

American Spa Parts WUA-400

Spa Hot Tub Pump Wet End Instruction Manual

Model: WUA-400 | Brand: American Spa Parts

1. PRODUCT OVERVIEW

This manual provides essential information for the installation, operation, and maintenance of your American Spa Parts 4 Horse Power (4HP) 56 Frame Pump Wet End with Barb. This wet end is specifically designed to fit Intertek LX Brand Pump Motors, commonly found on models such as WUA-400, WP-400, or LP-400.

The wet end is a critical component of your spa or hot tub pump, responsible for housing the impeller and directing water flow. Proper installation and maintenance are crucial for optimal performance and longevity.

2. KEY FEATURES

- Intertek LX Series Jet Pump 4HP Wet End compatibility.
- Designed to fit WUA, LP, and Intertek LX Pumps.
- Features 2" x 2" inlet and outlet ports, measuring approximately 3" across the threads.
- 56fr frame size, with 5 7/8" center-to-center on the X bolt pattern.

3. SPECIFICATIONS

Specification	Detail
Brand	American Spa Parts
Color	Black
Material	Stainless Steel, Cast Iron
Style	Submersible
Product Dimensions (L x W x H)	7.25" x 7.38" x 7.38"
Power Source	AC/DC
Maximum Flow Rate	0.01 Cubic Meters Per Minute
Item Model Number	WUA-400

UPC	740016019350
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4. INSTALLATION AND SETUP

This wet end is designed for straightforward installation. It is pre-assembled with the impeller and bearings installed, simplifying the repair process. You do not need to disassemble the wet end to install it onto your pump motor.

To install, align the wet end with your pump motor. You may need to hold the impeller in place by inserting your fingers or a flat screwdriver through the access hole on the back of the motor to thread it onto the motor shaft. Ensure the through-bolts are loosened before attempting to unscrew the impeller if you are replacing an old one.

Important Note on Barb Style: This wet end comes with a wing-nut style barb. If your existing pump uses a wing-nut style barb, your old barb can be transferred to this new wet end. However, if your old pump uses a flat screwdriver style barb (which looks different from the wing-nut style), you will need to purchase a new, compatible barb as your old one will not transfer over.



Figure 4.1: Front view of the Spa Hot Tub Pump Wet End.



Figure 4.2: Side view of the pump wet end, showing the inlet/outlet ports.



Figure 4.3: Measurement of the 2-inch inlet/outlet, which measures approximately 3 inches across the threads.



Figure 4.4: Measurement showing the 56fr frame size, which is 5 7/8 inches center-to-center on the X bolt pattern.



Figure 4.5: Visual comparison of different wet end types, highlighting the distinct features of the Chinese LX Series (WUA-400) wet end compared to Aqua-Flo and CMP models. This helps in verifying the correct part.

Installation Video Guide

Your browser does not support the video tag.

Video 4.1: This video provides detailed information and installation guidance for the WUA-400 wet end. It clarifies compatibility with various pump models and explains how to determine if this is the correct part for your spa pump. It also demonstrates how to install the wet end without full disassembly.

5. OPERATING INSTRUCTIONS

Once installed, the wet end operates in conjunction with your spa pump motor to circulate water. Ensure all connections are secure and leak-free before powering on the pump. The pump's operation (e.g., single-speed or two-speed) is determined by the motor, not the wet end itself. The WUA-400 wet end is compatible with both single-speed (WUA400-I) and two-speed (WUA400-II) Intertek LX pumps.

Always follow the operating instructions provided with your specific spa or hot tub system for safe and efficient use.

6. MAINTENANCE

Regular inspection of your pump wet end can help prevent issues and extend its lifespan. Check for any signs of leaks around the seals or connections. A leaking seal can lead to water entering the motor shaft area, potentially causing damage to the impeller.

- **Leak Inspection:** Periodically check for water leaks around the wet end and pump motor. Address any leaks promptly to prevent further damage.
- **Impeller Check:** If a seal is leaking, it often indicates potential damage to the impeller due to water exposure and expansion. Inspect the impeller for wear or damage if you suspect a leak.
- **Cleaning:** Ensure the pump's intake is clear of debris to maintain optimal water flow and prevent strain on the pump.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your pump wet end.

- **Pump Not Circulating Water:** Ensure the pump is receiving power and that the water level in the spa is adequate. Check for any blockages in the plumbing or pump intake.
- **Leaking Wet End:** Leaks often occur at the pump seal. If you observe water leaking from the wet end, especially near the motor shaft, the pump seal likely needs replacement. In some cases, a damaged impeller may also contribute to or result from a leaking seal.
- **Unusual Noises:** Grinding or rattling noises may indicate a worn impeller or bearings. Inspect the impeller for foreign objects or damage.

For complex issues or if you are unsure about a repair, it is recommended to consult a qualified spa technician.

8. WARRANTY AND SUPPORT

For specific warranty information regarding your American Spa Parts Wet End, please refer to the documentation provided at the time of purchase or contact American Spa Parts directly. Warranty terms typically cover manufacturing defects.

For technical support or assistance with installation and troubleshooting, please contact the seller, Hot Tub Parts of America, or the manufacturer, American Spa Parts. Detailed contact information can usually be found on your purchase receipt or the product packaging.

You can also find additional information and video guides by searching for "LX Series Guangdong Pump How To Repair The Spa Guy" on video platforms.

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