



## Owner's Manual



# AquaLink® RS

## All Button Control Systems

For use with Pool/Spa Combination,  
Pool Only/Spa Only, and Dual Equipment  
AquaLink® RS Systems with Rev O.2 Firmware

### **WARNING**

**FOR YOUR SAFETY - This product must be installed and serviced by a professional pool/spa service technician. The procedures in this manual must be followed exactly. Failure to follow warning notices and instructions may result in property damage, serious injury, or death. Improper installation and/or operation will void the warranty.**



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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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## Section 1. Important Safety Instructions

### READ AND FOLLOW ALL INSTRUCTIONS

### Lire la notice technique.

All electrical work must be performed by a licensed electrician and conform to all national, state, and local codes. When installing and using this electrical equipment, basic safety precautions should always be followed, including the following:

#### DANGER

To reduce the risk of injury, do not remove the suction fittings of your spa or hot tub. 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.

#### WARNING

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 (37°C). The symptoms of hyperthermia include dizziness, fainting, drowsiness, lethargy, and an increase in the internal temperature of the body. The effects of hyperthermia include: 1) unawareness of impending danger; 2) failure to perceive heat; 3) failure to recognize the need to exit spa; 4) physical inability to exit spa; 5) fetal damage in pregnant women; 6) unconsciousness resulting in a danger of drowning.

#### WARNING

##### To Reduce the Risk of Injury -

- a) The water in a spa should never exceed 104°F (40°C). Water temperatures between 100°F (38°C) and 104°F (40°C) are considered safe for a healthy adult. Lower water temperatures are recommended for young children and when spa use exceeds 10 minutes.
- b) Since excessive water temperatures have a high potential for causing fetal damage during the early months of pregnancy, pregnant or possibly pregnant women should limit spa water temperatures to 100°F (38°C).
- c) Before entering a spa or hot tub, the user should measure the water temperature with an accurate thermometer since the tolerance of water temperature-regulating devices varies.
- d) The use of alcohol, drugs, or medication before or during spa or hot tub use may lead to unconsciousness with the possibility of drowning.
- e) Obese persons and persons with a history of heart disease, low or high blood pressure, circulatory system problems, or diabetes should consult a physician before using a spa.
- f) 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.

#### WARNING

**Risk of electric shock** - Install the power center at least five (5) feet (1.52m) from the inside wall of the pool and/or hot tub using non-metallic plumbing. Canadian installations must be at least three (3) meters from the water.

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

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

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

#### AVERTISSEMENT

**Danger d'electrocution** - Les installations canadiennes doivent se trouver à au moins trois (3) mètres de l'eau.

Ne pas laisser les enfants utiliser une cuve de relaxation sans surveillance.

Pour éviter que les cheveux ou une partie du corps puissent être aspirés, ne pas utiliser une cuve de relaxation si les grilles de prise d'aspiration ne sont pas toutes en place.

Les personnes qui prennent des médicaments ou ont des problèmes de santé devraient consulter un médecin avant d'utiliser une cuve de relaxation.

**⚠ WARNING**

People with infectious diseases should not use a spa or hot tub.  
 To avoid injury, exercise care when entering or exiting the spa or hot tub.  
 Do not use drugs or alcohol before or during the use of a spa or hot tub to avoid unconsciousness and possible drowning.  
 Pregnant or possibly pregnant women should consult a physician before using a spa or hot tub.  
 Water temperature in excess of 100°F (38°C) may be injurious to your health.  
 Before entering a spa or hot tub, measure the water temperature with an accurate thermometer.  
 Do not use a spa or hot tub immediately following strenuous exercise.  
 Prolonged immersion in a spa or hot tub may be injurious to your health.  
 Do not permit any electric appliance (such as a light, telephone, radio, or television) within 5 feet (1.52m) of a spa or hot tub.  
 The use of alcohol, drugs or medication can greatly increase the risk of fatal hyperthermia in hot tubs and spas.  
 Water temperature in excess of 100°F (38°C) may be hazardous to your health.

**⚠ AVERTISSEMENT**

Les personnes atteintes de maladies infectieuses ne devraient pas utiliser une cuve de relaxation.  
 Pour éviter des blessures, user de prudence en entrant dans une cuve de relaxation et en sortant.  
 Pour éviter l'évanouissement et la noyade éventuelle, ne prendre ni drogue ni alcool avant d'utiliser une cuve de relaxation ni quand on s'y trouve.  
 Les femmes enceintes, que leur grossesse soit confirmée ou non, devraient consulter un médecin avant d'utiliser une cuve de relaxation.  
 Il peut être dangereux pour la santé de se plonger dans de l'eau à plus de 38°C (100°F).  
 Avant d'utiliser une cuve de relaxation mesurer la température de l'eau à l'aide d'un thermomètre précis.  
 Ne pas utiliser une cuve de relaxation immédiatement après un exercice fatigant.  
 L'utilisation prolongée d'une cuve de relaxation peut être dangereuse pour la santé.  
 Ne pas placer d'appareil électrique (luminaire, téléphone, radio, téléviseur, etc) à moins de 1.52m de cette cuve de relaxation.  
 La consommation d'alcool ou de drogue augmente considérablement les risques d'hyperthermie mortelle dans une cuve de relaxation.  
 Il peut être dangereux pour la santé de se plonger dans de l'eau à plus de 38°C (100°F).

