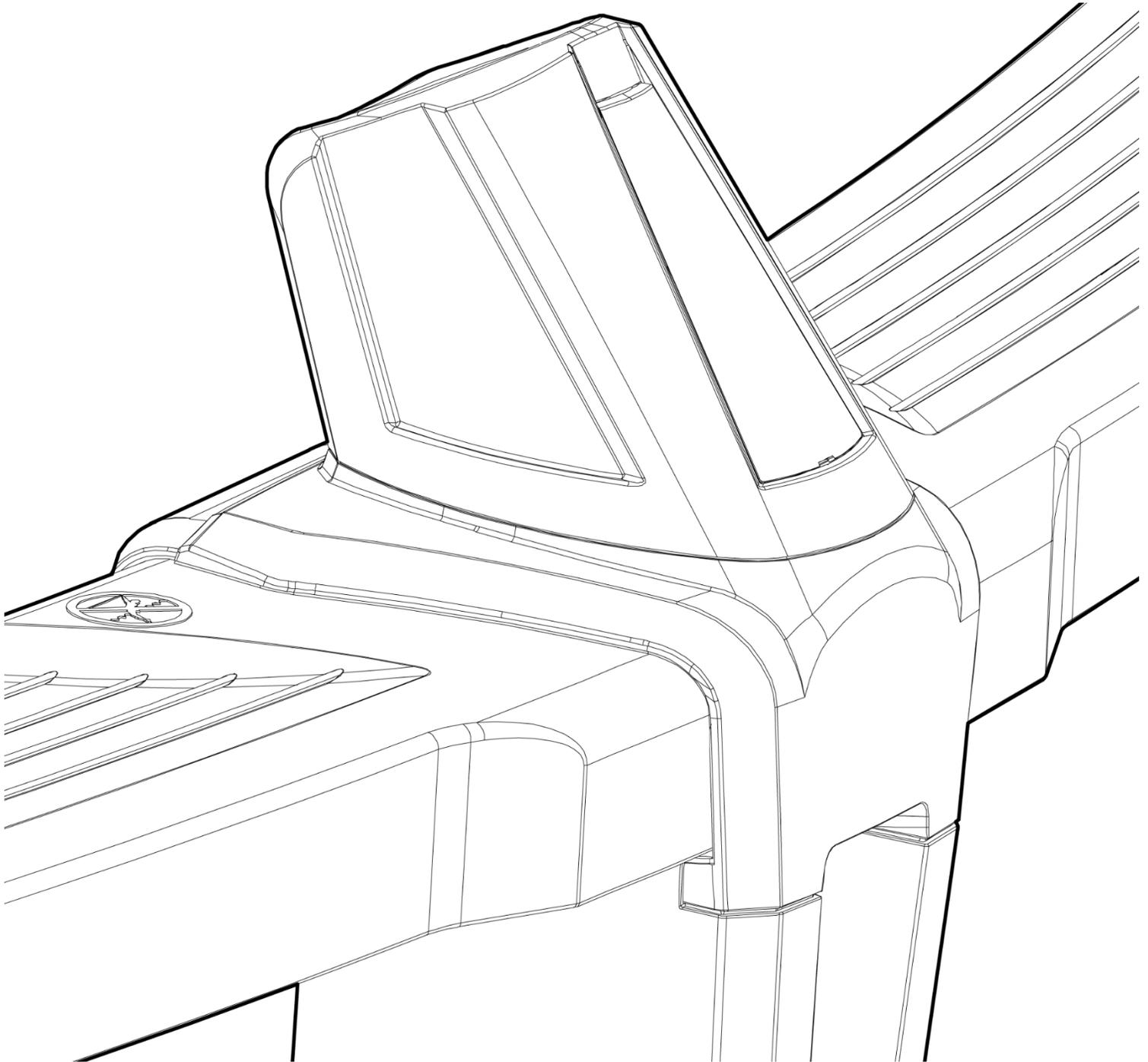


STARJET™ POOL WATER JET

User Manual



INTRODUCTION

Thank you for purchasing a CARVIN® STARJET™ pool water jet ("Product").

We want to help you get the best results from your new Product and operate it safely. This manual contains information on how to do that; please read it carefully before operating the chlorine generator. If a problem should arise, or if you have any questions about your product, consult an authorized Carvin retailer or distributor.

