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Pulsar W31H19

Pulsar W31H19 Gas-Powered Pressure Washer Instruction Manual

Model: W31H19

INTRODUCTION

This manual provides essential instructions for the safe and efficient operation, maintenance, and troubleshooting of your Pulsar W31H19 Gas-Powered Pressure Washer. Please read this manual thoroughly before use and retain it for future reference. This powerful unit is designed for effective outdoor cleaning with 3,100 PSI and a 2.5 GPM flow rate.





Figure 1: Front view of the Pulsar W31H19 Pressure Washer.

SAFETY INFORMATION

Always prioritize safety when operating the pressure washer. Failure to follow these instructions may result in serious injury or property damage.

- **Read the Entire Manual:** Understand all operating and safety instructions before use.
- **Wear Protective Gear:** Always wear eye protection, hearing protection, and appropriate clothing.
- **Proper Ventilation:** Operate the pressure washer in a well-ventilated area to avoid carbon monoxide poisoning.
- **Never Point at People or Animals:** The high-pressure spray can cause severe injury.
- **Secure Connections:** Ensure all hoses and connections are secure before starting.
- **Fuel Handling:** Handle gasoline with extreme care. Store in approved containers and never refuel a hot engine.
- **Disconnect Spark Plug:** Always disconnect the spark plug wire before performing any maintenance or adjustments.

- **Keep Children Away:** Do not allow children or untrained individuals to operate the pressure washer.

WHAT'S IN THE BOX

Verify that all components are present upon unpacking:

- Pulsar W31H19 Gas-Powered Pressure Washer Unit
- High-Pressure Hose (30 ft)
- Ergonomic Spray Gun
- 5 Quick-Connect Nozzles (0°, 15°, 25°, 40°, and Soap Nozzle)
- On-Board Detergent Tank
- 12" Never-Flat Wheels
- Oil Funnel

SETUP

1. Assembly

Attach the handle and wheels to the main unit. Ensure all bolts are tightened securely.



Figure 2: Side view of the assembled pressure washer.

2. Add Engine Oil

Before first use, add the recommended engine oil to the crankcase. Refer to the engine oil fill cap for the correct type and amount. Use the provided funnel to prevent spills.



Figure 3: Location of the engine oil fill cap.

3. Add Fuel

Fill the fuel tank with fresh, unleaded gasoline. Do not overfill. Ensure the fuel cap is securely fastened.

4. Connect Water Supply

Connect a standard garden hose to the water inlet on the pressure washer pump. Ensure the connection is tight to prevent leaks. Turn on the water supply completely.

5. Connect High-Pressure Hose and Spray Gun

Connect one end of the high-pressure hose to the pump outlet and the other end to the spray gun. Ensure all connections are secure.

6. Fill Detergent Tank (Optional)

If using detergent, fill the on-board detergent tank with pressure washer safe detergent. The detergent tank is designed for easy access.

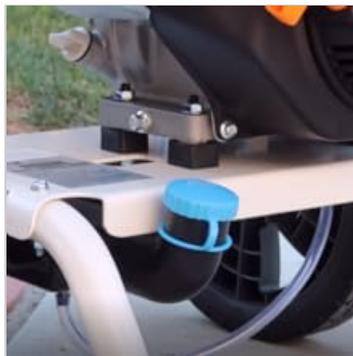


Figure 4: Location of the on-board detergent tank.

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Video 1: This video demonstrates the assembly and initial setup steps for a Pulsar pressure washer, including connecting hoses and adding fluids.

OPERATING INSTRUCTIONS

1. Starting the Engine

1. Ensure the fuel valve is open and the engine switch is in the 'ON' position.

2. Move the choke lever to the 'CHOKE' position (if the engine is cold).
3. Pull the recoil starter handle firmly until the engine starts.
4. Once started, gradually move the choke lever to the 'RUN' position.

2. Using Quick-Connect Nozzles

The pressure washer comes with 5 quick-connect nozzles for various cleaning tasks. To change a nozzle, pull back the collar on the spray gun wand, insert the desired nozzle, and release the collar to lock it in place. Always ensure the nozzle is securely seated before operating.

- **0° (Red):** Pin-point stream for tough, concentrated cleaning. Use with caution.
- **15° (Yellow):** Narrow spray for intense cleaning of small areas.
- **25° (Green):** Wider spray for general cleaning tasks.
- **40° (White):** Widest spray for gentle cleaning and rinsing.
- **Soap (Black):** Low-pressure spray for applying detergent.



Figure 5: Quick-connect nozzles for various spray patterns.

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Video 2: This video demonstrates the quick-connect nozzle system and shows the spray angle effect of different nozzles, including soap application.

3. Applying Detergent

To apply detergent, ensure the soap nozzle (black) is installed. The pressure washer will automatically draw detergent from the on-board tank at low pressure. After applying detergent, switch to a high-pressure nozzle (e.g., 25° or 40°) to rinse the surface thoroughly.

4. Shutting Down

1. Turn the engine switch to the 'OFF' position.
2. Turn off the water supply.
3. Squeeze the spray gun trigger to release any remaining pressure in the system.
4. Disconnect the garden hose and high-pressure hose.

MAINTENANCE

Regular maintenance ensures optimal performance and extends the life of your pressure washer.

- **Air Filter:** Clean the air filter every 50 hours of use, or more frequently in dusty conditions. Refer to the engine manual for specific cleaning instructions.
- **Engine Oil:** Check engine oil level before each use. Change oil after the first 5 hours, then every 50 hours or

annually.

- **Spark Plug:** Inspect and clean the spark plug annually. Replace if necessary.
- **Fuel System:** Drain the fuel system if storing for extended periods (over 30 days) to prevent fuel degradation.
- **Pump Care:** Use a pump protector/stabilizer if storing the unit in freezing temperatures or for extended periods.

TROUBLESHOOTING

This section addresses common issues you might encounter. For more detailed troubleshooting, consult the full owner's manual.

Problem	Possible Cause	Solution
Engine will not start	No fuel; Engine switch OFF; Choke incorrect; Spark plug issue	Add fuel; Turn switch ON; Adjust choke; Check/replace spark plug
Low water pressure	Insufficient water supply; Clogged nozzle; Air in pump; Worn pump seals	Check water source; Clean/replace nozzle; Purge air from pump; Contact service
Engine runs rough	Stale fuel; Clogged fuel filter; Dirty air filter	Drain/refill with fresh fuel; Replace fuel filter; Clean air filter

SPECIFICATIONS

Key technical specifications for the Pulsar W31H19 Pressure Washer:

Feature	Specification
Brand	Pulsar
Model Number	W31H19
Maximum Pressure	3100 PSI
Maximum Flow Rate	2.5 GPM
Power Source	Gas Powered (208cc, 7 HP, OHV engine)
Hose Length	30 Feet
Item Weight	84 Pounds
Detergent Tank Volume	On-board
Wheels	12" Never-Flat
Nozzles Included	0°, 15°, 25°, 40°, Soap
Certifications	CE, CSA

WARRANTY INFORMATION

The Pulsar W31H19 Gas-Powered Pressure Washer is backed by a **1-Year Limited Warranty**. Please retain your proof of

purchase for warranty claims. For full warranty terms and conditions, refer to the documentation included with your product or visit the manufacturer's website.

CUSTOMER SUPPORT

For technical assistance, parts, or service inquiries, please contact Pulsar customer support. Contact information can typically be found on the product packaging or the official Pulsar website.