

# Ji/AquaLink® Conversion to Jandy® AquaLink® RS Replacement Kit

## WARNING

**FOR YOUR SAFETY** - This product must be installed and serviced by a contractor who is licensed and qualified in pool equipment by the jurisdiction in which the product will be installed where such state or local requirements exist. In the event no such state or local requirement exists, the maintainer must be a professional with sufficient experience in pool equipment installation and maintenance so that all of the instructions in this manual can be followed exactly. Before installing this product, read and follow all warning notices and instructions that accompany this product. Failure to follow warning notices and instructions may result in property damage, personal injury, or death. Improper installation and/or operation will void the warranty.

Improper installation and/or operation can create unwanted electrical hazard which can cause serious injury, property damage, or death.

These instructions are to be used with the following Jandy® Replacement Kits:

## Ji/AquaLink® Conversion to Jandy® AquaLink® RS Replacement Kit

## WARNING

If the information in these instructions is not followed exactly, an electrical fire or shock hazard may result causing property damage, personal injury or death.

### 1. Introduction

This document gives instructions for converting a Ji/AquaLink to Jandy AquaLink RS. Before starting this procedure, identify the kit number applicable to your existing control system. Refer to the chart located on the last page of this document. If any parts are missing from the kit, please call your local Jandy distributor for assistance. For technical assistance, please contact our Technical Support Department at (800) 822-7933.

These instructions must be followed exactly. Read through the instructions completely before starting the procedure. Please save these instructions.

### 2. Modification of the existing Power Center

#### WARNING

**Risk of Electric Shock which can result In Serious Injury or Death.** Before attempting installation or service, ensure that all power to the circuit supplying power to the system is disconnected or turned off at the circuit breaker.

All wiring must be done in accordance with the National Electric Code (NEC), NFPA-70. In Canada, the Canadian Electrical Code (CEC), CSA C22.1, must be followed. All applicable local installation codes and regulations must be followed.

1. Turn off all power to the power center.
2. Go to the indoor controller and remove it from the back housing.
3. Unwire the terminal bar and remove it from the mounting bracket. Remove the mounting bracket.
4. Secure the cable to ensure it does not fall back into the wall or conduit.
5. Before mounting the new AquaLink RS back housing, determine if the wall plate adapter is required to cover the wall area of the old Ji or AquaLink controller.
6. If the wall plate adapter is needed, install it as follows:
  - a. Place the new control panel back onto the plate, making sure all holes align. See Figure 1.
  - b. Use the fasteners supplied with the kit to attach the wall plate adapter and control panel to the wall.
7. Wire the red terminal bar using the four wires of the existing cable. If the existing wire is 9-pair cable, use the yellow/black pair and the red/green pair. Follow the wiring diagram in the AquaLink RS installation manual for connections.

8. Plug in the red terminal bar and hang the controller on the back of the housing, then go to the power center.
  9. Remove the screw that secures the low voltage panel to the left side of the power center, making note of each relay coil wire and which socket it is plugged into. Then remove the relay coil wires.
  10. Remove the terminal bars from the low voltage PCB (terminal bars are not removable on Ji600 and Ji2000), then unscrew and remove the wires from the terminal bars. Make notes as to which wires go to the spa side remote (if applicable), heater, etc.
  11. Unplug all JVA's. Note which are intake, return cleaner and solar (if applicable).
- ### 3. Installation of the Jandy AquaLink RS
1. Remove all components from the AquaLink RS conversion box.
  2. Place the door decal, included in the box, over the existing door decal.
  3. Remove the existing water temperature sensor and replace with the temperature sensor supplied with the kit. If a solar sensor is being used, it must be replaced with P/N 7908 (not supplied with kit).
4. Remove the AquaLink RS power center bezel and PC board from the packaging and remove the red, brown, and green terminal bars.
  5. Wire the red terminal bar to the same four wires that were used to wire the indoor controller. Follow the wiring diagram to wire the spa side remote, heater, water temperature(s), air and solar sensors, if applicable.
- NOTE** For a Ji2000 system, rewire the heater connection with the heater, in series with the thermostat circuitry, like a Fireman's switch. (Old systems did not utilize an air temperature sensor. The RS must have the air sensor installed.)
6. Plug relay coils to the power center PCB per your notes.
  7. Plug in JVA's to their appropriate sockets on the power center PCB per your notes.
  8. Connect the three-pin transformer power plug to the power center PCB.
  9. Attach the metal bracket to the bezel assembly and then mount the assembly into the power center, securing it with a screw.

