

[Manuals.plus](#) /

› [YIYIBYUS](#) /

› YIYIBYUS 1HP Shallow Well Jet Pump 750W Instruction Manual

## YIYIBYUS B09M9V1T52

# YIYIBYUS 1HP Shallow Well Jet Pump 750W Instruction Manual

Model: B09M9V1T52

[Overview](#)

[Safety](#)

[Features](#)

[Specifications](#)

[Setup](#)

[Operation](#)

[Maintenance](#)

[Troubleshooting](#)

## 1. PRODUCT OVERVIEW

The YIYIBYUS 1HP Shallow Well Jet Pump is designed for efficient water transfer, suitable for supplying fresh water to large homes, farms, and cabins. This heavy-duty pump features a 750W motor and a durable cast iron casing, ensuring reliable performance for various domestic and commercial applications. It includes an automatic pressure regulating switch for convenient operation.



*Figure 1: Overall view of the YIYIBYUS 1HP Shallow Well Jet Pump.*

## 2. IMPORTANT SAFETY INFORMATION

Read and understand all safety warnings and instructions before installing or operating this pump. Failure to follow these instructions may result in electric shock, fire, serious injury, or property damage. Keep this manual for future reference.

### General Safety Precautions:

- **Electrical Safety:** Ensure the pump is connected to a properly grounded 110V power supply. Do not operate the pump with a damaged power cord or plug. All electrical connections should be made by a qualified electrician and comply with local codes.
- **Water Safety:** Do not pump flammable or corrosive liquids. This pump is designed for fresh water only.
- **Installation:** Install the pump in a dry, well-ventilated area, protected from freezing temperatures and direct sunlight. Ensure stable mounting to prevent vibration.
- **Maintenance:** Disconnect power before performing any maintenance or service.

- **Children and Pets:** Keep children and pets away from the pump during operation.
- **Personal Protective Equipment:** Wear appropriate safety gear, such as gloves and eye protection, during installation and maintenance.

### 3. PRODUCT FEATURES

- **Powerful Motor:** Equipped with a 750W (1 HP) motor, providing 3420 RPM for high-efficiency water pumping.
- **Durable Construction:** Features a corrosion and rust-resistant cast iron casing, designed for long-term service and reliability.
- **High Flow Rate:** Delivers a maximum flow of 1056.7 gallons per hour (G/h) and a maximum head of 56 meters, suitable for various water supply needs.
- **Automatic Pressure Switch:** Includes an automatic pressure regulating switch that controls pump operation based on water demand, eliminating manual intervention.
- **Versatile Application:** Ideal for supplying fresh water to residential homes, agricultural irrigation, and other commercial water transfer tasks.



Figure 2: The YIYIBYUS jet pump providing water for irrigation.

### 4. TECHNICAL SPECIFICATIONS

| Specification | Value       |
|---------------|-------------|
| Brand         | YIYIBYUS    |
| Model         | B09M9V1T52  |
| Power         | 750W (1 HP) |
| Voltage       | 110V        |

| Specification      | Value                           |
|--------------------|---------------------------------|
| Motor Speed        | 3420 RPM                        |
| Max Flow Rate      | 1056.7 G/h (4000 L/h, 17.5 GPM) |
| Max Head           | 56m                             |
| Material           | Cast Iron                       |
| Color              | Black                           |
| Ingress Protection | IP44                            |
| Ports              | 1 inch                          |



Figure 3: Diagram illustrating key specifications and dimensions of the pump.

## 5. INSTALLATION AND SETUP

Proper installation is crucial for the safe and efficient operation of your jet pump. If you are unsure about any step, consult a qualified professional.

### 5.1. Site Selection

- Choose a location that is dry, well-ventilated, and protected from freezing temperatures, rain, and direct sunlight.
- Ensure the pump is placed on a solid, level surface to minimize vibration and noise.
- Allow sufficient space around the pump for ventilation, maintenance, and access.

### 5.2. Mounting the Pump

- Secure the pump to its mounting surface using appropriate bolts and washers. This will prevent movement and

reduce operational noise.

### 5.3. Plumbing Connections

- Connect the suction line (inlet) to the pump's inlet port (typically 1 inch). Ensure all connections are airtight to prevent air leaks, which can affect pump performance.
- Connect the discharge line (outlet) to the pump's outlet port (typically 1 inch). Install a check valve on the discharge side if not already present in your system, to prevent backflow.
- Use appropriate pipe sealant or Teflon tape on all threaded connections to ensure a watertight seal.
- Install a gate valve on both the suction and discharge lines to allow for isolation during maintenance.



Figure 4: Close-up view of the pump housing, showing the inlet and outlet ports.

### 5.4. Electrical Connections

- Ensure the power supply matches the pump's requirements (110V).

- Connect the pump to a dedicated, grounded electrical circuit protected by a circuit breaker or fuse.
- All electrical wiring must comply with local electrical codes and be performed by a qualified electrician.
- The pump comes with a pressure switch. Connect the pressure switch according to its specific wiring diagram (refer to the pressure switch manual if separate).