All the information in this manual is based on the latest Product information available at the time of publication. The manufacturer reserves the right to make changes at any time without notice and without incurring any obligation. No part of this publication may be reproduced without written permission.

COMPLIANCE

The submersible light included in this Product is compliant with applicable safety standards in Canada and in the United States of America.



IAPMO EGS, File E10078
UL 676, CSA C22.2 No. 89-15

COMPATIBILITY

This Product is compatible with a variety of Carvin above ground pools. Check with your authorized Carvin retailer or distributor for a list of compatible models.

Only connect the Product' submersible light to a Carvin Star Series Starter Kit. Consult its User Manual for power capacity and light controls.

The Carvin Star Series Starter Kit, water tubing, pipes, manifold and other plumbing accessories are sold separately.

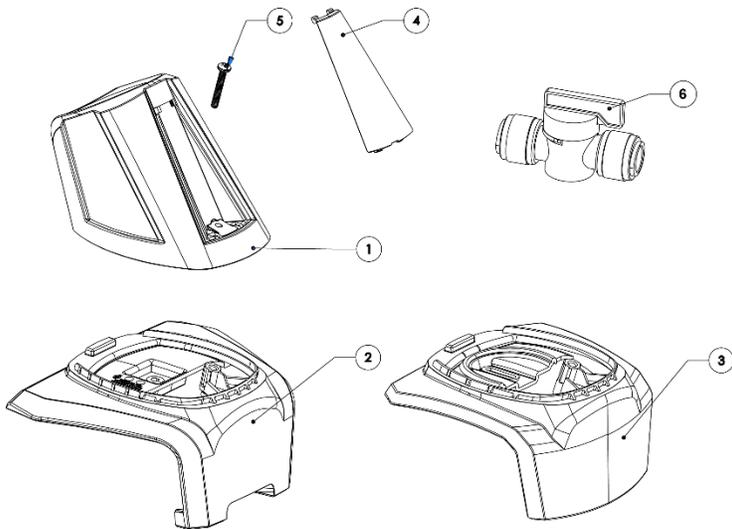
The waterjet feature will work as intended if the submersible light is not connected to a controller.

RECOMMENDATIONS

Only use Carvin 12 mm tubing for this installation. Other tubing will reduce performances of the Product or affect the water circulation of your pool.

We recommend using a 3-way valve with our 4-way manifold to manage the water return to the pool. You can install up to 4 StarJet on a Carvin pool. For the StarJet 4-way manifold (sold separately) connection, use any 1-1/2" PVC SCH40 pipe.

PACKAGE CONTENT



ID	Description	Qty
1	StarJet Shell Assembly, including LED Star Series Light	1
2	StarJet Ledge Cover Diamond Serie	1
3	StarJet Ledge Cover Gold Serie	1
4	StarJet Mounting Screw Cover	1
5	Mounting Screw	1
6	12mm Shutoff Valve	1
-	User Manual	1

FEATURES

HARMONIZED AND STYLISH

The StarJet Pool Water Jet is designed to fit Carvin's Diamond and Gold Series pools.

BACKLIT RGB WATER JET

Adjustable light color and intensity, when installed with Carvin accessories.

INSTALLATION

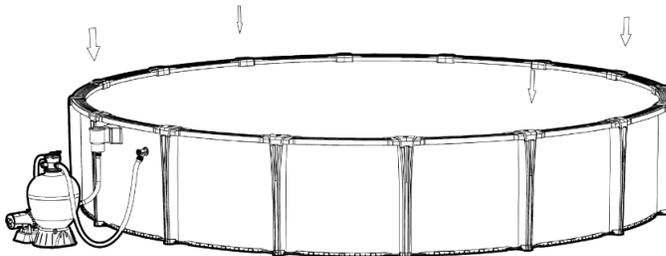
The electrical installation must be done in accordance with the Canadian Electrical Code, the National Electrical Code (USA) or any other local or national requirements.

Prepare the following tools and accessories:

- Power drill with Philips head #2 or a screwdriver #2;
- Small straight screwdriver;
- Tubing cutter or knife.
- A Star Series Starter kit, to power and control lights; and
- 12 mm water tubing.

