

Jandy® AquaPure® Ei™ Series Replacement Kits

for Models APURE35PLG/35PLGC

⚠ WARNING

FOR YOUR SAFETY - For anything other than the routine cleaning and maintenance described in this manual, this product must be 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 exists. In the event no such state or local requirement exists, the installer or 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 Parts:

R0511100 -- R-Kit, Power Pack, 120V Plugged Version

1. Introduction

This document gives instructions for replacing the power pack on the Jandy AquaPure Ei chlorine generating device.

The instructions were written with safety as the priority and must be followed exactly. Not following the written procedure or taking shortcuts may increase the risk of personal injury. Read through the instructions completely before starting the procedure.

For technical assistance, please contact our Technical Support Department at 1.800.822.7933.

2. Ordering Information

To order or purchase parts for the Jandy AquaPure Ei chlorine generating device, contact your nearest Jandy dealer or distributor. If they cannot supply you with what you need, call Zodiac Pool Systems, Inc. at 1.800.822.7933. In Canada call Zodiac Pool Systems Canada, Inc. Customer Support Department at 1.888.647.4004.

3. Replacing the Power Pack

⚠ WARNING

Disconnect power to the system by unplugging the power pack before performing this procedure to avoid risk of electric shock which can result in property damage, severe injury or death.

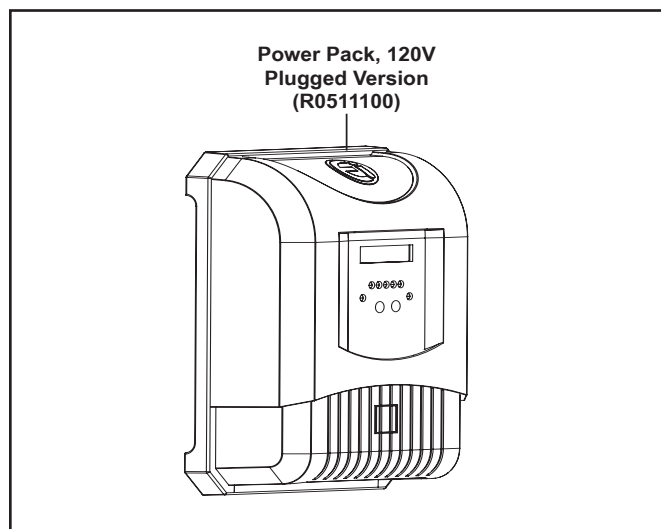


Figure 1. Power Pack R-Kit

A. Replacing the Power Pack (Plugged Version)

1. Ensure that all power to the power pack and the controller is disconnected by unplugging the power pack from the power source.
2. Unplug the flow switch cable.
3. Remove the terminal cap from the cell and unplug the cell leads.
4. If the power pack is wired to an AquaLink® RS Control System or PDA, see Section 4 to disconnect the wiring.
5. Disconnect the bonding wire from the power pack (see Figure 4).
6. Once all cables have been unplugged and disconnected, remove the power pack from the wall and replace with the new power pack.
7. Securely connect the cell leads to the like colored terminals (see Figure 2).

