

Everbilt J200A3

Everbilt 3/4 HP Shallow Well Jet Pump User Manual

Model: J200A3

1. INTRODUCTION

This user manual provides essential information for the safe and efficient operation, installation, and maintenance of your Everbilt 3/4 HP Shallow Well Jet Pump. Please read this manual thoroughly before installation or operation to ensure proper use and to prevent potential hazards.

The Everbilt 3/4 HP shallow-well jet pump is designed for reliable water transfer from wells with pumping levels of 25 feet or less. It features a pre-wired 30/50 psi pressure switch for automatic operation and self-priming after initial filling. The pump housing is constructed from fiberglass-reinforced thermoplastic for corrosion resistance.

2. SAFETY INFORMATION

Always observe the following safety precautions to reduce the risk of fire, electric shock, or injury.

- **Electrical Safety:** Ensure the pump is connected to a properly grounded electrical outlet. The pump operates on dual voltage 115/230-Volt AC. Verify the correct voltage setting before connecting. Disconnect power before performing any maintenance or service.
- **Water Safety:** Do not pump flammable or corrosive liquids. This pump is designed for water only.
- **Installation:** All plumbing and electrical work must comply with local codes and ordinances. If you are unsure, consult a qualified professional.
- **Operating Environment:** Do not operate the pump in an explosive atmosphere. Ensure adequate ventilation around the pump.
- **Thermal Overload Protection:** The pump is equipped with thermal overload protection. If the pump stops unexpectedly, allow it to cool down before attempting to restart.
- **Children and Pets:** Keep children and pets away from the pump during operation.

3. PRODUCT OVERVIEW AND COMPONENTS

The Everbilt 3/4 HP Shallow Well Jet Pump is engineered for durability and performance. Key features include:

- Thermoplastic pump body resists corrosion.
- Superior performance at depths to water of 25 feet or less.

- Heavy-duty dual voltage 115/230 Volt motor, pre-set at 230 Volt.
- Self-priming after pump housing is initially filled.



Figure 3.1: Everbilt 3/4 HP Shallow Well Jet Pump. This image shows the overall view of the pump, highlighting its compact design and robust construction.

Component Identification

EVERBILT

3/4 HP Shallow Well Jet Pump



Figure 3.2: Labeled Components of the Everbilt Jet Pump.

1. **100 PSI Pressure Gauge:** Monitors system pressure.
2. **Inlet (1-1/4" female NPT):** Connection point for the water supply from the well.
3. **Corrosion-resistant, reinforced thermoplastic pump body:** Durable housing material.
4. **Outlet (1" female NPT):** Connection point for the discharge line to the household fixtures.
5. **Pressure Switch (pre-set at 30-50 PSI):** Automatically controls pump operation based on pressure.
6. **Permanent energy-efficient, PSC motor with built-in automatic thermal overload protector:** The motor unit, designed for efficiency and safety.

4. SETUP AND INSTALLATION

Proper installation is crucial for the pump's performance and longevity. Refer to the diagram below for a typical shallow well installation.

