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› Liberty Pumps PRG101A ProVore PRG Series Automatic Residential Grinder Pump Instruction Manual

## Liberty Pumps PRG101A

# Liberty Pumps PRG101A ProVore PRG Series Automatic Residential Grinder Pump Instruction Manual

Model: PRG101A | Brand: Liberty Pumps

## INTRODUCTION

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The Liberty Pumps PRG101A ProVore PRG Series Automatic Residential Grinder Pump is engineered for residential sewage applications. This pump features higher flow rates, enabling its use with 2-inch discharge lines. It is suitable as a replacement pump in existing 2-inch discharge systems that utilize LE40 and LE50-series solids-handling pumps. Please note that PRG-Series flow rates may not exactly match LE-series flow rates. Consult factory specifications for actual application and head requirements before replacing LE40 and LE50 series pumps. The minimum flow rate is 42 GPM at 5 feet of head.





*Image: The Liberty Pumps PRG101A ProVore Grinder Pump, a robust red cast iron unit designed for residential sewage applications.*

## **SAFETY INFORMATION**

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Read all instructions carefully before installation and operation. Failure to follow these instructions may result in serious injury, death, or property damage. This pump handles sewage and contains electrical components. Always disconnect power before servicing. Installation must comply with all local codes and ordinances. Ensure proper grounding to prevent electrical shock hazards. Do not operate the pump in an explosive atmosphere or pump flammable liquids. Wear appropriate personal protective equipment (PPE) during installation and maintenance.

## SETUP

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Proper installation is crucial for the efficient and safe operation of your PRG101A grinder pump. This section outlines general setup guidelines.

### 1. Location and Basin

- Install the pump in a properly sized and vented sewage basin.
- Ensure the basin is clean and free of debris before pump placement.
- The pump should be placed on a solid, level surface within the basin.

### 2. Plumbing Connections

- Connect the pump's discharge to a 2-inch discharge line.
- Install a check valve and a shut-off valve in the discharge line above the basin to prevent backflow and allow for servicing.
- Ensure all plumbing connections are watertight and sealed properly.

### 3. Electrical Connections

- The PRG101A operates on 115V single phase power.
- Connect the pump to a dedicated, properly fused electrical circuit.
- Ensure the electrical supply matches the pump's voltage and amperage requirements (20 Amps).
- The pump includes a 10-foot power cord and an automatic switch.
- All electrical wiring must be performed by a qualified electrician and conform to local electrical codes.
- Verify proper grounding of the pump and electrical system.

## OPERATING INSTRUCTIONS

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The Liberty Pumps PRG101A is designed for automatic operation. Once properly installed and connected, the pump will activate and deactivate based on the liquid level in the sewage basin.

### Automatic Operation

- The integrated automatic switch detects the liquid level.
- When the liquid level rises to the "on" point, the pump will automatically start, grinding and discharging sewage.
- The pump will continue to operate until the liquid level drops to the "off" point, at which time it will automatically shut off.
- Ensure the automatic switch is free from obstructions and can move freely within the basin.

### Initial Start-up

- After installation, slowly fill the basin with water to verify proper operation of the automatic switch and pump.
- Observe the pump for any unusual noises or leaks during its first cycle.
- Confirm that water is being discharged effectively through the outlet pipe.

## MAINTENANCE

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Regular maintenance ensures the longevity and reliable performance of your grinder pump. Always disconnect power before performing any maintenance.

## Routine Checks (Monthly)

- **Basin Inspection:** Check the sewage basin for excessive buildup of grease, solids, or foreign objects that could impede pump operation or float switch movement.
- **Float Switch Check:** Manually lift and lower the float switch (if accessible and safe) to ensure it moves freely and activates/deactivates the pump correctly.
- **Discharge Line:** Listen for any unusual noises during pump operation that might indicate blockages or issues in the discharge line.

## Annual Inspection (Professional Recommended)

- A qualified service technician should inspect the pump's internal components, including the grinder mechanism and impeller, for wear or damage.
- Electrical connections should be checked for corrosion or loose wiring.
- The check valve should be inspected for proper function.

