

## Star 023768

# Star 1/2 HP Shallow Well Jet Pump Service Kit

MODEL 023768 - INSTRUCTION MANUAL

## 1. Introduction and Overview

This manual provides detailed instructions and information for the Star 1/2 HP Shallow Well Jet Pump Service Kit, Model 023768. This kit is designed to facilitate the repair and maintenance of compatible 1/2 HP shallow well jet pumps, ensuring optimal performance and longevity.

The service kit includes essential components required for common pump repairs, such as the impeller, diffuser, O-ring, and mechanical seal. Proper installation of these parts is crucial for the efficient operation of your pump.



This image displays the complete Star 1/2 HP Shallow Well Jet Pump Service Kit. It includes the main impeller, a diffuser, various O-rings, and a mechanical seal, all essential for pump repair and maintenance.

## 2. Product Components

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The Star 1/2 HP Shallow Well Jet Pump Service Kit (Model 023768) contains the following parts:

- **Impeller:** The rotating component that moves water through the pump.
- **Diffuser:** A stationary component that guides water from the impeller and converts velocity into pressure.
- **O-Ring:** Seals to prevent leaks between pump components.
- **Mechanical Seal:** Prevents water leakage along the pump shaft.

## 3. Setup and Installation

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Installation of the service kit components requires careful attention to detail and adherence to safety procedures. It is recommended to consult the original pump's instruction manual for specific disassembly and reassembly steps.

1. **Safety First:** Always disconnect power to the pump before beginning any service or installation. Close all water supply valves.

2. **Drain the Pump:** Ensure the pump is completely drained of water to prevent spills and facilitate access to internal components.
3. **Disassembly:** Carefully disassemble the pump housing to access the impeller, diffuser, O-rings, and mechanical seal. Note the orientation and position of each part.
4. **Component Replacement:** Remove the old, worn, or damaged components. Install the new impeller, diffuser, O-ring, and mechanical seal from the service kit. Ensure all parts are seated correctly and O-rings are properly lubricated if specified by the pump manufacturer.
5. **Reassembly:** Reassemble the pump housing, ensuring all fasteners are tightened to the manufacturer's specifications.
6. **Testing:** After reassembly, slowly open water supply valves and prime the pump as per the original pump manual. Check for any leaks and ensure proper operation.

If you are unsure about any step, it is advisable to seek assistance from a qualified technician or refer to official instructional videos.

Your browser does not support the video tag.

An official video demonstrating the components and potentially the installation process for the Star 1/2 HP Shallow Well Jet Pump Service Kit. This video provides a visual guide to assist with understanding the kit's contents and application.

## 4. Operating Considerations

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This service kit provides replacement parts for your 1/2 HP shallow well jet pump. The operation of the pump itself remains consistent with its original design and specifications. After installing the service kit, ensure the pump is primed correctly before starting. Refer to your pump's original operating manual for detailed instructions on starting, stopping, and general operation.

Monitor the pump for any unusual noises, vibrations, or leaks immediately after installation and during its initial operation. Proper installation of the service kit components is critical for the pump's efficient and safe functioning.

## 5. Maintenance

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The components within this service kit are designed to restore or maintain the performance of your shallow well jet pump. Regular inspection of your pump system is recommended to identify wear and tear on parts such as the impeller, diffuser, O-rings, and mechanical seal.

- **Periodic Inspection:** Routinely check for signs of wear, corrosion, or damage on pump components.
- **Leak Detection:** Inspect for water leaks around the pump housing and shaft, which may indicate a failing O-ring or mechanical seal.
- **Performance Check:** If the pump's performance (e.g., water pressure, flow rate) declines, it may be time to inspect or replace internal components using a service kit.

Replacing these parts as needed with genuine Star service kit components helps extend the life of your pump and maintain its efficiency.

## 6. Troubleshooting

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If your 1/2 HP shallow well jet pump experiences issues after installing the service kit, consider the following common troubleshooting steps:

- **No Water Flow or Low Pressure:** Ensure the pump is properly primed. Check for air leaks in the suction line or pump housing. Verify that the impeller is not obstructed or damaged.

- **Pump Runs but No Water:** This often indicates a loss of prime. Re-prime the pump. Check for a faulty foot valve or a leak in the suction line.
- **Water Leaks from Pump:** Inspect all O-rings and the mechanical seal for proper seating and damage. Ensure all connections are tight.
- **Unusual Noises:** Could indicate an obstruction in the impeller, worn bearings (not part of this kit), or cavitation due to insufficient water supply.

For persistent issues, consult a qualified pump technician. Always disconnect power before attempting any inspection or repair.

## 7. Specifications

Specification	Detail
Brand	Star
Model Number	023768
Compatible Pump HP	1/2 HP
Pump Type	Shallow Well Jet Pump
Material	Rubber (for seals), other materials for impeller/diffuser
Manufacturer	Star Water Systems
ASIN	B07ZPC2TzM

## 8. Warranty Information

This service kit is intended as a replacement part for your existing pump. The warranty for the service kit components typically aligns with the manufacturer's policy for replacement parts. For specific warranty details regarding the Star 1/2 HP Shallow Well Jet Pump Service Kit, please refer to the documentation provided with your original pump or contact Star Water Systems directly.

## 9. Support and Contact

For further assistance, technical support, or inquiries regarding the Star 1/2 HP Shallow Well Jet Pump Service Kit (Model 023768), please contact Star Water Systems.

**Manufacturer:** Star Water Systems  
**Online Store:** [Visit the Star Store on Amazon](#)