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Voyager Tools B00FBXZ7ZE

Voyager Tools 1/2hp Dirty Water Submersible Pump Instruction Manual

Model: B00FBXZ7ZE

1. Important Safety Instructions

Please read and understand all safety instructions before operating this pump. Failure to follow these instructions may result in electric shock, fire, serious injury, or property damage. Keep this manual for future reference.

- **Electrical Safety:** Always disconnect the pump from the power supply before performing any maintenance or cleaning. Ensure the power cord and plug are in good condition and not damaged. Do not operate the pump if the power cord is frayed or cut. Use a ground fault circuit interrupter (GFCI) for all electrical connections.
- **Water Safety:** This pump is designed for dirty water transfer. Do not use it for flammable liquids, corrosive chemicals, or drinking water. Ensure the pump is fully submerged during operation to prevent overheating.
- **Personal Safety:** Keep hands, feet, and clothing away from the pump's intake and discharge openings during operation. Do not allow children or unauthorized persons to operate the pump.
- **Installation:** Ensure the pump is placed on a stable, level surface. Do not lift the pump by its power cord. Use the handle provided.

2. Package Contents

Verify that all items are present and undamaged upon unpacking:

- 1x Voyager Tools 1/2hp Dirty Water Submersible Pump
- 1x Elbow connector

3. Product Overview

The Voyager Tools 1/2hp Dirty Water Submersible Pump is a robust solution for transferring dirty water from various sources such as flooded basements, ponds, or hot tubs. It features a powerful motor and an integrated float switch for automatic operation.

- **Max Pump Rate:** 1980 Gallons Per Hour (GPH)
- **Maximum Lift:** 16 feet

- **Pipe Diameter:** 1-1/4"
- **Float Switch:** Automatically turns the pump on and off based on water level, providing worry-free operation.
- **Power Cord:** Extra-long 30 ft power cord for extended reach.



Figure 1: The Voyager Tools 1/2hp Dirty Water Submersible Pump, showing its blue and black housing, integrated handle, and float switch.



Figure 2: A close-up view of the blue float switch, which activates and deactivates the pump based on water levels.



Figure 3: The extra-long 30-foot power cord with a standard electrical plug, providing ample reach for various applications.

4. Setup

1. **Placement:** Position the pump on a solid, level surface in the area where water needs to be removed. Ensure the pump is fully submerged in water before operation.
2. **Hose Connection:** Attach a suitable discharge hose (not included) to the pump's outlet. The pump supports 1", 1-1/4", and 1-1/2" diameter hoses. Secure the hose with a clamp to prevent leaks. The included elbow connector can be used for specific hose routing needs.
3. **Float Switch Adjustment:** The float switch is designed to activate the pump when the water level rises and deactivate it when the water level drops. Ensure the float switch has enough clearance to move freely without obstruction. The float switch typically activates when the water level reaches approximately 30cm.
4. **Electrical Connection:** Plug the pump's power cord into a properly grounded 120V AC outlet protected by a GFCI.

5. Operating Instructions

1. **Initiating Operation:** Once the pump is set up and submerged, plug it into the GFCI-protected outlet. The pump will automatically start when the water level rises sufficiently to lift the float switch.
2. **Automatic Shut-off:** The pump will continue to operate until the water level drops, causing the float switch to fall and deactivate the pump.
3. **Monitoring:** Periodically check the pump's operation and the discharge hose for any blockages or leaks. Ensure the pump remains submerged during operation to prevent dry running, which can cause damage.
4. **Manual Override (if applicable):** Some float switches allow for manual operation by holding the float in the 'up' position. Refer to the specific float switch design if manual operation is desired for short periods.

6. Maintenance

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

- **Cleaning:** After each use, especially when pumping dirty water, rinse the pump thoroughly with clean water. Remove any debris or sediment that may have accumulated around the intake screen or impeller area.
- **Inspection:** Regularly inspect the power cord for any signs of damage, cuts, or fraying. Check the float switch for free movement and ensure it is not obstructed by debris.
- **Storage:** When not in use, store the pump in a dry, frost-free location. If storing for an extended period, ensure the pump is clean and dry.
- **Winterization:** In cold climates, ensure the pump is completely drained and stored indoors to prevent freezing, which can damage internal components.

7. Troubleshooting

If you encounter issues with your pump, refer to the following common problems and solutions:

- **Pump Does Not Start:**
  - Check if the pump is plugged into a live GFCI-protected outlet.
  - Ensure the float switch is in the 'up' position (water level is high enough to activate it).
  - Inspect the power cord for damage.
  - Check for tripped circuit breakers or blown fuses.
- **Pump Runs But No Water is Discharged or Flow is Low:**
  - Verify the pump is fully submerged in water.
  - Check the intake screen for blockages from debris.
  - Inspect the discharge hose for kinks, blockages, or a closed valve.
  - Ensure the discharge hose is not too long or has too many bends, which can reduce flow.
- **Pump Cycles On and Off Frequently:**
  - The float switch may be obstructed or set too low, causing it to activate and deactivate rapidly with small changes in water level. Adjust the float switch position or clear obstructions.
  - Check for leaks in the discharge system that might be causing the water level to drop quickly.

If problems persist after attempting these solutions, contact customer support or a qualified technician.

8. Specifications

Feature	Specification
Brand	Voyager Tools
Horsepower	0.5 HP
Max Pump Rate	1980 GPH
Maximum Lifting Height	16 Feet
Voltage	12 Volts (DC)
Power Source	Battery Powered

Feature	Specification
Diameter of Pipe	1-1/4" (supports 1", 1-1/4", 1-1/2" discharge hoses)
Max Particle Size	1-3/16"
Power Cord Length	30 ft
ASIN	B00FBXZ7ZE
UPC	756554757616

9. Warranty and Support

For warranty information, please refer to the documentation provided with your purchase or contact Voyager Tools directly. For technical support or inquiries, please reach out to the retailer where the product was purchased or the manufacturer's customer service department.

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