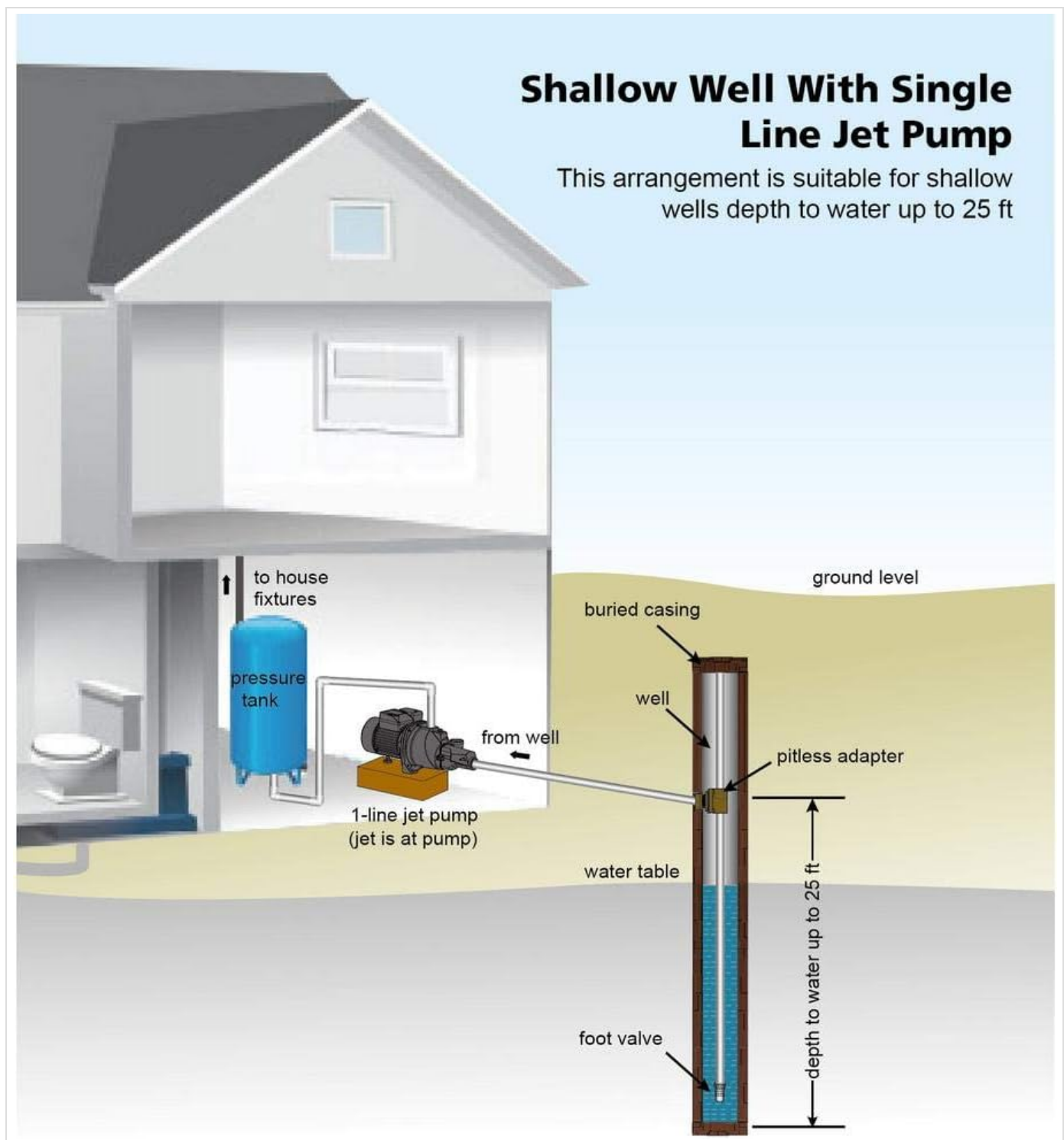


Figure 4.1: Typical Shallow Well Installation Diagram. This diagram illustrates the setup for a single line jet pump in a shallow well, showing connections to the pressure tank and house fixtures.

4.1 Pre-Installation Checklist

- Ensure the well depth is 25 feet or less.
- Verify power supply matches pump voltage (115V or 230V). The pump is pre-set at 230V.
- Gather all necessary plumbing fittings and tools.

4.2 Additional Items Needed for Installation

The following items are typically required for a complete shallow well jet pump installation:

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Additional Items Needed For Installing a shallow well jet pump?	
Additional items needed	Size
Foot valve	1-1/4 in
Priming tee	1-1/4 in
Plug	1-1/4 in
Coupling	1 in
Coupling	1-1/4 in
PVC pipe schedule 80	1-1/4 in
Threaded adapter	1-1/4 in male adapter
Well seal	4 in
Flexible PVC coupling	1-1/4 in
Check valve	1-1/4 in

Figure 4.2: Table of Additional Items Needed for Installation. This table lists various plumbing components and their recommended sizes for installing a shallow well jet pump.

Table 4.1: Recommended Additional Items

Additional Items Needed	Size
Foot valve	1-1/4 in
Priming tee	1-1/4 in
Plug	1-1/4 in
Coupling	1 in
Coupling	1-1/4 in
PVC pipe schedule 80	1-1/4 in
Threaded adapter	1-1/4 in male adapter
Well seal	4 in
Flexible PVC coupling	1-1/4 in
Check valve	1-1/4 in

4.3 Installation Steps

- Mounting the Pump:** Securely mount the pump on a firm, level surface close to the well. Ensure it is protected from the elements.
- Plumbing Connections:**
 - Connect the suction line (from the well) to the 1-1/4" female NPT inlet.
 - Connect the discharge line (to the pressure tank/house) to the 1" female NPT outlet.
 - Use appropriate thread sealant on all connections to prevent leaks.

