

# Inflatable Spa User Manual



Read Carefully Before Use  
Keep for Future Reference

# Disclaimer

Read this disclaimer completely and carefully before proceeding with the rest of the manual content.

## 1. **As-Is**

This CO-Z product is sold 'as is' and without any express or implied warranties, including but not limited to the implied warranties of merchantability and fitness for a particular purpose.

## 2. **Product Modifications**

Any modifications or alterations to CO-Z products void any warranties and may result in damage or injury. CO-Z shall not be liable for any damages resulting from such modifications or alterations.

## 3. **Compliance with Laws**

Customers shall be liable for ensuring that the use of CO-Z products complies with all applicable laws and regulations in their respective jurisdictions. CO-Z assumes no responsibility for any violations of laws or regulations resulting from the use of CO-Z products.

## 4. **Correct Use**

Always use CO-Z products only as directed in the accompanying manuals. Failure to follow instructions may result in injury or damage.

Always ensure the assembly, installation, operation, maintenance, or repair of CO-Z products is carried out by a competent person.

Always make maintenance regularly throughout CO-Z products' lifecycles; you have the liability to keep the products operating as intended.

Always wear appropriate protective gear.

## 5. **Third-Party Products**

CO-Z shall not be liable for any damages or losses resulting from the use of third-party products in conjunction with CO-Z products. Customers shall refer to the third-party's guidelines or/and warranties (if any) for any third-party products used.

## 6. **Limitation of Liability**

CO-Z shall not be liable for any direct, indirect, punitive, incidental, special, or consequential damages to property or life, whatsoever arising out of or connected with the use or misuse of CO-Z products. In no event shall CO-Z's liability exceed the value of the products sold.

This disclaimer states the entire obligation of CO-Z with respect to CO-Z products. If any part of this disclaimer is determined to be void, invalid, unenforceable, or illegal, including but not limited to the warranty disclaimers, liability disclaimers, and liability limitations set forth above, the invalid or unenforceable provision will be deemed superseded by a valid and enforceable provision that most closely matches the intent of the original provision and the remainder of the agreement shall remain in full force and effect.

# Contents

<b>Safety Information</b> .....	<b>1</b>
General Safety Instructions .....	1
Electrical Safety Instructions .....	1
Water Safety Instructions.....	2
Heat Safety Instructions .....	2
<b>Specifications</b> .....	<b>3</b>
<b>Product Diagram</b> .....	<b>3</b>
Overview.....	3
Control Panel.....	4
<b>Installation</b> .....	<b>5</b>
<b>Operation</b> .....	<b>8</b>
<b>Maintenance</b> .....	<b>10</b>
General Care .....	10
Water Purity.....	10
Deflation and Storage.....	10
Caulking.....	11
Control Panel & Electric Pump Removal .....	11
<b>Troubleshooting</b> .....	<b>14</b>
<b>Disposal</b> .....	<b>15</b>



# Safety Information

## DANGER!

### General Safety Instructions

- Consult your primary care physician before making use of this spa. Do not use this spa without specific approval from your physician if you are pregnant or potentially pregnant, obese, or have a history of heart disease, abnormal blood pressure, or diabetes.
- Improper assembly and/or operation may result in death and/or severe personal injury and property damage. Follow **ALL** instructions carefully and contact customer service or a local contractor if any point is confusing, too difficult for you to do on your own, or requires special modification for your home. Keep these instructions for future use and provide them with the spa if it is ever given or sold to a third party.
- **ONLY** use this spa in full compliance with all applicable local and national laws and standards. In particular, permanent connection to fixed wiring or protective fencing may be required in your area.
- **DO NOT** allow children or persons with impaired physical or mental capabilities—particularly those insensible to heat or pain in their extremities—to use the spa without close supervision at **ALL** times. Do not allow pets or children under the age of 8 to use the heated spa at all.
- **ALWAYS** ensure at least one person present is familiar with life-saving procedures for drowning and heat exhaustion and have at least one phone accessible for use in case of emergencies. Seek out classes in such procedures from local authorities or charities if necessary.
- **DO NOT** operate this spa if any component is missing, damaged, or shows signs of malfunction. Repair or replace problematic components before further use. Always fully replace any damaged power cords. Never replace any parts with nonidentical ones.
- **DO NOT** leave this spa unattended during use.
- **ALWAYS** securely cover and lock the spa during heating and between uses to prevent unauthorized use, especially by children.

### Electrical Safety Instructions

- **ONLY** use this spa with stable and compatible grounded power sources equipped with a ground fault circuit interrupter (GFCI) or residual-current device (RCD) rated to trip at 30 mA or less. Do not use with 3-to-2 prong adapters or ungrounded extension cords. Do not use with an external switch, timer, or circuit regularly turned on and off by your utility.
- **DO NOT** use this spa while the power cord or outlet is wet or when it is raining. Never install it in another body of water. Apart from the waterproof control panel, never touch any electrical component with wet hands or allow them to become wet during use. Allow time for wet components to dry completely before further use.
- Ensure all electrical outlets and exposed electrical connections are at least 10 feet (3 m) away from the spa. Do not use any charging or extension cords closer than this distance.
- Electrical devices and components not specifically designed to use safety voltages below 12V **MUST** be entirely inaccessible to any person in the spa. Electrical transformers, junction boxes, hardwired switches, televisions, lights, telephones, etc. should be at least 6'7" (2 m) away at all times. **NEVER** bring a charging cell phone near the spa and never allow any electrical device to be placed or used in such a way that it might fall into the water under **ANY** circumstance.
- Install this spa at least 6'7" (2 m) away from all conductive metal surfaces to reduce the risk of electric shock. Any metal surface closer than this **MUST** be permanently bonded to a dedicated terminal box with a solid copper conductor at least 8 gauge (3.3 mm) thick. Never allow any metal surface to touch the spa's water or its splash area under **ANY** circumstance.

- The distances described above are absolute and not limited by any walls, partitions, or other obstacles. Maintain such minimum distances at all times in all circumstances.
- **ALWAYS** fully disconnect this spa from power before undertaking any cleaning, maintenance, or repair.

## Water Safety Instructions

- **ONLY** install this spa on firm, flat, nonslip surfaces that can bear its full filled weight. Allow for ample additional support for the weight of the bathers and other items. The surface must be impervious to damage from moisture, and the surrounding area must be able to handle the expected humidity created by the heated water. If you are installing this spa outdoors, carefully remove all rocks and other sharp objects from the area.
- An adequate drainage system **MUST** be provided to safely deal with any overflow and to permit easy emptying of the spa, even if the spa is set up outdoors.
- **DO NOT** set up or leave the spa out in temperatures below 40°F (4°C). Do not provide power or turn on the spa if there is any possibility water in its lines has frozen.
- **NEVER** provide power or turn on the spa if the water level is below the minimum fill line. Always add more water first. Running the system dry or with insufficient water **WILL** cause malfunctions and void any warranty stated or implied.
- **ALWAYS** open the spa's cover before activating its jets.
- **DO NOT** run or allow others to run in the area around the pool.
- **DO NOT** jump or dive into the pool or allow others to do so.
- **DO NOT** allow the water to become dirty or stagnant. Replace the water regularly, but do not run the filtering system for more than 48 hours at a time. If you will use tap or hose water to fill your spa, filtering the water before use to prevent lime scaling is recommended. Similarly, do not use chemical purifiers that include calcium ions, which can also create scale.
- **ALWAYS** add chemicals to the water carefully. Never add water to concentrated chemicals.
- Active oxygen disinfectants are generally safe for cleaning the spa. **HOWEVER**, high concentrations or prolonged exposure can cause skin irritation, dryness, or even burns.
- **DO NOT** use bath salts or oils in the spa. All such products will damage the spa and your water quality, and some are capable of creating chemical burns or poison gas in combination with chlorine and other common chemicals.