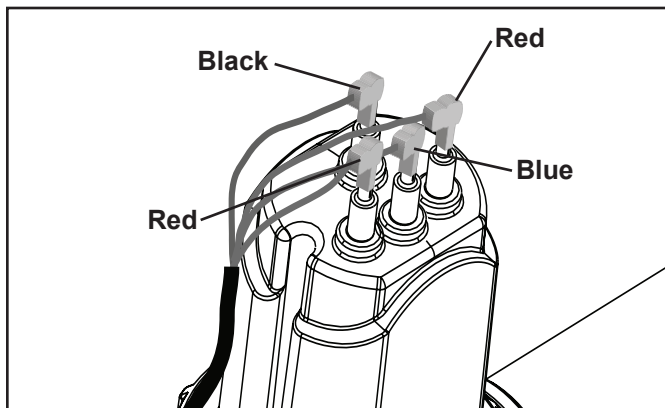


Figure 2. Connecting Cell Leads

8. Reattach the terminal cap on the cell.
9. Plug the flow switch cable into the power pack (see Figure 3).

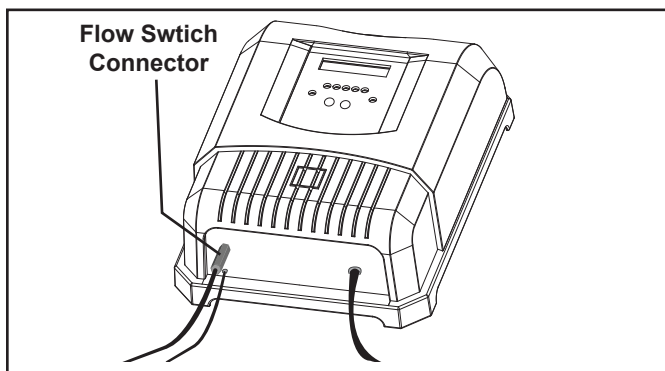


Figure 3. Flow Switch Connector

10. Attach the bonding wire to the bonding lug located on the bottom of the chassis backplate on the power pack (see Figure 4). Verify that the second end of the bonding wire is attached to a common bonding point such as the pool pump or heater (see Figure 4).

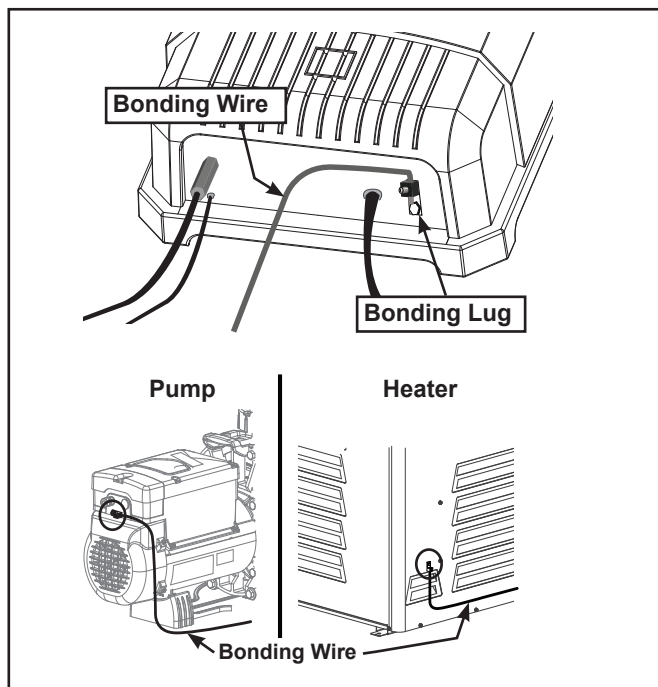


Figure 4. Bonding Wire

11. If necessary, wire the power pack to the AquaLink RS Control System or PDA (see Section 4.C- 4.D).
12. Plug the power pack into the electrical outlet. Turn the power pack on (see Figure 5).

