP A IS ACTIVE or PROGRAM GROUP B IS ACTIVE.
2. The AquaLink RS display will read GROUP A <—>* or GROUP B <—>*. Use the FORWARD and BACK arrow buttons to toggle between GROUP A and GROUP B. Press ENTER when the group you want is displayed.

About the Display Light Menu:

The DISPLAY LIGHT Menu lets you turn the back light on and off on the AquaLink RS Controller Display.

How to turn the display light on and off :

1. Press the MENU button. Use the FORWARD and BACK buttons to move to the DISPLAY LIGHT Menu and press ENTER. The AquaLink RS display will read LIGHT ON/OFF <—>*.
2. Use the FORWARD and BACK arrow buttons to toggle between on and off. When the option you want is displayed, press ENTER.

About the Label AUX Menu:

The LABEL AUX Menu allows you to customize the descriptions of each piece of equipment that the AquaLink RS controls. For example, you can set the display to read YARD LIGHT ON instead of AUX 4 ON.

NOTE: Some labels add special features (i.e., 30 minute timed off times) to the Auxiliary. See page 15 for more details.

How to label auxiliary buttons:

1. Press the MENU button, then press the FORWARD button and scroll through until you reach SYSTEM SETUP. Hit ENTER and LABEL AUX will be displayed. Press ENTER again and the display will read SELECT AUX TO LABEL or PRESS ENTER TO END.
2. Press the button of the auxiliary equipment that you wish to label, for example, AUX 1. The AquaLink RS display will read AUX 1 <—>*.
3. Use the FORWARD and BACK arrow buttons to move through the list of labels. When you get to the desired label, press ENTER.

Note on labeling lights: Since many different types of lights can be controlled by the AquaLink RS, there is a special submenu for lights. To access it, follow the steps above, and move through the list of labels until you come to the label LIGHTS <—>*. Press ENTER. You are now in the lights submenu. Use the FORWARD and BACK arrow buttons to move through this submenu, and press ENTER when the light label that you want is displayed. There is also a waterfall submenu that functions in the same way.

About the AquaRite Chlorine Generator Menu*:

Support for AquaRite Chlorine Generator to communicate with the AquaLink RS Control Panel. The AquaLink RS Indoor Control Panel will display % of chlorine and the amount of time the Super Chlorinate will run.

How to Operate the AquaRite Chlorine Generator Menu*:

To set the percentage of chlorine, press the Menu button, use the back or forward arrow button to display SET AQUARITE, press enter. Use the back or forward arrow button to change the percentage of chlorine the Aqua Rite will dispense.

To set SUPERCHLORINATE, press the Menu button, use the back or forward arrow button to display SUPERCHLORINATE press enter. To set the amount of hours Super Chlorinate will run, go to SYSTEM SETUP press enter, use the forward or back arrow to move to AQUARITE HRS, press enter. Use the forward or back arrow button to set the number of hours. Press ENTER to return to the information screen.

Using the Menu

About Spa Side Switch Menu:

The SPA SIDE SWITCH Menu allows you to define which equipment is controlled by the buttons (4 buttons per Spa Side Switch) on the optional Spa Side Switch(es).

You may want to write down your spa side switch button assignments so that you can label the buttons on the switch with the label pack provided.

How to set the Spa Side Switch buttons:

1. Press the MENU button, then press the FORWARD button and scroll through until you reach SYSTEM SETUP. Hit ENTER then FORWARD to SPA SWITCH. Hit ENTER again. The display will read 1 SWITCH <—>*. Use the FORWARD and BACK arrows to move between 1 SWITCH, 2 SWITCHES and 3 SWITCHES. Depending on how many Spa Side Switches you have, choose an option and press ENTER.
2. The AquaLink RS display will read SELECT DEVICE FOR BUTTON 1. Press the button on the Controller for the piece of equipment that you want to control from the first button of the Spa Side Switch (e.g., press the Spa button).
3. Repeat this process for each remaining button on the Spa Side Switch. When you are finished, the AquaLink RS display will show the settings for each button.

NOTE: If there is more than one Spa Side Switch on the system, the buttons on the second switch will be buttons 5-8, and the buttons on the third Spa Side Switch will be buttons 9-12.

About SpaLink RS Menu:

The SPA LINK Menu allows you to define which equipment is controlled by the buttons (8 buttons per SpaLink RS) on the optional SpaLink(s).

You may want to write down your SpaLink RS button assignments so that you can label the buttons on the switch with the label pack provided.