## Heat Safety Instructions

- Adequate ventilation **MUST** be provided to safely deal with the expected heat and humidity.
- **ALWAYS** check the water's temperature before entering the spa. Healthy adults should not enter the spa if the temperature exceeds 104°F (40°C). Children, pregnant or possibly pregnant women, and persons using some medications should only use lower temperatures at the direction of their physicians to avoid risk of burns, heart arrhythmia, and miscarriage.
- **NEVER** add preheated water hotter than 104°F (40°C) to the spa. **NEVER** use this spa for more than ten minutes at a time at its maximum heat. **IMMEDIATELY** leave the spa if at any point you become uncomfortable or drowsy.
- **DO NOT** consume drugs, alcohol, or cognition-impairing medication while using this spa. Use of such substances in a spa greatly increases the risk of hyperthermia, a significantly elevated blood temperature. Symptoms include dizziness, drowsiness, insensitivity to heat, loss of coordination and focus, and sudden and uncontrollable loss of consciousness. This risks permanent health damage and accidental drowning, as well as miscarriage in pregnant women.
- Do not run the heater for more than 48 hours at a time.

# Specifications

Model	PH050013		PH050017		PH050018		
Capacity	4 Adults		4 Adults		6 Adults		
Volume	158 gal.	600 L	211 gal.	800 L	264 gal.	1000 L	
Diameter	Inner	45 in. / 114 cm	55 in. / 140 cm	68 in. / 172 cm	68 in. / 172 cm	172 cm	
	Outer	61 in. / 154 cm	71 in. / 180 cm	82 in. / 208 cm	82 in. / 208 cm	208 cm	
	Jets	0.12 in. / 3 mm	0.12 in. / 3 mm	0.12 in. / 3 mm	0.12 in. / 3 mm	3 mm	
	Drain Tube	1.2 in. / 3.1 cm	1.2 in. / 3.1 cm	1.2 in. / 3.1 cm	1.2 in. / 3.1 cm	3.1 cm	
Height	25.6 in. / 65 cm	25.6 in. / 65 cm	25.6 in. / 65 cm	25.6 in. / 65 cm	25.6 in. / 65 cm	65 cm	
No. of Jets	120		120		130		
Input Power	110–120 V~ 60 Hz		110–120 V~ 60 Hz		110–120 V~ 60 Hz		
Rated Power	Jets	600 W		600 W		600 W	
	Heater	1350 W		1350 W		1350 W	
	Filter	30 W		30 W		30 W	
Max. Temperature	104°F / 40°C	104°F / 40°C	104°F / 40°C	104°F / 40°C	104°F / 40°C	40°C	
Filtration Rate	6 gpm / 23 L/min.	6 gpm / 23 L/min.	6 gpm / 23 L/min.	6 gpm / 23 L/min.	6 gpm / 23 L/min.	23 L/min.	
Power Cord Length	10 ft. / 3.3 m	10 ft. / 3.3 m	10 ft. / 3.3 m	10 ft. / 3.3 m	10 ft. / 3.3 m	3.3 m	
Net Weight	46 lb. / 21 kg	46 lb. / 21 kg	49 lb. / 22 kg	49 lb. / 22 kg	53 lb. / 24 kg	24 kg	

# Product Diagram

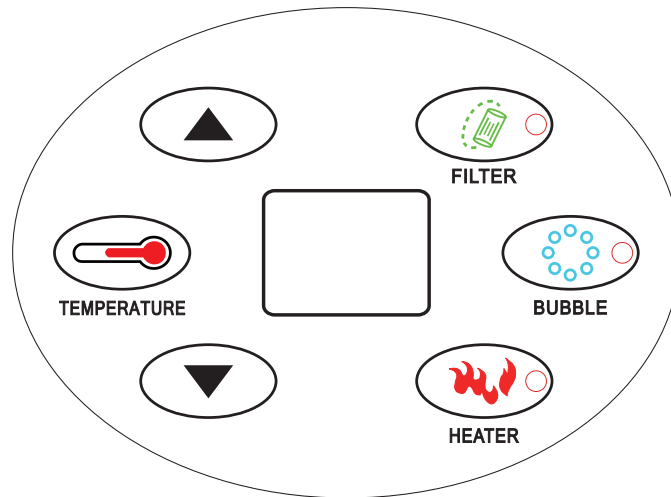
## Overview



Item	Name	Qty.
A	Inflatable Spa with Electric Pump	1
B	Spa Cover	1
C	Air Hose	1
D	Filters	2
E	Filter Covers	2
F	Wrench	1

Item	Name	Qty.
G	Keys	2
H	Mat	1
I	5/8" Hose Connector	1
J	Patches	2
K	Drain Plug	1

## Control Panel



**FILTER:** This button activates the spa's water circulation, repeatedly passing its water through the filter cartridge. The button's indicator light will let you know the system is active. Press the button again to deactivate the filter system when you are finished.



Never activate the spa if the water is below the marked minimum level.

**HEATER:** This button activates the spa's heating system, which requires the circulation of the water through the filter system. The filter system will automatically activate if it is not already on when the heater is started. The button's indicator light will let you know the system is active. Press the button again to deactivate the heating system when you are finished and separately deactivate the filter system if you desire.



This spa's heating system is primarily a means of maintaining your water's temperature. The heating system can only warm a completely full spa at 2–4°F (1–2°C) per hour. Adding preheated water to begin use is highly recommended, but such water should never exceed 104°F (40°C).

**TEMPERATURE:** Press this button after the heater has been activated to set the spa's target temperature. The control panel display will begin to flash, showing that the system is waiting for your adjustment.



The spa's default temperature is 104°F (40°C) but remember to lower this if you will be staying in the spa for longer than ten minutes at a time. Also lower the temperature for children, pregnant or potentially pregnant women, and some others. (See Safety Information above.)

▲ and ▼: Press these buttons after hitting **TEMPERATURE** to raise or lower the spa temperature. Once the new temperature is set, the spa will return to displaying the actual temperature and begin heating the water to reach or maintain your target temperature. When this temperature has been reached, the spa will pause heating until it detects that the water is 3.6°F (2°C) below its target.

**BUBBLE:** Press this button to activate the spa's jets for up to 20 minutes. The button's indicator light will let you know the system is active. Press the button again to deactivate the jets early. This button is also used to inflate the spa (see below).