3. Electrical Connections:

- Ensure the power supply is OFF at the circuit breaker.
- Verify the pump's motor is set to the correct voltage (115V or 230V) for your electrical system. The pump is pre-set at 230V. Consult a qualified electrician if unsure.
- Connect the pump to a dedicated, grounded circuit.

4. Priming the Pump:

- Before initial operation, the pump housing must be filled with water.
- Remove the priming plug (usually located near the pressure gauge).
- Slowly fill the pump casing with clean water until it overflows.
- Replace the priming plug securely.

5. OPERATING INSTRUCTIONS

Once installed and primed, your Everbilt jet pump is ready for operation.

1. **Initial Start-up:** After priming, turn on the power supply to the pump. The pump should start running.
2. **Automatic Operation:** The pre-wired pressure switch (30/50 psi) will automatically turn the pump ON when system pressure drops to 30 psi and turn it OFF when pressure reaches 50 psi.
3. **Monitoring:** Observe the pressure gauge to ensure the pump is building and maintaining pressure within the expected range.
4. **Voltage Selection:** The pump motor is dual voltage (115V/230V) and pre-set at 230V. If your electrical system requires 115V, consult the motor wiring diagram (typically found on the motor housing or in a separate motor manual) to change the voltage setting. *Incorrect voltage can damage the motor.*

6. MAINTENANCE

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

- **Regular Inspection:** Periodically check all plumbing connections for leaks. Inspect electrical wiring for any signs of wear or damage.
- **Cleanliness:** Keep the pump area clean and free of debris to ensure proper motor ventilation.
- **Winterization:** In areas subject to freezing temperatures, the pump and all associated plumbing must be drained completely to prevent freeze damage.
 - Disconnect power to the pump.
 - Open all drain plugs on the pump and plumbing lines.
 - Store the pump in a warm, dry place if possible, or ensure all water is removed from the system.
- **Pressure Tank Maintenance:** If you have a pressure tank, check its air charge annually. Refer to your pressure tank's manual for specific instructions.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your jet pump. For problems not listed here, contact customer support.

Table 7.1: Troubleshooting Guide

Problem	Possible Cause	Solution
Pump runs but no water or low pressure	• Pump not primed • Air leak in suction line • Foot valve clogged or stuck • Well water level too low	• Re-prime the pump • Check all suction line connections for tightness • Inspect and clean/replace foot valve • Check well water level
Pump cycles on and off frequently	• Pressure tank air charge too low • Leak in plumbing system • Pressure switch malfunction	• Recharge pressure tank air (refer to tank manual) • Inspect all pipes and fixtures for leaks • Test or replace pressure switch
Pump does not start	• No power supply • Thermal overload tripped • Motor issue	• Check circuit breaker/fuse • Allow motor to cool down (30-60 minutes) • Consult a qualified technician

8. SPECIFICATIONS

Table 8.1: Product Specifications

Attribute	Value
Brand	Everbilt
Model Number	J200A3
Horsepower (HP)	0.75 hp
Voltage	115/230 Volts (AC)
Inlet Connection	1-1/4" Threaded female NPT
Outlet Connection	1" Threaded female NPT
Maximum Pressure	65 PSI
Head Pressure (Max Lifting Height)	148 Feet
Discharge Flow (0 ft @ 40 PSI)	552 gallons/hour
Discharge Flow (15 ft @ 40 PSI)	444 gallons/hour
Discharge Flow (25 ft @ 40 PSI)	360 gallons/hour
Housing Material	Thermoplastic

Attribute	Value
Self-Priming	Yes (after initial fill)
Thermal Overload Protection	Yes
Item Weight	17.8 pounds
Minimum Working Temperature	35°F
Maximum Working Temperature	77°F

9. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation included with your purchase or visit the official Everbilt website. Keep your proof of purchase for warranty claims.

If you require technical assistance or have questions not covered in this manual, please contact Everbilt customer support. Contact details can typically be found on the product packaging or the manufacturer's website.

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Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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