

Truper FM-425

TRUPER FM-425 15 L (4 Gallon) Backpack Sprayer Instruction Manual

Model: FM-425

1. INTRODUCTION

This manual provides essential instructions for the safe and effective use, assembly, operation, and maintenance of your TRUPER FM-425 15 L (4 Gallon) Backpack Sprayer. Please read this manual thoroughly before operating the sprayer and retain it for future reference.

The TRUPER FM-425 is designed for agricultural applications, including chemical spraying, fertilizer application, garden spraying, and pest control. Its knapsack style allows for comfortable portability during use.

2. SAFETY INFORMATION

WARNING: Failure to follow these safety instructions may result in serious injury or property damage.

- Always wear appropriate protective clothing, including gloves, long sleeves, long pants, and eye/face protection, when using the sprayer.
- Keep the sprayer away from heat sources and open flames.
- Do not use the sprayer with incompatible chemicals. Always verify chemical compatibility with the sprayer materials before use.
- Always follow the manufacturer's instructions for safe operation and maintenance of both the sprayer and any chemicals being used.
- In case of accidental chemical release or contact, rinse thoroughly with water and seek medical attention if necessary.
- Keep children and pets away from the sprayer and sprayed areas.
- Do not modify the sprayer in any way. Use only genuine Truper replacement parts.

- Ensure all connections are secure before pressurizing the sprayer.

3. PRODUCT COMPONENTS OVERVIEW

Familiarize yourself with the main components of your TRUPER FM-425 Backpack Sprayer.



Figure 3.1: Overview of the TRUPER FM-425 Backpack Sprayer with key components labeled. This image shows the polyethylene tank, reinforced hose, brass lance, adjustable nozzle, and lid with handle.

- **Polyethylene Tank:** Durable tank for holding liquids, with a 15 L (4 Gallon) capacity.
- **Lid with Handle:** Securely seals the tank and provides a carrying handle.
- **Reinforced Hose:** Connects the pump mechanism to the spray lance.
- **Brass Lance:** Corrosion-resistant spray wand for precise application.
- **Adjustable Nozzle (Jet-Cone):** Allows for adjustment of spray pattern from a fine mist to a direct stream.
- **Pump Mechanism:** Hand-powered pump to build pressure within the tank.
- **Adjustable Padded Straps:** Ergonomic straps for comfortable carrying as a backpack.



Correas ajustables y acolizadas para mayor comodidad

Figure 3.2: Rear view of the sprayer highlighting the adjustable and padded shoulder straps designed for user comfort during extended use.

4. SETUP

1. **Unpacking:** Carefully remove all components from the packaging. Verify that all included components (1 x Pump, 1 x Hose) are present. Refer to Figure 3.1 for component identification.

2. **Strap Adjustment:** Adjust the padded shoulder straps to fit comfortably on your back. Ensure the sprayer sits securely and balanced.
3. **Hose and Lance Assembly:**
 - Connect the reinforced hose to the pump outlet on the sprayer tank. Tighten securely to prevent leaks.
 - Attach the brass lance to the other end of the hose. Ensure a tight connection.
 - Verify the adjustable nozzle is securely attached to the end of the brass lance.
4. **Pre-Use Inspection:** Before first use, inspect all connections, hoses, and the tank for any signs of damage or leaks.

5. OPERATING INSTRUCTIONS

1. **Prepare Solution:** Prepare your desired spraying solution (chemical, fertilizer, etc.) according to the manufacturer's instructions.
2. **Fill Tank:** Unscrew the lid with handle and carefully pour the prepared solution into the polyethylene tank. Do not overfill beyond the maximum capacity indicator (15 L / 4 Gallons).
3. **Secure Lid:** Tightly screw the lid back onto the tank to ensure a proper seal.
4. **Wear Sprayer:** Place the backpack sprayer on your back, adjusting the padded straps for comfort and stability.
5. **Pressurize Tank:** Operate the hand pump lever repeatedly to build pressure inside the tank. Continue pumping until resistance is felt, indicating sufficient pressure.
6. **Adjust Nozzle:** Rotate the adjustable nozzle at the end of the brass lance to select the desired spray pattern (e.g., fine mist for broad coverage, jet stream for targeted application).
7. **Begin Spraying:** Squeeze the trigger on the lance handle to begin spraying. Release the trigger to stop. Maintain consistent pumping to sustain pressure during operation.
8. **Depressurize:** After use, or before opening the tank, always depressurize the sprayer by holding the trigger open until all pressure is released.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your sprayer.

- **Cleaning After Each Use:**
 - Empty any remaining solution from the tank.
 - Rinse the tank thoroughly with clean water.
 - Fill the tank with clean water and pump it through the hose and lance to flush out any chemical residue. Repeat several times.
 - Clean the nozzle by disassembling it and rinsing with water. Use a soft brush if necessary to remove blockages.
- **Seal and Gasket Inspection:** Periodically inspect all seals and gaskets (e.g., NBR seals) for wear, cracks, or damage. Replace them if necessary to prevent leaks and maintain pressure.
- **Lubrication:** Apply a small amount of silicone grease to the pump piston O-rings annually or as needed to ensure smooth operation and proper sealing.
- **Storage:** Store the sprayer in a clean, dry, and cool place, away from direct sunlight and freezing temperatures. Ensure the tank is empty and clean before storage.

7. TROUBLESHOOTING

Common Issues and Solutions

Problem	Possible Cause	Solution
No pressure or low pressure	Loose connections, worn seals/gaskets, clogged nozzle, damaged pump.	Check all connections for tightness. Inspect and replace worn seals/gaskets. Clean the nozzle. Inspect pump for damage.
Leaking from tank or hose	Loose connections, cracked hose, damaged tank, worn seals.	Tighten connections. Inspect hose for cracks and replace if necessary. Check tank for damage. Replace worn seals.
Uneven or inconsistent spray pattern	Partially clogged nozzle, incorrect nozzle adjustment.	Clean the nozzle thoroughly. Adjust the nozzle to the desired spray pattern.
Pump handle is stiff or difficult to operate	Lack of lubrication on pump O-rings, debris in pump mechanism.	Lubricate pump O-rings with silicone grease. Disassemble and clean pump mechanism if debris is suspected.

If you encounter issues not listed here or require further assistance, please contact Truper customer support.

8. SPECIFICATIONS

- **Model:** FM-425
- **Brand:** Truper
- **Tank Volume:** 15 Liters (4 Gallons)
- **Power Source:** Hand Powered
- **Style:** Knapsack (Backpack)
- **Item Weight:** Approximately 4.74 Kilograms (10.43 pounds)
- **Package Dimensions:** Approximately 21.42 x 14.65 x 9.13 inches
- **Included Components:** 1 x Pump, 1 x Hose
- **Recommended Uses:** Chemical sprayer, Fertilizer sprayer, Garden sprayer, Pest Control
- **Seals:** NBR seals for chemical resistance and long life.

9. WARRANTY AND SUPPORT

Truper products are manufactured to high-quality standards. For warranty information or technical support, please refer to the warranty card included with your product or visit the official Truper website. Keep your purchase receipt as proof of purchase.

Important Safety Notice: This product may expose you to chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

