

Angel 91694150

Angel Flo Master XP2 Pump Impeller 1.5 OHP/2.0 THP Instruction Manual

Model: 91694150

1. INTRODUCTION

This instruction manual provides essential information for the proper installation, operation, and maintenance of the Angel Flo Master XP2 Pump Impeller, model 91694150. This impeller is a critical component designed for Aqua-Flo XP/XP2 series pumps, responsible for generating the necessary water pressure for your spa or pool system. Adhering to these instructions will ensure optimal performance and longevity of the product.

2. PRODUCT OVERVIEW

The Angel Flo Master XP2 Pump Impeller (Model 91694150) is a closed-face impeller specifically engineered for 1.5 Operational Horsepower (OHP) and 2.0 Total Horsepower (THP) Aqua-Flo XP/XP2 series spa pumps. It is constructed from durable ABS material, designed to withstand the demands of continuous water circulation in spa and pool environments.



Figure 1: Angel Flo Master XP2 Pump Impeller. This image displays the black, closed-face impeller, highlighting its central intake and the vanes responsible for water propulsion. A small, multi-colored indicator is visible on the shaft connection point.

3. SAFETY INFORMATION

Always observe the following safety precautions when handling or installing the impeller:

- **Disconnect Power:** Before attempting any installation, maintenance, or repair, ensure that the main power supply to the pump is completely disconnected at the circuit breaker. Failure to do so can result in serious injury or electrical shock.
- **Professional Installation Recommended:** If you are unfamiliar with pump mechanics or electrical systems, it is highly recommended to seek assistance from a qualified technician.
- **Wear Protective Gear:** Use appropriate personal protective equipment, such as gloves and eye protection, during installation or maintenance.
- **Handle with Care:** Impellers may have sharp edges. Handle the component carefully to prevent cuts.
- **Ensure Proper Drainage:** Before opening the pump housing, ensure the pump and associated plumbing are fully drained to prevent water spillage and potential electrical hazards.

4. INSTALLATION

The following steps outline the general procedure for replacing an impeller in an Aqua-Flo XP/XP2 series pump. Specific pump models may vary slightly. Refer to your pump's specific manual for detailed disassembly instructions.

1. Preparation:

- Turn off all power to the pump at the main breaker.
- Drain the pump and plumbing system completely.
- Place a towel or container beneath the pump to catch any residual water.

2. Disassembly:

- Remove the wet end of the pump from the motor. This typically involves unbolting the volute (pump housing) from the motor assembly.
- Carefully remove the old impeller. This may require a specialized tool or a firm grip and counter-clockwise rotation, often while holding the motor shaft stationary from the rear. Note the orientation of any washers or seals.
- Inspect the pump seal and replace it if necessary. A new seal is often recommended when replacing an impeller.

3. Impeller Installation:

- Thread the new Angel Flo Master XP2 Impeller onto the motor shaft by turning it clockwise until it is hand-tight. Ensure it seats properly.
- Do not overtighten, as this can damage the impeller or motor shaft.

4. Reassembly:

- Reattach the pump wet end to the motor, ensuring all gaskets and O-rings are correctly seated.
- Tighten all bolts evenly to prevent leaks.
- Reconnect any plumbing and electrical connections that were removed.

5. Testing:

- Before restoring full power, ensure the pump is primed with water according to your pump's instructions.
- Restore power and carefully observe the pump for proper operation and any leaks.

5. OPERATION

The impeller itself does not have operational controls; it functions as an internal component of the pump. Once installed correctly within the Aqua-Flo XP/XP2 pump, it will begin to rotate with the motor, drawing water into the pump's center and expelling it outwards through centrifugal force, thereby generating water pressure and flow for your spa or pool system. Proper pump operation relies on a correctly installed and undamaged impeller.

6. MAINTENANCE

Regular inspection and maintenance of your pump system, including the impeller, can extend its lifespan and ensure efficient operation:

- **Visual Inspection:** Periodically inspect the impeller for signs of wear, cracks, or debris accumulation. A damaged impeller can lead to reduced pump performance or failure.
- **Debris Removal:** If the pump is disassembled for other maintenance, gently clean any debris from the impeller vanes. Avoid using harsh chemicals or abrasive tools that could damage the ABS material.
- **Seal Integrity:** Always check the pump seal when the impeller is exposed. A worn or damaged seal can cause leaks and affect pump efficiency.
- **Winterization:** During winterization, ensure the pump is completely drained to prevent freezing water from damaging the impeller or pump housing.