How to set the SpaLink RS buttons:

1. Press the MENU button, then press the FORWARD button and scroll through until you reach SYSTEM SETUP. Hit ENTER then FORWARD to SPA LINK. Hit ENTER again. The display will read 1 SPA LINK <—>*. Use the FORWARD and BACK arrows to move between 1 SPA LINKS, 2 SPA LINKS and 3 SPA LINKS. Depending on how many SpaLinks you have, choose an option and press ENTER.
2. The AquaLink RS display will read SELECT DEVICE FOR BUTTON 1. Press the button on the Controller for the piece of equipment that you want to control from the first button of the SpaLink RS (e.g., press the Spa button).
3. Repeat this process for each remaining button on the SpaLink RS. When you are finished, the AquaLink RS display will show the settings for each button.

NOTE: If there is more than one SpaLink RS on the system, the buttons on the second switch will be buttons 5-8, and the buttons on the third SpaLink will be buttons 9-12.

Using the Menu

About the Freeze Protection Menu:

The FREEZE PROTECTION Menu lets you assign freeze protection to your pool and spa equipment. When a piece of equipment is assigned to freeze protection, it will turn on when the AquaLink RS detects freezing conditions. The main filter pump is freeze-protected as a default.

You can change the temperature at which freeze protection will activate (between 34°F and 42°F). For example, if you don't want freeze-protected equipment to turn on until the air temperature has dropped to 37°F, you can set the system so this is the case.

Default freeze protection activation temperature is 38° F. Normal items to assign to freeze protection are spa jet pump or waterfall pump.

How to set freeze protection:

1. Press the MENU button, then press the FORWARD button and scroll through until you reach SYSTEM SETUP. Hit ENTER and then FORWARD to FRZ PROTECT. Hit ENTER again. The display will read ASSIGN ITEMS <-->* .
2. Use the FORWARD and BACK arrow buttons to move between ASSIGN ITEMS and TEMP SETTING. If you want to assign items to freeze protection, press ENTER when ASSIGN ITEMS is displayed. If you want to set the temperature at which freeze protected items are activated, press ENTER when TEMP SET is displayed.
3. *If you are assigning items*, the AquaLink RS display will read ENTER DEVICE TO ADD TO FREEZE PROTECTION. Press ENTER when done. Press the button of the equipment you want to add to freeze protection.
4. *If you are setting the temperature at which freeze protected equipment is activated*, use the FORWARD and BACK arrows to change the temperature. Press ENTER when the desired temperature is displayed.

SPECIAL NOTE ON FREEZE PROTECTION: Freeze protection is intended to protect equipment and plumbing for short periods of freezing only. It does this by activating the filtration pump and circulating water so that it won't freeze inside of equipment or plumbing. Freeze Protection does **not** guarantee that equipment will not be damaged by extended periods of freezing temperatures. In these conditions, the pool and spa should be shut down completely (i.e., drained of water and closed for the winter) until warmer weather exists.

CAUTION: Activating the spa during freezing conditions will override freeze protection. This means that if you are using your spa when freezing conditions exist, freeze protection will **not** circulate water to non-spa related equipment that you may have freeze protected (e.g., pool cleaner, booster pump) and the potential exists for equipment damage.

About the Air Temperature Menu:

The AIR TEMPERATURE Menu lets you turn the display of the air temperature on and off on the AquaLink RS display. You must have an air temperature sensor installed for this feature to operate.

NOTE: If an air temperature sensor is not installed, the Display will read AIR TEMP SENSOR NOT INSTALLED if you try to activate this item.

How to activate air temperature display:

1. Press the MENU button, then press the FORWARD button and scroll through until you reach SYSTEM SETUP. Hit ENTER and then Forward to AIR TEMP. Hit ENTER again. The AquaLink RS display will read AIR TEMP ON <-->* or AIR TEMP OFF <-->* .
2. Use the FORWARD and BACK arrow buttons to toggle between on and off. When the option you want is displayed, press ENTER.

About the Degrees F/C Menu:

The DEGREES F/C Menu allows you to change the AquaLink RS temperature display from Fahrenheit to Celsius or vice versa.

How to change the Temp Readout:

1. Press the MENU button, then press the FORWARD button and scroll through until you reach SYSTEM SETUP. Hit ENTER then FORWARD to DEGREES F/C Menu and press ENTER. The AquaLink RS display will read FAHRENHEIT <- ->* .
2. Use the FORWARD and BACK buttons to toggle between Fahrenheit and Celsius. When the option you want is displayed, press ENTER.

Using the Menu

About the Temp Calibration Menu:

The TEMPERATURE CALIBRATION Menu allows you to “adjust” the temperature that is displayed on the AquaLink RS Control system by a few degrees so that it matches other water temperature thermometers you may have.

NOTE: The Electronic Sensor is very accurate. Ensure that your other thermometer is reading reliably before recalibrating. If the temperature is off by more than four degrees, contact Jandy as to the possible cause.

How to adjust the temperature display:

Note: Be sure water temp sensor is properly connected while using this procedure.

