

nvduq2803-20118

Instruction Manual: Generic Pressure Water Pump Replacement

For Craftsman CMXGWAS020733 Pressure Washer (Model: nvduq2803-20118)

INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of the Generic replacement pressure water pump, model nvduq2803-20118. This pump is designed as a replacement part for the Craftsman CMXGWAS020733 pressure washer. Please read these instructions thoroughly before attempting any installation or operation to ensure proper function and safety.

SAFETY INFORMATION

Always observe the following safety precautions when working with pressure washers and their components:

- **Disconnect Power:** Before beginning any installation or maintenance, ensure the pressure washer engine is off and the spark plug wire is disconnected to prevent accidental starting.
- **Release Pressure:** Always relieve any residual pressure in the system by squeezing the spray gun trigger before disconnecting hoses or performing service.
- **Wear Protective Gear:** Use appropriate personal protective equipment, including safety glasses, gloves, and sturdy footwear.
- **Consult Original Manual:** Refer to your original Craftsman CMXGWAS020733 pressure washer owner's manual for specific safety guidelines and procedures.
- **Professional Installation:** If you are unsure about any step, seek assistance from a qualified service technician.

PRODUCT OVERVIEW

The Generic replacement pressure water pump (model nvduq2803-20118) is designed to restore the pressure generation capability of your Craftsman CMXGWAS020733 pressure washer. It is engineered to meet the operational specifications of the original pump, providing 2800 PSI output and compatibility with 163cc engines.



Image 1: Generic Pressure Water Pump Replacement Part. This image displays the complete pump assembly, highlighting its compact design and connection points for the engine and water hoses.

Note: This is a replacement part and not an original Craftsman component. Compatibility has been verified for the specified model, but minor adjustments may sometimes be required for optimal fitment.

SETUP AND INSTALLATION

Follow these steps to install the replacement pressure water pump:

- 1. Preparation:** Ensure the pressure washer is turned off, cooled down, and the spark plug wire is disconnected. Drain any remaining water from the pump and hoses.
- 2. Remove Old Pump:**
 - Disconnect all hoses (garden hose inlet, high-pressure outlet) from the old pump.
 - Locate and remove the bolts or fasteners securing the old pump to the engine. Typically, there are 3 or 4 bolts.
 - Carefully pull the old pump straight off the engine shaft. It may require gentle wiggling.
- 3. Inspect Engine Shaft:** Clean the engine shaft thoroughly, removing any rust or debris. Apply a thin layer of anti-seize lubricant to the shaft for easier installation and future removal.
- 4. Install New Pump:**
 - Align the keyway on the new pump with the key on the engine shaft.
 - Slide the new pump onto the engine shaft until it seats firmly against the engine block. Do not force it.
 - Reinsert and tighten the mounting bolts evenly. Refer to your original manual for torque specifications if available.
- 5. Reconnect Hoses:**
 - Connect the garden hose inlet to the pump's inlet port. Ensure a tight, leak-free connection.

- Connect the high-pressure hose to the pump's outlet port.

OPERATING (POST-INSTALLATION CHECK)

After installing the new pump, perform the following checks before starting the engine:

1. **Connect Water Supply:** Connect a garden hose to the pump's inlet and turn on the water supply fully.
2. **Purge Air (Priming):** Squeeze the trigger on the spray gun to allow water to flow through the pump and high-pressure hose, expelling all air. Continue until a steady stream of water emerges from the nozzle. This primes the pump and prevents damage from dry running.
3. **Check for Leaks:** Inspect all connections for leaks. Tighten any leaking connections.
4. **Reconnect Spark Plug:** Once all checks are complete and no leaks are present, reconnect the spark plug wire.
5. **Start Engine:** Start the pressure washer engine according to its manufacturer's instructions.
6. **Test Pressure:** Test the pressure washer's output. The pump should deliver consistent high pressure.

MAINTENANCE

Proper maintenance extends the life of your pressure water pump:

- **Regular Inspection:** Periodically check all hoses, connections, and the pump body for signs of wear, damage, or leaks.
- **Clean Inlet Filter:** The pump's water inlet typically has a screen filter. Clean this filter regularly to prevent debris from entering and damaging the pump.
- **Winterization (for cold climates):** If storing the pressure washer in freezing temperatures, it is crucial to winterize the pump. This involves flushing all water from the pump and introducing a pump saver solution or non-toxic antifreeze to prevent internal damage from freezing. Consult your original pressure washer manual for specific winterization procedures.
- **Storage:** Store the pressure washer in a dry, protected area.

TROUBLESHOOTING

If you encounter issues with your pressure water pump, consider the following common problems and solutions:

Problem	Possible Cause	Solution
No pressure or low pressure	<ul style="list-style-type: none"> • Air in the pump • Clogged inlet filter • Insufficient water supply • Worn seals/valves (less likely for new pump) 	<ul style="list-style-type: none"> • Purge air by squeezing gun trigger with water on • Clean inlet filter • Ensure full water supply and no kinks in hose • Inspect for leaks
Water leaks from pump	<ul style="list-style-type: none"> • Loose connections • Damaged O-rings or seals 	<ul style="list-style-type: none"> • Tighten all hose connections • Inspect and replace any damaged O-rings or seals
Pump making unusual noise	<ul style="list-style-type: none"> • Air in the system • Lack of lubrication (internal) • Debris in pump 	<ul style="list-style-type: none"> • Purge air from the system • Ensure adequate water flow • If noise persists, professional inspection may be needed

If troubleshooting steps do not resolve the issue, it may indicate a more complex problem. Contact a qualified service technician for further assistance.

SPECIFICATIONS

The following specifications apply to the Generic Pressure Water Pump Replacement (Model: nvduq2803-20118):

Feature	Specification
Model Number	nvduq2803-20118
Compatibility	Craftsman CMXGWAS020733 Pressure Washer
Maximum Pressure	2800 PSI (Pounds per Square Inch)
Engine Compatibility	163cc Engines
Material	High-quality, durable components