After the jets have been running for 20 minutes, the system will stop and lock out commands to restart for a 10 minute cooling period. When this time has passed, press **BUBBLE** again to restart. Do not activate the jet system while the cover is in place.

# Installation

Here are two different ways for you to access the installation instructions: online video instructions or the written instructions below.

For online video instructions, please scan the QR code to the right.



Prior to installation, ensure that the spa's setting will be appropriate for use. It must be flat, stable, able to easily bear the weight of the fully-filled spa, resistant to high humidity, and out of direct sunlight. Adequate drainage and ventilation must be provided, and all metal surfaces and electronic devices must be kept at a suitable distance. See the Safety Information above for more details. It is the owner's responsibility to maintain the site's suitable condition at all times.

1. Remove all packing materials, being careful to keep children from playing with them. Store the original packaging through your warranty period in case of any return. Check all components and accessories for any damage during transport. If any damage is discovered, notify customer service and do not continue with installation until the spa is completely repaired.
2. Spread the spa (A) out, making sure it is right side up. It is highly recommended to set your spa on the provided mat (H) to provide a protective nonslip surface.
3. Unscrew the cap of the air outlet below the control panel. Connect the wide end of the air hose (C) to the outlet, screwing it firmly into place.



4. Unscrew the cap of the air valve at the spa's lower position. Insert the narrow end of the air hose into the valve, pressing until it becomes secure.



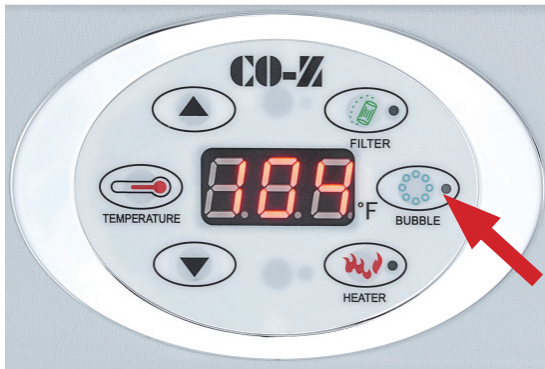
5. Connect the power cord to a stable, compatible, and well grounded power source equipped with a GFCI or RCD rated to trip at 30 mA or less. Press **RESET** (red) on the power plug and the control panel will display the detected current temperature in degrees Fahrenheit.



6. Press **BUBBLE** on the control panel to start inflation. When the spa becomes firm, press **BUBBLE** again to stop inflation. Disconnect the air hose from the air valve and seal the valve tightly by replacing and tightening its cap. Remove the hose from the air outlet and close it completely by replacing and tightening its cap.

**Note:** The spa's floor needs no separate inflation.

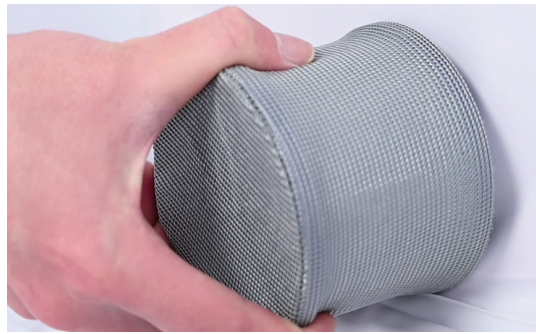
 Stay with the spa during this process. **DO NOT** allow it to overinflate.



7. Seal the drain tightly on the floor inside the spa using the drain plug (K).




8. Place the filter covers (E) over the provided filters (D) and screw the filters onto the water outlets inside the spa as shown.



9. Unscrew the cap of the drain tube underneath the spa and connect it to your location's drain with a matching hose (not included). If necessary, make such connection using the provided  $\frac{5}{8}$ " hose connector (I).



10. Fill the inflated spa with water to some level between the minimum and maximum water marks. You can use unheated water from your home's hose and wait for the system to heat it, but using preheated water is highly recommended. For repeated use of tap or hose water, separately filtering the water to prevent possible lime scaling is recommended. For best results when using the spa to heat large amounts of water, always keep the cover locked in place while the water heats. (See Step 11 for how to lock the cover.)

 Add preheated water on cool or cold days, especially when the ambient temperature is below 59°F (15°C). Never add water hotter than 104°F (40°C) to the spa.



11. If you will not immediately use your spa, unfold the spa cover (B), place it over the filled spa, buckle the bands, and lock it in place using either of the provided keys (G) as shown.



## Operation


1. Prepare the location and install the spa as described above.




It is advisable to display warnings on the spa for all potential users. A safety precaution sticker, suitable for outdoor use in humid environments, is included in the package. Before initial use, remove the release liner from the sticker and affix it to a prominent position on the spa. If needed, contact customer service for extra copies or replacements.

2. Fill the spa with water to a level between the minimum and maximum fill lines marked below the control panel. Use preheated water 104°F (40°C) or cooler or cover the spa, lock the cover, and wait for the water to heat to the correct temperature.
3. Press the **HEATER** button to activate the filtration and heating systems. The default target temperature is 104°F (40°C). Press **TEMPERATURE** and use ▲ and ▼ if you want or need to set a lower temperature. Cover the spa and lock the cover if you will need to wait for it to heat or need to leave the activated spa for any reason.
4. When the water is at your target temperature, remove the cover and enjoy your spa, activating the jets as needed with the **BUBBLE** button. Do not exceed the capacity for the spa, do not

allow children younger than 8 into the heated spa, and do not leave older children unattended at any time. Ensure they and any other users understand and observe **ALL** the rules described in the Safety Information above.

 **DO NOT** use the spa for longer than 10 minutes at a time at its highest heat settings and leave the water **IMMEDIATELY** if at any point you begin to feel drowsy or uncomfortable.


5. The filtration system does not need to be continuously active during use, but its circulation of the water is necessary for as long as the heater is active. The jets may be used as needed, but remember that they can only be used continuously for 20 minutes at a time, after which the system will lock out further use for a 10 minute rest period. Do not run the filtration or heating system longer than 48 hours continuously, and cover and lock the spa at any point when it has water but cannot be attended.
6. When you are done, you can leave the spa inflated and full of water so long as it is securely covered and locked in a suitable location out of direct sunlight without any possibility of freezing or near freezing temperatures. Be sure to use appropriate chemicals to maintain the water's safety, run the filtration system periodically to circulate everything, and change the water at least once a month. Alternatively, fully drain, clean, and dry the spa between each use.

 **NEVER** leave the spa accessible to unsupervised children or exposed to low temperatures. In temperate climates, fully drain, clean, dry, and store the spa (see below) each autumn and do not reinstall it until spring temperatures are consistently warm.

7. To drain the spa, dry your hands, turn off the spa by pressing **TEST** (yellow) on its power plug, and disconnect its power cord from power.



Remove the cap of the drain inside the spa and keep an eye on the spa as it drains. When the spa is mostly empty, dry your hands, reconnect it to power, reactivate it, press **BUBBLE**, and allow the jets to clear water from their line for at least 5 minutes. Do not run the filtration or heating system at this low water level and do not tip or angle the pool to speed draining until it is almost completely empty. When all water has drained, close the drain.