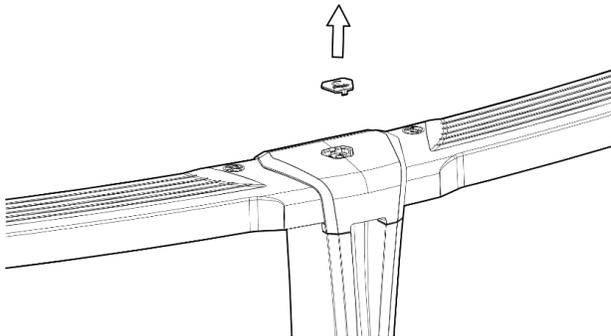
STEP 1

Select the positions where you want to install your StarJet.



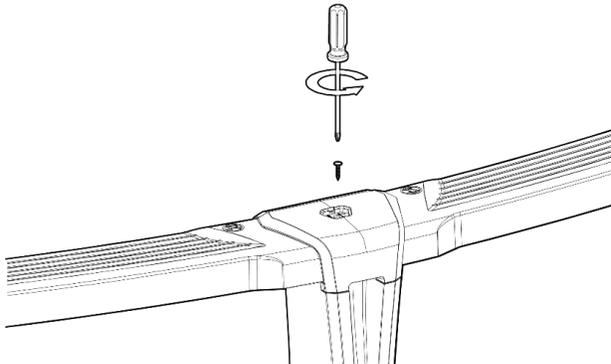
STEP 2

For each selected position, remove the top ledge cover cap.



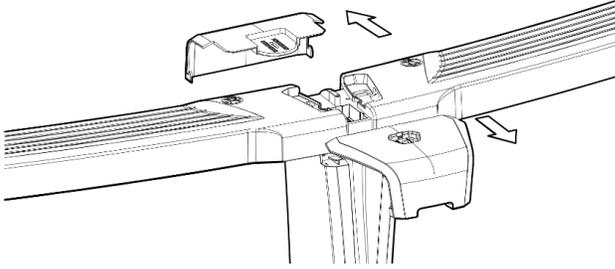
STEP 3

Unscrew the top ledge cover screw.



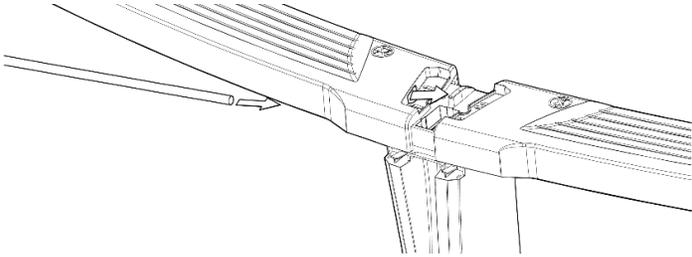
STEP 4

Remove the top ledge cover.



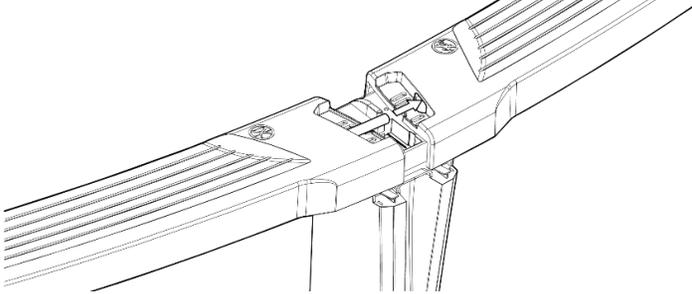
STEP 5

Pass the water tubing under the top ledge to the furthest location of a StarJet.



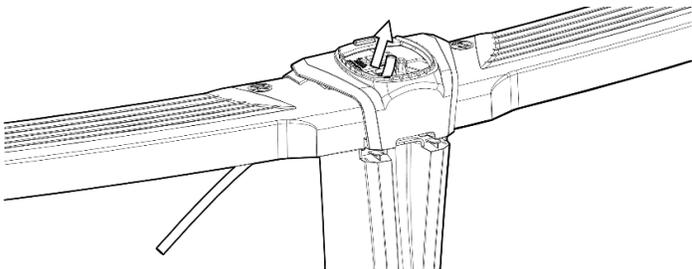
STEP 6

Pass the tubing through the top seat cable passthrough from top ledge to top ledge all around the pool, until you reach the StarJet 4-May Manifold.



