

## NorthStar 268170

# NorthStar Skid Sprayer Model 268170 User Manual

200-Gallon Capacity, 160cc Honda GX160 Engine

## 1. INTRODUCTION

This manual provides essential instructions for the safe and efficient operation, maintenance, and troubleshooting of your NorthStar Skid Sprayer, Model 268170. Please read this manual thoroughly before operating the equipment to ensure proper use and to prevent injury or damage.

## 2. SAFETY INFORMATION

Always prioritize safety when operating the NorthStar Skid Sprayer. Failure to follow safety instructions can result in serious injury or equipment damage.

- Read and understand all instructions before use.
- Wear appropriate personal protective equipment (PPE), including eye protection, gloves, and protective clothing, especially when handling chemicals.
- Ensure the sprayer is securely mounted or placed on a stable, level surface before operation.
- Do not operate the engine in an enclosed area without proper ventilation to avoid carbon monoxide poisoning.
- Handle fuels and chemicals with extreme care. Refer to chemical manufacturer's safety data sheets (SDS) for specific handling instructions.
- Keep children and bystanders away from the operating area.
- Never point the spray gun at people, animals, or electrical equipment.
- Turn off the engine and relieve pressure before performing any maintenance or adjustments.

## 3. PRODUCT OVERVIEW

The NorthStar Skid Sprayer Model 268170 is designed for large-capacity spraying applications, featuring a robust 200-gallon tank and a reliable Honda GX160 engine.



Figure 3.1: Overall view of the NorthStar Skid Sprayer, showcasing the 200-gallon tank, hose reel, and engine assembly.

### Key Components:

- **200-Gallon Tank:** Constructed from chemical-resistant polymer, designed for durability and UV stabilization.
- **Honda GX160 Engine:** A 160cc engine providing reliable power for the pump.
- **Diaphragm Pump:** Delivers efficient spraying with an 11 GPM (gallons per minute) flow rate.
- **Hose Reel:** Includes 300 feet of hose for extended reach.
- **Lawn Spray Gun:** For precise application.
- **Heavy-Duty Frame:** Red powder-coated steel frame for protection and stability.



Figure 3.2: Detailed view of the powerful 160cc Honda GX160 engine, which powers the sprayer's pump system.





Figure 3.3: View of the sprayer's control panel, including pressure gauge and pump connections, located near the engine.

## 4. SETUP

Proper setup is crucial for safe and effective operation.

### 4.1 Mounting the Sprayer

The skid sprayer is designed for versatile mounting, commonly in the bed of a truck or on a trailer.

- Ensure the mounting surface is capable of supporting the sprayer's weight when full (approximately 200 gallons of water weighs over 1600 lbs, plus the unit's dry weight of 550 lbs).
- Secure the sprayer firmly to prevent movement during transport and operation. Use appropriate straps, bolts, or tie-downs.



## VERSATILE MOUNTING OPTIONS

### FITS TRUCKS FOR MOBILE APPLICATIONS

Figure 4.1: The NorthStar Skid Sprayer securely mounted in the bed of a pickup truck, demonstrating a common mobile application setup.

### 4.2 Initial Checks

- **Engine Oil:** Check the engine oil level. Refer to the Honda GX160 engine manual for specific oil type and capacity.
- **Fuel:** Fill the fuel tank with fresh, unleaded gasoline. Do not overfill.
- **Hose Connections:** Verify all hose connections are tight and secure to prevent leaks.
- **Spray Gun:** Ensure the spray gun is properly attached to the hose.

### 4.3 Optional Accessories

The sprayer can be customized with optional kits for specific needs, such as broadcast kits or trailer kits for tow-behind applications.



## CUSTOMIZABLE ACCESSORIES

OPTIONAL KITS FOR SPECIFIC NEEDS

Figure 4.2: Example of customizable accessories, such as a boom attachment, which can be integrated with the sprayer for specialized tasks.

## 5. OPERATING INSTRUCTIONS

### 5.1 Filling the Tank

- Ensure the sprayer is on a level surface.
- Open the tank lid and carefully pour the desired liquid (water, herbicide, fertilizer, etc.) into the tank.
- Always follow the chemical manufacturer's mixing instructions and safety precautions.
- Close the tank lid securely after filling.

### 5.2 Starting the Engine

- Ensure the fuel valve is open and the engine switch is in the "ON" position.
- If the engine is cold, apply choke.
- Pull the recoil starter handle firmly until the engine starts.
- Once started, gradually open the choke (if used).