**⚠ WARNING**

To avoid injury ensure that you use this control system to control only packaged pool/spa heaters which have built-in operating and high limit controls to limit water temperature for pool/spa applications. This device should not be relied upon as a safety limit control.

**⚠ CAUTION**

A terminal bar marked "GROUND" is provided within the power center. To reduce the risk of electrical shock, connect this terminal bar to the grounding terminal of your electric service or supply panel with a continuous copper conductor having green insulation and one that is equivalent in size to the circuit conductors supplying this equipment, but no smaller than no. 12 AWG (3.3mm). In addition, a second wire connector should be bonded with a no. 8 AWG (4.115mm) copper wire to any metal ladders, water pipes, or other metal within five (5) feet (1.52m) of the pool/spa.

**⚠ CAUTION**

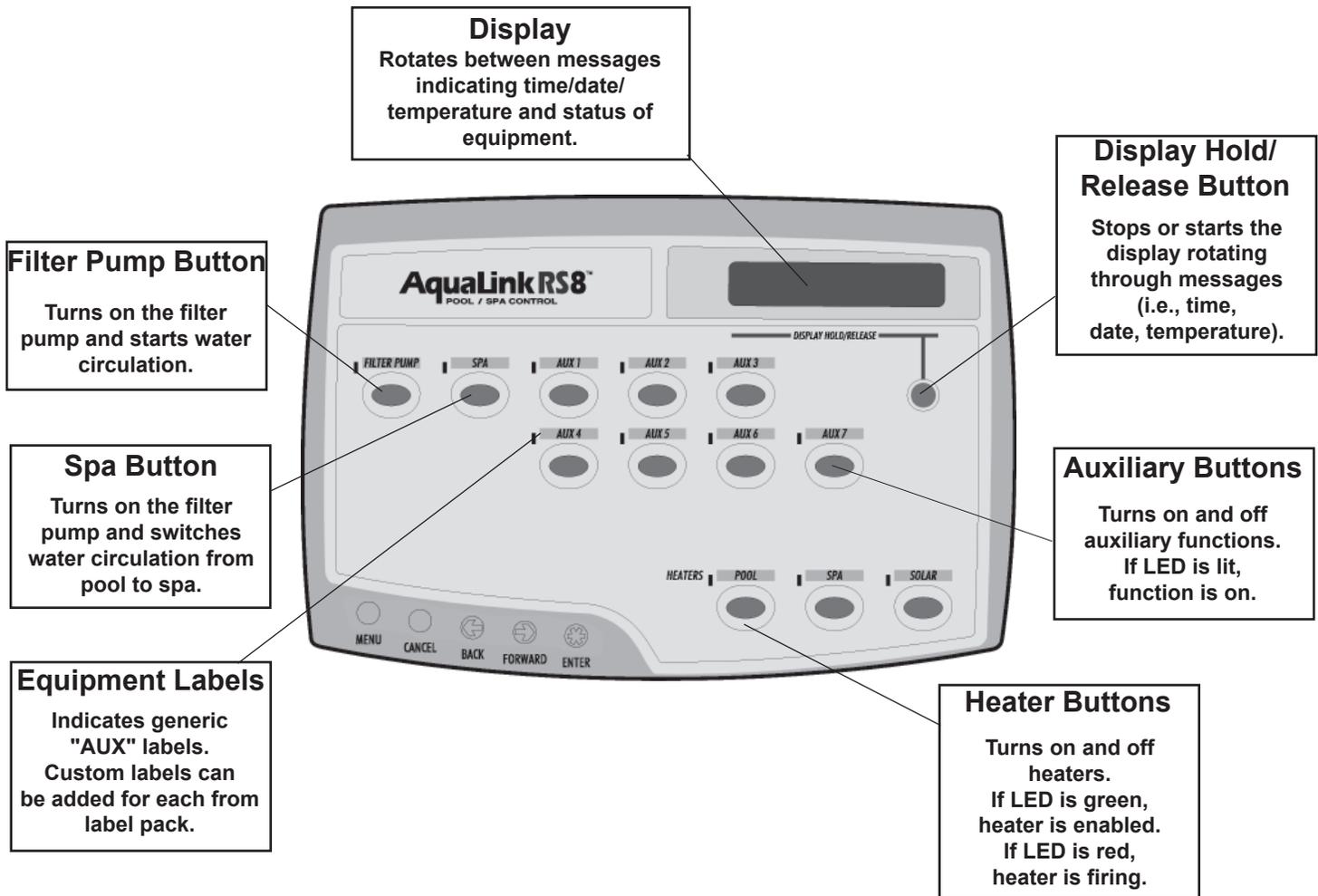
A ground-fault circuit-interrupter must be provided if this device is used to control underwater lighting fixtures. The conductors on the load side of the ground-fault circuit-interrupter shall not occupy conduit, boxes, or enclosures containing other conductors unless the additional conductors are also protected by a ground-fault circuit-interrupter. Refer to local codes for complete details.



