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› [WELURE Hydraulic Helm Seal Rebuild Kit Instruction Manual for SeaStar BayStar HH5744, HH5271, HH5217, HH5761, HH5721](#)

Models

WELURE HH5744, HH5271, HH5217, HH5761, HH5721

WELURE Hydraulic Helm Seal Rebuild Kit Instruction Manual

Models: SeaStar & BayStar HH5744, HH5271, HH5217, HH5761, HH5721 and others

1. INTRODUCTION

This manual provides detailed instructions for the installation and maintenance of the WELURE Hydraulic Helm Seal Rebuild Kit. This kit is designed to replace worn or damaged seals in compatible SeaStar and BayStar hydraulic helm units, restoring proper function and preventing fluid leaks. Please read this manual thoroughly before beginning any work.

2. SAFETY INFORMATION

Always prioritize safety when working with hydraulic systems. Failure to follow safety precautions can result in serious injury or damage to equipment.

- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Ensure the vessel's power is off and the steering system is depressurized before beginning work.
- Hydraulic fluid can be an irritant. Avoid prolonged skin contact and clean up spills immediately.
- Dispose of old hydraulic fluid and components according to local environmental regulations.
- If you are unsure about any step, consult a qualified marine technician.

3. PACKAGE CONTENTS

The WELURE Hydraulic Helm Seal Rebuild Kit includes all necessary seals and hardware for a complete rebuild. Verify all components are present and undamaged before proceeding.

This kit includes all seals needed to rebuild the for SEASTAR & for BAYSTAR hydraulic helmet



Image 3.1: Overview of the WELURE Hydraulic Helm Seal Rebuild Kit components. This kit contains all seals required for rebuilding SeaStar and BayStar hydraulic helm units, along with associated fasteners.

The hydraulic helmet seal kit HS5176 is for HH5271, HH5272, HH5741, HH5742, etc. Suitable for Seastar and for BayStar



Image 3.2: The hydraulic helm seal kit components, including various seals, washers, nuts, and screws. This kit is suitable for SeaStar and BayStar helm models such as HH5271, HH5272, HH5741, and HH5742.

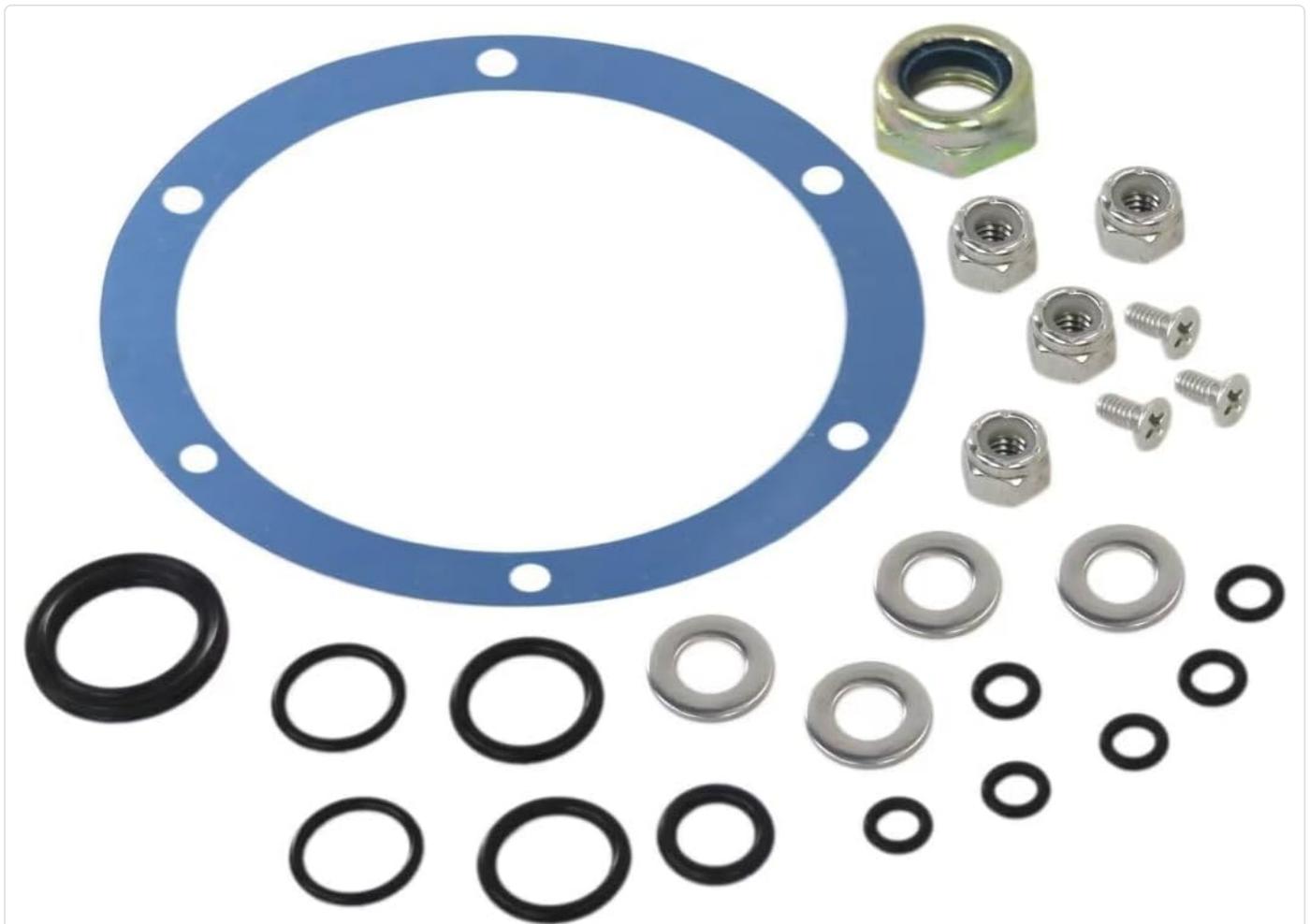


Image 3.3: A detailed view of the individual components within the rebuild kit, showcasing the various sizes of O-rings, metal washers, nuts, and screws.

