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> Wavemaster 7000 Hot Springs Replacement 110V Jet Pump User Manual

## Wavemaster 7000

# Wavemaster 7000 Hot Springs Replacement 110V Jet Pump User Manual

Model: 7000 | Watkins Part # 36675

## 1. INTRODUCTION

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This manual provides essential instructions for the safe installation, operation, and maintenance of your Wavemaster 7000 Replacement 110V Jet Pump. This pump is designed as an aftermarket replacement for Watkins Part # 36675, specifically for Hot Springs systems. Please read this manual thoroughly before installation and use to ensure proper function and longevity of your pump.

## 2. SAFETY INFORMATION

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Always observe the following safety precautions to reduce the risk of injury, electric shock, fire, or property damage.

- **Electrical Hazard:** Ensure power is disconnected at the circuit breaker before attempting any installation, maintenance, or service.
- **Voltage Compatibility:** This pump operates on **110 VOLT ONLY**. Connecting to a 220 VOLT system will cause severe damage and void the warranty. Verify your power supply before installation.
- **Qualified Personnel:** Installation and electrical connections should be performed by a qualified electrician or service technician in accordance with all local and national electrical codes.
- **Water and Electricity:** Never operate the pump if it or the surrounding area is wet. Avoid contact with electrical components when wet.
- **Secure Installation:** Ensure the pump is securely mounted to prevent vibration and movement during operation.
- **Drain Plug:** Always ensure the drain plug is properly installed and sealed before operating the pump.

## 3. PRODUCT OVERVIEW

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The Wavemaster 7000 is a robust replacement jet pump designed for specific Hot Springs spa systems. It features reinforced plastic construction for durability and 2-inch inlet and outlet ports for efficient water flow.



Figure 1: Wavemaster 7000 Jet Pump, showing the motor and wet end with 2-inch ports.

Key features include:

- Aftermarket replacement for Watkins Part # 36675.
- Operates on 110V power supply only.
- Reinforced plastic construction for the wet end.
- Standard 2-inch inlet and outlet ports.

## 4. SETUP AND INSTALLATION

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Follow these steps for proper installation of your replacement jet pump. Ensure all safety precautions are observed before proceeding.

1. **Disconnect Power:** Turn off the main power to your hot tub or spa system at the circuit breaker. Verify that no power is reaching the pump.
2. **Drain System:** Drain the hot tub or spa completely to prevent water spillage during pump removal and installation.
3. **Remove Old Pump:** Disconnect the plumbing unions from the old pump. Carefully disconnect the electrical wiring from the old pump, noting the connections for reference. Remove the old pump from its mounting.
4. **Transfer Drain Plug:** Locate the drain plug on your old pump. **It is crucial to transfer this drain plug to your new Wavemaster 7000 pump before installation.** Ensure it is securely tightened to

prevent leaks.

5. **Position New Pump:** Place the new Wavemaster 7000 pump in the mounting location. This pump is designed for direct replacement of Watkins Part # 36675, requiring no modification to the mounting or plumbing.
6. **Connect Plumbing:** Reconnect the plumbing unions to the 2-inch inlet and outlet ports of the new pump. Hand-tighten first, then use a wrench to ensure a snug, leak-free connection. Do not overtighten.
7. **Connect Electrical Wiring:** This pump is 110V only. Connect the electrical wiring to the high-speed side of the pump. Refer to the wiring diagram on the pump motor label and your spa's electrical schematic for correct connections. Ensure all connections are secure and insulated.



Figure 2: Rear view of the Wavemaster 7000 Jet Pump motor, showing typical electrical connection points. Consult the pump's label for specific wiring instructions.

**Important:** Double-check all electrical connections and ensure the pump is properly grounded. Confirm

that the power supply is 110V before proceeding.

## 5. OPERATING INSTRUCTIONS

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After successful installation, follow these steps to operate your Wavemaster 7000 jet pump.

1. **Fill Spa:** Refill your hot tub or spa with water to the recommended operating level.
2. **Check for Leaks:** Before restoring power, visually inspect all plumbing connections for any signs of leaks. Tighten connections as necessary.
3. **Restore Power:** Turn on the main power to your hot tub or spa system at the circuit breaker.
4. **Prime the Pump:** Most spa systems have an automatic priming cycle. If your system does not, or if the pump does not prime automatically, consult your spa's owner's manual for manual priming procedures. Listen for the pump to draw water and begin circulating.
5. **Monitor Operation:** Observe the pump during its initial operation. Check for unusual noises, vibrations, or leaks. Ensure water is flowing through the jets.

The pump will operate according to your spa's control system settings. Refer to your spa's owner's manual for specific instructions on adjusting jet functions and filtration cycles.

## 6. MAINTENANCE

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Regular maintenance ensures optimal performance and extends the life of your pump.

- **Inspect for Leaks:** Periodically check plumbing connections for leaks. Address any leaks promptly to prevent damage.
- **Clean Filter:** Ensure your spa's filter cartridge is regularly cleaned or replaced according to your spa manufacturer's recommendations. A clogged filter can strain the pump.
- **Winterization:** If you live in an area prone to freezing temperatures, properly winterize your spa and pump to prevent freeze damage. This typically involves draining the pump and plumbing lines. Consult your spa's owner's manual for detailed winterization procedures.
- **Motor Ventilation:** Ensure the pump motor has adequate ventilation. Do not obstruct the motor's cooling fins.
- **Electrical Connections:** Annually, or as needed, inspect electrical connections for corrosion or looseness. Ensure they are clean and secure (with power disconnected).

## 7. TROUBLESHOOTING

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This section addresses common issues you might encounter with your jet pump. For complex problems, contact a qualified service technician.

Problem	Possible Cause	Solution
Pump does not start	No power; tripped breaker; faulty wiring; motor issue	Check circuit breaker; verify electrical connections; consult a technician if motor is faulty.
Pump runs but no water flow	Air lock (not primed); closed valves; clogged filter; low water level	Prime the pump; open all valves; clean/replace filter; fill spa to proper level.

Problem	Possible Cause	Solution
Pump is noisy or vibrating	Air in system; loose mounting; debris in wet end; worn bearings	Prime the pump to remove air; secure mounting bolts; inspect wet end for debris (with power off); contact technician for bearing issues.
Water leaking from pump	Loose plumbing connections; faulty seal/gasket; missing drain plug	Tighten plumbing unions; inspect and replace seals/gaskets if necessary; ensure drain plug is installed and tight.

## 8. SPECIFICATIONS

Feature	Detail
Model	Wavemaster 7000
Replacement For	Watkins Part # 36675
Voltage	110V (AC Adapter)
Inlet/Outlet Ports	2 inches
Material	Reinforced Plastic
Product Dimensions (L x W x H)	15.88" x 7.94" x 7.81"
Item Weight	34 Pounds
Specific Uses	Hot Spring Systems, High-Speed Water Flow Rates

## 9. WARRANTY AND SUPPORT

For specific warranty information regarding your Wavemaster 7000 Replacement Jet Pump, please refer to the documentation provided at the time of purchase or contact your retailer. Warranty terms and conditions may vary.

For technical support or assistance with installation and troubleshooting beyond the scope of this manual, please contact the manufacturer or your authorized service provider. Keep your purchase receipt and model information readily available when seeking support.