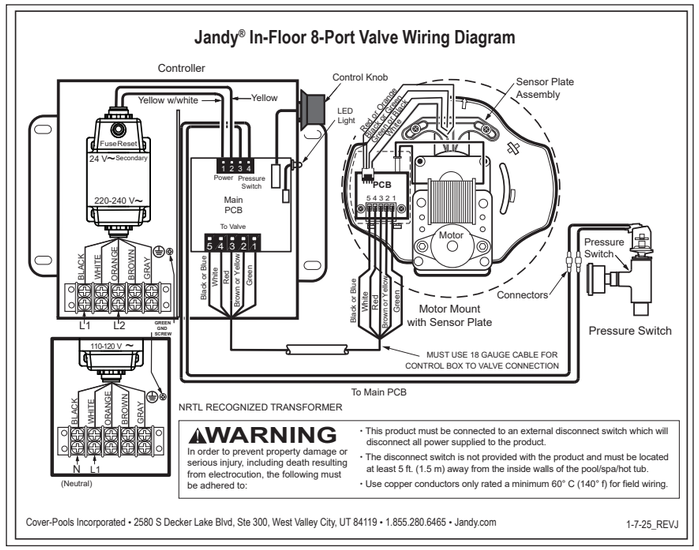
LED Indicator

Normal Operation:

1. LED flashes 3 times.
2. Remains solid during motor rotation.
3. Motor stops when sensor senses opening.



LED Lighting Troubleshooting Chart

Light Condition	Possible Cause	Troubleshooting
No Light	Motor not running	OK (normal dwell between ports)
		OK (rotary switch set to pause)
		OK (normal cycle w/ pump off)
	No power to system	Check fuse reset button on transformer
		Check for 120 VAC or 240 VAC at power supply
		Check wiring at power supply
		Check for 24 VAC to 29 VAC from transformer to PCB
		Replace transformer if it is not producting 24 VAC to 29 VAC
	Pressure switch malfunction	Check pressure switch and its wiring - see 3 fast blinks then off
	Faulty LED (motor turns normally)	Check for 1.7 VDC at plug
		Inspect LED wiring back to plug - reseat plug
		Replace bulb
	Damaged controller PCB Board	Only after checking all of the above — replace PCB
No Light (inconsistent dwell times)	Motor stops and goes for different lengths of dwell time	Replace 6-position rotary switch
3 fast blinks then off	Pressure switch malfunction	Check pressure at guage ensure valve is receiving water from pump
		Unlock and increase pressure needed to activate switch
		Check pressure switch and its wiring - use jumper for PCB testing only
		Replace pressure switch
Solid (3-5 secs at a time)	Motor running	OK
Solid (3-5 secs at a time) and off 15 seconds no matter where the rotary switch is set	6-position rotary switch unplugged	Reseat 6-position rotary switch plug
	Faulty 6-position rotary switch	Replace 6-position rotary switch
Solid (> 5 and < 15 secs at a time)	Friction in valve slowing motor	Reduce friction with friction mitigation steps

Jandy®

Troubleshooting Guide

POWERHOUSE

8-Port In-Floor Cleaning System

⚠ WARNING

To prevent risk of electrical shock or other hazards which can result in severe injury or death, ENSURE that the pump is OFF and power to the pump is disconnected before proceeding with installation.

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, 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 may void the warranty.

Troubleshooting Jandy 8-Port In-Floor Cleaning System

Loud noise/ squealing coming from valve.

- Adjust sensor plate for proper port alignment.
- Reduce pressure.
- Check tee assembly for worn o-rings, debris, or wall damage.

Dwell time is random; starts and stops.

- Inspect sensor wheel; pushed all the way up, set screw secure, all tabs pass through sensor.
- Adjust sensor plate for proper port alignment.
- Reduce valve pressure if high.
- Replace rotary switch.
- Replace sensor.
- Replace main PCB.

Valve is filled with water.

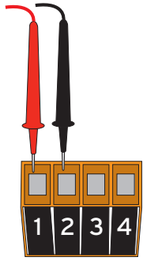
- Verify drain plug is removed and valve is not buried.
- Verify lid is secure and is not broken.
- Look for external source of water; ie sprinkler, etc.
- Check for internal leaks: outer o-rings, center shaft seal, top plate brass inserts flush. Replace.
- When motor and wiring are dry, apply power and check components for water damage.
- Replace motor if rusted or damaged by water.

Valve is skipping some but not all zones.