 In the event of blockage, leakage, or other problems during this process, **IMMEDIATELY** replace the cap of the drain and correct the problem(s) before continuing to drain the spa or allow time for it to air dry.

# Maintenance

## General Care

- Always disconnect the spa from power when performing any cleaning, maintenance, or repair. In particular, disconnect the spa from power while either filter is removed for cleaning or replacement.
- Wash your spa as needed using a mild soap or detergent and soft cloths. Do not use caustic chemicals, harsh abrasives, or rough brushes. Rinse thoroughly after cleaning, drain the water from rinsing completely, and dry the spa or allow time for it to air dry. Do not use soapy or rinsing water for standard operation of the spa.

## Water Purity

- The filter cartridges should last at least 168 hours of continuous use. During use, clean the filter covers and filter as needed and at least once every 84 hours of continuous use or every month, whichever comes first. Replace the filters or their covers if they become deformed or maintain any discoloration after thorough cleaning.
- The spa automatically counts down the filters' 168-hour service life for you. The error message FC will appear on the control panel display once it is time to change the cartridges. An alarm will sound and the indicator lights for **FILTER** and **HEATER** will come on but neither system will operate until you press the **FILTER** button to acknowledge the situation. Replace the current filters with identical ones as quickly as possible and thoroughly clean or replace their covers. A new countdown will begin automatically.
- If you will leave the same water in your spa for more than a day, you may wish to use pool chemicals to maintain its safety. This is discouraged and will void any warranty stated or implied. It is safer and more environmentally friendly to simply regularly drain and replace the water. If you still choose to use such chemicals, purchase a water testing kit and consult local pool supply retailers for more details. Be sure to avoid chemicals with calcium ions that can cause destructive scaling in the filtration and heating system. Generally speaking, aim to maintain a pH between 7.2 and 7.8, total alkalinity between 80 and 120 ppm, and free chlorine between 3 and 5 ppm. Lower pH may damage the spa and its components. Water and chemical safety are entirely the responsibility of the owner. If they cannot be carefully and correctly maintained, always empty and carefully clean the spa every two days or so during use.

## Deflation And Storage

1. Disconnect the spa from power. Drain all water from the spa and remove the filters as described above.
2. Dry everything or allow time for everything to air dry in the shade. Use of a wet/dry vacuum is recommended, particularly for the tubing.
3. Unscrew the **ENTIRE** air valve from the spa and deflation should begin. When the spa no longer deflates on its own, remove the remaining air by pressing down on it as you fold it neatly for storage. For best results, unfold it after it is completely flat, apply a small amount of talcum powder to the vinyl, and fold it neatly again.



4. Store your spa in the provided packaging in a cool dry location out of direct sunlight and inaccessible to children. Be sure the storage area will never reach temperatures below freezing, which can damage the vinyl, reduce the service life of your spa's components, and void any stated or implied warranty. For best results, also be careful not to place heavy items over the spa while in storage.

## Caulking

Periodically check for any punctures as you clean your spa. Look for any places where the soapy water begins to bubble from escaping air. Mark any spots for repair after the spa is dry and deflated.

Small punctures can be covered with the provided patches (J) so long as each can cover at least 1 inch (2.5 cm) in every direction from the hole. Clean, dry, and completely flatten the location around the puncture if you have not done so already. Apply a thin and even coat of suitable adhesive to the patch and then place it over the puncture. Smooth it to remove any air bubbles and bind the patch the vinyl around the puncture. Wait at least 24 hours before reinflating the spa. Again, apply soapy water around the patch and look for any bubbles caused by escaping air.

In the event of a larger puncture or damage to the seams or near the control panel, specialized repair is probably necessary. Contact customer service or a professional service before further use.

## Control Panel & Electric Pump Removal

To have a technician check or repair the electrical connections in the control panel and electric pump or service the water heater in the pump, disconnect the spa from power, drain it completely, detach the filters and other accessories, and then remove the panel and pump from the spa as follows:

1. Unscrew the covers of the water outlets and inlet on the spa's internal wall using the provided wrench (F) as shown.



2. Flip the cover around the control panel and then remove it from the spa, taking care not to damage the spa's external surface with excessive force.



3. Remove the locking nuts by hand, detach the control panel from the spa, and disconnect it from the wiring of the pump.



4. Remove the cap from the air outlet, unscrew the locking ring around it, and remove the air valve as described above.



5. Pull down the pump and find the one-way check valve. Loosen the locking bolt on the valve's clamp using a Phillips screwdriver (not included) and then disconnect the valve from the pump's tubing.



6. Carefully remove the pump from the spa.



# Troubleshooting

Possible Problem	Usual Solutions
Inflation fails.	Check for leaks on the spa, repairing any with the provided patch(es).
	Reconnect the air hose firmly to the air valve.
	Retighten the wide end of the air hose connected to the air outlet.
	Replace the air hose with a new identical one.
	Have a technician check the electrical connections in the control panel.
	Have a technician check the pneumatic system in the electric pump.
The jets do not turn on.	Heating does not work while jets are active. Press <b>BUBBLE</b> to stop the jet system or simply wait for it to automatically cease before heating reactivates.
	Have a technician check the electrical connections in the control panel.
	Have a technician check the pneumatic system in the electric pump.
The water does not heat.	Heating does not work while jets are active. Press <b>BUBBLE</b> to stop the jet system or simply wait for it to automatically cease before heating reactivates.
	Check that the water is at the proper levels.
	Check that the temperature is set correctly and wait.
	Clean or replace the water filter cartridges.
	Replace the heating element following the appendix, <b>Heating Element Replacement</b> .
	Have a technician check the electrical connections in the control panel and the components of the heating system.
The filter does not work.	Clean or replace the water filter cartridges.
	Have a technician check the electrical connections in the control panel and the voltage level of the power supply.
	Have a technician check the magnetic drive in the electric pump.
Water leaks from the spa.	Dry the area as well as possible and check for leaks, repairing any with the provided kit.
The water is dirty.	Check the filters. If they are clean, allow more time for them to work. If either is dirty or full, clean or replace it.
	Consult the instructions for your purifying chemicals. If you are in full compliance but it still fails to work, change to a different brand or kind.

Error Code	Meaning	Usual Solution(s)
FC	Filter Change Needed	If you have not already changed the filters over the last 168 hours of use, disconnect the spa from power and replace them now. Press <b>FILTER</b> to clear the error and reset the timer.
HL	High Temp. Detected	If the water is not much too hot, the spa's temperature sensor probably needs to be repaired or replaced. If the water is over 104°F (40°C), add colder water immediately to avoid damage to your spa. Take steps to never allow such conditions to recur.
OC	Open Circuit Detected	The spa's temperature sensor has probably been disconnected, producing extremely low readings. Have a technician reconnect, repair, or replace the sensor.
SH	Short Circuit Detected	The spa's temperature sensor has probably experienced a short circuit, producing extremely high readings. Have a technician reconfigure, repair, or replace the sensor.
SL	Low Temp. Detected	If the water is not much too cold, the spa's temperature sensor probably needs to be repaired or replaced. If the water is under 40°F (5°C), add hotter water immediately to avoid damage to your spa and take steps to never allow such conditions to recur.