1. Press the MENU button, then press the FORWARD button and scroll through until you reach SYSTEM SETUP. Hit ENTER then FORWARD to TEMP CAL and press ENTER again. The AquaLink RS display will give you a message to press ENTER to calibrate temperature.
2. Use the FORWARD and BACK buttons to bump the temperature display up or down. **NOTE:** This will not change the temperature of the water, only the display of the temperature on the AquaLink RS Display. Press ENTER when the desired temperature is displayed.

About Assign JVA Menu:

The ASSIGN JVA Menu lets you assign Jandy Valve Actuators (JVAs) to any auxiliary button. This means that whenever you press that auxiliary button, a valve turns. On pool/spa combination models, there are two JVAs that can be assigned to auxiliary buttons: the Cleaner JVA and the Solar JVA. On pool/spa only models, there are four (4) JVAs available. The AquaLink RS installer must set up these JVAs for this feature to operate correctly. Assigning JVAs lets the owner control certain features like diverting water to a waterfall or bank of spa jets.

How to set the Assign JVA buttons:

1. Press the MENU button, then press the FORWARD button and scroll through until you reach SYSTEM SETUP. Hit ENTER then FORWARD to ASSIGN JVA. Hit ENTER again. The AquaLink RS display will read CLEANER JVA <—>*. If both JVAs are being used, you will not be able to use this menu.
2. Use the FORWARD and BACK arrows to toggle between CLEANER JVA and SOLAR JVA. When the JVA you want to assign to an auxiliary is displayed, press ENTER.
3. The AquaLink RS display will read SELECT AUX TO ASSIGN JVA TO. Press the button of the Auxiliary that you want to activate the JVA.

Not Available for Export Models

About the Set Dimmer Menu:

The SET DIMMER Menu is used to assign auxiliary buttons to control a dimmable light. Please note that your installer must install a Light Dimming Relay in order for your light(s) to be dimmable.

NOTE: An optional Light Dimming Relay must be installed and only 110 VAC lighting can be dimmed.

How to operate dimmable lights:

1. Press the MENU button, then press the FORWARD button and scroll through until you reach SYSTEM SETUP. Press ENTER and then FORWARD to SET DIMMERS <—>*. The AquaLink RS display will read SELECT AN AUX TO OPERATE AS A DIMMER.
2. Press the AUX button you want to operate as a dimmable light and press ENTER.
3. Dimmers can be set at 25%, 50%, 75% or 100%, depending upon the amount of light desired, by pressing the AUX assigned as a dimmer and using arrow (<—>*) buttons to dim or brighten. Once desired brightness is achieved, press ENTER. Press AUX to turn off. **NOTE:** When light is turned back on, it will automatically return to the brightness last set.
4. From the Spa Side Switch, light dimming operates as follows: When a button assigned to a light dimming auxiliary is pressed, the light will turn on at full brightness, and each press of the button will decrease brightness by 25%, until light is off.

Using the Menu

About the Jandy Illuminator Color Wheel Menu*:

From the AquaLink RS Control Panel, there is an option to automatically rotate the Jandy Illuminator Color Wheel after a preset time (30 seconds, one minute, five minutes, or continuous). This requires the installation of a Jandy Landscape Illuminator, Jandy Programmable Logic Controller and a Jandy Color Wheel Module.

How to Operate the Jandy Illuminator Color Wheel Menu*:

Under SYSTEM SETUP, use the forward or back arrow to move to COLOR WHEELS, press enter. Warning messages will scroll across the screen first, 1) WARNING: FOR JANDY LANDSCAPE ILLUMINATOR ONLY, 2) WARNING: OPTIONAL COLOR WHEEL MODULE(S) MUST BE INSTALLED. Select an AUX on the AquaLink RS control panel to operate as a color wheel or press ENTER to end.

About the Solar Priority Menu*:

When solar and heater are enabled the solar will heat the water until either the thermostat setting has been reached or solar heat is no longer available. If there is not enough solar heat available to reach the thermostat setting, solar heat will shut off and the other heat source (usually gas heater) will take over to bring the water up to the thermostat setting.

How to Operate the Solar Priority Menu*:

Under SYSTEM SETUP, use the forward or back arrow to move to SOLR PRIORITY, press enter. Use the forward or back arrow button to turn solar priority on or off. Press ENTER to return to the information screen.

About the In-Floor/Return Valve Switching Menu*:

When the AquaLink RS is setup to control this feature, the "Solar JVA" circuit will be activated every 20 minutes to switch a three port valve from returning water through normal return lines to sending the water to an in-floor cleaning system. If a solar system is installed this circuit reverts to AUX 3. A JVA/AUX PC Board is required.