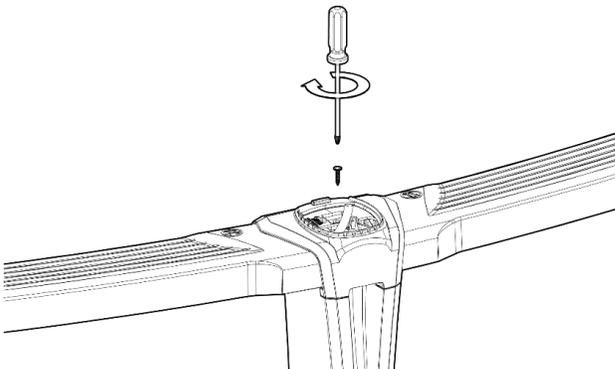
STEP 7

Cut a 30 cm (12-inch) section from the water tubing roll. Pass this piece of tubing through the top ledge and through the StarJet top ledge cover.



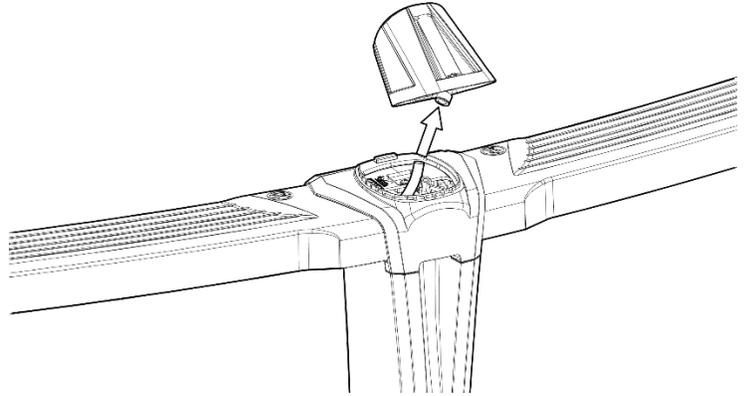
STEP 8

Screw the StarJet top ledge cover adaptor to the front top ledge cover.



STEP 9

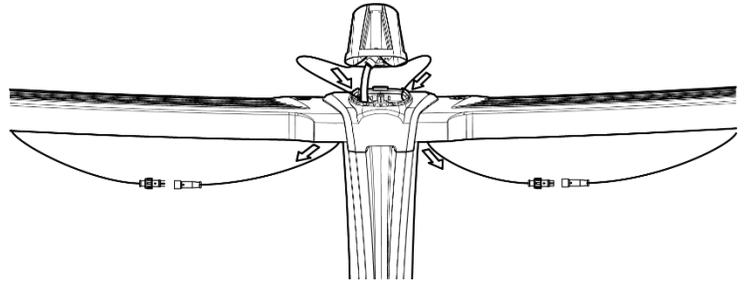
Connect the water tubing to the 45° fitting under the StarJet tank.



STEP 10

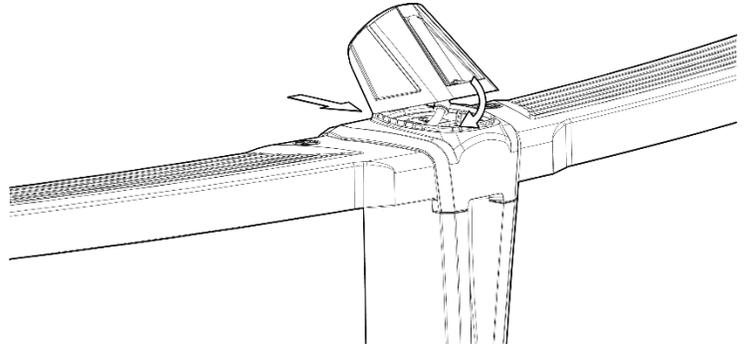
If StarGlow lights are already installed on the pool, you can connect StarJet light inline with the StarGlow lights.

Refer to StarGlow or Star Series Starter Kit user manual to learn more about how to connect cables to the StarJet. Respect the power chart recommendations from those user manuals.