## Disposal

Electrical products should not be disposed of with household products. In the EU and UK, according to the European Directive 2012/19/EU for the disposal of electrical and electronic equipment and its implementation in national laws, used electrical products must be collected separately and disposed of at the collection points provided for this purpose. Locations in Australia, Canada, and the United States may have similar regulations. Contact your local authorities or dealer for disposal and recycling advice.

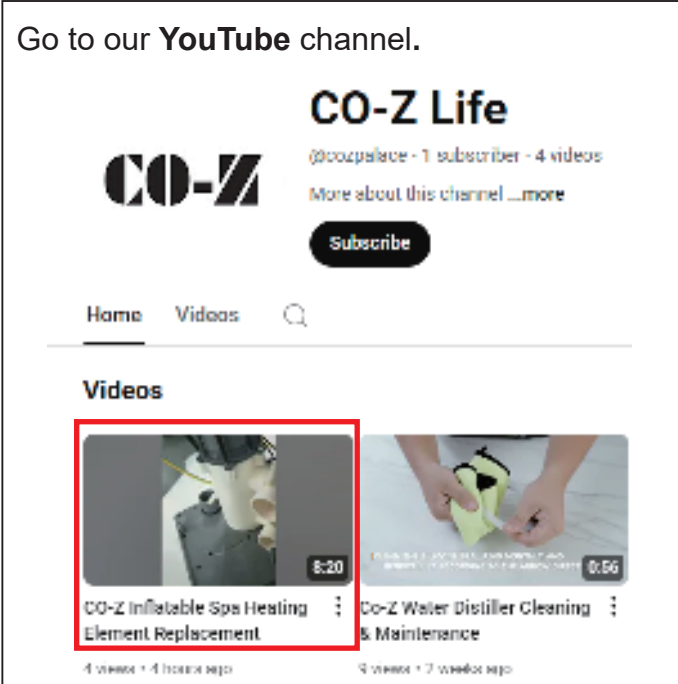



# Appendix






## Heating Element Replacement

When heating no longer functions, consider replacing the heating element of the water heater located in the electric pump.

For better understanding, you can watch the video tutorial.

<p>Go to our <b>YouTube</b> channel.</p> 	<p>Scan this QR code.</p> 
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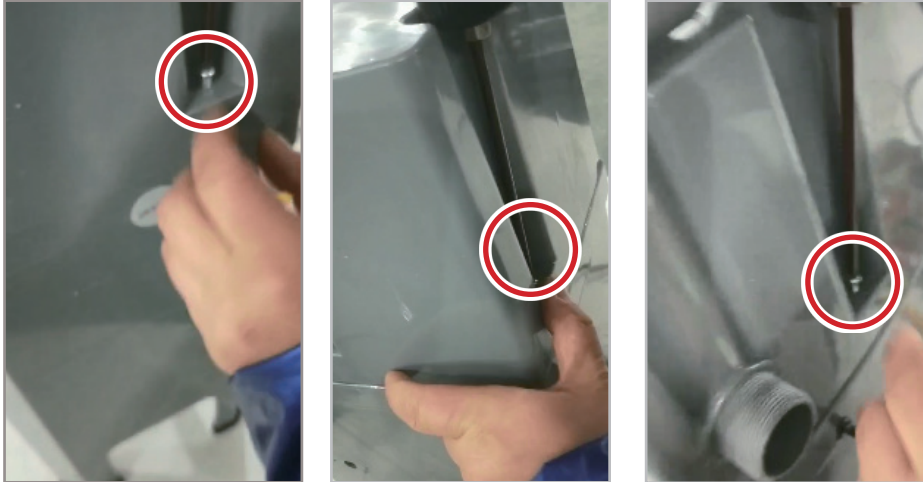
Pay attention to these safety precautions.

-  **NEVER** leave the spa connected to power during the process.
-  Remove the electric pump from the spa **BEFORE** performing your task.
-  Wear hand protection to protect your hands against sharp and pinch points.
-  **DO NOT** use **ANY** nonidentical or unauthorized replacements.
-  For best results, have trained technicians perform the replacement.