How to Operate the In-Floor/Return Valve Switching Menu*:

Under SYSTEM SETUP, use the forward or back arrow to move to IN FLOOR CLN. Use the forward or back arrow button to turn IN FLOOR CLN on or off. Press ENTER to return to the information screen.

About the Diagnostics Menu:

The DIAGNOSTICS Menu is used primarily by licensed AquaLink Service Personnel to check the functionality of the system and to troubleshoot. If there is a problem with your AquaLink RS, you may want to review the DIAGNOSTIC Display to check for open circuits.

How to check the AquaLink RS System:

Press the MENU button, then the FORWARD button and scroll through until you reach SYSTEM SETUP. Hit ENTER, then Forward to the DIAGNOSTICS Menu and press ENTER. The AquaLink RS Display will display a list of various equipment and its status. If any sensors read OPEN or SHORTED, consult your AquaLink Service Representative.

About the Clear Memory Menu:

The CLEAR MEMORY Menu allows you to clear all stored values from the AquaLink RS Controller memory. All settings will be set to their default settings. Stored values include auxiliary labels, all programs, freeze protection settings, remote settings, and thermostat setting. The time and date will **not** be cleared.

Only use the CLEAR MEMORY Menu in an emergency. Most specific programs and settings can be canceled individually, using the CANCEL button.

How to clear system memory:

1. Press the MENU button, then the FORWARD button and scroll through until you reach SYSTEM SETUP. Hit ENTER and then FORWARD to CLR MEMORY. Hit ENTER again. The AquaLink RS display will read PRESS ENTER TO CLEAR MEMORY, or CANCEL TO ABORT.
2. If you want to clear memory, press ENTER. Otherwise, press CANCEL.

About the Battery Back-Up:

In the event of a power failure, DATE and TIME will be backed-up by the 9-volt battery located in the Power Center enclosure. All other programs and Menu setups do not require battery to store information. To determine if battery is low, access DIAGNOSTICS under the SYSTEM SETUP selection.

Battery is located behind the small door on the right side of the Power Center panel and should be checked, if necessary replaced, once a year.

Using the Cancel Button

THE CANCEL BUTTON:

The CANCEL button lets you cancel specific programs and settings for the AquaLink RS. When using the Menu button, the CANCEL button also allows you to cancel steps in the Menu. Below is a brief list of things that you can do with the CANCEL button:

- Cancel all equipment programs for a piece of equipment (cancel all).
 - Cancel individual program for equipment (cancel some).
 - Cancel Freeze Protection from all devices except for filter pump.
 - Cancel specific auxiliary equipment labels.
 - Cancel light dimming control on an Auxiliary.
-

How to cancel a program:

1. Press the CANCEL button. Use the FORWARD and BACK buttons to advance to PROGRAMS <—>* and press ENTER. The AquaLink RS display will read SELECT DEVICE TO BE CANCELED.
 2. Press the equipment button for which you want a program to be canceled, and press ENTER.
 3. *If there is only one program*, press ENTER. The program will be canceled.
 4. If there are more than one programs, the AquaLink RS display will tell you how many programs there are (for example, if there are three programs, the AquaLink RS display will read 3 PROGRAMS EXIST).
 5. The AquaLink RS display will read CANCEL ALL <—>* . Use the FORWARD and BACK arrow buttons to toggle between CANCEL ALL, and CANCEL SOME. Press ENTER when the selection you want is displayed.
 6. If you CANCEL ALL, all programming for that piece of equipment will be canceled.
 7. If you CANCEL SOME, The AquaLink RS display will read PRESS <----> FOR MORE PROGRAMS ... PRESS ENTER * TO CLEAR PROGRAMS. Use the FORWARD and BACK arrow buttons to toggle between the various programs for that Auxiliary. When the program you want to cancel is displayed, press ENTER. That program will be canceled.
 8. Repeat this process for each program to be canceled. Press CANCEL when you are finished.
-

How to cancel an auxiliary label:

1. Press the CANCEL button. Use the FORWARD and BACK buttons to advance to LABELS <—>* and press ENTER. The AquaLink RS display will read SELECT LABEL TO BE CANCELED.
 2. Press the button of the Auxiliary for which you want to cancel the label. The label will be removed (e.g., CABANA LIGHT will become AUX 4).
-

Using the optional Spa Side Switch

THE OPTIONAL SPA SIDE SWITCH:

The optional Spa Side Switch is a four button remote unit that duplicates the functions of four buttons of your choice from the indoor AquaLink RS Controller. To set which functions the Spa Side Switch will control, please see page 9. To use the Switch, simply press the buttons. If the Switch is not operating, it may be locked out from the indoor control panel. See page 9 for details.

About the LED:

When the LED in the center of the Spa Side Switch is on, it indicates that water is circulating to the spa (for pool and spa models). When the LED is flashing quickly, it indicates that the spa is heating. When it flashes slowly, it indicates that the heater is in cool down mode.

