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NorthStar 157310

NorthStar Hot Water & Wet Steam Pressure Washer Instruction Manual

Model: 157310 | Brand: NorthStar

1. Safety Information

Always read and understand the entire instruction manual before operating this pressure washer. Failure to follow instructions can result in serious injury or property damage.

- **Carbon Monoxide Hazard:** This pressure washer produces carbon monoxide, an odorless, colorless, and poisonous gas. Operating indoors can kill you in minutes. Always use outdoors in a well-ventilated area.
- **High Pressure Hazard:** The high-pressure spray can cause serious injury. Never direct the spray at people, pets, or electrical devices.
- **Hot Surfaces:** The burner and surrounding components become extremely hot during operation. Avoid contact to prevent burns.
- **Fuel Handling:** Handle gasoline and other fuels with extreme care. They are flammable and can cause explosions or fires.

Refer to the full safety section in your owner's manual for complete details.

2. Product Overview

The NorthStar Hot Water & Wet Steam Pressure Washer is designed for heavy-duty cleaning tasks, offering powerful performance with hot water and steam capabilities.

Overall view of the NorthStar Hot Water & Wet Steam Pressure Washer, showcasing its robust design and components including the engine, burner, and hose.

Key components labeled: Extended Run Fuel Tanks (Gasoline, Diesel, Kerosene, Fuel Oil), Fully Encased Coil Assembly and Heat Exchanger, Premium Cat Triplex Pump with Ceramic Plungers and Adjustable Pressure, Burner with Thermostat Control up to 250°F, Large Sturdy 14-inch Pneumatic Tires, Durable 10-Gauge Steel Tube Frame with Handles for Easy Mobility, Fuel-Efficient, Reliable Honda GX390 Engine with Electric Start, Industrial-Grade Rear-Entry Gun with 3ft. Lance, and 50ft. Non-marking Steel Braided Rubber Hose with Quick Coupler.

Key Features:

- **Ultimate Cleaning Machine:** Packed with cutting-edge technologies, delivering unmatched cleaning performance.
- **Powerful Wet Steam Mode:** With a 250°F wet steam mode and an industry-leading 150°F temperature rise, this pressure washer effectively melts through and washes away the toughest grease and grime.
- **Fuel-Efficient Downdraft Burner:** The innovative downdraft burner provides a combination of high heat, high impact, and high-flow rate, ensuring optimal cleaning power while maximizing fuel efficiency.
- **Superior Temperature Regulation:** The digital thermostat offers far superior temperature regulation compared to other brands, maintaining a stable 15 to 18°F range for consistent hot water delivery without significant temperature swings.
- **Heavy-Duty and Reliable:** Features a Honda GX390 engine with electric start and a Cat direct drive pump, guaranteeing quiet and reliable performance. Large 8-gallon fuel tanks allow for extended run times.

3. Setup

Before initial use, ensure all components are securely attached and connections are tight. A 12-volt battery (not included) is required for electric start.

1. **Attach High-Pressure Hose:** Connect the high-pressure hose to the pump outlet and the spray gun. Ensure a secure connection to prevent leaks.
2. **Connect Water Supply:** Connect a garden hose to the water inlet of the pressure washer. Ensure the water supply is clean and free of debris.
3. **Add Fuel:** Fill the gasoline tank with fresh, unleaded gasoline. Fill the diesel/kerosene/fuel oil tank for the burner as needed.
4. **Check Oil Levels:** Verify engine oil and pump oil levels are at the recommended marks. Add oil if necessary.
5. **Connect Battery:** Connect a fully charged 12-volt battery to the electric start terminals.



Connecting the water supply hose to the pressure washer pump inlet.



Separate fuel tanks for gasoline (engine) and diesel/kerosene/fuel oil (burner), offering flexibility for various fuel types.

4. Operating Instructions

This section outlines the basic steps for operating your NorthStar pressure washer.

Starting the Engine:

1. Ensure the fuel valve is open and the engine switch is in the 'ON' position.
2. If equipped, pull the choke lever.
3. Insert the key into the ignition and turn to the 'START' position to engage the electric start.
4. Once the engine starts, gradually push the choke lever back to the 'OFF' position.



Close-up of the engine control panel, showing the electric start key and engine switch for easy starting.



Control panel for adjusting temperature and heat settings, including the thermostat dial and heat switch.

