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> K2 Pumps UTT05001K 1/2 HP Cast Iron Utility Transfer Pump Instruction Manual

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Model: UTT05001K

INTRODUCTION

The K2 Pumps UTT05001K 1/2 HP Cast Iron Utility Transfer Pump is designed for multi-purpose water transfer in various applications, including household, farm, and plumbing tasks. This manual provides essential information for the safe installation, operation, and maintenance of your pump, ensuring optimal performance and longevity.

This pump features a convenient ON/OFF switch on the motor housing and a brushless DC motor for quiet and efficient operation. Constructed from heavy-duty cast iron, it is built for durability and can move water up to 1350 GPH at 0 PSI, with a maximum pressure of 50 PSI.

SAFETY INFORMATION

Please read and understand all safety instructions before operating the pump. Failure to follow these instructions may result in electric shock, fire, serious injury, or property damage.

- **Electrical Safety:** Always connect the pump to a properly grounded outlet. Do not use extension cords unless absolutely necessary and ensure they are rated for outdoor use and the pump's power requirements. Keep all electrical connections dry.
- **Water Safety:** Do not pump flammable, corrosive, or explosive liquids. This pump is designed for clear water only. Keep children and pets away from the operating pump.
- **Personal Protective Equipment:** Wear safety glasses when installing or servicing the pump to protect against splashes.
- **Operating Environment:** Do not operate the pump in standing water or wet conditions. Ensure adequate ventilation around the motor.
- **Maintenance:** Disconnect power before performing any maintenance or cleaning.

PRODUCT COMPONENTS

Familiarize yourself with the main components of your K2 Pumps UTT05001K transfer pump:

- **Motor Housing:** The upper gold-colored section containing the brushless DC motor.
- **Pump Body:** The lower black-colored section where water enters and exits.
- **Inlet Port:** 3/4 inch threaded connection for the suction hose.
- **Discharge Port:** 3/4 inch threaded connection for the discharge hose.
- **ON/OFF Switch:** Located on the motor housing for easy control.
- **Power Cord:** 10-foot cord for electrical connection.
- **Hose Strainer:** Included accessory to prevent debris from entering the pump.



Figure 1: Front view of the pump, showing the motor housing and pump body.



Figure 2: Right side view, highlighting the motor's cooling fins and power cord connection.



Figure 3: Left side view, showing the pump's compact design.



Figure 4: Top view, featuring the integrated carrying handle and K2 Pumps logo.



Figure 5: Back view, showing the motor housing and pump base.



Figure 6: Angled view, illustrating the power cord entry point.

SETUP

1. **Placement:** Position the pump on a stable, level surface near the water source and the area where water will be discharged. Ensure the pump is easily accessible for operation and maintenance.
2. **Connect Suction Hose:** Attach a 3/4 inch suction hose to the pump's inlet port. Ensure the connection is tight to prevent air leaks, which can affect pump performance. Install the included hose strainer at the end of the suction hose to prevent debris from entering the pump.
3. **Connect Discharge Hose:** Attach a 3/4 inch discharge hose to the pump's outlet port. Direct the discharge hose to the desired location for water removal.
4. **Priming the Pump:** Before starting, the pump casing must be filled with water. Locate the priming port (often a small

cap or plug on the top of the pump body) and remove it. Slowly pour water into the priming port until the pump casing is full. Replace the priming port cap securely. *Note: Running the pump dry can cause damage.*

5. **Electrical Connection:** Plug the 10-foot power cord into a standard 115 Volt, grounded electrical outlet. Ensure the outlet is protected by a Ground Fault Circuit Interrupter (GFCI) for added safety.



Figure 7: Example setup showing the pump connected to a water source (e.g., water heater) and a power outlet, ready for operation.

OPERATING INSTRUCTIONS

1. **Verify Setup:** Double-check all hose connections for tightness and ensure the pump is properly primed. Confirm the discharge hose is directed to a safe and appropriate drainage area.
2. **Start the Pump:** Locate the ON/OFF switch on the motor housing and switch it to the 'ON' position. The pump should begin to operate, and water should start flowing through the discharge hose.
3. **Monitor Operation:** Observe the pump during operation. Ensure a steady flow of water and listen for any unusual noises. If the pump runs without transferring water for more than a few minutes, switch it off immediately and re-prime.
4. **Stop the Pump:** Once the water transfer is complete or if you need to pause operation, switch the ON/OFF switch to the 'OFF' position.
5. **Disconnect:** After use, unplug the pump from the electrical outlet. Disconnect the hoses and drain any remaining water from the pump and hoses.

MAINTENANCE

Regular maintenance ensures the longevity and efficient operation of your K2 Pumps UTT05001K transfer pump.

- **Clean Hose Strainer:** Periodically inspect and clean the hose strainer to remove any accumulated debris. A clogged strainer can significantly reduce pump performance.
- **Inspect Hoses and Connections:** Before each use, check hoses for cracks, leaks, or damage. Ensure all connections are secure.
- **Winterization (for cold climates):** If the pump will be stored in an area where temperatures may drop below freezing, it is crucial to completely drain all water from the pump to prevent damage from freezing. Disconnect hoses, remove priming plug, and tilt the pump to ensure all water escapes. Store in a dry, protected area.
- **General Cleaning:** Wipe down the exterior of the pump with a damp cloth to remove dirt and grime. Do not use harsh chemicals or abrasive cleaners.

TROUBLESHOOTING

Refer to the following table for common issues and their solutions:

Problem	Possible Cause	Solution
Pump does not start	No power to pump ON/OFF switch is off Motor overload	Check power outlet and circuit breaker Turn ON/OFF switch to 'ON' Allow motor to cool, then restart. Check for obstructions.
Pump runs but no water flows	Pump not primed Suction hose not submerged Air leak in suction line Clogged hose strainer Excessive suction lift	Re-prime the pump Ensure suction hose end is fully in water Tighten all suction connections Clean the hose strainer Reduce the vertical distance from water source to pump
Low flow rate	Clogged hose strainer Partially closed valve in discharge line Worn impeller (less common)	Clean the hose strainer Ensure all valves are fully open Contact customer support for service
Pump is noisy	Air in pump or suction line Debris in pump Pump running dry	Re-prime the pump, check for air leaks Disconnect power, inspect for debris Ensure pump is always primed and has water to pump

SPECIFICATIONS

Technical specifications for the K2 Pumps UTT05001K utility transfer pump:

Feature	Specification
Brand	K2
Model	UTT05001K
Horsepower	0.5 HP
Material	Cast Iron

Feature	Specification
Power Source	AC
Voltage	115 Volts
Maximum Flow Rate	22.5 Gallons Per Minute (1350 GPH)
Maximum Pressure	50 PSI
Suction/Discharge Size	3/4 inch
Power Cord Length	10 feet

WARRANTY AND SUPPORT

The K2 Pumps UTT05001K comes with a **1-year limited warranty** from the date of purchase. This warranty covers defects in material and workmanship under normal use. Please retain your purchase receipt as proof of purchase for any warranty claims.

For technical assistance, parts, or warranty inquiries, please visit the official K2 Pumps website or contact their customer service department directly. You can often find contact information on the product packaging or the manufacturer's website.