- Check for blinking light.
- Check that lid is on and secure.
- Inspect sensor wheel; pushed all the way up, set screw secure, wheel not bent or crooked.
- If sensor is touching or too close to sensor plate, replace sensor.
- Check wiring for shorts.
- Replace the controller PCB

Transformer tripping.

- Check power supply wiring and connections. 120-240 VDC
- Use test cable to verify integrity of burial cable.
- Replace cable.
- With test cable attached, verify that tee assembly can turn.
- Replace transformer.

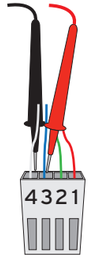


Control Box Main PC Board

4-wire Orange Power Harness

Pin 1 to 2 from transformer
24-29 VAC

Pin 3 to 4 from pressure switch. Unplug and check continuity in the wires and switch if supply pipe is pressurized. No continuity if you don't have pressure.

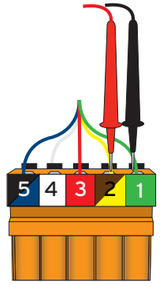


Sensor PC Board

4-wire White Sensor Harness

Pin 1 to 2 to sensor
1.1 to 1.4 VDC from sensor PCB

Pin 3 to 4 from sensor.
Test during first 15 seconds after restarting PCB
0.03 VDC when reflecting off sensor plate 4-5 VDC when sensor is looking through square hole on sensor plate

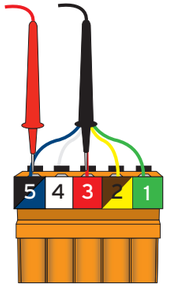


5-wire Control Box Main PCB Harness

Pin 1 to 2 for motor
24-29 VAC to sensor PCB.
Test during first 15 seconds while light is solid

Pin 3 to 5 to sensor PCB
11-16 VDC

Pin 5 to 4 from sensor PCB
Test during first 15 seconds after restarting PCB
4-5 VDC when reflecting off sensor plate
0 VDC when hole in plate is in front of sensor



5-wire Orange Sensor PCB Harness at the valve

Pin 3 to 5 to sensor PCB
11-16 VDC

Pin 1 to 2 for motor
24-29 VAC from main PC Board when light is solid. Test during first 15 seconds

Pin 5 to 4 to main PCB
Test during first 15 seconds after restarting PCB
4-5 VDC when reflecting off sensor plate
0 VDC when hole in plate is in front of sensor

LED turns on for 15 seconds; Starts flashing after shutdown and restart.

- Check that lid is on the valve to block light.
- Check all wiring connections at controller PCB, motor & sensor.
- Verify that proper 18 gauge cable is installed.
- Remove motor plate from valve.
- Verify reflector plate is fully seated and set screw is aligned and secure.
- Check sensor cleanliness or damge. Clean or replace.
- Set motor into valve so key is not engaged to tee, replace lid, turn on system and check for motor movement for 15 seconds while light is solid.
- Does motor move and light turn on for 3-4 seconds then pause at the next zone for time selected on control box?
  - Yes
    - Check top plate for water or calcification.
      - Yes
        - Replace O-ring kit and dry top plate. Replace top plate if calcified.
      - No
        - Replace sensor.
  - No
    - Check 24-29 VAC from transformer through control board to sensor board and up to motor.
      - Yes
        - Use test cable to verify burial cable integrity.
          - Yes
            - Replace sensor PCB
          - No
            - Trim outer vertical edge of wall inserts to reduce possible friction.
            - Replace startup kit.
      - No
        - Replace sensor.

LED is solid.

- Verify that PCB boards are correct: Orange connectors on both.
- Ensure rotary switch is not on the program setting.
- Replace Controller PCB

LED flashes 2 times and then stays off.

- Check pressure is over 1 PSI.
- Check that pump is turned on and all water pressure is flowing to the caretaker valve.
- Check the pressure sensor is wired into the control board.
- Test pressure sensor between pins 3-4 on the control board.
- Replace pressure sensor.

LED is not lit.

- Is the motor turning?
  - Yes
    - Check if LED plug is seated correctly.
    - Measure light voltage with multimeter. 1.7 VDC
      - No
        - Replace light.
  - No
    - Make sure system is not in dwell time between ports or in pause mode, circulation pump is running.
    - Check fuse/ reset button on transformer.
    - Check circuit breaker at main supply.
    - Check for miswired or faulty pressure switch.
    - Check wiring from power supply. 120-240 VDC
    - Measure power from transformer to board. Replace transformer.
    - Replace controller board.