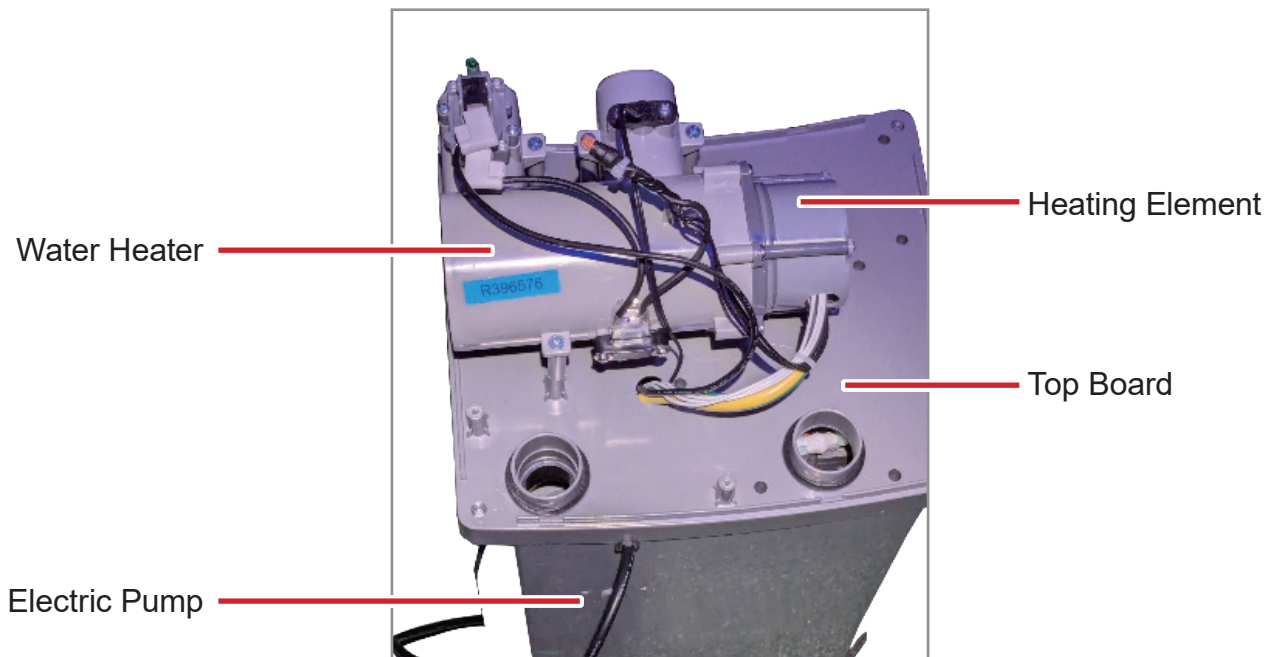
## Removal

### Removing the Upper Housing

1. Unscrew the Phillips bolt from each side of the electric pump's upper housing.

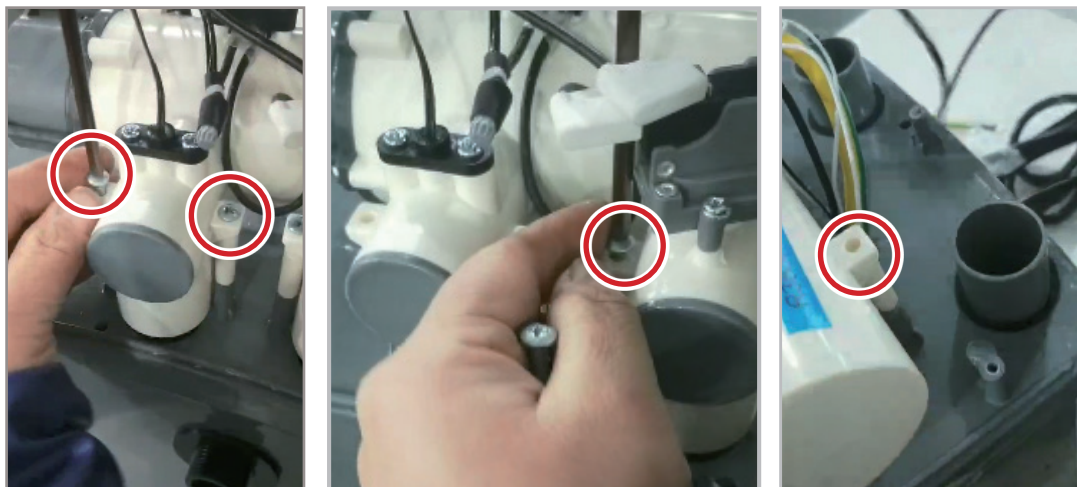


2. Remove the upper housing, exposing the water heater with the heating element on the top board.



## Disconnecting the Water Heater

Unscrew these Phillips bolts, disconnecting the water heater from the top board.

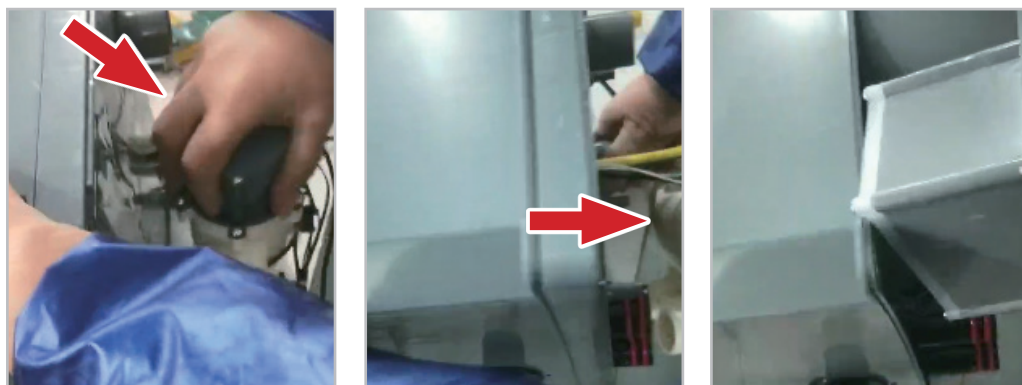


## Removing the Top Board

1. Loosen the Phillips bolts at the corners of the top board.



2. Lay down the pump and remove the top board.

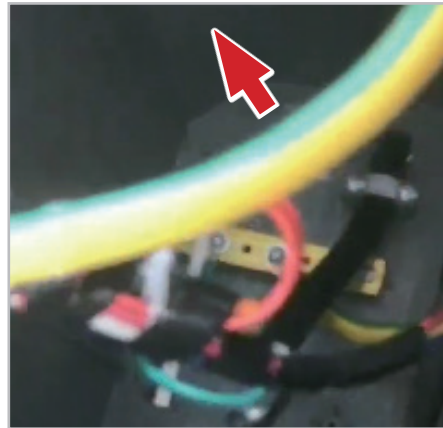


## Disconnecting the Main Power Cables

1. Place the pump right side up.



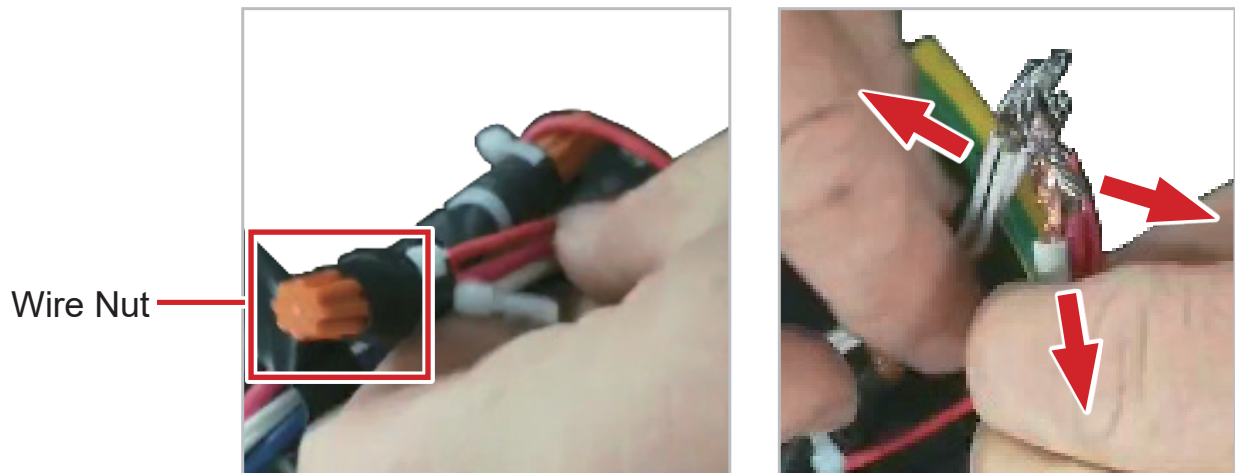
2. Unscrew the Phillips bolt from the middle power point and disconnect the **GREEN-YELLOW** cable.