**Attention installer:** Install to provide drainage of compartment for electrical components.

**SAVE THESE INSTRUCTIONS**

## Section 2. Control Panel Overview



### 2.1 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 Section 3.4 for more details). When the LED above a button flashes, the equipment is being protected by a built-in safety delay (see Section 6.1 for a description of safety delays).

Second, you can also program the equipment to turn on and off at specific times. See page Section 4.2.1 for a detailed explanation of how to program equipment for automatic operation.

### 2.2 Battery Back-Up

In the event of a power failure, DATE and TIME will be backed-up by the coin cell battery located in the power center enclosure. All other programs and Menu setups do not require battery to store information.

### 2.3 Power Interruption

In the event there is a power interruption, and the AquaLink® RS system is in service or time out mode, the system will default to Auto. In previous firmware versions, the system would default to last mode of operation.

## Section 3. Using the Main Buttons

### 3.1 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, if a spa spill-over effect is activated, or if maintain heat is active.

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.

#### 3.1.1 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.

**NOTE** See Section 6.1 for a glossary of safety delays.

#### 3.1.2 Two Speed Manual Operation (\*Not Available for Export Models\*)

**NOTE** This equipment may not be part of your system. Please check with your installer. Optional Two Speed Relay required.

- **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. For example, if you want HIGH SPEED on for 2 hours and LOW SPEED for 10 hours, program the Filter Pump (HIGH SPEED) from 8 AM to 8 PM and LOW SPEED from 10 AM to 8 PM.

**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 three (3) minutes the system will switch to LOW SPEED for the remainder of its programmed time.

## 3.2 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).

**NOTE** See Section 6.1 for a glossary of safety delays.

### 3.2.1 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.

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## 3.3 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.

### 3.3.1 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 affect the operation of the AUX Button. See Section 6.2 for details on "Special Auxiliary Labels".

### 3.4 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°F 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.

#### 3.4.1 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 reactivate.

#### 3.4.2 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.

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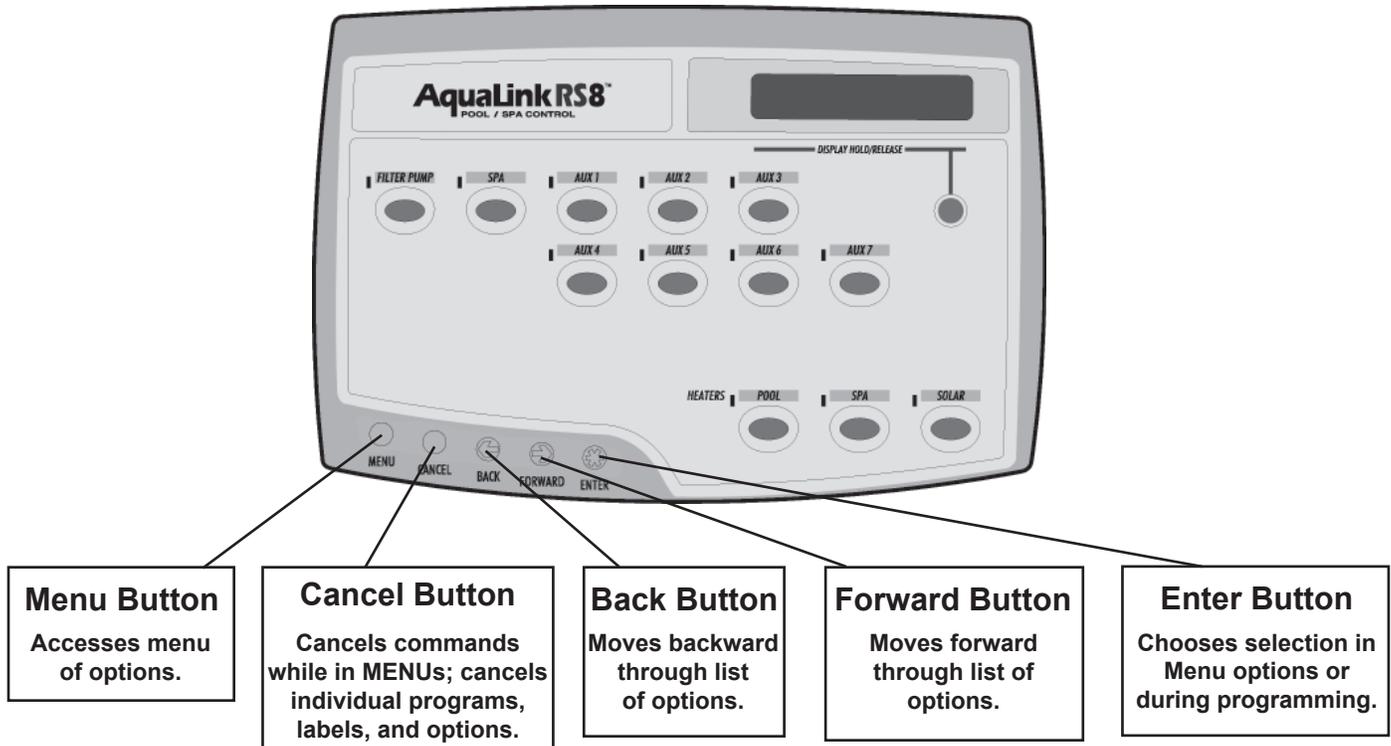
### 3.5 Display Hold/Release Button

