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NorthStar R/B:99909

NorthStar ATV Spot Sprayer Instruction Manual

Model: R/B:99909
Brand: NorthStar

Introduction

This manual provides essential instructions for the safe and efficient operation, setup, maintenance, and troubleshooting of your NorthStar ATV Spot Sprayer, Model R/B:99909. Please read this manual thoroughly before using the product to ensure proper function and longevity.



Image: The NorthStar ATV Spot Sprayer, a white tank with a black NorthStar logo, featuring an attached spray gun and hose. This image shows the overall product design.

Safety Information

Always wear appropriate personal protective equipment (PPE) when operating the sprayer, especially when handling

chemicals. Ensure the sprayer is securely mounted to your ATV before transport or operation. Do not exceed the maximum pressure rating of 70 PSI. Disconnect power when performing maintenance or cleaning.

Setup

1. **Unpacking and Inspection:** Carefully remove all components from the packaging. Inspect for any damage that may have occurred during shipping. Verify all parts are present according to the packing list.
2. **Component Assembly:**
    - **Secure Connections:** Before initial use, inspect all factory-assembled connections, including the drain fitting and hose attachments. Tighten any loose connections to prevent leaks. Some connections may require pipe sealant for a secure fit.
    - **Attach Spray Gun:** Connect the deluxe trigger spray gun to the 15-foot hose. Ensure the connection is tight.
    - **Mounting:** Securely mount the 26-gallon tank to your ATV using appropriate straps or mounting hardware (not included). Ensure the tank is stable and will not shift during operation.
3. **Power Connection:** Connect the 12V power lead from the sprayer pump to your ATV's 12V power source. Ensure a secure and proper electrical connection.



Image: An annotated diagram of the NorthStar ATV Spot Sprayer, highlighting key components such as easy-grip carrying handles, easy-fill 7.5-inch diameter tank lid, Northstar regulator with pressure gauge, easy-access oversized inlet filter, extra-thick polymer tank walls with molded-in gallon markers, and the deluxe trigger spray gun with adjustable cone-to-stream brass nozzle.

Operating Instructions

1. **Filling the Tank:** Open the easy-fill 7.5-inch diameter tank lid. Fill the 26-gallon tank with the desired liquid, observing the molded-in gallon markers. Close the lid securely to prevent spills.
2. **Priming the Pump:** Ensure all connections are secure. Turn on the 12V power to the pump. The 2.2 GPM NorthStar NSQ Series quick-connect on-demand pump should begin to prime itself within a few seconds. If priming is slow, ensure there are no air leaks in the suction line.
3. **Adjusting Spray Pressure:** Use the Northstar regulator and pressure gauge to fine-tune the spray pressure. The pump generates up to 70 PSI. Adjust the regulator to achieve the desired pressure for your application.
4. **Using the Spray Gun:**
    - Grip the deluxe trigger spray gun.
    - Adjust the brass nozzle to achieve either a stream or a cone spray pattern, depending on your needs.

- Depress the trigger to begin spraying. Release the trigger to stop.

5. **Spraying Technique:** Maintain a consistent speed and distance from the target area for even application. The sprayer is designed for precision spraying, with a maximum vertical reach of 19 feet.



Image: The NorthStar ATV Spot Sprayer with text overlays indicating "LARGE CAPACITY 26 GALLON TANK" and "PRECISION SPRAYING MAX VERTICAL 19FT." This illustrates the sprayer's capabilities.



Image: The NorthStar ATV Spot Sprayer with text overlays indicating "ADJUSTABLE NOZZLE STREAM TO CONE" and "EASY ATTACHMENT FITS ON ATV." This highlights key features for user convenience.

Maintenance

- **After Each Use:**
  - Empty any remaining liquid from the tank.
  - Rinse the tank thoroughly with clean water.
  - Run clean water through the pump and spray gun for several minutes to flush out any chemical residue.
  - Clean the easy-access oversized inlet filter.
- **Seasonal Storage:** For prolonged storage, especially in freezing temperatures, ensure the pump and lines are completely drained of all liquids. Consider running RV antifreeze through the system to prevent damage.
- **Pump Care:** The patented DXS-3 pump valves are made with chemical-resistant Viton, and the Santoprene

diaphragm offers superior reliability. Regular flushing helps maintain these components.

- **Leak Checks:** Periodically inspect all fittings, hoses, and the tank for any signs of leaks or damage. Tighten or replace components as necessary.

Troubleshooting

Problem	Possible Cause	Solution
No or Low Pressure	Clogged nozzle, low fluid level, air leak in suction, pump malfunction.	Clean nozzle, refill tank, check all connections for tightness, inspect pump inlet filter.
Pump Not Priming	Air in system, dry pump, clogged inlet filter.	Ensure tank is full, check for air leaks in suction line, clean inlet filter, briefly run pump with spray gun open to purge air.
Leaks from Tank/Fittings	Loose connections, damaged O-rings/seals, cross-threaded fittings.	Tighten all fittings, inspect and replace damaged seals, apply pipe sealant if necessary.
Hose Detaches from Spray Gun	Loose clamp, worn hose.	Secure hose with a proper clamp. If the hose is worn, replace it.

Specifications

- **Brand:** NorthStar
- **Model Name:** ATV Spot Sprayer
- **Item Model Number:** R/B:99909
- **Tank Volume:** 26 Gallons
- **Pump:** 12V, 2.2 GPM NorthStar NSQ Series quick-connect on-demand pump
- **Maximum Pressure:** 70 PSI
- **Hose Length:** 15 Feet
- **Nozzle:** Adjustable stream-to-cone brass nozzle
- **Pump Valves:** Patented DXS-3 with chemical-resistant Viton
- **Diaphragm:** Santoprene
- **Item Weight:** 32 Pounds
- **Product Dimensions:** 18"W x 15"H
- **Material:** Brass (nozzle), Polymer (tank)

Warranty and Support

For warranty information or technical support, please contact NorthStar customer service. Refer to your purchase documentation for specific warranty terms and contact details. You may also visit the official NorthStar website for additional resources and support.
Manufacturer: NorthStar
ASIN: B07N7JDLP2
NorthStar Store: Visit the NorthStar Store on Amazon

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