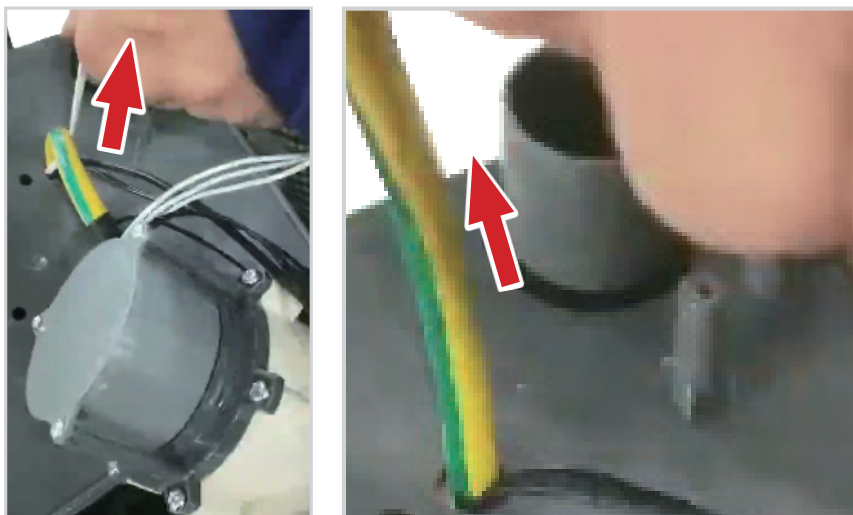
3. Remove any electrical tape and zip ties as needed.

Unscrew the wire nut and separate the **BLACK, RED, and WHITE** cables, among which some **WHITE** cables **ARE** from the heating element.

**Note: DO NOT** mix up these cables with the other set.



4. Pull the heating element's **WHITE and GREEN-YELLOW** cables out of the top board.



## Removing the Heating Element

1. Unscrew the Phillips bolts that connect the heating element to the water heater.



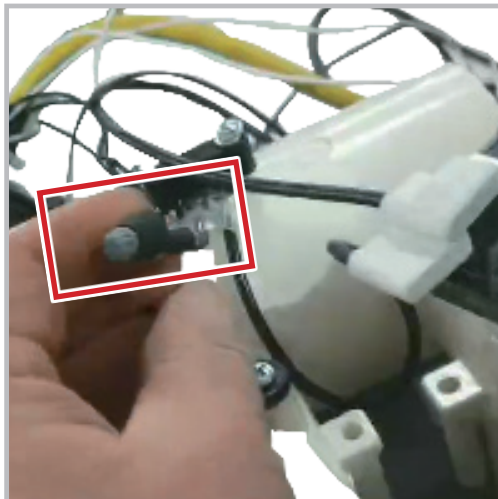
2. Pull the heating element away from the water heater.



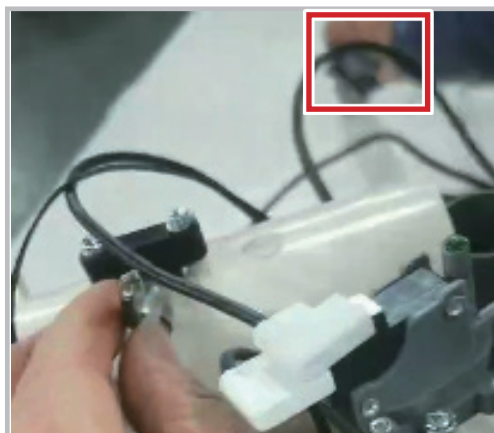
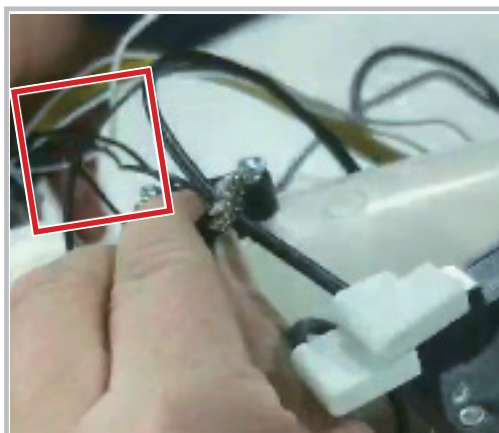
## Disconnecting the Pressure Switch Cables

1. Remove any electrical tape and zip ties as needed.

Unscrew the wire nut from these **BLACK** cables, one of which comes from the heating element.



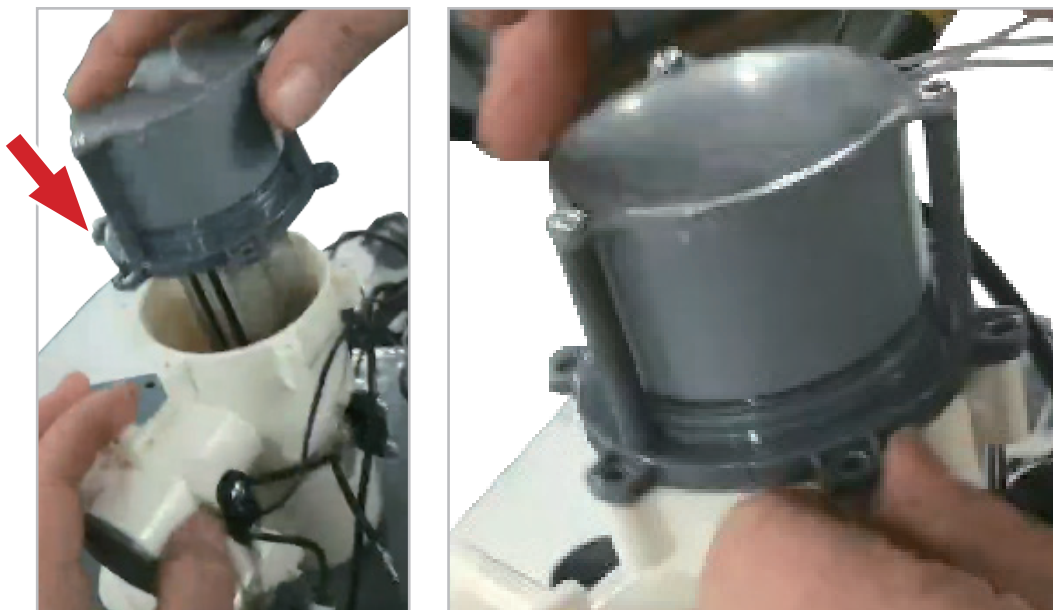
2. Separate these cables.