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

#### 3.5.1 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.

## Section 4. Using the Menu



### 4.1 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
- Enable the RS485 heat pump
- Lock out program changes or turn off the Spa Side Switch
- Switch between Program 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)
- 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.

## 4.2 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.

### 4.2.1 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 (for example, 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 buttons 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 buttons 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 (for example, 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.

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## 4.3 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.

### 4.3.1 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 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.

## 4.4 Set Temperature Menu

The SET TEMP menu allows you to preset the pool and spa thermostats. The default pool temperature is 80°F. The default spa temperature is 102°F. (The default TEMP1 temperature is 80°F. The default TEMP2 temperature is 60°F.)

SET TEMP will allow you to enable the Maintain Temperature feature and adjust the hours to limit the time of day the Maintain Temperature feature will be active.

**NOTE** 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.

### 4.4.1 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 **TEMP1** and **TEMP2**. 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.

**MAINTAIN:** While in SET TEMP menu, scroll to MAINTAIN and press ENTER to turn on (or off) this function. MAINTAIN will run the pump for the selected body of water to keep the water at the desired temperature. When this feature is on, the system will periodically activate the pump, sample the water, and fire the heater to maintain the preset temperature as required. The heater must be enabled for this feature to maintain temperature.

**HOURS:** While in SET TEMP menu, scroll to HOURS and press ENTER. Use the FORWARD or BACK buttons to change the HOURS the system will maintain the preset temperature.

**NOTE** Only Dual Equipment models will maintain more than one body of water.

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## 4.5 Set Time Menu

The SET TIME menu allows the correct time and date to be entered. The correct time and date ensures that programming will work properly.

### 4.5.1 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.

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## 4.6 Boost Menu

Activates the BOOST POOL feature that will operate the AquaPure® Chlorine Generator at 100% output for 24 hours. Boost Pool mode will override all filter pump programs as well as manual operations. BOOST is not available in SPA MODE.

### 4.6.1 To use the Boost Pool Menu

1. Press the MENU button. Use the FORWARD or BACK buttons to move to the BOOST POOL Menu and press ENTER.
2. Use the FORWARD or BACK buttons to toggle between on and off. When the option you want is displayed, press ENTER.

## 4.6.2 To pause or stop Boost Pool

1. Press the MENU button. Use the FORWARD or BACK buttons to move to the BOOST POOL Menu and press ENTER.
  2. Use the FORWARD or BACK buttons to toggle between PAUSE, RESTART, and STOP. When the option you want is displayed, press ENTER.
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## 4.7 Lockouts Menu

The LOCKOUTS menu prevents changes to specific AquaLink® RS operations.

When SYSTEM feature is on "LOCK", changes to program and system setup items are prevented.

When SPALINK RS and SPA SWITCH features are on "LOCK", all control from the SpaLink® RS and Spa Side Switch are prevented.

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

### 4.7.1 To use Lockouts

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.
- 

## 4.8 Program Group Menu

Program groups allow two different on/off times to be programmed for each piece of equipment. This is useful for changing between specific settings for summer, winter, or vacation. The AquaLink® RS will store on/off times for equipment in each group. Use the PROGRAM GROUP Menu to switch between PROGRAM GROUP A and PROGRAM GROUP B. Group A is the default. Program Group A or B will not appear unless PROGRAM GROUP has been selected. Confirm you are in the right Program Group before programming equipment.

