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Hudson 19004

Hudson 4 Gallon Piston Pump Backpack Sprayer Instruction Manual

Model: 19004

PRODUCT OVERVIEW

The Hudson® Piston Backpack Sprayer is engineered for both professional landscapers and homeowners, making it suitable for a wide range of large home and garden projects. Its design prioritizes user convenience and efficiency, featuring a large tank opening with an integrated filter to facilitate easy liquid addition and prevent debris from entering the tank. The ergonomic handle ensures comfortable operation, while the lock-on thumb trigger allows for continuous, effortless spraying. Precision spraying in hard-to-reach areas is made possible by the heavy-duty 22-inch fiberglass wand and an adjustable nozzle that transitions from a fine stream to a mist. The pump handle can be interchanged for either left or right-handed users, and the backpack harness includes adjustable padded straps and a waist belt for enhanced comfort and stability during use.





Overall view of the Hudson 4 Gallon Piston Pump Backpack Sprayer, showcasing its main components including the tank, pump handle, and spray wand.

IMPORTANT SAFETY INFORMATION

WARNING:

- Always wear appropriate protective gear, including gloves and eye protection, when handling chemicals.
- Avoid direct eye contact with sprayed liquids. In case of contact, flush eyes immediately with plenty of water and seek medical attention.
- Do not ingest or inhale the contents of the sprayer. Use in well-ventilated areas.

- Safely dispose of used chemicals and their packaging according to local regulations.
- Exercise caution when handling pressurized liquids. Ensure all connections are secure before pressurizing.
- Use the lock-on trigger carefully to prevent accidental or continuous spraying when not intended.
- Keep out of reach of children and pets.

COMPONENTS AND PARTS

The Hudson 4 Gallon Piston Pump Backpack Sprayer includes the following main components:

- 4-Gallon Tank (White, High Density Polyethylene)
- Piston Pump Assembly
- Heavy-Duty 22-inch Fiberglass Wand
- Adjustable Nozzle (Stream to Mist)
- Hose (46 Inches)
- Shut-off Valve with Lock-on Trigger
- Pump Handle (Interchangeable for left or right-handed use)
- Backpack Harness with Adjustable Padded Straps and Waist Belt
- Large Mouth Opening with Filter



Top view of the sprayer showing the tank opening and the spray wand resting on top.



Detailed view of the shut-off valve and lock-on trigger mechanism on the spray wand.

SETUP AND ASSEMBLY

1. **Attach the Hose:** Connect the hose to the sprayer tank outlet and the spray wand handle. Ensure all connections are tightened securely to prevent leaks.
2. **Attach the Spray Wand:** Securely attach the fiberglass wand to the spray handle.
3. **Install Pump Handle:** Insert the pump handle into the pump mechanism. The handle can be installed on either the left or right side of the sprayer to accommodate user preference.
4. **Adjust Backpack Harness:** Put on the backpack sprayer. Adjust the padded shoulder straps and the waist belt to ensure a comfortable and stable fit. The sprayer should sit securely on your back without excessive movement.



A user demonstrating the adjustable padded straps and waist belt for comfortable wear, along with a close-up of the large mouth opening for easy filling.

OPERATING INSTRUCTIONS

1. **Prepare Solution:** Carefully mix your desired liquid solution according to the manufacturer's instructions.
2. **Fill Tank:** Unscrew the large tank opening cap. Pour the prepared solution into the tank, utilizing the integrated filter to prevent debris. Do not overfill. Securely replace the cap.

3. **Pressurize Sprayer:** Pump the handle repeatedly until resistance is felt and the sprayer is adequately pressurized.
4. **Adjust Nozzle:** Rotate the adjustable nozzle at the end of the wand to select your desired spray pattern, from a fine mist for delicate plants to a strong stream for broader coverage.
5. **Begin Spraying:** Point the wand towards the target area and depress the thumb trigger on the handle to begin spraying. For continuous spraying, engage the lock-on feature by pushing the trigger forward.
6. **Stop Spraying:** Release the thumb trigger to stop spraying. If the lock-on feature is engaged, disengage it by pulling the trigger back.
7. **Depressurize:** After use, always depressurize the sprayer by holding the trigger until all pressure is released.



The adjustable nozzle allows for a fine mist suitable for delicate flowers or a strong stream for larger areas.



A user operating the sprayer, highlighting the heavy-duty fiberglass wand and the lock-on trigger for continuous spraying.

MAINTENANCE AND STORAGE

- **Cleaning:** After each use, thoroughly rinse the tank, hose, and wand with clean water. Pump clean water through the sprayer to flush out any chemical residue.
- **Nozzle Cleaning:** If the nozzle becomes clogged, remove it and clean any debris.
- **Inspection:** Regularly inspect the hose, seals, and connections for any signs of wear, cracks, or damage. Replace worn parts as necessary.
- **Lubrication:** Periodically lubricate the pump piston O-rings with silicone grease to maintain smooth operation.
- **Storage:** Store the sprayer in a cool, dry place, away from direct sunlight and freezing temperatures. Ensure the tank is empty and depressurized before storage.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No spray or weak spray	<ul style="list-style-type: none">• Insufficient pressure• Clogged nozzle• Air leak in system	<ul style="list-style-type: none">• Pump more to build pressure.• Clean the nozzle.• Check all connections (hose, wand, cap) for tightness. Inspect seals and O-rings for damage.
Liquid leaking from connections	<ul style="list-style-type: none">• Loose connections• Damaged O-rings or seals	<ul style="list-style-type: none">• Tighten all connections.• Inspect and replace any damaged O-rings or seals.
Pump handle difficult to operate	<ul style="list-style-type: none">• Dry or worn piston O-rings	<ul style="list-style-type: none">• Lubricate piston O-rings with silicone grease.• Replace O-rings if worn.

SPECIFICATIONS

- **Brand:** Hudson
- **Model Name:** Hudson 4 Gallon Piston Pump Backpack Sprayer
- **Model Number:** 19004
- **Tank Volume:** 4 Gallons (15 Liters)
- **Color:** White
- **Recommended Uses:** Pest Control, Vehicle Washing, Watering, Weed Control
- **Material:** Fiberglass (wand), Polyethylene, High Density Polyethylene (tank)
- **Item Weight:** 9.5 Pounds
- **Style:** Backpack
- **Power Source:** Hand Powered
- **Hose Length:** 46 Inches
- **Product Dimensions:** 11 x 7 x 21 inches
- **UPC:** 026156915029
- **Manufacturer:** HD Hudson

WARRANTY AND SUPPORT

For specific warranty information and customer support, please contact Hudson directly through their official website or the retailer where the product was purchased. Keep your proof of purchase for any warranty claims.

Visit the Hudson Store: [Hudson Store on Amazon](#)