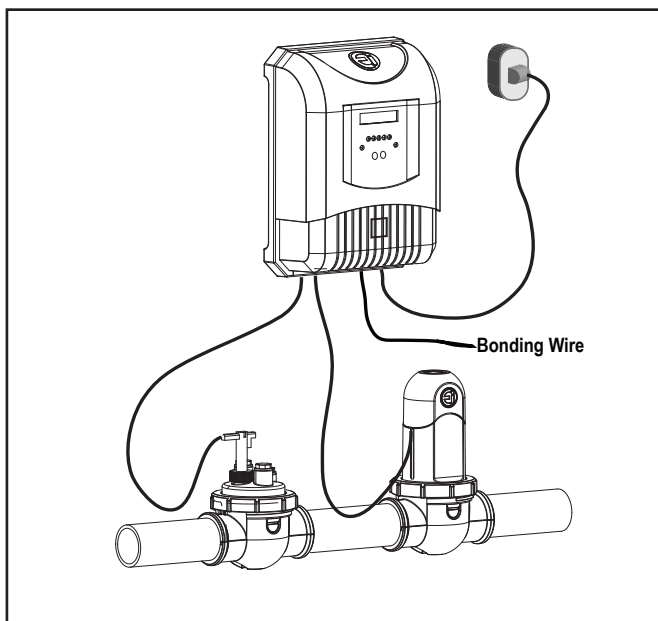


Figure 5. Power Pack Installed

4. Power Pack Wiring Instructions

WARNING

When using electrical products, basic precautions should always be followed, including the following:

- **DANGER: RISK OF ELECTRIC SHOCK WHICH CAN RESULT IN SERIOUS INJURY OR DEATH.** Before attempting installation or service, ensure that all power to the device is disconnected/turned off at the circuit breaker. Connect only to a circuit protected by a ground-fault circuit-interrupter (GFCI).
- Grounding is required. The unit should be serviced by a qualified service representative and should be properly grounded and bonded.
- Install to permit access for servicing.
- Please read all cautions and safety instructions in the Important Safety Instructions section of the Jandy AquaPure® Ei™ Series owners manual (H0335900 or H0342400). **Before attempting any electrical wiring, be sure to read and follow safety instructions. Wiring should only be attempted by a qualified professional.**

A. Connection to an AquaLink® RS Control System or PDA (Optional)

The Jandy AquaLink RS or PDA is a multi-function pool controller which can fully control the function of the Jandy AquaPure Ei chlorine generating device. Adjustment of the chlorine production rate can be controlled from the main menu of the Jandy AquaLink RS or PDA. The AquaLink RS or PDA offers individual pool and spa settings for output percentage. Refer to the AquaLink RS or PDA Owner's Manual for more information.

NOTE The Jandy AquaPure Ei chlorine generating device will communicate with all AquaLink models Rev. K or later.

B. Verify the Controller Type on the Power Pack is Set Correctly

Before wiring to an AquaLink RS Control System, the controller type must be set to JANDY L/M to allow communication between the power pack and the AquaLink RS Control System. The default controller type setting on the power pack is Jandy L/M. Follow the instructions below to verify the controller type is set correctly.

NOTE The controller type must be set correctly before making the wiring connection between the power pack and the AquaLink, otherwise the power pack may be locked out of the AquaLink.

To verify the controller type is set correctly:

1. Apply power to the power pack.
2. Wait for the start-up sequence to complete.
3. Press and hold the OUTPUT button for approximately four (4) seconds. After four (4) seconds, a controller type will be displayed on the screen.
4. Verify that the JANDY L/M controller type appears on the display. If the controller type is not set to JANDY L/M, keep the OUTPUT button pressed to toggle through the list of controllers. Each controller will be displayed on the screen for two (2) seconds. Release the OUTPUT button when JANDY L/M appears on the display.

C. Wiring to the AquaLink RS Control System or PDA

1. Ensure that all power to the power pack and the controller is disconnected/turned off at the circuit breaker.
2. Remove the screws attaching the cover to the back plate and prop the cover up to expose the terminals (see Figure 6).

NOTE: Be careful not to pull the ribbon cable that is connected to the Power Supply and the Cover.