### 5.3 Spraying Procedure



- With the engine running, the pump will begin to pressurize the system.
- Adjust the pressure regulator (if equipped) to the desired spraying pressure.
- Unwind the hose from the reel and grasp the spray gun.
- Engage the trigger on the spray gun to begin spraying.
- Maintain a consistent spraying pattern for even coverage.



Figure 5.1: An operator using the spray gun from the NorthStar Skid Sprayer, demonstrating efficient application.

#### 5.4 Shutting Down

- Release the spray gun trigger.
- Turn the engine switch to the "OFF" position.
- Relieve any remaining pressure in the system by briefly engaging the spray gun trigger after the engine has stopped.
- Rewind the hose onto the reel.

### 6. MAINTENANCE

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

### 6.1 After Each Use

- **Rinse Tank and System:** Flush the tank and pump system with clean water to remove chemical residues. Spray clean water through the hose and gun until clear.
- **Clean Exterior:** Wipe down the exterior of the sprayer to remove dirt and chemical splashes.
- **Inspect Hoses and Connections:** Check for any signs of wear, cracks, or loose connections.

### 6.2 Engine Maintenance

Refer to the Honda GX160 engine owner's manual for detailed maintenance schedules. Key tasks typically include:

- **Oil Changes:** Perform oil changes at recommended intervals (e.g., every 25-50 operating hours or annually).
- **Air Filter:** Clean or replace the air filter as needed, especially in dusty conditions.
- **Spark Plug:** Inspect and clean or replace the spark plug periodically.

### 6.3 Pump Maintenance

- **Diaphragm Inspection:** Periodically inspect the pump diaphragms for wear or damage. Replace if necessary.
- **Filter Cleaning:** Clean the inlet filter regularly to prevent clogging and ensure proper flow.

### 6.4 Winterization

Before storing the sprayer for extended periods or in freezing temperatures:

- Thoroughly drain all water and chemicals from the tank, pump, hoses, and spray gun.
- Run RV antifreeze or a non-toxic winterizing solution through the pump and lines to prevent freezing and corrosion.
- Store the sprayer in a dry, protected area.

## 7. TROUBLESHOOTING

This section addresses common issues you might encounter with your NorthStar Skid Sprayer.

Problem	Possible Cause	Solution
Engine will not start	No fuel; Engine switch OFF; Choke not set; Fouled spark plug	Add fuel; Turn switch ON; Adjust choke; Clean/replace spark plug
No spray or low pressure	Tank empty; Clogged filter; Air in pump; Worn pump diaphragms; Leaking connections	Refill tank; Clean filter; Prime pump; Inspect/replace diaphragms; Tighten connections
Pump runs but no pressure	Air leak in suction line; Clogged suction filter; Pressure regulator open	Check suction line for leaks; Clean suction filter; Close pressure regulator
Hose or connections leaking	Loose clamps; Damaged hose; Worn O-rings	Tighten clamps; Replace damaged hose; Replace O-rings

If you encounter issues not listed here or require further assistance, please contact NorthStar customer



support.

## 8. SPECIFICATIONS

Feature	Specification
Brand	NorthStar
Model Number	268170
Tank Volume	200 Gallons
Engine	160cc Honda GX160
Pump Type	Diaphragm
Hose Length	300 Feet
Item Weight (Dry)	550 Pounds
Material	Plastic (Tank), Steel (Frame)
Power Source	Gas-Powered
Dimensions (Package)	79 x 70 x 70 inches


## 9. WARRANTY AND SUPPORT






For warranty information, please refer to the documentation included with your purchase or contact NorthStar customer service directly. Keep your proof of purchase for any warranty claims.

For technical support, replacement parts, or further assistance, please visit the official NorthStar website or contact their customer service department.

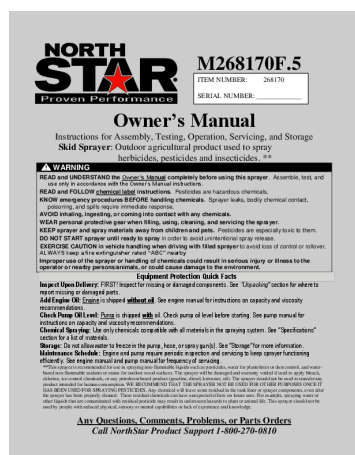
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### Related Documents - 268170