*Figure 5: Side view of the pump, highlighting the electrical connection box.*

## 5.5. Priming the Pump

- Before initial operation, the pump must be primed. Remove the priming plug (usually located on top of the pump housing).
- Fill the pump casing completely with clean water until it overflows.
- Replace the priming plug securely.
- Open the discharge valve slightly to allow air to escape during priming.

## 6. OPERATING INSTRUCTIONS

### 6.1. Initial Start-up

- Ensure the pump is properly primed and all connections are secure.
- Open the suction and discharge valves.

- Turn on the power supply to the pump. The pump should start running.
- Monitor the pressure gauge (if installed) and listen for smooth operation. If the pump does not draw water within a few minutes, turn it off, re-prime, and check for air leaks in the suction line.

### 6.2. Automatic Operation (with Pressure Switch)

- The integrated pressure switch will automatically turn the pump on when water pressure drops below a set point (e.g., when a faucet is opened) and turn it off when the pressure reaches an upper set point (e.g., when water demand stops).
- The pressure switch is typically pre-set at the factory. If adjustment is needed, refer to the pressure switch manufacturer's instructions. **Always disconnect power before adjusting the pressure switch.**

### 6.3. Shutting Down the Pump

- For temporary shutdown, simply close all water outlets. The pressure switch will turn off the pump.
- For extended shutdown or maintenance, turn off the main power supply to the pump at the circuit breaker.

## 7. MAINTENANCE

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

### 7.1. Routine Checks

- **Inspect for Leaks:** Periodically check all plumbing connections for leaks. Tighten or re-seal as necessary.
- **Listen for Unusual Noises:** Abnormal noises can indicate issues with bearings, impeller, or motor. Address these promptly.
- **Check Pressure Switch:** Ensure the pressure switch is functioning correctly, turning the pump on and off at appropriate pressure levels.

### 7.2. Winterization (for cold climates)

- If the pump is installed in an area subject to freezing temperatures, it must be drained to prevent damage.
- Disconnect power to the pump.
- Open the drain plugs on the pump casing and any associated piping. Allow all water to drain completely.
- Store the pump in a warm, dry place if possible, or ensure it is thoroughly drained and protected from freezing.

## 8. TROUBLESHOOTING GUIDE

This section provides solutions to common issues you might encounter. For problems not listed here, contact customer support.

| Problem                            | Possible Cause                                                                                                                                                                                                        | Solution                                                                                                                                                                                                                                                                           |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pump runs but no water or low flow | <ul style="list-style-type: none"><li>◦ Pump not primed</li><li>◦ Air leak in suction line</li><li>◦ Suction lift too high</li><li>◦ Clogged impeller or suction line</li><li>◦ Foot valve stuck or clogged</li></ul> | <ul style="list-style-type: none"><li>◦ Re-prime the pump</li><li>◦ Check all suction connections for leaks and tighten</li><li>◦ Ensure pump is within recommended suction lift limits</li><li>◦ Clean impeller and suction line</li><li>◦ Inspect and clean foot valve</li></ul> |

| Problem                           | Possible Cause                                                                                                                                                                                                                   | Solution                                                                                                                                                                                                                                                                                      |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pump cycles on and off frequently | <ul style="list-style-type: none"> <li>◦ Pressure tank waterlogged or faulty</li> <li>◦ Small leak in plumbing system</li> <li>◦ Pressure switch differential too narrow</li> </ul>                                              | <ul style="list-style-type: none"> <li>◦ Check and recharge pressure tank air pre-charge</li> <li>◦ Locate and repair leaks</li> <li>◦ Adjust pressure switch differential (consult professional)</li> </ul>                                                                                  |
| Pump does not start               | <ul style="list-style-type: none"> <li>◦ No power supply</li> <li>◦ Tripped circuit breaker/blown fuse</li> <li>◦ Faulty pressure switch</li> <li>◦ Motor overload protector tripped</li> <li>◦ Seized motor/impeller</li> </ul> | <ul style="list-style-type: none"> <li>◦ Check power connection</li> <li>◦ Reset breaker/replace fuse</li> <li>◦ Test/replace pressure switch</li> <li>◦ Allow motor to cool, then reset overload</li> <li>◦ Inspect impeller for obstructions, contact service if motor is seized</li> </ul> |
| Excessive noise or vibration      | <ul style="list-style-type: none"> <li>◦ Loose mounting bolts</li> <li>◦ Cavitation (air in suction line)</li> <li>◦ Worn bearings</li> <li>◦ Foreign object in impeller</li> </ul>                                              | <ul style="list-style-type: none"> <li>◦ Tighten mounting bolts</li> <li>◦ Check for air leaks, ensure proper priming</li> <li>◦ Contact service for bearing replacement</li> <li>◦ Inspect and clear impeller</li> </ul>                                                                     |

## 9. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the documentation included with your purchase or contact the manufacturer directly. Keep your purchase receipt as proof of purchase.

If you have any questions or require assistance, please contact YIYIBYUS customer service. We aim to respond to inquiries within 24 hours.

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### ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

**Name**

Anonymous

**Email**

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

**Question**

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.

**Submit question**