Using light dimming from the Spa Side Switch (*Not Available for Export Models*):

To dim a light from the Spa Side Switch, you must first assign a dimmable light to one of the Switch buttons.

From the Spa Side Switch, light dimming operates as follows:

When a button assigned to a light dimming auxiliary is pressed, the light will turn on at full brightness, and each press of the button will decrease brightness 25%, until light is off.

Using the Heater Bump feature:

The HEATER BUMP feature allows you to increase the temperature setting of the spa temporarily from the Spa Side Switch. If the spa has reached your spa temperature setting and you still want to raise the temperature, use HEATER BUMP to raise the temperature one degree at a time.

To use the HEATER BUMP feature, you must first assign the spa heater to one of the Spa Side Switch buttons.

Press the heater button on the Spa Side Switch twice in rapid succession to raise the spa temperature setting one degree. Each time you press the heater button twice in this manner, the temperature setting will be raised an additional degree, up to a maximum spa temperature of 104°F. When the heater is turned off, the thermostat will reset to the original setting.

TWO SPEED OPERATION (*Not Available for Export Models*):

NOTE: Optional TWO SPEED RELAY required.

Two Speed Manual Operation:

• For Pool and Spa Combination Units:

If your control is a POOL and SPA combination with a 2-speed filtration pump, the control will operate as follows: HIGH SPEED (Filter Pump) must be on before LOW SPEED. Filter Pump button, as well as the Spa button, turns it to HIGH SPEED. LOW SPEED (AUX 2) button toggles back and forth from LOW to HIGH.

• For Pool or Spa Only Units:

To use HIGH/LOW Speeds, Filter Pump turns on HIGH SPEED, AUX 2 turns on LOW SPEED. Whatever mode last used is the off button. To toggle, press whichever speed is not on.

• For Dual Equipment Units:

AquaLink RS 2/6 operates the same as the POOL/SPA Only units; i.e., Filter Pump turns on HIGH SPEED and AUX 2 turns on LOW SPEED. The mode last used is the off button. To toggle, press whichever speed is not on. 2-speed works only on spa filter pump.

• Two Speed Programming for All Units:

When programming HIGH and LOW Speeds to operate together, think of HIGH SPEED (Filter Pump) as total duration of filtration time. Then set LOW SPEED (AUX 2) to operate within that duration (e.g., if you want HIGH SPEED on for 2 hours and LOW SPEED for 10 hours, program the Filter Pump (HIGH SPEED) from 8 a.m. to 8 p.m. and LOW SPEED from 10 a.m. to 8 p.m. Also note: it is not necessary to program both HIGH and LOW SPEEDS, even with a Combo Control System. If only LOW SPEED is programmed, HIGH SPEED will turn on at the LOW SPEED on time to prime the pump. After 3 minutes the system will switch to LOW SPEED for the remainder of its programmed time.

Glossaries

Glossary of Safety Delays and Lockouts

Lockouts* - Device Lockout is now an option. Any device can be locked out, which will prevent those items from being turned on either by programming or manually.

Pool/Spa Switching Filter Pump Delay - The filter pump turns off while valves rotate between pool and spa to prevent damage to the pool equipment. The valves take 35 seconds to rotate between pool and spa; the filter pump will activate as soon as the valves have finished turning.

Heater Cool Down Delay - When the system is heating (water is circulating to the spa) and the Spa button is pressed, the system will remain in Spa Mode for five minutes, and will continue to circulate the water. This delay allows water to cool the heater down by circulating water through it, preventing equipment damage.

Heater Startup - The heater will only come on if the water is circulating (e.g., filter pump is on and has been circulating for 15 seconds) to the corresponding body of water (e.g., spa for spa heater) and the actual water temperature is below the temperature you set with TEMP SET in the Menu. If these conditions are not met, the heater will be enabled (ready to go), but will not fire. When the heater is enabled, the LED next to the button will be green. When it is firing, the LED will turn red.

Heater "Short Cycling" Prevention - When the heater is activated and the desired temperature is reached, heater will turn off and remain off for 3 minutes, even if the temperature falls below the desired temperature. This feature prevents heater short cycling (i.e., heater turning off and on in rapid succession).

Cleaner Lockout - The pool cleaner will only activate if the system is in pool mode (i.e., water circulating to pool). The pool cleaner requires that water is circulating to the pool in order for it to operate. Return to pool mode to activate the cleaner.

Spillover Lockout - The spillover will only activate if the system is in pool mode (i.e., water circulating to pool). The spillover requires that water is circulating to the pool in order for it to operate. Return to pool mode to activate the waterfall. Also, if the pool cleaner is on, it will turn off during spillover operation.