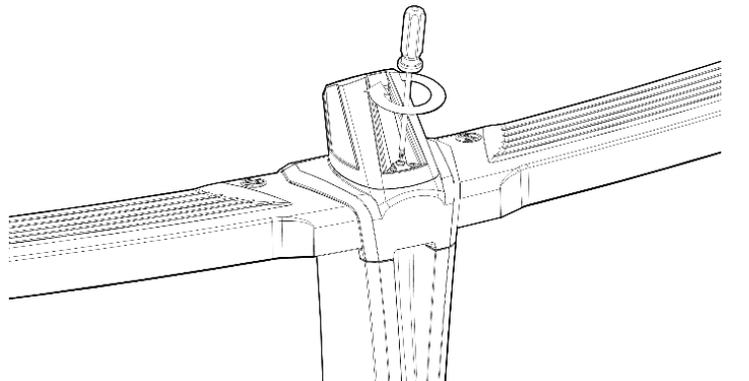
STEP 11

Hide the cable and tubing under the StarJet shell.



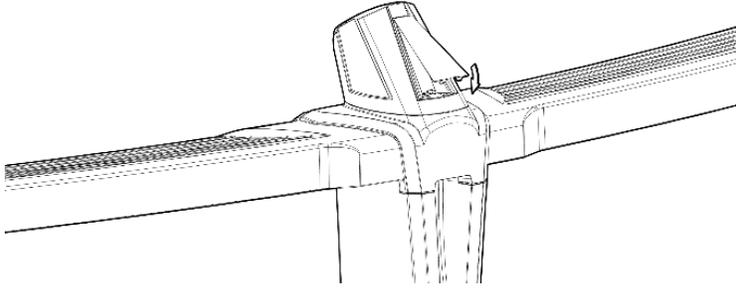
STEP 12

Screw the StarJet shell assembly to the StarJet top ledge cover.



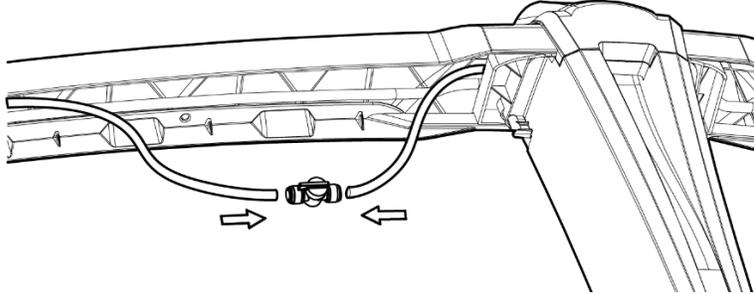
STEP 13

Install the StarJet screw cap.



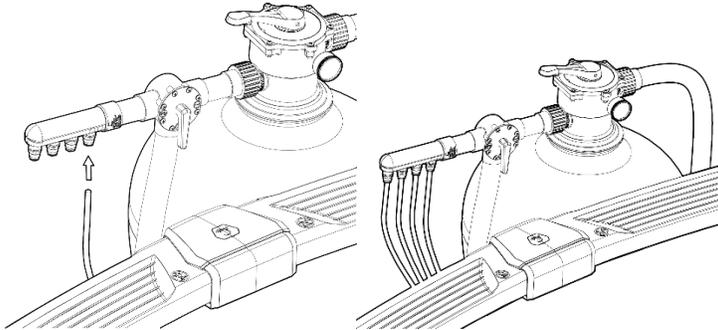
STEP 14

Connect the 12-inch tubing with the tubing passed around the pool.



STEP 15

Connect each end of tubing to the Carvin 4-way Manifold.



Your installation is finished.

Refer to the Operation section to see how to regulate the flow and return flow

BEFORE OPERATION CHECKS

WARNING

The Warranty of the product will be canceled if these conditions are not respected.

WARNING

Do not energize the submersible light if the water tank is empty.

WARNING

Keep debris out of the pool water circulation system.

Before flowing water in a StarJet, do the following inspections:

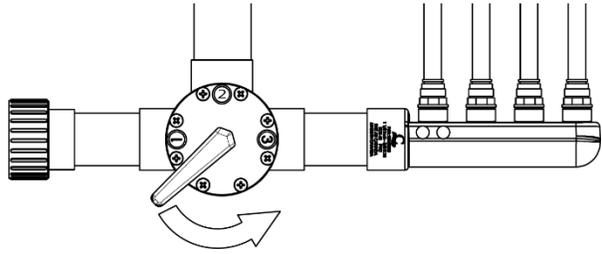
- Check pool skimmer basket and remove all debris;
- Check pump basket and remove all debris; and
- Check pool filter pressure, if need make a backwash.