	<p><a href="#">NorthStar M99908B.3 ATV Mounted Boom Sprayer Owner's Manual</a></p> <p>This owner's manual provides comprehensive instructions for the NorthStar M99908B.3 ATV Mounted Boom Sprayer, covering assembly, testing, operation, servicing, and storage. It details safety precautions for handling agricultural pesticides and operating ATVs with the sprayer attached.</p>
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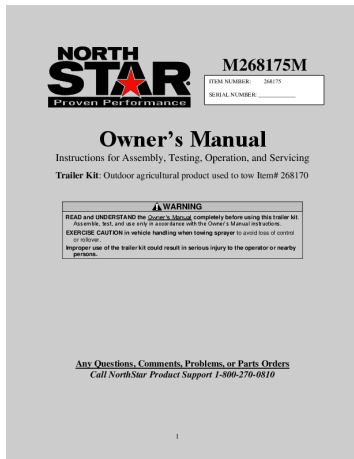
	<a href="#">NorthStar M99922B.2 ATV Mounted Boom Sprayer Owner's Manual - Assembly, Operation, Safety</a> <p>This owner's manual provides comprehensive instructions for the NorthStar M99922B.2 ATV Mounted Boom Sprayer, covering assembly, testing, operation, servicing, and storage. It includes critical safety guidelines for handling agricultural pesticides and operating the equipment with an ATV.</p>
	<a href="#">NorthStar M268171C.2 Broadcast Spray Kit Owner's Manual</a> <p>Comprehensive owner's manual for the NorthStar M268171C.2 Broadcast Spray Kit, detailing assembly, operation, safety guidelines, troubleshooting, and specifications for agricultural pesticide application.</p>
	<a href="#">NorthStar M282780E Tow Behind Sprayer Owner's Manual</a> <p>Comprehensive owner's manual for the NorthStar M282780E Tow Behind Sprayer (models 282780, 282785). Covers assembly, operation, safety, troubleshooting, and specifications for agricultural pesticide and water-based liquid applications.</p>
	<a href="#">NorthStar M165601A1 Owner's Manual: Setup, Operation, and Storage</a> <p>Comprehensive owner's manual for the NorthStar M165601A1 portable gasoline generator. Provides detailed instructions for installation, setup, operation, servicing, and storage. Covers safety precautions, power load management, and maintenance.</p>
	<a href="#">NorthStar Tow-Behind Sprayer Owner's Manual</a> <p>Comprehensive owner's manual for NorthStar Tow-Behind Sprayers (Models 282780 and 282785), providing instructions for assembly, testing, operation, servicing, and storage. Includes detailed safety information and chemical handling guidelines.</p>

## Documents - NorthStar – 268170



### [\[pdf\]](#) User Manual Owner's Manual Instructions Warranty Label

Product Manual for NorthStar Chemical Sprayer Kara Castle Northern Tool See pump manual instructions on capacity and viscosity recommendations Spraying Use only chemicals compatible with all materials in the engine frequency of servicing \*\*This sprayer is recommended use spraying non flammable liquids such as pesticides water plants trees or dust control based sealants stains outdoor wood surfaces The will be damaged warranty voided if used to apply bleach efficiently 268170 northerntool images manuals **M268170F.5** ITEM NUMBER: **268170** SERIAL NUMBER: \_\_\_\_\_ Owner s Manual Instructions for Assembly, Testing, Operation, Servicing, and Storage Skid Sprayer: Outdoor agricultural product used to spray herbicides, pesticides and insecticides. \*\* WARNING READ and UNDERSTAND the Owner s Manual complet... lang:en score:42 filesize: 1.99 M page\_count: 42 document date: 2020-04-15



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Product Manual Trailer Kit used to tow Item# 268170 Matt Pilcher 268175 northerntool images downloads manuals

M268175M ITEM NUMBER: 268175 SERIAL NUMBER: \_\_\_\_\_ Owner s

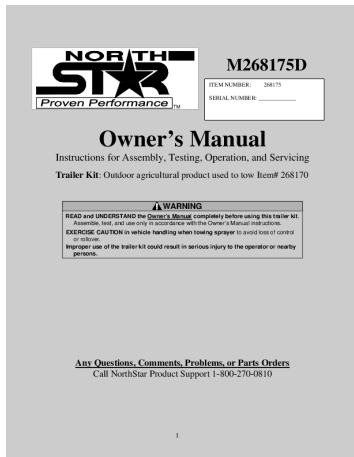
Manual Instructions for Assembly, Testing, Operation, and Servicing Trailer Kit:

Outdoor agricultural product used to tow Item# **268170** WARNING READ and

UNDERSTAND the Owner s Manual completely before using this trailer kit.

Assemble, ...

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M268175D ITEM NUMBER: 268175 SERIAL NUMBER: \_\_\_\_\_ TM Owner s

Manual Instructions for Assembly, Testing, Operation, and Servicing Trailer Kit:

Outdoor agricultural product used to tow Item# **268170** WARNING READ and

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Assembl...

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