### 4.8.1 To use Program Group

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.
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## 4.9 Display Light Menu

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

### 4.9.1 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.

## 4.10 All Off Menu

The ALL OFF menu will turn off equipment that has been turned on by any means (manual or pre-programmed). This includes any of the heater enables that were on (unless in use by the Maintain function).

**NOTE** Specific time to activate ALL OFF can be set in the SYSTEM SETUP menu.

### 4.10.1 To use the All Off Menu

Press the MENU button, then press the FORWARD button and scroll through until you reach ALL OFF, press ENTER.

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## 4.11 System Setup Menu

Check with the installer before making changes to the SYSTEM SETUP.

### 4.11.1 To use the System Setup Menu

1. Press the MENU button. Use the FORWARD and BACK buttons to move to the SYSTEM SETUP Menu and press ENTER.
  2. Use the FORWARD and BACK arrow buttons until the desired option is displayed. When the option you want is displayed, press ENTER.
- 

## 4.12 AquaPure™ Menu

**NOTE** This equipment may not be part of your system. Please check with your installer.

The AquaPure® Chlorine Generator system exclusively communicates with the AquaLink® RS. The AquaLink® RS Control Panel will display % of chlorine output. When interfaced with the AquaPure® chlorine generator or PureLink, the AquaLink® RS allows for two different pool and spa set points for chlorine production.

The menu item will only appear when an AquaPure® chlorine generator is connected to the AquaLink® RS system.

### 4.12.1 To Set the AquaPure® Output Percentage (%)

1. Press the Menu button, use the BACK or FORWARD arrow button to display SET AQUAPURE menu, press ENTER.
2. Inside the SET AQUAPURE menu, select either SET POOL or SET SPA then press ENTER.
3. Use the BACK or FORWARD arrow button to change the percentage of chlorine that the AquaPure® will dispense.

### 4.12.2 To set BOOST POOL

1. Press the Menu button, use the BACK or FORWARD arrow button to display BOOST POOL, press ENTER.
2. To set the amount of hours BOOST will run, go to SYSTEM SETUP, press ENTER, use the BACK or FORWARD arrow button to move to SET AQUAPURE HOURS, press ENTER.
3. Use the BACK or FORWARD arrow button to set the number of hours. Press ENTER to return to the information screen.

## 4.13 Label AUX Menu

The LABEL AUX menu allows custom naming of auxiliary equipment. For example, you can set the display to read YARD LIGHT ON instead of AUX 4 ON.

**NOTE** Some labels add special features (for example, 30 minute timed off times) to the Auxiliary. See Section 6.2, Glossary of Special Auxiliary Labels, for more details.

### 4.13.1 To label Auxiliary Buttons

1. Press the MENU button, then press the FORWARD button and scroll through until you reach SYSTEM SETUP. Press 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.

**NOTE** Please be aware that if the label NOT USED from the GENERAL LABEL menu is used on an AUX relay, the relay will not engage.

---

## 4.14 Boost Hours of Operation Menu

Activates the BOOST feature that will operate the AquaPure® at 100% output for 24 hours.

### 4.14.1 To use the Boost hours

Press the MENU button, then press the FORWARD button and scroll through until you reach SYSTEM SETUP, press ENTER. Scroll to AQUAPURE HRS and press ENTER. Use the arrow buttons to change the hours BOOST will operate.

## 4.15 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.

### 4.15.1 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. Press ENTER then press FORWARD to SPA SWITCH. Press 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 (for example, 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.

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## 4.16 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).

**NOTE** 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.

### 4.16.1 To set the SpaLink® RS buttons

1. Press the MENU button, then press the FORWARD button and scroll through until you reach SYSTEM SETUP. Press ENTER then press FORWARD to SPA LINK. Press ENTER again. The display will read 1 SPA LINK <—>\*. Use the FORWARD and BACK arrows to move between 1 SPA LINK, 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 (for example, 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 9-16, and the buttons on the third SpaLink® will be buttons 17-24.

## 4.17 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 want freeze-protected equipment to turn on when the air temperature has dropped to 37°F, you can set the system so this is the case.

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

### 4.17.1 To set freeze protection

1. Press the MENU button, then press the FORWARD button and scroll through until you reach SYSTEM SETUP. Press ENTER and then press FORWARD to FRZ PROTECT. Press 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 SETTING is displayed.
3. *If you are assigning items*, the AquaLink® RS display will read ENTER DEVICE TO ADD TO FREEZE PROTECTION. Press the button of the equipment you want to add to freeze protection. Press ENTER when done.
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.) Under these circumstances, the potential for equipment damage may exist.

## 4.18 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.

### 4.18.1 To activate Air Temperature display

1. Press the MENU button, then press the FORWARD button and scroll through until you reach SYSTEM SETUP. Press ENTER and then press FORWARD to AIR TEMP. Press 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.

