

Gecko AF91694251

Gecko Aqua-Flo Flo-Master Pump Impeller AF91694251 Instruction Manual

Model: AF91694251

1. INTRODUCTION

This manual provides essential instructions for the safe and efficient installation, operation, and maintenance of your Gecko Aqua-Flo Flo-Master Pump Impeller, model AF91694251. Please read this manual thoroughly before installation and retain it for future reference.

2. SAFETY INFORMATION

WARNING: Electrical shock hazard. Always disconnect power before servicing. Installation must be performed by a qualified technician in accordance with all local and national electrical codes.

Observe all safety precautions to prevent injury or damage to the equipment. This impeller is designed for use with Aqua-Flo Flo-Master 2.5 HP XP2 Spa Pumps only.

3. PACKAGE CONTENTS

- 1 x Gecko Aqua-Flo Flo-Master Pump Impeller (Model AF91694251)
- *(Gaskets and seals are typically sold separately and may be required for installation)*

4. PRODUCT OVERVIEW

The Aqua-Flo Flo-Master Pump Impeller AF91694251 is a critical component for your spa pump, responsible for moving water efficiently. This section provides a visual reference of the impeller.



Figure 1: Aqua-Flo Flo-Master Pump Impeller AF91694251. This image shows the black plastic impeller with its characteristic vanes and central shaft opening, designed for efficient water propulsion within the pump housing.

5. SETUP AND INSTALLATION

This procedure requires basic mechanical skills and tools. If you are unsure, consult a qualified spa technician.

1. **Disconnect Power:** Ensure the spa's main power supply is completely disconnected at the breaker before beginning any work.
2. **Drain Spa:** Partially or fully drain the spa to prevent water spillage during pump disassembly.
3. **Access Pump:** Locate and access the spa pump. You may need to remove cabinet panels.
4. **Remove Wet End:** Disconnect plumbing from the pump's wet end. Carefully unbolt and separate the wet end housing from the motor.
5. **Remove Old Impeller:** The impeller is typically threaded onto the motor shaft. You may need a shaft wrench or a flathead screwdriver to hold the shaft while unscrewing the impeller. Note the direction of rotation for removal (usually counter-clockwise).
6. **Inspect Seals:** Inspect the pump seal and O-rings. It is highly recommended to replace these components when replacing the impeller to ensure a watertight seal and optimal performance. (*Refer to your pump's specific manual for seal replacement instructions.*)

7. **Install New Impeller:** Thread the new AF91694251 impeller onto the motor shaft, ensuring it is securely tightened. Do not overtighten.
8. **Reassemble Pump:** Reattach the wet end housing to the motor, ensuring all bolts are tightened evenly. Reconnect all plumbing connections.
9. **Refill Spa & Test:** Refill the spa with water. Inspect for leaks before restoring power. Once full, restore power and test the pump's operation.

6. OPERATING INSTRUCTIONS

The impeller itself does not have direct operating controls. Its function is integral to the spa pump's operation. Once installed correctly, the pump will operate as designed when power is supplied and activated via your spa's control panel.

- Ensure the spa is filled to the correct water level before operating the pump.
- Never run the pump dry, as this can cause severe damage to the impeller and pump seals.
- Refer to your spa's main control panel manual for specific pump activation and setting adjustments.

7. MAINTENANCE

Regular maintenance of your spa pump and its components, including the impeller, ensures longevity and efficient performance.

- **Regular Inspection:** Periodically inspect the pump for any unusual noises, vibrations, or leaks.
- **Clean Pump Basket:** Ensure the pump's strainer basket is clean and free of debris to prevent cavitation and strain on the impeller.
- **Winterization:** If winterizing your spa, ensure the pump and all plumbing are completely drained to prevent freezing damage to the impeller and housing.
- **Seal Replacement:** Pump seals are wear items. If you notice water leaking from the motor side of the pump, the pump seal likely needs replacement. This often coincides with impeller replacement.

8. TROUBLESHOOTING

This section addresses common issues related to pump impeller function. For comprehensive pump troubleshooting, refer to your spa pump's specific manual.

Problem	Possible Cause	Solution
Pump runs but no water flow / low flow	<ul style="list-style-type: none"> • Air lock in pump • Clogged strainer basket • Damaged or broken impeller • Closed valves 	<ul style="list-style-type: none"> • Bleed air from pump (prime) • Clean strainer basket • Inspect and replace impeller if damaged • Open all necessary valves
Pump making loud noise / grinding	<ul style="list-style-type: none"> • Debris lodged in impeller • Worn motor bearings • Cavitation (pump running dry or restricted flow) 	<ul style="list-style-type: none"> • Disconnect power, inspect impeller for debris • Motor bearing replacement (professional service) • Ensure adequate water supply and clear obstructions

Problem	Possible Cause	Solution
Water leaking from pump	<ul style="list-style-type: none">• Worn pump seal• Loose plumbing connections• Cracked wet end housing	<ul style="list-style-type: none">• Replace pump seal• Tighten plumbing connections• Inspect and replace wet end housing if cracked

9. SPECIFICATIONS

- **Model:** AF91694251
- **Compatibility:** Aqua-Flo Flo-Master 2.5 HP XP2 Spa Pumps
- **Material:** Durable composite
- **Dimensions:** Approximately 1 x 1 x 1 inches
- **Weight:** Approximately 4.8 ounces
- **Manufacturer:** Aqua-Flo by Gecko Alliance

10. WARRANTY INFORMATION

This product is covered by the manufacturer's standard warranty. For specific warranty terms, conditions, and duration, please refer to the official Gecko Alliance website or contact their customer support directly. Proof of purchase may be required for warranty claims.

11. SUPPORT AND CONTACT

For technical assistance, replacement parts, or further inquiries, please contact Gecko Alliance customer support or visit their official website.

Gecko Alliance Official Website: www.geckoalliance.com

(Specific contact numbers or email addresses may vary by region and are best found on the official website.)