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TERA PUMP 20177

TERA PUMP TRFA03 Battery Powered Fuel Transfer Pump

Model: TRFA03 (20177)

1. Introduction

Thank you for choosing the TERA PUMP TRFA03 Battery Powered Fuel Transfer Pump. This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your new pump. Please read this manual thoroughly before use and retain it for future reference.
The TRFA03 is designed for transferring various liquids including gasoline, diesel, kerosene, E15/E85, and non-potable water. Its patented power nozzle and auto-stop sensor help prevent spills and simplify the transfer process.

2. Safety Information

WARNING: Failure to follow these safety instructions may result in fire, explosion, electric shock, or serious injury.

- Always operate the pump in a well-ventilated area.
- Do not smoke or use open flames near the pump or fuel.
- Wear appropriate personal protective equipment, including eye protection and gloves, when handling fuel.
- Ensure all connections are secure before operating the pump.
- Do not pump corrosive liquids, strong acids, or potable water.
- Keep children and pets away from the pumping area.
- Do not immerse the pump motor housing in liquid.
- Remove batteries when the pump is not in use or during maintenance.

3. Package Contents

Verify that all items are present in the package:

- Terapump - TRFA03 - Battery Powered Fuel Transfer Pump with Power Nozzle

4. Setup

4.1 Battery Installation

1. Locate the battery compartment on the handle of the pump.
2. Twist and remove the battery cover.
3. Insert four (4) AA batteries, ensuring correct polarity (+/-) as indicated inside the compartment.
4. Replace the battery cover and twist to secure it.

4.2 Hose Connection

The TRFA03 comes with an integrated intake hose and a discharge hose with a power nozzle. Ensure both are free from kinks or obstructions before use.



Image 1: The TERA PUMP TRFA03 showing the main pump unit, intake hose, and the discharge hose with the power nozzle attached. This image illustrates the overall product assembly.

5. Operating Instructions

5.1 Preparation

- Place the source container (e.g., fuel can) on a stable, elevated surface above the receiving container (e.g., vehicle fuel tank) to facilitate gravity flow and efficient pumping.
- Ensure both containers are securely positioned to prevent tipping.

5.2 Fuel Transfer

1. **Insert Intake Hose:** Carefully insert the intake hose into the source container, ensuring the pump's impeller is fully submerged in the liquid.
2. **Position Discharge Nozzle:** Place the power nozzle securely into the receiving container's opening. Ensure it is stable and will not fall out during transfer.
3. **Engage Power Switch:** Locate the power switch on the ergonomic grip of the pump. Press the switch to the 'ON' position to begin pumping.
4. **Hands-Free Operation:** For extended transfers, utilize the locking clip on the power switch to maintain continuous operation without holding the switch.
5. **Monitor Transfer:** Observe the liquid level in both containers.
6. **Auto-Stop Feature:** The TRFA03 is equipped with an auto-stop sensor. When the receiving container is full, or the source container is empty, the pump will automatically shut off to prevent spills.
7. **Disengage Power:** Once the transfer is complete or the auto-stop activates, press the power switch to the 'OFF' position (if the locking clip was used).
8. **Remove Hoses:** Carefully remove the discharge nozzle from the receiving container, allowing any residual liquid to drain. Then, remove the intake hose from the source container.

6. Maintenance

6.1 Cleaning

- After each use, especially when transferring different types of fuel, it is recommended to run a small amount of clean, compatible liquid (e.g., fresh fuel) through the pump to flush out residues.
- Wipe the exterior of the pump with a clean, dry cloth. Do not use harsh chemicals or abrasive cleaners.

6.2 Storage

- Store the pump in a cool, dry place, away from direct sunlight and extreme temperatures.
- Ensure the hoses are free of kinks and stored neatly.
- Remove batteries if the pump will not be used for an extended period to prevent leakage and corrosion.

6.3 Battery Replacement

Replace batteries when the pump's flow rate decreases significantly or if the pump fails to start. Refer to section 4.1 for battery installation instructions.

7. Troubleshooting

Problem	Possible Cause	Solution
Pump does not start	Dead or incorrectly installed batteries	Check battery polarity; replace with fresh AA batteries.
Slow flow rate	Low batteries; clogged intake filter; kinked hose	Replace batteries; clean intake filter; straighten hoses.

Problem	Possible Cause	Solution
Auto-stop not working	Sensor obstructed or dirty; liquid level too low to activate sensor	Clean the sensor area on the nozzle; ensure sufficient liquid level for sensor activation.
Leaking from connections	Loose connections; damaged O-rings	Tighten all connections; inspect and replace O-rings if damaged.

8. Specifications

- **Brand:** TERA PUMP
- **Model Number:** 20177 (TRFA03)
- **Power Source:** Battery (4x AA, not included)
- **Flow Rate:** Up to 2.6 gallons per minute (approx.)
- **Features:** Auto-stop sensor, power switch on ergonomic grip, locking clip for hands-free operation, durable DC impeller motor with metal cap.
- **Compatible Liquids:** Gasoline, Diesel, Kerosene, E15/E85, Non-potable water.
- **Fit Type:** Universal Fit

9. Warranty and Support

This TERA PUMP TRFA03 is covered by a manufacturer's warranty. For specific details regarding warranty coverage, terms, and conditions, please refer to the documentation included with your purchase or contact TERA PUMP customer support.
For technical assistance, troubleshooting not covered in this manual, or warranty claims, please contact TERA PUMP customer support through their official website or the retailer where the product was purchased.

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