OPERATION

As recommended, the StarJet is designed to be used with a 3-way valve.

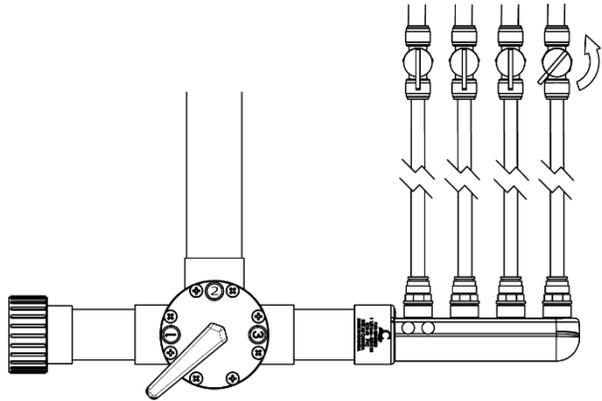
STEP 1

We recommend splitting the return water 50/50 when the StarJet are used.



STEP 2

Use the flow valves on the manifold to regulate the distance of each StarJet water jet. If more pressure is need open more the 3-way valve by turning the handle in direction of the position 2.



TROUBLESHOOTING

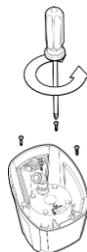
Symptom	Possibilities	Solutions
Water jet quality is poor	Debris in the circulation system prevent the water to flow adequately.	Check pool skimmer basket, pump basket, and remove any visible debris.
	Debris in the StarJet prevent the water to flow adequately.	Check the filter pressure and perform a backwash if needed.
	Water tubing is kinked or flat.	Clean the water tank and its diffusers as prescribed in this manual.
Light is not working as intended		Inspect the installation and correct the water line for optimized flow.
		Refer to the Star Series Starter Kit or the StarGlow Manual.

CLEANING THE WATER TANK & DIFFUSERS

Before disassembling the StarJet, make sure you have checked the point mention in the trouble shooting. If you have debris in your StarJet that means you filtration system is not operating correctly. Fix your system before starting the cleaning operation. Other wise you will have to repeat the cleaning regularly.

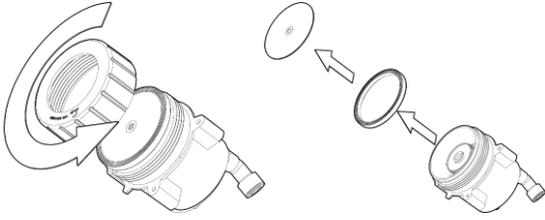
STEP 1

Refer to installation step to remove the StarJet Body from the StarJet Ledge cover. Using a Phillips head screwdriver, unscrews the for screw of the reservoir.



STEP 2

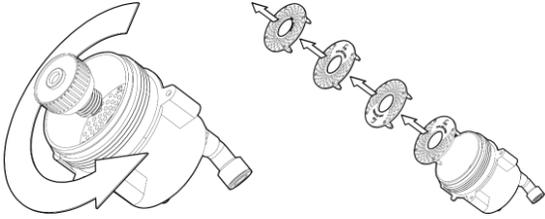
Unscrew the tank nut. Separate the flat washer and the tank gasket from the tank.



STEP 3

Unscrew the light from the tank. When reassembling, do not overtighten the light.

Pull out the four diffusers. Take note of the filters order. Place them on a surface so you will stack them back in the same order.



STEP 5

Rinse the diffusers and tank with a garden hose. Repeat the step backward to reassemble the tank.

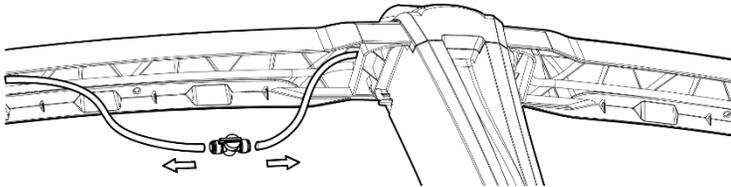


WINTERIZING

Water freezing and winter precipitation can damage some components of the StarJet. If you live in an area where winter is cold, the StarJet must be removed from the pool and stored in a sheltered room at a temperature above freezing. Water tubing needs to be purged.

