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› TDRFORCE 3/4 HP Water Pressure Booster Pump User Manual

TDR FORCE JETS

TDRFORCE 3/4 HP Water Pressure Booster Pump User Manual

Model: JETS | Brand: TDR FORCE

INTRODUCTION

This manual provides essential information for the safe and efficient operation and maintenance of your TDRFORCE 3/4 HP Water Pressure Booster Pump. Please read this manual carefully before use to ensure proper application and optimum efficiency.

The TDRFORCE water pressure booster pump is designed for high-efficiency pressure boosting, making it suitable for household water supply, irrigation, and general water transfer. It functions as an ideal lawn sprinkler pump, garden hose pressure booster, shallow well jet pump, and self-priming irrigation pump.

SAFETY PRECAUTIONS

- **Liquid Requirements:** Use only with clean liquids without suspended solids and non-aggressive properties. The liquid temperature should be between -20°C and $+40^{\circ}\text{C}$.
- **Avoid Sand:** Not recommended for sand point applications. Avoid pumping sand into the pump body.
- **Storage:** If the pump remains unused for a long period, empty it to prevent deposit formation or water expansion due to freezing, which could damage the pump body or fixing bolts.
- **Restarting:** When restarting the pump after storage, refill it and ensure the shaft runs freely by inserting a screwdriver into the slot on the fan side of the shaft.

SETUP AND INSTALLATION

The TDRFORCE booster pump is designed for easy installation in water systems, typically assembled with a 1-inch connector.



Figure 1: TDRFORCE Water Pressure Booster Pump with automatic control unit.

Connecting the Pump

1. Identify the inlet and outlet ports on the pump.
2. Connect your water source to the inlet. The pump includes a check valve that should be installed on the inlet side to help keep the pump primed.
3. Connect your output hose or piping to the outlet.
4. **Important for Connections:** Use the included brass connectors. Apply a generous amount of Teflon tape (at least 30 wraps for some connections) to threaded fittings to ensure a watertight seal and prevent leaks. Ensure connectors do not bottom out when tightened. For plastic unions connecting the controller to the pump, do not use Teflon tape as they rely on rubber washers; tighten these firmly.
5. Ensure the pump is placed on a stable, level surface.
6. Plug the pump into a suitable 110V power outlet.

Pressure Adjustment

The automatic pump control unit features a pressure gauge and an adjuster. You can set the desired pressure using the adjuster on the side of the control unit.

OPERATING THE PUMP

The TDRFORCE booster pump is designed for automatic operation. Once connected and powered, it will automatically boost water pressure as needed.



Figure 2: The pump provides stronger power and larger flow for various applications.

Applications

This pump is versatile and can be used for:

- **Household Water Boosting:** Improve water pressure for showers, faucets, and other household needs.
- **Irrigation:** Ideal for farmland and garden irrigation systems, including lawn sprinklers.
- **Water Transfer:** Efficiently transfer water from tanks, wells, or other sources.

- **Filling Pools:** Accelerate the process of filling swimming pools.
- **Underground Water Lifting:** Suitable for lifting water from shallow wells.
- **Solar Pressurized Water Supply:** Can be integrated into solar water systems.



Figure 3: Typical applications for the TDRFORCE Water Pressure Booster Pump.

Automatic Control

The pump features an electric controller for automatic operation, ensuring consistent water pressure and self-priming when water runs. It is designed for 24-hour continuous stable working.

Overload Protection, Safer Use

Equipped with the system to automatically break circuit in case of motor overheating



Figure 4: The pump is equipped with a system to automatically break the circuit in case of motor overheating, ensuring safer use.

Lower Noise, Quieter Operation

Steady running is almost quiet as breathing



Figure 5: The pump operates with lower noise for quieter operation.

MAINTENANCE

- **Long-Term Storage:** If the pump will not be used for an extended period, drain all water from the pump body. This prevents the formation of mineral deposits and protects against damage from freezing water, which can cause bolts to tear or the pump body to crack.
- **Pre-Operation Check:** Before restarting the pump after storage, refill it with water. Verify that the motor shaft rotates freely by inserting a screwdriver into the slot on the fan side of the shaft and turning it.
- **Regular Inspection:** Periodically check all connections for leaks and tighten as necessary.

TROUBLESHOOTING

If you encounter issues with your TDRFORCE booster pump, consider the following common problems and solutions:

Common Issues & Solutions

- **Leaks at Fittings:**

- **Problem:** Water leaking from connections, especially brass fittings.
- **Solution:** Ensure sufficient Teflon tape is applied to threaded connections. Some users report needing up to 30 wraps for a secure seal. Ensure fittings are tightened adequately but not over-tightened to avoid stripping threads.
- **Problem:** Leaks at the plastic union between the controller and the pump.
- **Solution:** This union uses rubber washers, so do not use Teflon tape. Ensure the union is tightened firmly to compress the rubber washers.

- **Pump Not Shutting Off / Continuous Running:**

- **Problem:** The pump runs continuously even when water flow is stopped.
- **Solution:** This can indicate an issue with the pressure switch or a leak in the system that prevents pressure from building up. Check for any leaks in your plumbing system. If the issue persists, contact customer support.

- **No Water Flow / Low Pressure:**

- **Problem:** The pump is running but not delivering water or delivering very low pressure.
- **Solution:** Ensure the pump is properly primed. Check the inlet for any blockages or air leaks. Verify that the check valve is installed correctly and functioning. Ensure the water source has adequate supply.

SPECIFICATIONS

TYPICAL APPLICATIONS

not just domestic water, agricultural water also need us



01

Farmland and Garden Irrigation



02

Underground Water Lifting



03

Household Water Booster



04

Solar Pressurized Water Supply

Figure 6: Key internal components of the TDRFORCE Water Pressure Booster Pump.

Feature	Specification
Brand	TDR FORCE
Model Number	JETS
Style	3/4 hp
Wattage	550 watts
Voltage	115 Volts
Maximum Flow Rate	17 Gallons Per Minute (1056 GPH)
Maximum Lifting Height	131 Feet
Material	Stainless Steel
Product Dimensions	23"L x 9"W x 10"H

Item Weight	24.3 Pounds
Included Components	Check valve (x1), Handle (x1), Teflon tape (x1)

WARRANTY AND SUPPORT

As a professional manufacturer in the home water pump field, TDRFORCE is committed to providing excellent customer service.

Warranty Information

Your TDRFORCE Water Pressure Booster Pump comes with a **180-day warranty** from the date of purchase.

Customer Support

TDRFORCE offers comprehensive presale and after-sale services. If you have any questions regarding the product, installation, operation, or troubleshooting, please do not hesitate to contact TDRFORCE customer support. Refer to your product packaging or purchase documentation for specific contact details.