General Pump RKI123

General Pump Repair Kit 123 - RKI123 Instruction Manual

Model: RKI123 | Brand: General Pump

1. Product Overview

The General Pump Repair Kit 123 (RKI123) is designed to address common wear issues in Interpump and General Pump models. This kit provides essential components for restoring pump functionality, specifically targeting damaged or worn-out valves, O-rings, and springs.

Image 1.1: Packaging for the General Pump Repair Kit 123. The kit is contained within a black and yellow box featuring the "GP General Pump" logo.

Kit Contents:

- 6 O-rings (part number 90.3841.00)
- 6 Valve Seats (part number 36.2003.66)
- 6 Valves (part number 36.2001.76)
- 6 Springs (part number 94.7376.00)
- 6 Valve Cages (part number 36.2025.51)

This kit is designed to service 3 cylinders of a compatible pump.

Compatible Pump Models:

The RKI123 kit is compatible with numerous General Pump models, including but not limited to:

- TX1508G8

- TX1510S34
- TX1810E179
- TX1812E179
- TC1507E345
- TP2530J34
- And many more. Consult your pump's manual for specific compatibility.

2. Safety Information

Always prioritize safety when performing maintenance on pressure washers or any machinery. Failure to follow safety guidelines can result in serious injury or damage to equipment.

- **Disconnect Power:** Ensure the pressure washer is completely disconnected from its power source (electrical or fuel) before beginning any repair work.
- **Release Pressure:** Relieve all pressure from the system by squeezing the trigger gun until water stops flowing.
- **Wear Personal Protective Equipment (PPE):** Use safety glasses, gloves, and appropriate clothing to protect against chemicals, sharp edges, and hot surfaces.
- **Work in a Well-Ventilated Area:** If using cleaning agents or lubricants, ensure adequate ventilation.
- **Use Correct Tools:** Employ the proper tools for disassembly and reassembly to prevent damage to components.
- **Consult Manufacturer's Manual:** Refer to your specific pressure washer's instruction manual for detailed disassembly and reassembly procedures.
- **Keep Children and Pets Away:** Ensure the work area is clear of unauthorized personnel.

3. Installation Guide (Pump Repair)

This section provides general steps for replacing components using the RKI123 kit. Specific procedures may vary depending on your pump model. Always refer to your pump's service manual for detailed instructions.

Required Tools (Not Included):

- Wrenches or sockets (appropriate sizes for pump fasteners)
- Screwdrivers
- Pliers
- Seal pick or small flat-head screwdriver (for O-ring removal)
- Clean rags
- Lubricant (e.g., silicone grease, compatible with O-rings)

Step-by-Step Replacement:

1. **Preparation:**
    - Ensure the pressure washer is off, unplugged, and all pressure is relieved.

- Drain any remaining water from the pump.
- Place the pump on a stable, clean work surface.

2. **Disassembly:**
   - Carefully remove the pump head or manifold, typically secured by bolts. Keep track of all fasteners.
   - Identify the worn components (O-rings, valves, valve seats, springs, valve cages). These are usually located within the pump head or cylinder block.
   - Using appropriate tools, gently remove the old components. Note their orientation and order for reassembly.
3. **Cleaning:**
   - Thoroughly clean the cavities and surfaces where the new components will be installed. Remove any debris, scale, or old lubricant.
   - Inspect the pump body and head for any damage, cracks, or excessive wear that the kit cannot address.
4. **Component Installation:**
   - Lightly lubricate new O-rings with a compatible lubricant to aid in installation and prevent pinching.
   - Install the new valve seats, ensuring they are seated correctly.
   - Place the new valves and springs into their respective positions, paying attention to their correct orientation (some valves are directional).
   - Install the new valve cages over the valves and springs.
   - Carefully place the new O-rings into their grooves.
5. **Reassembly:**
   - Carefully reattach the pump head or manifold, ensuring all components remain in place.
   - Tighten the fasteners evenly and to the manufacturer's specified torque settings (if available in your pump's manual) to prevent leaks and ensure proper sealing.
6. **Testing:**
   - Reconnect the water supply and power.
   - Slowly turn on the water supply and check for leaks before starting the pump.
   - Start the pump and observe its operation. Check for proper pressure, consistent flow, and absence of leaks or unusual noises.

4. Operating Considerations (Post-Repair)

After successfully installing the repair kit, proper operation of your pump is crucial for longevity and performance. This section outlines general considerations for operating a repaired pump.