Spillover Rev. "I" - Rev. "I" of the AquaLink RS software corrects the operation of the return valve on Aux. 3 from the power center override switches. When Dip Switch 3 is in the **ON** position, the Aux. 3 relay socket is activated and the return valve actuator turns. The spillover is disabled while the spa is on, message is displayed when the spa spillover is in spa mode (water circulation is to spa). The spillover requires that water circulation is to pool in order to operate. The spillover will activate when the system switches back to pool mode.

Glossary of Special Auxiliary Labels

Spare AUX*- With DIP switch 6 turned **OFF**, the spare auxiliary socket is energized in "Pool Mode" and off in "Spa Mode". With DIP switch **ON**, the spare Auxiliary socket is energized in the "Spa Mode" and off in the "Pool Mode". Operates only with Pool/Spa combination units.

Extra AUX*- Light dimming, software labeling, timed aux, etc., can now be assigned to the extra AUX button. Only freeze protection cannot be assigned to the extra auxiliary.

Timed AUX- When an AUX button labeled "Timed AUX" is pressed, it will turn on the equipment for 30 minutes, then automatically turn it off. A timed auxiliary may be programmed like any other auxiliary, except that you can program only the ON time. The timed auxiliary will turn on at the programmed ON time, and turn off 30 minutes later.

Air Blower - When an AUX button labeled "Air Blower" is pressed, it will turn on the air blower for 30 minutes, then automatically turn it off. An air blower may be programmed like any other auxiliary, except that you can program only the ON time. The air blower will turn on at the programmed ON time, and turn off 30 minutes later. This is to protect the blower motor from overheating during extended operation.

Fill Line - When an AUX button labeled "Fill Line" is pressed, it will turn on the fill line for 30 minutes, and then automatically turn it off. A fill line may be programmed like any other auxiliary, except that you can program only the ON time. The fill line will turn on at the programmed ON time, and turn off 30 minutes later. This is to avoid overfilling the pool. Choose the appropriate number of "fill" programs during the week to keep your pool at the appropriate level.

Glossaries

Glossary of Controller Messages:

BATTERY IS LOW, BATTERY LOCATED AT THE POWER CENTER - This message (located in DIAGNOSTICS under the SYSTEM SETUP) indicates that the battery supplying power to the Power Center clock (in case of power outage) is low, and should be replaced. The battery is a standard 9V, and may be replaced by removing the battery door (marked on the Power Center - Power Center is located by the pool equipment).

CLEANER CANNOT BE TURNED ON WHILE SPA IS ON - This message is displayed if the pool cleaner is activated when in spa mode (i.e., water is circulating to spa). The pool cleaner requires that water be circulating to the pool in order for it to operate. Return to pool mode to activate the cleaner.

CLEANER CANNOT BE TURNED ON WHILE SPILLOVER IS ON - The return valve has been rotated to the spa position to give the spa spillover effect.

FREEZE PROTECTION ACTIVATED - This message indicates that freezing conditions have been detected by the freeze protection sensor, and that equipment assigned to freeze protection (e.g., filter pump) are active. See the section on freeze protection on page 9 of this manual for more information. (**NOTE:** Only the filter pump is protected unless the optional freeze sensor is installed.) If a freeze protected Auxiliary is turned off during freeze protection, a message will scroll indicating that item is off but will turn on in X amount of minutes. The minutes will vary depending on how long freeze mode has been active from 1 to 15 minutes.

SENSOR OPENED - This error message indicates that the sensor is not installed properly or is malfunctioning. Call your pool service person to resolve this problem. **NOTE:** If the message reads WATER SENSOR OPEN, the heater will not fire. If message AIR SENSOR OPEN is displayed, freeze protection will not operate correctly.

POOL HEATER ENABLED - This message indicates that the pool heater is ready to use but is not actually firing. The filter pump must be on, and the water temperature must be below the setting for the heater to fire.

PUMP WILL REMAIN ON WHILE SPILLOVER IS ON - This message is displayed when you attempt to turn off the filter pump while a spa spillover is on. Since the filter pump is necessary for spillover operation, the pump will remain on until the spillover is turned off.

PUMP WILL TURN OFF AFTER COOL DOWN CYCLE - This message indicates that the filter pump is circulating water to cool down the heater. The filter pump will continue to run for five minutes to protect the heater from damage, whenever the heater has fired and has been off for less than 5 minutes.

PUMP WILL TURN ON AFTER DELAY - This message is displayed during pool/spa switching. The AquaLink RS waits 35 seconds while the valves turn from pool position to spa position (or vice-versa) before activating the filter pump.

SERVICE MODE IS ACTIVE - This message indicates that the Controller has been locked out from the Power Center and is not operational. Service mode is used by the pool service person to aid them in servicing the pool. The Controller will not be functional until the switch at the Power Center is moved back to AUTO mode.