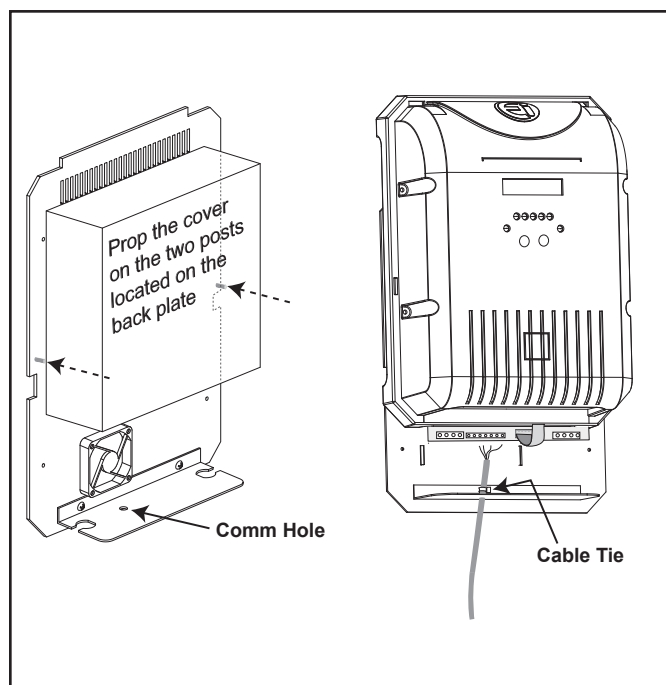


Figure 6. Accessing and Wiring to the Power PCB

3. Remove the white cap covering the comm hole (see Figure 6).
4. Thread the controller cable through the hole. A grommet may be necessary depending on the size of the cable being used.
5. Attach a cable tie to the controller cable as shown (see Figure 6).
6. The Jandy AquaLink® RS or PDA and power pack use a four (4) wire connection to communicate and can be wired up to 500 ft (152.4 m) apart. Any outdoor rated four conductor cable, minimum 22 AWG (0.33 mm²), can be used. Locate the appropriate screw terminals on the circuit board and wire the power pack to the AquaLink RS or PDA red 4-pin terminal bar (see Figure 7).

NOTE The screw terminals on the AquaLink RS or PDA are removable to aid in installation.

D. Testing the Connection

Once the power pack has been wired to the AquaLink RS Control System or PDA, follow these steps to test the connection:

1. Apply power to the power pack and the AquaLink RS Control System or PDA.
2. Wait about 20 seconds. If the connection was successful, a **TF** symbol will appear in the top right corner of the power pack display.

NOTE If the power pack does not connect to the controller, turn the power off to both devices and repeat steps 1 and 2. If the power pack still does not connect to the controller, re-check the wiring connections (see Figure 7) and the controller setting on the power pack (see Section 4.B).

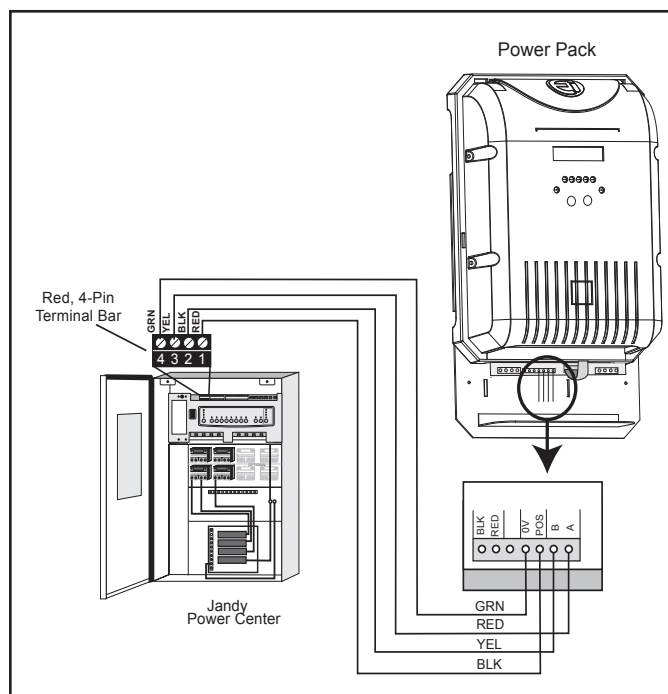


Figure 7. Communication Wiring between Power Pack and AquaLink RS Control System or PDA Network