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TDR FORCE FL-540E

TDRFORCE Fresh Water Pump Instruction Manual

Model: FL-540E | Brand: TDR FORCE

1. Introduction

The TDRFORCE 5.5GPM Fresh Water Pump (Model FL-540E) is a versatile and powerful diaphragm pump designed to increase water pressure for various applications. With its self-priming function and robust construction, it serves as an ideal solution for RVs, marine vessels, homes, and garden watering systems.



Figure 1: Wide range of applications for the TDRFORCE water pump.

2. Package Contents

Upon opening your TDRFORCE Fresh Water Pump package, you should find the following items:

- TDRFORCE Water Pressure Pump Unit (Model FL-540E)
- 50-Mesh Inlet Strainer
- Various Connectors/Attachments (including 3/4" male inlet/outlet and 1/2" male inlet connectors)
- Teflon Tape
- Power Cord (4.3 ft with standard US plug)



Figure 2: TDRFORCE Water Pump and its accessories.



Figure 3: Detailed view of pump connections and included fittings.

3. Specifications

Feature	Specification
Model Number	FL-540E
Brand	TDR FORCE
Power Source	110V AC
Maximum Flow Rate	5.5 Gallons Per Minute (GPM) / 330 GPH
Maximum Pressure	75 PSI (5 Bar)
Maximum Lifting Height	160 Feet
Item Weight	6.6 Pounds
Material	Stainless Steel
Color	Black
UPC	724545082900

4. Setup and Installation

The TDRFORCE water pump is designed for easy installation. Follow these steps to set up your pump:

1. **Prepare the Pump:** Ensure the pump is placed on a stable, flat surface. The rubber feet on the base help prevent wobbling and reduce noise.
2. **Remove Protective Caps:** Before connecting, ensure any blue plastic protective caps on the pump's internal mechanisms are removed.
3. **Connect Inlet Strainer:** Attach the 50-mesh inlet strainer to the pump's inlet port. This strainer is crucial for filtering impurities from the water source and preventing damage to the diaphragm pump. Ensure it is hand-tightened only.
4. **Connect Water Source:** Connect your water source (e.g., RV tank, bucket, marine water supply) to the inlet strainer using appropriate connectors (3/4" male inlet/outlet or 1/2" male inlet connector).
5. **Connect Output Hose:** Connect your garden hose, shower, or sink to the pump's outlet port.
6. **Apply Teflon Tape (if needed):** If using Teflon tape for connections, apply it carefully to threaded fittings. Be mindful not to allow any debris from the tape to enter the pump mechanism, as this could cause damage and potentially void the warranty.
7. **Power Connection:** Plug the 4.3 ft power cord into a standard 110V AC outlet.

Video 1: Official TDRFORCE demonstration of pump setup and operation, including connecting to a water source and hose. This video showcases the pump's quiet operation and effective water flow for various applications like garden watering.

5. Operating Instructions

The TDRFORCE water pump features automatic on/off functionality based on water demand.

1. **Initiate Water Flow:** Once the pump is connected and powered on, open the water valve at your desired output point (e.g., turn on the faucet, open the garden hose nozzle). The pump will automatically activate to

build pressure and deliver water.

2. **Automatic Shut-off:** When you close the water valve, the pump will sense the pressure build-up and automatically shut off. It will remain off until water is demanded again.
3. **Pressure Adjustment (Advanced):** The pump's pressure can be adjusted. To do this, you will need a 2mm or 2.5mm Allen wrench. Locate the Allen screw under the cover near the top of the front of the pump (secured by a Philips screw). Carefully remove the cover. Turn the Allen screw clockwise to increase pressure. It is recommended to monitor the pressure with a gauge during adjustment. **Caution: Do not touch electrical terminals while the pump is plugged in.**

Important Note: This pump is not designed for continuous use. Prolonged continuous operation may lead to overheating and damage. It is best suited for intermittent use applications such as on-demand water supply in RVs, boats, or for garden hose boosting.

6. Maintenance

Regular maintenance ensures the longevity and optimal performance of your TDRFORCE water pump:

- **Strainer Cleaning:** Periodically inspect and clean the 50-mesh inlet strainer. Remove any accumulated debris, sand, or impurities to maintain proper water flow and prevent pump strain.
- **Fresh Water Use:** Always operate the pump with fresh water. Solid particles and corrosive liquids can cause significant damage to the diaphragm pump and should be avoided.
- **Winterization:** If storing the pump in freezing temperatures, ensure it is completely drained of water to prevent ice damage.

7. Troubleshooting

Here are some common issues and their potential solutions:

Problem	Possible Cause	Solution
Pump does not turn on.	No power, clogged inlet, faulty switch.	Check power connection. Clean inlet strainer. Ensure water valve is open to create demand.
Low water pressure.	Clogged strainer, air in system, low water source.	Clean the inlet strainer. Bleed air from the system. Ensure adequate water in the source tank. Consider adjusting pressure (see Operating Instructions).
Pump runs continuously.	Leak in system, pressure switch issue.	Check all connections for leaks. Ensure all water outlets are closed. If problem persists, contact support.
Pump overheats.	Continuous operation, insufficient ventilation.	Ensure pump is used intermittently, not continuously. Provide adequate ventilation around the pump.

8. Warranty and Support

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

- **Warranty:** The TDRFORCE Fresh Water Pump comes with a 180-day warranty from the date of purchase.
- **Support:** TDRFORCE offers comprehensive pre-sale and after-sale services. If you have any questions, concerns, or require assistance with your product, please do not hesitate to contact TDRFORCE customer support.

Contact information can typically be found on the product packaging or the official TDRFORCE website.

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