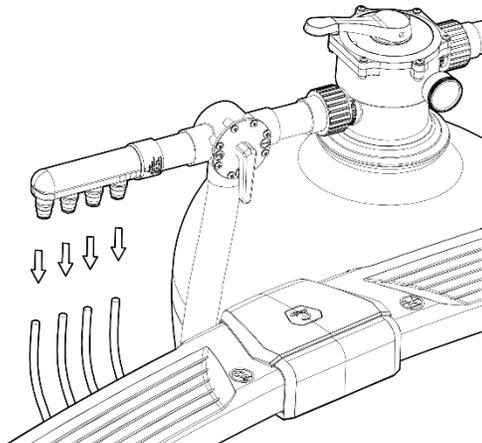
STEP 1

Disconnect the 30 cm (12 inch) tubing from the StarJet.



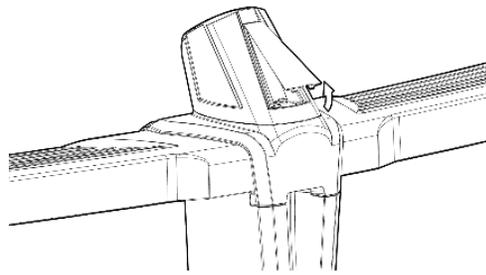
STEP 2

Disconnected all the tubing from the manifold. Open the valve to drain the water.



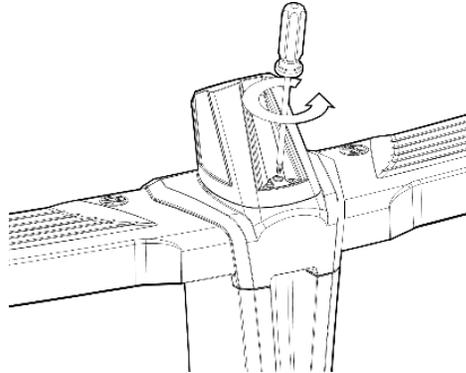
STEP 3

Using a flat screwdriver, remove the StarJet screw cap.



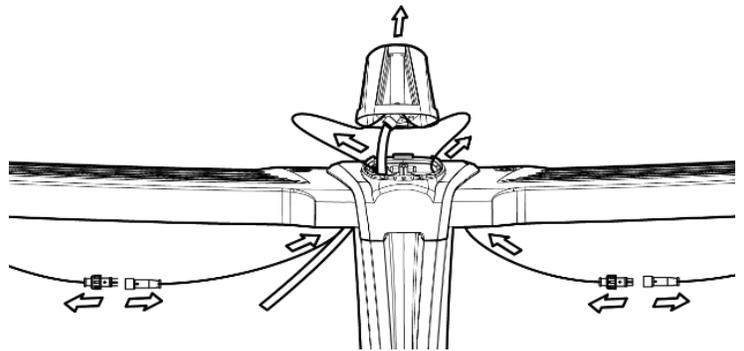
STEP 4

Unscrew StarJet shell from the top ledge adaptor.



STEP 5

Disconnect the electric connection from StarGlow lights or from the Star Series Starter kit.



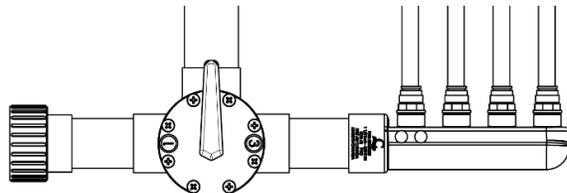
STEP 6

Remove and store all the StarJet units facing down.



STEP 7

For winter the 3-way valve and all the flow valve are in open position.



TECHNICAL INFORMATION

Specifications	Parameters	
Dimensions (Height x Width x Depth)	Water Jet	137 x 144 x 199mm 5.4 x 5.7 x 7.8in
	Ledge adapter for Gold Series	126 x 227 x 186mm 5.0 x 8.9 x 7.3in
	Ledge adapter for Diamond Series	128 x 268 x 185mm 5.0 x 10.6 x 7.3in
Operating temperature	+5°C to +50°C +41°F to +122°F	
Storage temperature	-25°C to +50°C -13°F to +122°F	
Input voltage	0.1-5V	
Maximum current	0.5A	
Maximum power	5W	
Compatible water tubing	OD 12mm, ID 9mm	

CONSUMER INFORMATION

Authorized CARVIN® retailer or distributor personnel are trained professionals. They should be able to answer any question you may have. If you encounter a problem that your retailer or distributor does not solve to your satisfaction, please discuss it with the retailer's or distributor's management. The Service Manager, General Manager, or Owner can help. Almost all problems are solved in this way.