Using the Nozzles:

The pressure washer comes with various quick-connect nozzles for different cleaning applications:

- **0° Nozzle (Red):** Provides a concentrated, powerful stream for tough stains and localized cleaning. Ideal for paint, cracks, and metal.
- **15° Nozzle (Yellow):** A versatile, fan-shaped spray for general cleaning of brick, asphalt, and concrete.
- **25° Nozzle (Green):** Wider fan spray for general cleaning of patios, decks, and fences.
- **40° Nozzle (White):** Broadest spray for light-duty cleaning of vehicles, windows, and outdoor furniture.
- **Chemical Nozzle (Black):** Used for applying soaps and detergents.
- **Steam Nozzle (Orange):** For wet steam operation, ideal for melting grease, grime, and ice dams.



A selection of quick-connect nozzles, including steam, chemical, 0°, 15°, 25°, and 40° options, for various cleaning tasks.



The 0° nozzle provides a focused blast, effective for removing paint, cleaning cracks, and working on metal surfaces.



The 15° nozzle offers versatile power, suitable for cleaning brick, asphalt, and concrete surfaces.



The 25° nozzle is designed for general cleaning of patios, decks, and fences.



The 40° nozzle is ideal for light-duty cleaning of windows, vehicles, and outdoor furniture.



The chemical nozzle is specifically designed for applying soaps and detergents, featuring corrosion-resistant quick-fit brass hardware.

Product in Action:

Official product video demonstrating the NorthStar Gas Wet Steam & Hot Water Pressure Washer in various cleaning scenarios, highlighting its power, versatility, and ease of use. The video showcases the unit delivering 3000 PSI of hot water and steam up to 250°F at 4 GPM, adjusting pressure and temperature, and utilizing different nozzles for effective cleaning.

5. Maintenance

Regular maintenance is crucial for the longevity and optimal performance of your pressure washer.

- **Engine Oil:** Check engine oil before each use. The Honda GX390 engine features a low oil shut-off to prevent permanent damage, but regular checks are essential.
- **Pump Oil:** Periodically check and change pump oil as recommended in the pump's specific manual.
- **Nozzles and Hoses:** Inspect nozzles for clogs or damage and clean or replace as needed. Check hoses for wear, cuts, or leaks.
- **Fuel System:** Keep fuel tanks clean and free of debris. Use fresh fuel.
- **Burner System:** Ensure the burner and coil assembly are free from soot or blockages. The fully encased coil assembly with ceramic fiber refractory combustion chamber is designed for durability.



The high-quality Honda GX390 engine is designed for more power, fuel efficiency, and easy starting, contributing to reliable performance.



The CAT Triplex Pump features a forged brass manifold, offering improved strength and resistance to corrosion for longer life and less maintenance compared to cheaper aluminum pumps.

6. Troubleshooting

If you encounter issues with your pressure washer, refer to the following common troubleshooting tips. For complex problems, consult a qualified service technician.

Problem	Possible Cause	Solution
Engine will not start	No fuel, low oil, battery dead (for electric start), spark plug issue.	Check fuel level, add oil, charge/replace battery, inspect/replace spark plug.
No pressure or low pressure	Clogged nozzle, kinked hose, insufficient water supply, air in pump.	Clean nozzle, straighten hose, ensure adequate water flow, purge air from pump.
Burner not heating water	No fuel in burner tank, burner switch off, thermostat setting too low.	Fill burner fuel tank, turn burner switch on, adjust thermostat to desired temperature.
Water leaking from pump	Loose fittings, worn seals.	Tighten fittings, replace worn seals.

For detailed troubleshooting steps, refer to the dedicated section in your owner's manual.

7. Specifications

Specification	Value
Brand	NorthStar
Power Source	Gasoline
Color	Black, Gray, Silver
Maximum Pressure	3000 Pound per Square Inch (PSI)
Maximum Flow Rate	4 Gallons Per Minute (GPM)
Item Weight	600 Pounds
Hose Length	50 Feet
Product Dimensions (L x W x H)	64"L x 33"W x 42.5"H
Tank Volume	8 Gallons
Engine	Honda GX390
Pump Type	Cat Direct Drive Triplex Pump
Burner Temperature	Up to 250°F (Wet Steam)
Certifications	CARB, EPA

8. Warranty and Support

NorthStar products are engineered for power and durability, backed by years of proven performance.

- **Manufacturer:** NorthStar (Northern Tool + Equipment)
- **Protection Plan:** A 3-Year Protection Plan is available for extended coverage.
- **Returns:** This product typically qualifies for 30-day easy returns.
- **Customer Support:** For technical assistance, parts, or warranty claims, please contact Northern Tool + Equipment customer support.

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