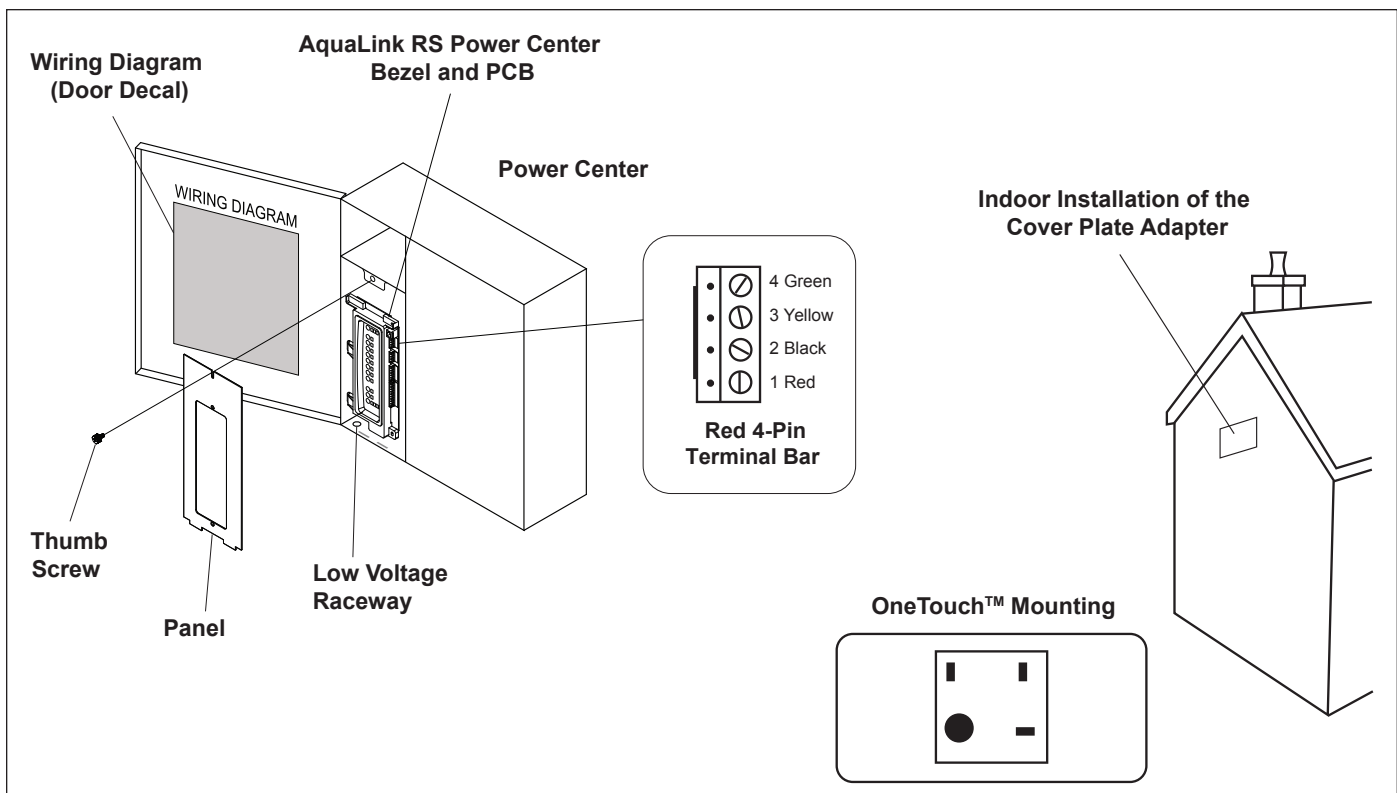
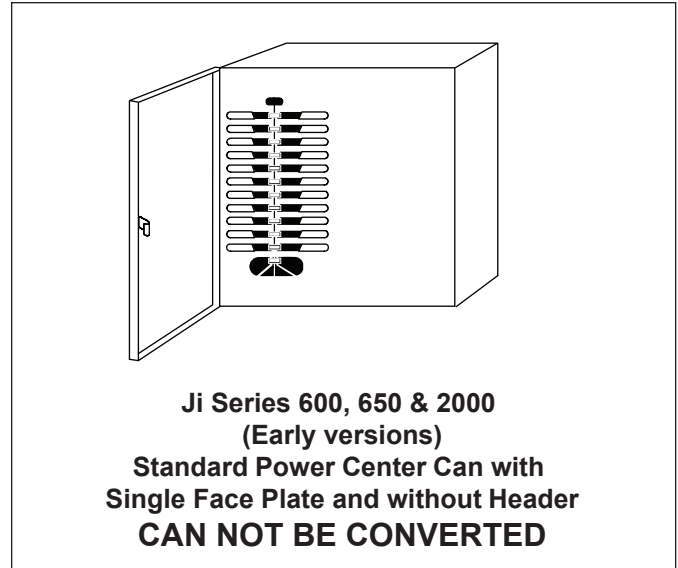