SENSOR SHORTED - This error message indicates that the sensor is not installed properly or is malfunctioning. Call your pool service person to resolve this problem. **NOTE:** If the message reads WATER SENSOR SHORTED the heater will not fire. If the message AIR SENSOR SHORTED is displayed, freeze protection will not operate correctly.

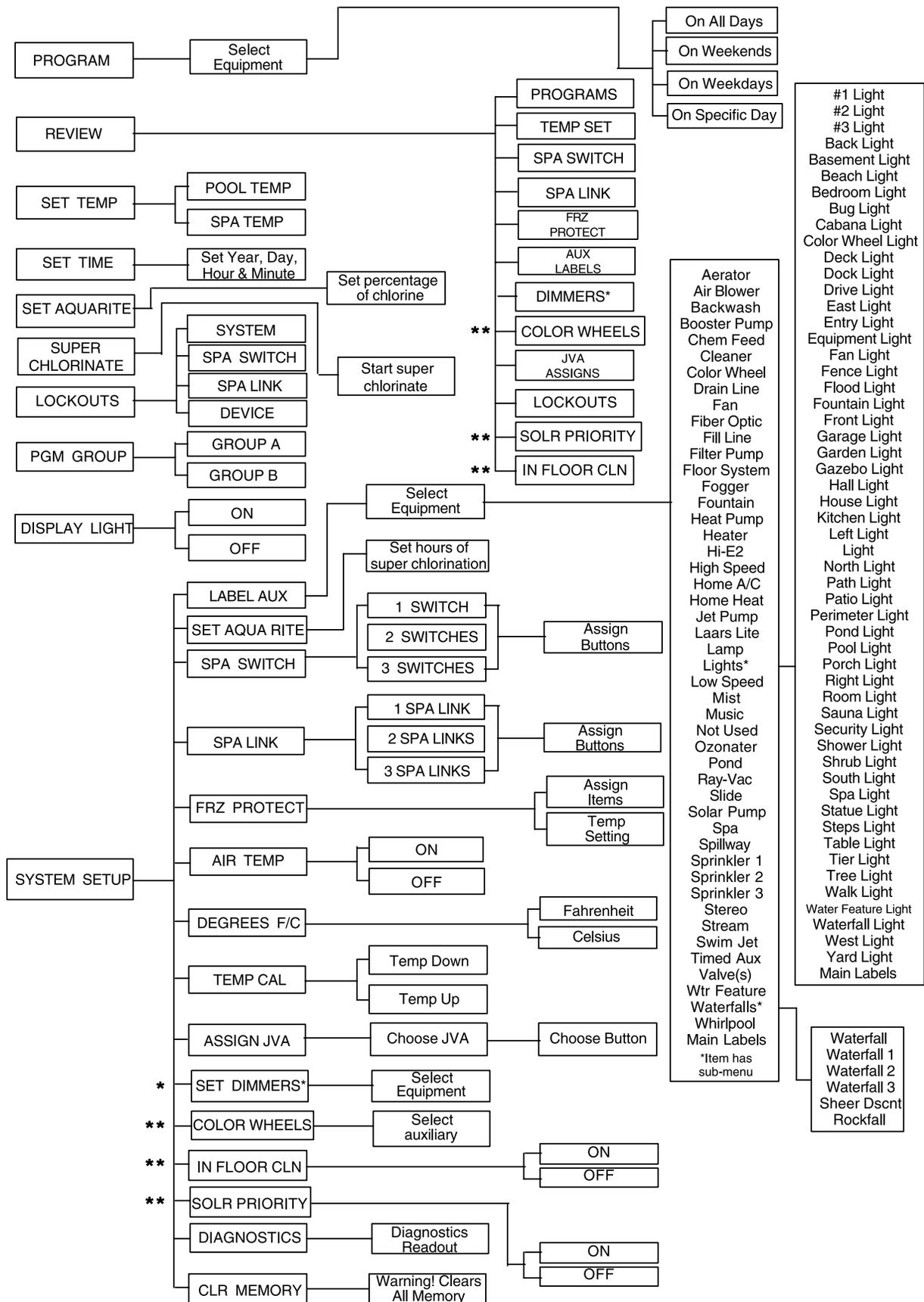
SPA WILL TURN OFF AFTER COOL DOWN CYCLE - When the system is in Spa Mode (water is circulating to the spa) and the Spa button is pressed to switch water circulation to the pool, the system will not switch to Pool Mode for five minutes, and will continue to circulate the water (if the heater has fired and has been off for less than five minutes). This delay allows water to cool the heater down by circulating water through it, preventing equipment damage.