- **Initial Run-in:** Operate the pump at a lower pressure for the first few minutes to allow new seals and components to seat properly.
- **Monitor for Leaks:** Continuously check for any signs of water leaks around the pump head or connections during operation. Address any leaks immediately.
- **Pressure Monitoring:** Ensure the pump is achieving and maintaining the expected operating pressure. Fluctuations may indicate further issues.
- **Water Supply:** Always ensure an adequate and consistent water supply to prevent cavitation and damage to the pump.

- **Avoid Dry Running:** Never operate the pump without water flowing through it, as this can quickly damage internal components.

5. Maintenance and Storage of Kit Components

While the repair kit itself is for maintenance, proper handling and storage of any unused components are important to ensure their integrity for future use.

- **Cleanliness:** Keep all components clean and free from dirt, dust, and debris.
- **Storage Environment:** Store unused O-rings and seals in a cool, dry place away from direct sunlight, extreme temperatures, and ozone-generating equipment (e.g., electric motors).
- **Original Packaging:** Whenever possible, store components in their original packaging to protect them from environmental factors.
- **Avoid Compression:** Do not store O-rings or seals under compression or in a stretched state, as this can lead to permanent deformation.

6. Troubleshooting (Post-Repair)

If your pump continues to exhibit problems after installing the RKI123 repair kit, consider the following troubleshooting steps:

Problem	Possible Cause	Solution
Pump still leaks after repair.	O-ring pinched or improperly seated. Valve seat not fully seated. Pump head bolts not tightened evenly or to spec. Damage to pump body or head (cracks, pitting) not addressed by kit.	Disassemble and re-inspect O-rings and valve seats. Reinstall carefully. Ensure even tightening of bolts. Inspect pump body for damage beyond repair kit scope.
Low or inconsistent pressure.	Valves installed incorrectly (e.g., backward). Springs not seated properly. Air in the system. Inadequate water supply.	Re-check valve orientation. Bleed air from the system. Verify water supply flow rate.
Unusual noises from pump.	Loose components. Cavitation due to insufficient water supply. Damage to other internal pump parts not included in the kit.	Re-check all fasteners. Ensure adequate water supply. Consult a professional if noise persists.

If troubleshooting steps do not resolve the issue, it may indicate a problem beyond the scope of this repair kit. Consider consulting a qualified service technician or the pump manufacturer.

7. Specifications

- **Product Name:** General Pump Repair Kit 123
- **Model Number:** RKI123
- **Manufacturer:** General Pump
- **ASIN:** B0050IL8K8
- **Kit Contents:** 6 O-rings, 6 Valve Seats, 6 Valves, 6 Springs, 6 Valve Cages
- **Cylinders Serviced:** 3

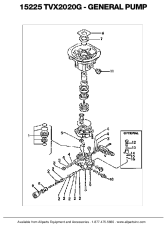
8. Warranty and Support

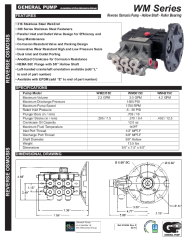
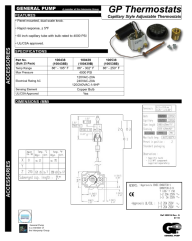
This repair kit is designed to replace specific wearing components of General Pump products. For information regarding the warranty of the General Pump Repair Kit 123 (RKI123) or the pump it is used with, please refer to the official documentation provided by General Pump or contact their customer support directly.

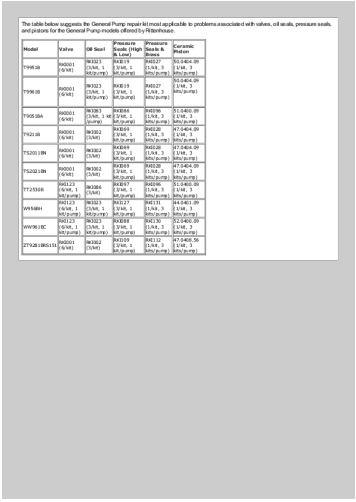
General Pump does not provide direct warranty information for this specific repair kit through public product listings. For technical support or inquiries about specific pump models and their repair, it is recommended to visit the official General Pump website or contact their authorized service centers.

Protection plans may be available from third-party providers at the time of purchase. These plans are separate from any manufacturer's warranty.

Related Documents - RKI123

	General Pump HTXS Series Emperor Pumps - Technical Specifications and Installation Guide Detailed information on General Pump's HTXS Series Emperor pumps, including features, specifications, installation recommendations, maintenance, and parts list. Covers models HTXS1810S, HTXS1812S, and HTXS1813S.
	15225 TVX2020G General Pump Parts and Repair Kit Information Detailed parts list and identification for the 15225 TVX2020G General Pump, including packing kit and unloader kit components. Information provided by Allparts Equipment and Accessories.