Figure 1. Power Center and Cover Mounting Plate

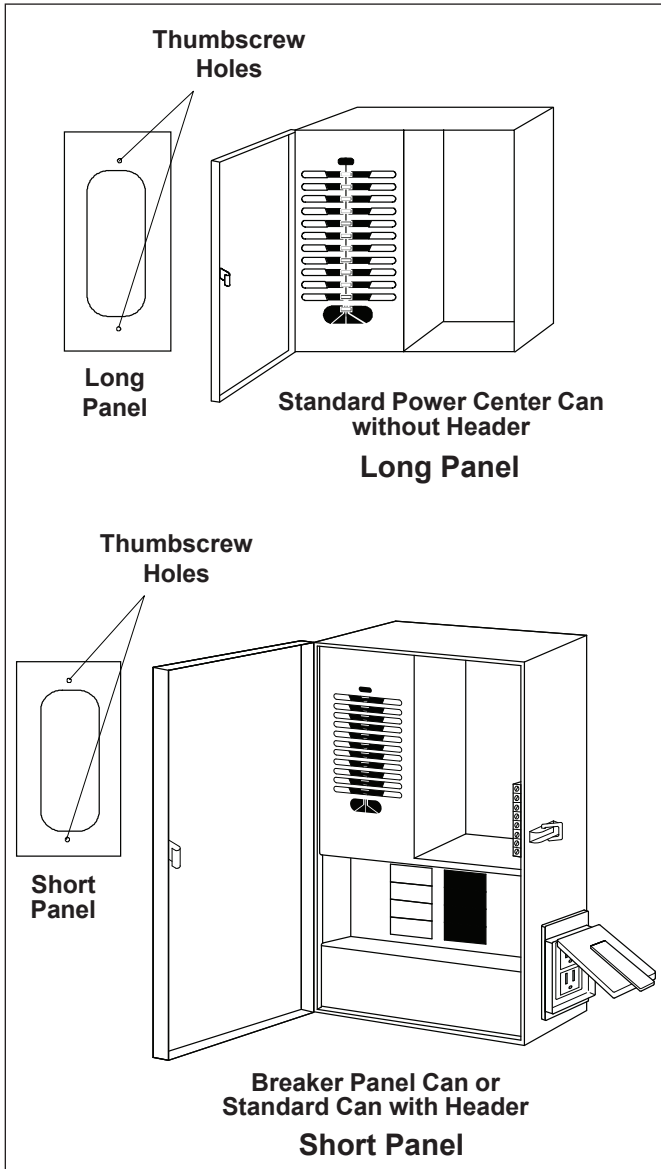
10. There are two panels for the low voltage compartment. Choose the panel that fits the power center, and secure it with the thumb screw provided with the kit. See Figure 1.
11. Turn on the power and press the override switch to service. Test each circuit, correct any errors, then press the override switch twice to move to "AUTO MODE". Go to the indoor controller and set time, date, and program equipment settings (Refer to RS Installation Manual for Programming).