## 4.19 Daylight Savings Menu

The DAYLIGHT SAVINGS menu enables the automatic adjustment for Daylight Savings Time.

### 4.19.1 To activate Daylight Savings display

1. Press the MENU button, then press the FORWARD button and scroll through until you reach SYSTEM SETUP, press ENTER.
  2. Scroll to DAYLIGHT SAVINGS and press ENTER. Use an arrow button to turn DAYLIGHT SAVINGS off. Default setting is on.
- 

## 4.20 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.

### 4.20.1 To change the Temp Readout

1. Press the MENU button, then press the FORWARD button and scroll through until you reach SYSTEM SETUP. Press ENTER, then press FORWARD to DEGREES F/C 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.
- 

## 4.21 Temp Calibration Menu

The TEMPERATURE CALIBRATION menu allows you to “adjust” the temperature that is displayed on the AquaLink® RS by  $\pm 4$  degrees Fahrenheit so that it matches other water temperature thermometers you may have.

**NOTE** The electronic sensor of the AquaLink® RS is very accurate. Ensure that your other thermometer is reading reliably before recalibrating. If the temperature is off by more than 4 degrees Fahrenheit, contact Jandy as to the possible cause.

### 4.21.1 To adjust the temperature display

**NOTE** Be sure the water temperature sensor is properly connected and the filter pump is turned on while using this procedure.

1. Press the MENU button, then press the FORWARD button and scroll through until you reach SYSTEM SETUP. Press ENTER, then press 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 adjust 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.

## 4.22 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. Multiple JVAs can be assigned to one auxiliary button without extra hardware.

### 4.22.1 To set the Assign JVA buttons

1. Press the MENU button, then press the FORWARD button and scroll through until you reach SYSTEM SETUP. Press ENTER then press FORWARD to ASSIGN JVA. Press 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.

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## 4.23 Set Color Lights Menu

The COLOR LIGHTS menu is used to select the color light type (Jandy, Pentair® SAm™/SAL® or Color Logic®), and to assign the color light to an available auxiliary relay.

### 4.23.1 To set Color Lights

1. Press the MENU button, then press the FORWARD button and scroll through until you reach SYSTEM SETUP. Press ENTER, then press FORWARD to COLOR LIGHTS <—>\*. Press ENTER, use the BACK and FORWARD arrow buttons to select the color light type, JANDY LIGHT <—>\*, SAM/SAL LIGHT <—>\* or COLOR LOGIC <—>\*. Press ENTER to select the desired light type. The controller displays “SELECT AN AUX TO OPERATE AS A COLOR LIGHT or PRESS ENTER TO END”.
2. Press the AUX button you want to operate as a color light and press ENTER.
3. Color lights can be set to one of several colors, or they can be set to cycle through all available colors. To set the color light to a particular color or to have it cycle through its colors, press the AUX key that the color light is assigned to. The most recently selected color will be displayed, for example, Alpine White <—>\*. Use the FORWARD and BACK arrow buttons until the desired color is shown on the display, press ENTER to select. Press AUX to turn the color light off.

**NOTE** If any button other than the ENTER button is pressed, or if 10 seconds have elapsed without a key press, the most recently selected color will be selected again.

## 4.24 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.

### 4.24.1 To operate dimmable lights

1. Press the MENU button, then press the FORWARD button and scroll through until you reach SYSTEM SETUP. Press ENTER then press 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.

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## 4.25 In Floor/Return Valve Switching Menu

When the AquaLink® RS is set up 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 send 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.

### 4.25.1 To operate In Floor/Return Valve Switching

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.

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## 4.26 Solar Priority/Heat Pump 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.

### 4.26.1 To operate the Solar Priority/Heat Pump

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.

## 4.27 Pump Lockout Menu

The PUMP LOCKOUT menu allows you to enable (pump off) or disable (pump on) when valves are rotating from pool to spa.

### 4.27.1 To operate Pump Lockout

Under SYSTEM SETUP, use the FORWARD or BACK arrow to move to PUMP LOCKOUT, press ENTER. Use the FORWARD or BACK arrow button to turn PUMP LOCKOUT on or off. Press ENTER to return to the information screen.

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## 4.28 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.

### 4.28.1 To check the AquaLink® RS System

Press the MENU button, then press the FORWARD button and scroll through until you reach SYSTEM SETUP. Press ENTER, then press 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.

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## 4.29 Clear Memory Menu

The Clear Memory menu allows you to clear all stored values from the AquaLink® RS memory. All settings will be set to their default settings. Stored values include auxiliary labels, all programs, freeze protection settings, remote settings, and thermostat settings. The time and date will not be cleared.

Only use the Clear Memory Menu as necessary. Most specific programs and settings can be canceled individually, using the CANCEL button.