If you are dissatisfied with the decision made by the retailer's or distributor's management, contact the CARVIN® technical support.

When you write or call, please provide the following information:

- Product model, serial number and date code;
- Name of retailer or distributor who sold the Product to you;
- The original proof of purchase showing the date of purchase;
- Your name, address and telephone number;
- A detailed description of the problem; and
- If sending an email, any relevant photos of the Product and its surroundings.

WARRANTY

Le Groupe VIF Inc. ("VIF"), owner and manufacturer of the CARVIN® Pool Equipment brand, gives the following written Warranty on each new Product manufactured by or on behalf of VIF and distributed for sale in America.

VIF guarantees that each new Product will be free from any defects, in material or workmanship, for the Warranty period set below, under normal use and maintenance. If any defects should be found in a Product within the period set below and when VIF acknowledges that such defects are attributable to faulty material or workmanship at the time of manufacturing, at its discretion VIF will replace or repair with a new part or the CARVIN® equivalent, at no cost to the consumer for parts and labour.

The Warranty Period coverage starts from the original date of sale or when the unit is first installed as a demonstrator.

Product Model	Non-Commercial Warranty Period	Warranty Coverage
94160###	12 Months	100%

The actual Product item number may vary from the Product model number which may include a suffix for color, packing options or else.

This Warranty covers:

- Any Product purchased from a CARVIN® retailer or distributor authorized to sell that product in America.
- Any Product on which required maintenance services have been performed as prescribed in this manual.

This Warranty does not cover:

- Any repairs required as a result of collision, striking any object, frost, acts of God, careless use, misuse, improper installation, or lack of maintenance described in this manual;
- Any Product modified, altered, disassembled or remodelled;
- Shipping related costs to and from the manufacturer;
- Installation and removal related costs; and
- Normal maintenance services or water chemistry analysis service described in this manual.

This warranty is non-transferable and applies only to the first retail purchaser, and only during the period when the first retail buyer occupies the place where the product was originally installed.

REPLACEMENT PARTS AVAILABILITY

Replacement parts are available through your CARVIN® retailer or distributor.

REPLACEMENT PARTS WARRANTY

New CARVIN® replacement parts sold to a consumer or installed by an authorized CARVIN® retailer which are not covered by this Warranty are guaranteed for a period of 3 months, however, this Replacement Parts Warranty does not apply to any replacement parts modified, used with, or installed on a Product for which the replacement parts were not intended.

ENTIRE WRITTEN WARRANTY

This Warranty is the only and the entire written Warranty given by VIF for its Product. No retailer or his agent or employee is authorized to extend or enlarge on these warranties on behalf of VIF by any written or verbal statement or advertisement.

TO OBTAIN WARRANTY SERVICE

You must first contact your authorized CARVIN® retailer or distributor. Please refer to section Customer Information.

Any defect must be reported to an authorized CARVIN® retailer or distributor within 72 hours to avoid potential breakage to other equipment, otherwise the warranty will not be honored.

TECHNICAL SUPPORT INFORMATION

After following the troubleshooting section of this manual and after contacting your dealer or distributor, if you have any problems with your Product, contact CARVIN® Technical Support.

AMERICA

Email: help@carvinpool.com

Phone: 1 450 250-4500 option 2

Fax: 1 450 250-4501

Toll Free: 1 866 979-4501

Mail: CARVIN® POOL EQUIPMENT
Technical Support
4000 boul. Casavant Ouest,
Saint-Hyacinthe, Québec, Canada, J2S 9E3

DISCLAIMERS

This Product is not for sale or for resale where prohibited by law or regulations.

The provisions contained in these written warranties are not intended to limit, modify, take away from, disclaim or exclude any warranties set forth in or the operation of The Consumer Products Warranties Act, 1977 (Saskatchewan), The Consumer Product Warranty and Liability Act (New Brunswick), The Consumer Protection Act (Quebec), or any other similar provincial or federal legislation.

VIF shall not be liable for any statement made or published, written or oral, that is misleading or inconsistent with the facts published in the documentation or specifications provided by VIF.



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