**NOTE** If the old unit has time clock(s), remove the time clock(s) and insert black hole lugs (included).

**NOTE** If converting a Ji8000 with two-speed filter pump, order and install a two-speed relay (P/N 6796).



**Figure 3. Ji Series 600, 650, 2000 Power Centers (Early Versions)**



**Figure 2. Type of Power Centers**

## Control System Equivalent Chart

| Existing Control System   | AquaLink® RS Equivalent       | Conversion Part # |
|---|-------------------------------|-------------------|
| Ji2000  | AquaLink RS8 Pool/Spa Combo   | 7092              |
| Ji4000  | AquaLink RS8 Pool/Spa Combo   | 7092              |
| Ji8000  | AquaLink RS8 Pool/Spa Combo   | 7092              |
| Ji600 or Ji650  | AquaLink RS8 Pool or Spa Only | 7095              |
| Ji1000 or Ji1500  | AquaLink RS8 Pool or Spa Only | 7095              |
| AquaLink 2 (Pool/Spa Combo)   | AquaLink RS8 Pool/Spa Combo   | 7092              |
| AquaLink 4 (Pool/Spa Combo)   | AquaLink RS8 Pool/Spa Combo   | 7092              |
| AquaLink 8 (Pool/Spa Combo)   | AquaLink RS8 Pool/Spa Combo   | 7092              |
| AquaLink 2 (Pool Only/Spa Only)   | AquaLink RS8 Pool or Spa Only | 7095              |
| AquaLink 4 (Pool Only/Spa Only)   | AquaLink RS8 Pool or Spa Only | 7095              |
| AquaLink 8 (Pool Only/Spa Only)   | AquaLink RS8 Pool or Spa Only | 7095              |
| AquaLink 10 Dual Equipment  | AquaLink RS2/6 Dual Equipment | 7096              |
| AquaLink RS4 (Pool/Spa Combo)   | AquaLink RS6 Pool/Spa Combo   | 7170              |
| AquaLink RS4,6 (Pool/Spa Combo)   | AquaLink RS8 Pool/Spa Combo   | 7171              |
| Anthony-AnthoTouch 2020 (combo)   | AquaLink RS8 Pool/Spa Combo   | 7092              |
| Anthony-Antho Touch 2040 (combo)  | AquaLink RS8 Pool/Spa Combo   | 7092              |
| Anthony-Antho Touch 2080 (combo)  | AquaLink RS8 Pool/Spa Combo   | 7092              |
| Anthony-Antho Touch 2020 (only)   | AquaLink RS8 Pool or Spa Only | 7095              |
| Anthony-Antho Touch 2040 (only)   | AquaLink RS8 Pool or Spa Only | 7095              |
| Anthony-AT 100  | AquaLink RS8 Pool/Spa Combo   | 7092              |
| Anthony - AnthoTouch 2006   | AquaLink RS8 Pool or Spa Only | 7095              |
| Anthony - AnthoTouch 2010 or 2015   | AquaLink RS8 Pool or Spa Only | 7095              |
| Blue Haven® - BH 2100   | AquaLink RS8 Pool/Spa Combo   | 7092              |
| Blue Haven - BH 4100  | AquaLink RS8 Pool/Spa Combo   | 7092              |
| Blue Haven - BH 8100  | AquaLink RS8 Pool/Spa Combo   | 7092              |
| Paddock® - AquaTouch (combo)  | AquaLink RS8 Pool/Spa Combo   | 7092              |
| Paddock - AquaTouch (pool only)   | AquaLink RS8 Pool or Spa Only | 7095              |
| COMPOOL®2020, 3830  | AquaLink RS2/6 Dual Equipment | 7376              |
| COMPOOL100 Spa Control,<br>COMPOOL1000, COMPOOL3810/S,<br>COMPOOL3810/SL  | AquaLink RS8 Pool or Spa Only | 7425              |
| COMPOOL100, COMPOOL1000P,<br>COMPOOL3800/T,<br>COMPOOL3400/T,<br>COMPOOL3600/T,<br>COMPOOL2000, COOMPOOL3000,<br>Swim Master, Time Master | AquaLink RS8 Pool/Spa Combo   | 7426              |

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Paddock® is a registered trademark of Paddock of California, Inc.

Compool® is a registered trademark of Pentair, Inc.