### 4.29.1 To clear system memory

1. Press the MENU button, then press the FORWARD button and scroll through until you reach SYSTEM SETUP. Press ENTER and then press FORWARD to CLR MEMORY. Press 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.

## Section 5. Using the Cancel Button

### 5.1 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.

#### 5.1.1 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 is more than one program, 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.

#### 5.1.2 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 (for example, Cabana Light will become AUX 4).

## Section 6. Glossaries

### 6.1 Glossary of Safety Delays and Lockouts

**Lockouts** - 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 (5) 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 Start-up** - 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 three (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** - When Dip Switch S2-3 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. A message is displayed when spillover is turned on 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.

**Enabled** - When activated allows the function to work.

**Disabled** - When activated does not allow the function to work.

### 6.2 Glossary of Special Auxiliary Labels

**Spare AUX** - With DIP switch S2-6 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** - System features (for example, light dimming, software labeling, and timed aux) can be assigned to the extra AUX button. Only freeze protection cannot be assigned to the extra auxiliary.

**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.

## 6.3 Glossary of Controller Messages

**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 (for example, filter pump) are active. See the section on freeze protection on page 16 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 five (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 (5) 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.

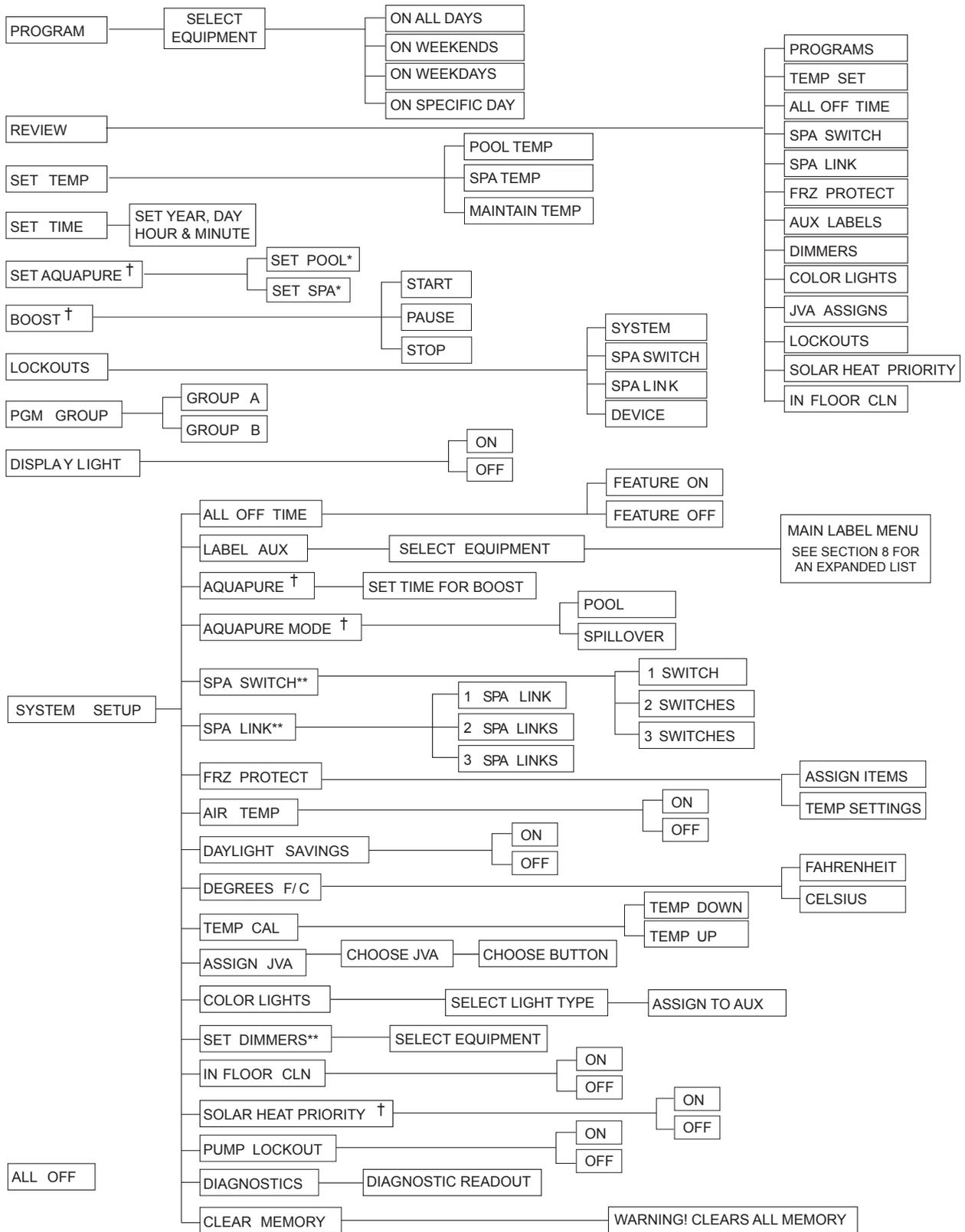
**TIMED AUX ON, WILL TURN OFF AFTER 30 MINUTES** - This message indicates that a timed auxiliary (usually a blower) has been activated and will turn off after 30 minutes. Some labels (for example, blower, fill line) have a built-in 30 minute shut off.