7. TROUBLESHOOTING

If you experience issues with your pump after impeller installation, consider the following common problems and solutions:

Problem	Possible Cause	Solution
Low Water Pressure/Flow	Impeller not fully seated or damaged. Air leak in suction line. Pump not primed. Clogged filter or skimmer basket.	Re-check impeller installation. Inspect plumbing for leaks. Prime the pump. Clean filter and baskets.
Pump Making Unusual Noise	Debris caught in impeller. Worn motor bearings. Cavitation (pump sucking air).	Disconnect power and inspect impeller for debris. Consult a professional for motor inspection. Ensure adequate water supply to pump.
Water Leaking from Pump	Improperly seated pump seal. Damaged O-rings or gaskets. Loose connections.	Re-check pump seal installation. Inspect and replace O-rings/gaskets. Tighten all plumbing connections.

If problems persist after attempting these solutions, contact a qualified pump technician.

8. SPECIFICATIONS

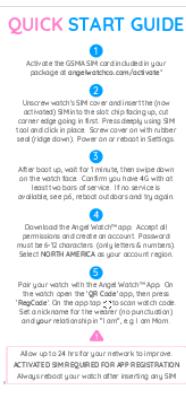
Manufacturer	Gecko
Part Number	91694150
Item Model Number	91694150
Item Weight	3.52 ounces
Product Dimensions	2 x 3 x 4 inches
Color	White (Note: Product image shows black, but specification lists white. User should verify.)
Style	Above Ground
Material	ABS
Usage	Spa
Impeller Type	Closed Face
Horsee power Rating	1.5 OHP / 2.0 THP

9. WARRANTY AND SUPPORT

Specific warranty details for the Angel Flo Master XP2 Pump Impeller (Model 91694150) are not provided in this document. For warranty information, please refer to the original purchase documentation or contact

the retailer or manufacturer directly. For technical support or further assistance with installation and troubleshooting, it is recommended to consult a certified pool or spa technician or contact the manufacturer, Gecko, for guidance.

Related Documents - 91694150

	<p>ANGEL W-J3680-ROB15 RO Water Purifier User Manual and Installation Guide</p> <p>Comprehensive user manual and installation guide for the ANGEL W-J3680-ROB15 Reverse Osmosis Water Purifier, covering setup, operation, maintenance, and troubleshooting.</p>
	<p>ANGEL Kühltheke Bedienungs- und Wartungshandbuch</p> <p>Umfassendes Handbuch für Gebrauch und Wartung der ANGEL-Serie von Kühltheken, einschließlich Installation, Betrieb, technische Spezifikationen und Fehlerbehebung.</p>
	<p>Ashdown Fallen Angel Guitar Amplifier Series Operating Instructions</p> <p>Comprehensive operating instructions and specifications for the Ashdown Engineering Fallen Angel 40 DSP, 60 DSP, and 180 guitar amplifier models, covering front and rear panel features, design philosophy, safety, and warranty information.</p>
	<p>Angel Watch Quick Start Guide</p> <p>A concise guide to activating and setting up your Angel Watch smartwatch, including SIM card installation, app download, and device pairing.</p>

QUICK START GUIDE

1

Activate GSM SIM card online with a 10GB plan.

2

Unwrap SIMwatch SIM cover and insert the SIM card into slot - chip facing up, cut corner edge going into the slot and gently push with the SIM tool to click in place. Secure the SIM cover with a clip and (ridge down). Power on or reboot in Settings.

3

After boot up, wait for 1 minute, then swipe down on the watch face. Confirm there are at least two bars of network coverage with 4G. If no service is available, reboot in power or over by again.

4

Download the Angel Watch™ app. Accept all permissions and create an account with a working email address. Set up a new account or log in to any existing account.

Select NORTH AMERICA as your account region.

5

Now pair your watch with the Angel Watch™ App. On the watch open the QR Code app, then tap Register. Scan the QR code on the app screen (in case of issue register a reboot and try again).

Set a nickname for the wearer and your relationship in "I am" (e.g. I am Mom).

6

Allow up to 24 hrs for your network to improve.

ACTIVATED SIM REQUIRED FOR APP REGISTRATION

Always wear your watch after inserting any SIM.

Angel Watch Quick Start Guide

A concise guide to setting up your Angel Watch smartwatch, covering SIM card activation, insertion, app pairing, and initial configuration.