TIMED AUX ON, WILL TURN OFF AFTER 30 MINUTES - This message indicates that a timed auxiliary (usually a blower) has been activated and will turn off after 30 minutes. Some labels (e.g., blower, fill line) have a built-in 30 minute shut off.

TIMEOUT MODE IS ACTIVE - This message indicates that the Controller has been locked out from the Power Center and is not operational. TIME OUT mode is used by the pool service person to aid them in servicing the pool. The Controller will not be functional for three hours, or until the switch at the Power Center is turned back to AUTO mode.

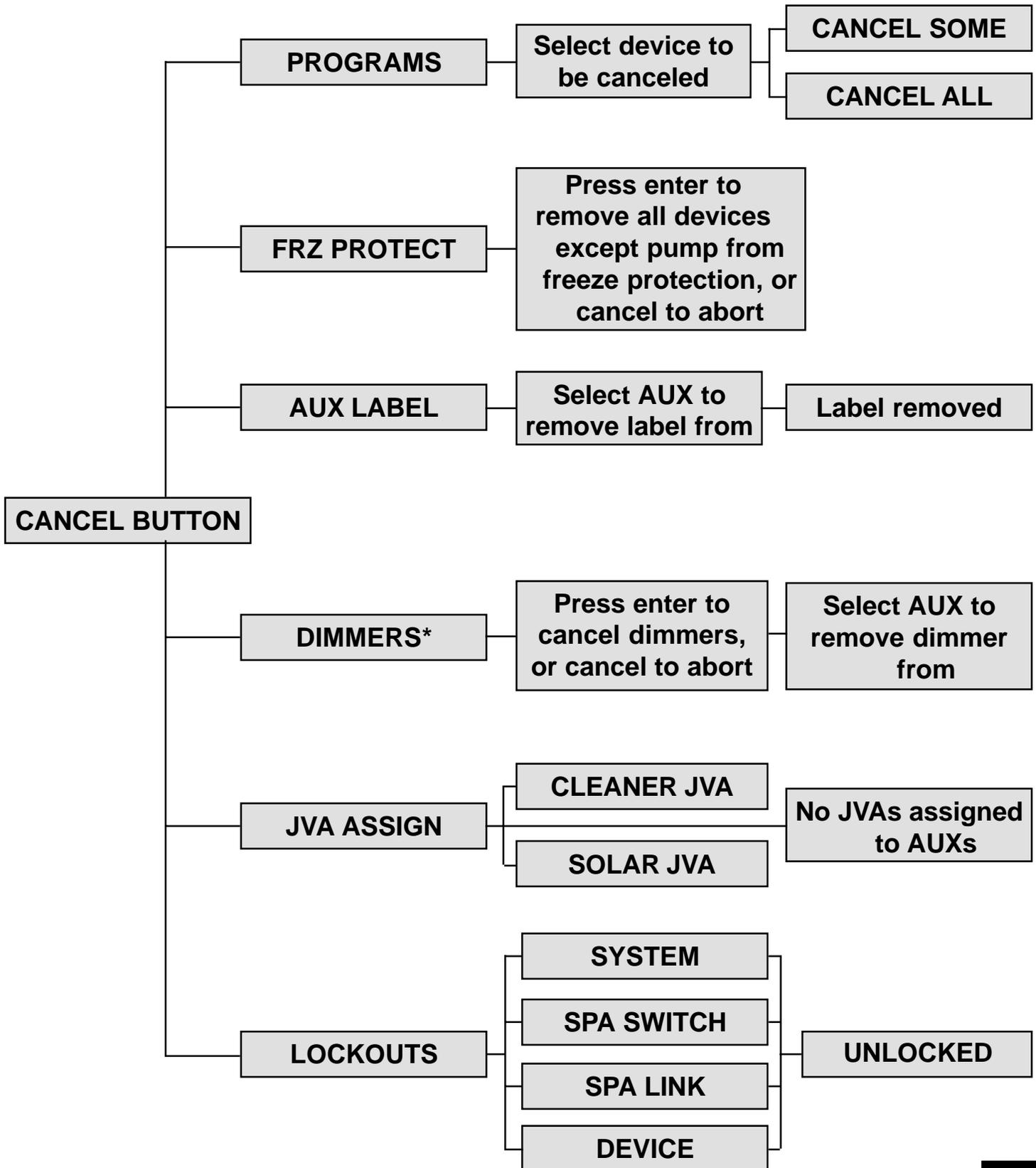
SPILLOVER IS DISABLED WHILE SPA IS ON - This message is displayed when the spa spillover is pressed while in spa mode (water circulation is to spa). The spillover requires that water circulation is to pool in order to operate. The spillover will activate when the system switches back to pool mode.

Inside the Menu



* Not Available for Export Models
 ** New for Rev. "I" PPD

Cancel Button Flow Chart



*Not Available for Export Models

Notes



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