**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.

## Section 7. Flow Charts

### 7.1 Main Menu Flow Chart



† Items Seen Only With Optional Equipment  
 \* Items Seen Only In Revision "M" or later  
 \*\* Not Available on Export Models



**EQUIPMENT INFORMATION RECORD**

DATE OF INSTALLATION \_\_\_\_\_

INSTALLER INFORMATION \_\_\_\_\_

INITIAL PRESSURE GAUGE READING (WITH CLEAN FILTER) \_\_\_\_\_

PUMP MODEL \_\_\_\_\_

HORSEPOWER \_\_\_\_\_

FILTER MODEL \_\_\_\_\_

SERIAL NUMBER \_\_\_\_\_

CONTROL PANEL MODEL \_\_\_\_\_

SERIAL NUMBER \_\_\_\_\_

NOTES: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

## LIMITED WARRANTY

Thank you for purchasing Jandy® pool and spa products. Jandy Pool Products, Inc. warrants all parts to be free from manufacturing defects in materials and workmanship for a period of one (1) year from the date of retail purchase, with the following exceptions:

- AquaLink® RS units installed with Jandy Surge Protection Kits will be covered for two (2) years.
- Never Lube® valves are warranted for the life of the pool and/or spa on which they were originally installed.
- AquaPure® Electronic Chlorine Generator Electrolytic Cells carry a five (5) year limited warranty on a prorated basis.
- Heat pumps are covered for two (2) years. There is a lifetime warranty on titanium tubing.
- The heat pump compressor is covered for five (5) years.

This warranty is limited to the first retail purchaser, is not transferable, and does not apply to products that have been moved from their original installation sites. The liability of Jandy Pool Products, Inc. shall not exceed the repair or replacement of defective parts and does not include any costs for labor to remove and reinstall the defective part, transportation to or from the factory, or any other materials required to make the repair. Refrigerant or other expendables are not covered by the warranty. This warranty does not cover failures or malfunctions resulting from the following:

1. Failure to properly install, operate, or maintain the product(s) in accordance with our published Installation, Operation and Maintenance Manuals, which are provided with the product(s).
2. The workmanship of any installer of the product(s).
3. Not maintaining a proper chemical balance in your pool and/or spa [pH levels between 7.2 and 7.8, with ideal ranges being between 7.4 and 7.6, Total Alkalinity (TA) between 80 to 120 ppm, Total Dissolved Solids (TDS) less than 2000, not including salt ppm].
4. Abuse, alteration, accident, fire, flood, lightning, rodents, insects, negligence, or acts of God.
5. Scaling, freezing, or other conditions causing inadequate water circulation.
6. Operating the product(s) at water flow rates outside the published minimum and maximum specifications.
7. Use of non-factory authorized parts or accessories in conjunction with the product(s).
8. Chemical contamination of combustion air or improper use of sanitizing chemicals, such as introducing sanitizing chemicals upstream of the heater and cleaner hose or through the skimmer.
9. Overheating; incorrect wire runs; improper electrical supply; collateral damage caused by failure of O-rings, DE grids, or cartridge elements; or damage caused by running the pump with insufficient quantities of water.

### LIMITATION OF LIABILITY:

This is the only warranty given by Jandy Pool Products, Inc. No one is authorized to make any other warranties on behalf of Jandy Pool Products, Inc. **THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE AND MERCHANTABILITY. JANDY POOL PRODUCTS, INC. EXPRESSLY DISCLAIMS AND EXCLUDES ANY LIABILITY FOR CONSEQUENTIAL, INCIDENTAL, INDIRECT, OR PUNITIVE DAMAGES FOR BREACH OF ANY EXPRESSED OR IMPLIED WARRANTY.** This warranty gives you specific legal rights. You may also have other rights that vary by state or province.

### WARRANTY CLAIMS:

For prompt warranty consideration, contact your dealer and provide the following information: proof of purchase, model number, serial number, and date of installation. The installer will contact the factory to obtain instructions regarding the claim and to determine the location of the nearest designated service center. If the dealer is not available, you can locate a service center in your area by visiting [www.jandy.com](http://www.jandy.com) or by calling our technical support department at 1.707.776.8200, extension 260. All returned parts must have a Returned Material Authorization number to be evaluated under the terms of this warranty.



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