

## Rule 29090/29120-3000

# Jabsco Service Kit for Manual Toilet Models 29090 and 29120-3000 Instruction Manual

Model: 29090/29120-3000

## 1. INTRODUCTION

This instruction manual provides detailed guidance for the installation, operation, and maintenance of the Jabsco Service Kit for Manual Toilet Models 29090 and 29120-3000. This kit contains essential replacement parts designed to restore the functionality of your manual marine toilet pump assembly. Please read these instructions thoroughly before beginning any service work.

## 2. PRODUCT OVERVIEW

The Jabsco Service Kit includes various components necessary for the repair and maintenance of the specified manual toilet models. These parts are crucial for ensuring proper sealing, pumping action, and overall performance of the toilet system.



**Figure 1: Jabsco Service Kit Components**

This image displays all the parts included in the service kit, laid out against a white background. Components visible include various black rubber gaskets and O-rings, brass valve discs, white plastic valve components, metal screws, and a small metal spring. These parts are essential for the repair and maintenance of Jabsco manual toilets.

Key components typically found in this service kit include:

- **Gaskets and O-rings:** For sealing various connections and preventing leaks.
- **Valves:** Including flapper valves and joker valves, which control water flow and prevent backflow.
- **Diaphragm/Piston components:** Parts critical for the pumping mechanism.
- **Fasteners:** Screws or bolts for securing components.
- **Springs:** For valve operation.

### 3. SETUP AND INSTALLATION

Before beginning installation, ensure you have all necessary tools and that the toilet system is isolated from water supply and discharge. It is recommended to wear appropriate personal protective equipment.

#### 1. Preparation:

- Turn off the water supply to the toilet.
- Pump out any remaining water from the toilet bowl and pump assembly.
- Disconnect the inlet and outlet hoses from the pump.

#### 2. Disassembly:

- Carefully remove the pump assembly from the toilet base.
- Disassemble the pump, noting the position and orientation of all components, especially gaskets, O-rings, and valves. Refer to your specific toilet model's diagram if available.
- Remove all worn or damaged parts that are to be replaced by the service kit.

#### 3. Component Replacement:

- Clean all mating surfaces thoroughly before installing new parts.

- Install new gaskets and O-rings, ensuring they are properly seated and not twisted. A thin layer of silicone grease can aid in seating and sealing.
- Replace the old valves (e.g., joker valve, flapper valves) with the new ones from the kit, ensuring correct orientation.
- Install any new diaphragm or piston components as per the original assembly.
- Replace any worn screws or fasteners with the new ones provided.

#### 4. Reassembly:

- Reassemble the pump assembly, ensuring all screws are tightened securely but do not overtighten.
- Reattach the pump assembly to the toilet base.
- Reconnect the inlet and outlet hoses, ensuring hose clamps are secure.

#### 5. Testing:

- Turn on the water supply to the toilet.
- Operate the toilet pump several times, checking for any leaks at connections or within the pump assembly.
- Ensure proper flushing and discharge.

*If you encounter difficulties, consult a qualified marine technician or refer to the original toilet manual for specific diagrams.*

## 4. OPERATING INSTRUCTIONS (AFTER SERVICE KIT INSTALLATION)

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Once the service kit components have been installed and tested, operate your manual toilet according to its original operating instructions. Proper operation ensures the longevity of the newly installed parts.

- **Flushing:** Pump the handle firmly and completely to ensure adequate water intake and waste discharge.
- **Water Level:** Ensure sufficient water is in the bowl before and after use to prevent odors and facilitate flushing.
- **Winterization:** If applicable, follow the manufacturer's winterization procedures to protect the pump and seals from freezing damage.

## 5. MAINTENANCE

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Regular maintenance helps extend the life of your manual toilet and the components from this service kit.

- **Regular Cleaning:** Use marine-safe toilet cleaners. Avoid harsh chemicals that can damage rubber seals and plastic components.
- **Inspection:** Periodically inspect hoses, connections, and the pump assembly for signs of wear, leaks, or corrosion.
- **Lubrication:** If recommended by the toilet manufacturer, apply marine-grade lubricant to moving parts of the pump.
- **Freshwater Flushing:** If using the toilet with saltwater, occasionally flush with freshwater to reduce salt buildup and corrosion.

## 6. TROUBLESHOOTING

This section addresses common issues that may arise with manual toilets and how the service kit components relate to their resolution.

| Problem                            | Possible Cause   | Solution (Service Kit Relevance)   |
|------------------------------------|--|--|
| Toilet not holding water in bowl   | Worn or damaged joker valve or flapper valve.            | Replace the joker valve or flapper valve from the service kit. Ensure proper seating.            |
| Difficulty pumping or poor suction | Worn pump diaphragm/piston components or clogged intake. | Replace diaphragm/piston components. Check for blockages in the intake line.                     |
| Leaks from pump assembly           | Damaged gaskets or O-rings. Loose connections.           | Replace all relevant gaskets and O-rings from the service kit. Tighten all connections securely. |
| No water entering bowl             | Clogged intake valve or hose.                            | Inspect and clean the intake valve and hose. Replace intake valve components if damaged.         |

## 7. SPECIFICATIONS

- **Product Name:** Jabsco Service Kit for Manual Toilet
- **Compatible Toilet Models:** 29090, 29120-3000
- **Brand:** Rule (Jabsco is a brand under Xylem, often associated with Rule products)
- **Kit Dimensions (Box):** Approximately 2" (H) x 6" (W) x 7" (L)
- **Kit Weight:** Approximately 0.4 lbs
- **Primary Material (Kit Components):** Rubber, Plastic, Brass, Stainless Steel

## 8. WARRANTY AND SUPPORT

For specific warranty information regarding this Jabsco Service Kit, please refer to the documentation provided with your original Jabsco manual toilet or contact the manufacturer directly. Rule (the brand listed) or Jabsco customer support can provide assistance with product inquiries, technical support, and warranty claims.

For further assistance, please visit the [Rule Store on Amazon](#) or the official Jabsco website.