**Important:** Avoid flushing non-biodegradable items such as feminine products, rags, towels, and wipes, as these can cause premature wear or blockages, despite the pump's grinding capabilities.

## TROUBLESHOOTING

Before attempting any troubleshooting, ensure the power supply to the pump is disconnected. If you are unsure about any step, consult a qualified professional.

Problem	Possible Cause	Solution
Pump does not run.	<ul style="list-style-type: none"><li>◦ No power to the pump.</li><li>◦ Automatic switch is stuck or defective.</li><li>◦ Motor overload.</li><li>◦ Pump is clogged.</li></ul>	<ul style="list-style-type: none"><li>◦ Check circuit breaker/fuse.</li><li>◦ Inspect float switch for obstructions; replace if defective.</li><li>◦ Allow motor to cool; check for obstructions.</li><li>◦ Disconnect power and inspect pump intake for clogs.</li></ul>
Pump runs but does not discharge water.	<ul style="list-style-type: none"><li>◦ Discharge line blocked.</li><li>◦ Check valve stuck closed.</li><li>◦ Impeller damaged or clogged.</li><li>◦ Air lock in pump.</li></ul>	<ul style="list-style-type: none"><li>◦ Inspect and clear discharge line.</li><li>◦ Inspect check valve; replace if necessary.</li><li>◦ Disconnect power and inspect impeller for debris or damage.</li><li>◦ Cycle pump on/off several times to clear air lock.</li></ul>
Pump runs continuously.	<ul style="list-style-type: none"><li>◦ Automatic switch stuck in "on" position.</li><li>◦ Leak into basin.</li><li>◦ Pump undersized for application.</li></ul>	<ul style="list-style-type: none"><li>◦ Inspect float switch for obstructions; replace if defective.</li><li>◦ Identify and repair source of leak into basin.</li><li>◦ Consult with a professional to assess pump sizing.</li></ul>
Excessive noise or vibration.	<ul style="list-style-type: none"><li>◦ Foreign object in pump.</li><li>◦ Worn bearings or motor issues.</li><li>◦ Improper installation.</li></ul>	<ul style="list-style-type: none"><li>◦ Disconnect power and inspect pump for foreign objects.</li><li>◦ Contact a qualified service technician.</li><li>◦ Verify pump is sitting level and secure in the basin.</li></ul>

## SPECIFICATIONS

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Key technical specifications for the Liberty Pumps PRG101A ProVore PRG Series Grinder Pump:

- **Model:** PRG101A
- **Brand:** Liberty Pumps
- **Power Source:** Corded Electric
- **Voltage:** 115 Volts
- **Amperage Capacity:** 20 Amps
- **Wattage:** 200 watts
- **Item Weight:** 58 Pounds
- **Material:** Cast Iron
- **Color:** Red
- **Product Dimensions (L x W x H):** 7.2" x 11.1" x 17.6"
- **Maximum Flow Rate:** 42 Gallons Per Minute (at 5ft head)
- **Switch Style:** Automatic
- **Specific Uses:** Sewage
- **Certification:** UL
- **Temperature Range:** 60-140 Degrees Fahrenheit

## WARRANTY INFORMATION

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Liberty Pumps products are typically covered by a limited warranty against defects in material and workmanship. The specific duration and terms of the warranty may vary. For detailed warranty information, including coverage period and claim procedures, please refer to the official documentation provided with your pump or visit the Liberty Pumps official website. Keep your proof of purchase for warranty claims.

## SUPPORT AND CONTACT

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For technical assistance, replacement parts, or further inquiries regarding your Liberty Pumps PRG101A grinder pump, please contact Liberty Pumps customer support. You can typically find contact information, including phone numbers and email addresses, on the manufacturer's official website or in the packaging materials. When contacting support, please have your model number (PRG101A) and serial number (if applicable) ready.

**Online Resources:** Visit the official [Liberty Pumps website](#) for product manuals, FAQs, and additional support resources.