	[General Pump Industrial Hose Reels Operator's Manual] Operator's manual for General Pump Industrial Hose Reels, including assembly, operating instructions, safety precautions, and specifications for models DHRA50150, DHRA50300, and DHRA50450.
	[General Pump WM Series Reverse Osmosis Pumps - Specifications and Parts] Detailed specifications, features, and parts list for the General Pump WM Series Reverse Osmosis Pumps, including WM2315C, WM3015C, and WM4215C models. Features include stainless steel wet-end, corrosion resistance, and NEMA 56C flange.
	[GP Thermostats: Capillary Style Adjustable Thermostats - General Pump] Detailed specifications, dimensions, wiring diagrams, and assembly instructions for General Pump's GP Thermostats (Capillary Style Adjustable Thermostats), including models 100438, 100439, and 100538. Features rapid response and UL/CSA approval.
	[General Pump EP Series Triplex Plunger Pump: Features, Specifications, and Installation Guide] Detailed information on General Pump's EP Series Triplex Plunger Pumps, including features, technical specifications, installation recommendations, maintenance advice, and parts lists for models with a 1" hollow shaft.



The table below suggests the General Pump repair kit most applicable to problems associated with valves, oil seals, pressure seals, and pistons for the General Pump models offered by Rittenhouse.

Model	Valve	Oil Seal	Pressure Seals (High & Low)	Pressure Seals & Brass	Ceramic Piston
T9951B	RKI001 (6/kit)	RKI123 (3/kit, 1 kit/pump)	RKB19 (3/kit, 1 kit/pump)	RKI027 (1/kit, 3 kits/pump)	51.0404.09 (1/kit, 3 kits/pump)
T9961B	RKI001 (6/kit)	RKI323 (3/kit, 1 kit/pump)	RKB19 (3/kit, 1 kit/pump)	RKI027 (1/kit, 3 kits/pump)	51.0404.09 (1/kit, 3 kits/pump)
T9951BA	RKI001 (6/kit)	RKI383 (3/kit, 1 kit/pump)	RKB66 (3/kit, 1 kit/pump)	RKI096 (1/kit, 3 kits/pump)	51.0400.09 (1/kit, 3 kits/pump)
T921-B	RKI001 (6/kit)	RKI382 (3/kit)	RKB49 (3/kit, 1 kit/pump)	RKI028 (1/kit, 3 kits/pump)	47.0404.09 (1/kit, 3 kits/pump)
TS2011BN	RKI001 (6/kit)	RKI382 (3/kit)	RKB49 (3/kit, 1 kit/pump)	RKI028 (1/kit, 3 kits/pump)	47.0404.09 (1/kit, 3 kits/pump)
TS2021BN	RKI001 (6/kit)	RKI382 (3/kit)	RKB49 (3/kit, 1 kit/pump)	RKI028 (1/kit, 3 kits/pump)	47.0404.09 (1/kit, 3 kits/pump)
TT2530B	RKI123 (6/kit, 1 kit/pump)	RKI386 (3/kit)	RKB49 (3/kit, 1 kit/pump)	RKI028 (1/kit, 3 kits/pump)	47.0404.09 (1/kit, 3 kits/pump)
W956BH	RKI123 (6/kit, 1 kit/pump)	RKI323 (3/kit, 1 kit/pump)	RKI127 (3/kit, 1 kit/pump)	RKI131 (1/kit, 3 kits/pump)	44.0401.09 (1/kit, 3 kits/pump)
WW961BC	RKI123 (6/kit, 1 kit/pump)	RKI323 (3/kit, 1 kit/pump)	RKB88 (3/kit, 1 kit/pump)	RKI130 (1/kit, 3 kits/pump)	52.0400.09 (1/kit, 3 kits/pump)
ZT9281BRS151	RKI001 (6/kit)	RKI382 (3/kit)	RKB39 (3/kit, 1 kit/pump)	RKI132 (1/kit, 3 kits/pump)	47.0400.56 (1/kit, 3 kits/pump)

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The table below suggests the General Pump repair kit most applicable to problems associated with val ... T9211B RKI001 6/kit TS2011BN RKI001 6/kit TS2021BN RKI001 6/kit TT2530B W956BH WW961BC **RKI123** 6/kit, 1 kit/pump **RKI123** 6/kit, 1 kit/pump **RKI123** 6/kit, 1 kit/pump ZT9281BRS151 RKI0...

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