## Installation

### Connecting a New Heating Element to the Water Heater

1. Fit an identical or authorized heating element onto the water heater.

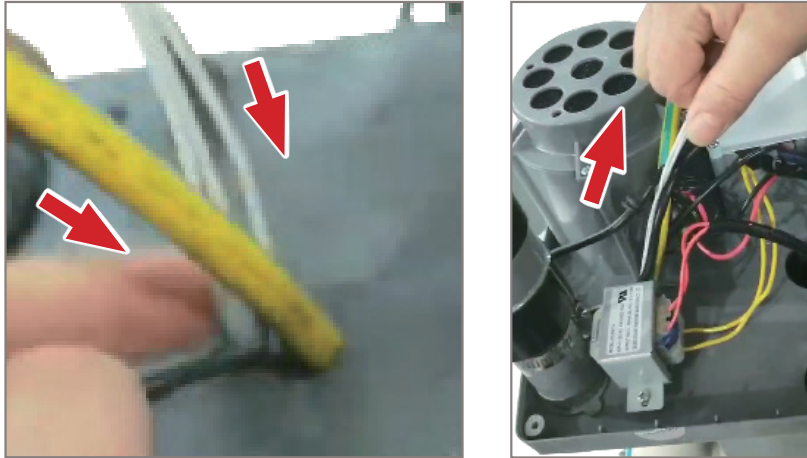


2. Secure the heating element using the Phillips bolts removed in **Step 1 of Removing the Heating Element**.

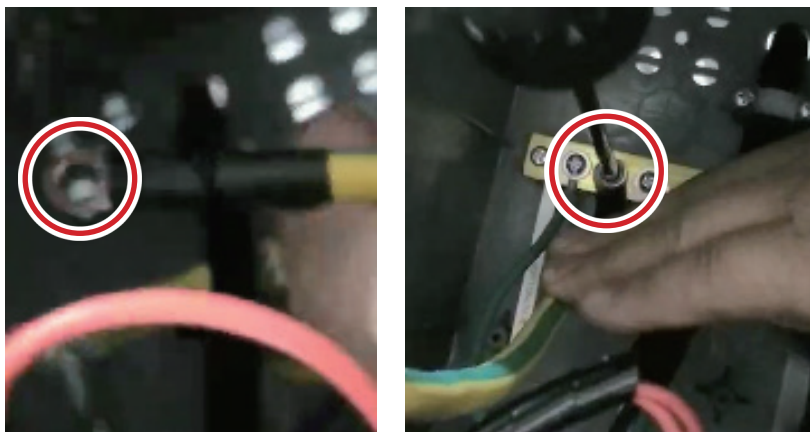


## Connecting the Main Power Cables

1. Pass the heating element's **WHITE** and **GREEN-YELLOW** cables through the top board.

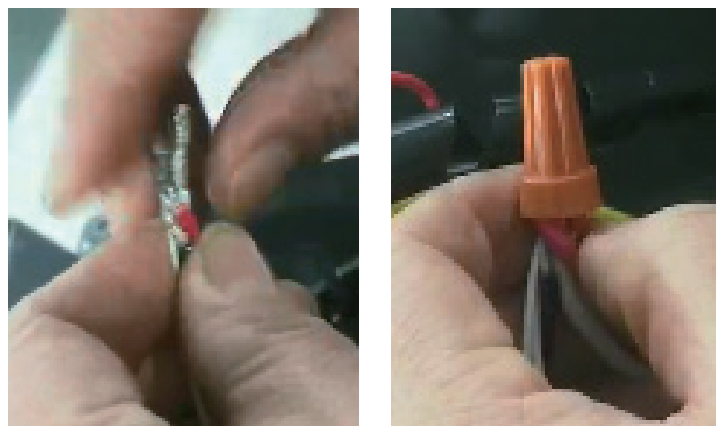


2. Connect the metal ring of the **GREEN-YELLOW** cable to the middle power point using the Phillips bolt removed in **Step 2 of Disconnecting the Main Power Cables**.

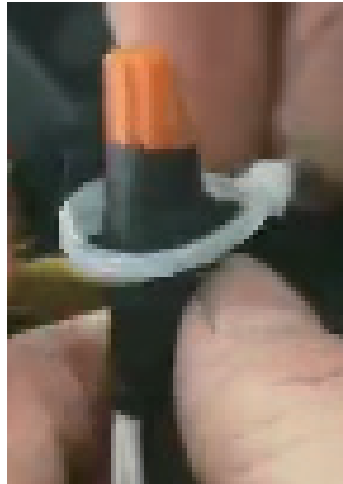


3. Twist the heating element's **WHITE** cables with the exposed **BLACK**, **RED**, and **WHITE** power cables remaining inside the pump.

Use the wire nut removed in **Step 3 of Disconnecting the Main Power Cables**.

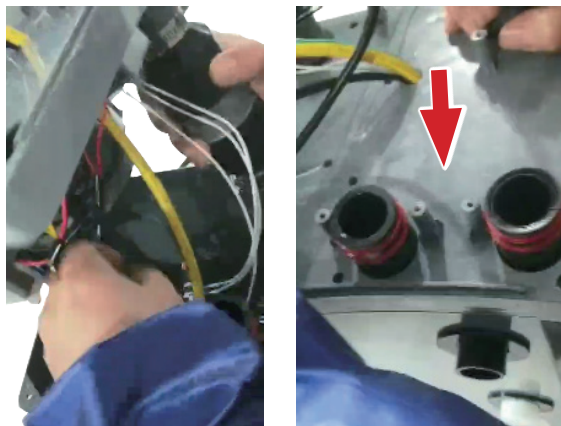


- Secure the cable connection using your electrical tape and zip tie.



### Reinstalling the Top Board

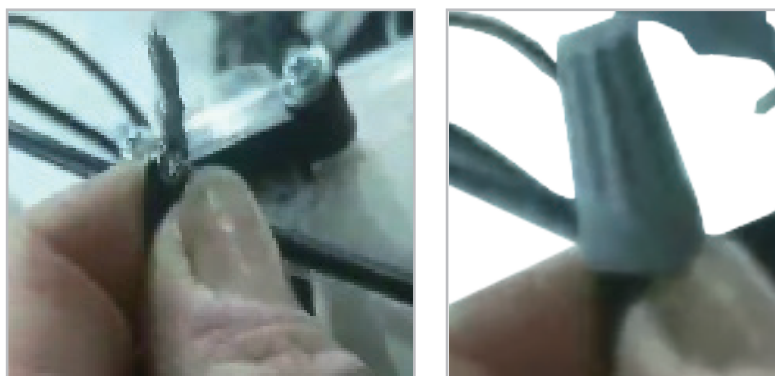
Arrange the main power cables neatly and refit the top board into place.



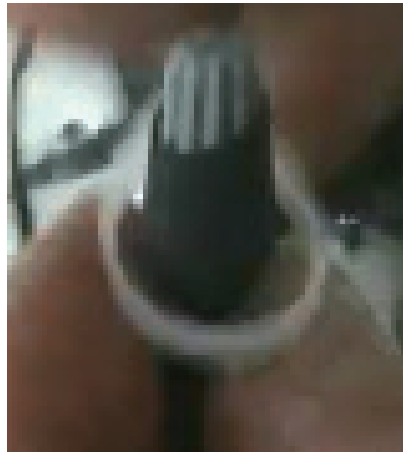
### Connecting the Pressure Switch Cables

- Twist the heating element's **BLACK** pressure switch cable together with the identically colored one of the pump remaining outside the top board.

Use the wire nut removed in **Step 1** of **Disconnecting the Pressure Switch Cables**.



2. Secure the cable connection using your electrical tape and zip tie.



### **Reinstalling the Water Heater**

1. Replace the water heater on the top board.
2. Secure the water heater using the Phillips bolts removed in **Disconnecting the Water Heater**.



### Locking the Top Board

Retighten the Phillips bolts at the corners of the top board until it is locked into place.



### Sealing the Water Heater

Reinstall the upper housing over the top board using the Phillips bolts removed in **Step 1** of **Removing the Upper Housing**.



## Contact Us

Thank you for choosing our products! If you have any questions or comments, contact us at [help@cs-supportpro.com](mailto:help@cs-supportpro.com) and we'll resolve your issue ASAP!

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Rev. 11 Nov. 2024