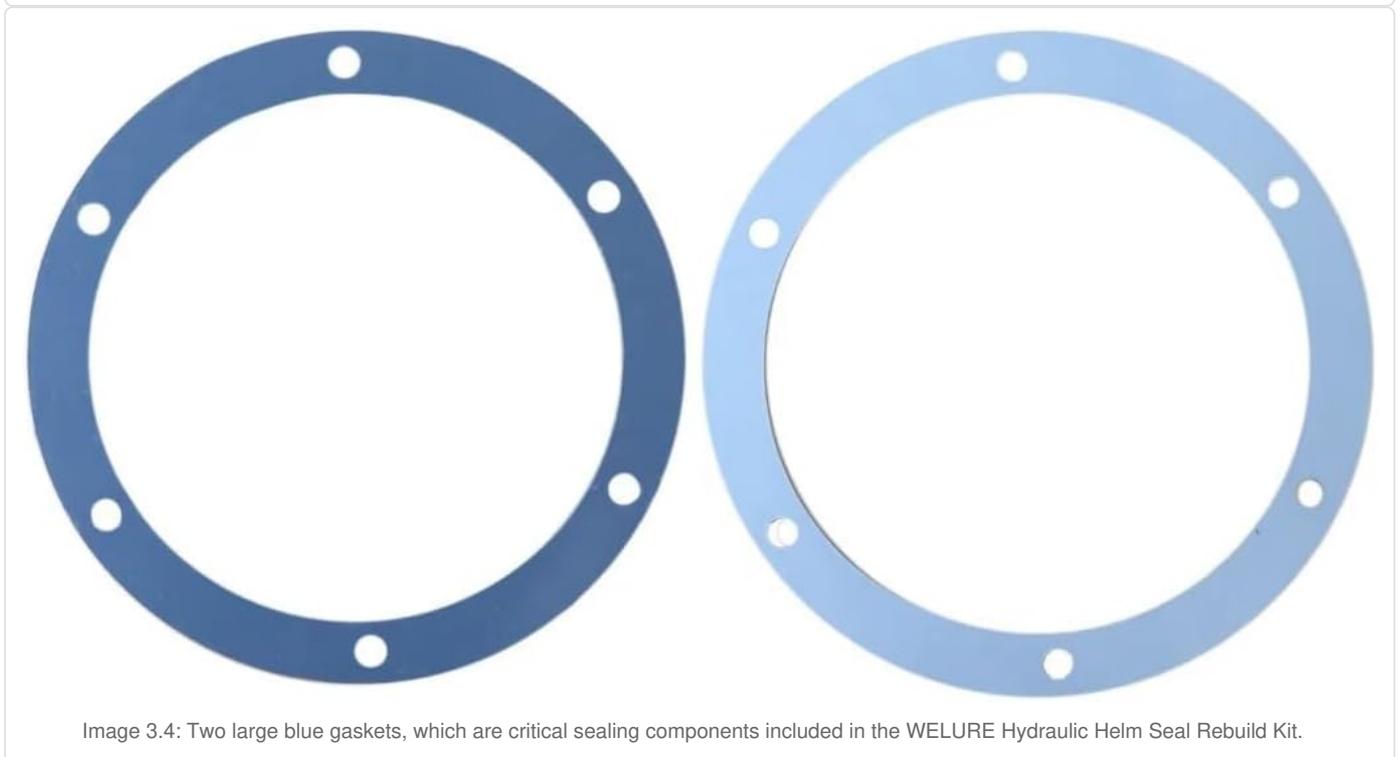


Image 3.4: Two large blue gaskets, which are critical sealing components included in the WELURE Hydraulic Helm Seal Rebuild Kit.

4. COMPATIBLE MODELS

This WELURE Hydraulic Helm Seal Rebuild Kit is compatible with a wide range of SeaStar and BayStar hydraulic helm models. Please verify your helm model against the list below:

- HH4514, HH4513, HH5269, HH5260, HH5231
- HH5744, HH5271, HH5217, HH5761, HH5721
- HH5291, HH5741, HH5273, HH5760, HH5745
- HH5743, HH5272, HH5224, HH5762, HH5262
- HH5292, HH5742, HH5775, HH5779, HH5218
- HH5778, HH5289, HH5773, HH5770, HH5771
- HH5290, HH5774, HH5772

5. SETUP AND INSTALLATION

The following steps outline the general procedure for rebuilding a hydraulic helm unit. Specific steps may vary slightly depending on your exact helm model. Refer to your helm's original service manual for model-specific details if available.

5.1. Preparation

1. **Gather Tools:** Ensure you have all necessary tools, including wrenches, screwdrivers, seal picks, a clean work surface, and a container for draining hydraulic fluid.
2. **Depressurize System:** Before disconnecting any lines, ensure the hydraulic steering system is fully depressurized.
3. **Drain Fluid:** Place a suitable container under the helm unit and carefully disconnect the hydraulic lines to drain the fluid. Note the orientation of all lines for reassembly.
4. **Remove Helm Unit:** Disconnect the steering wheel and mounting hardware to remove the helm unit from its mounting location.

5.2. Disassembly

1. **Clean Exterior:** Thoroughly clean the exterior of the helm unit to prevent contaminants from entering during disassembly.
2. **Disassemble Components:** Carefully disassemble the helm unit, paying close attention to the order and orientation of all components. Use a clean cloth to wipe away excess fluid.
3. **Remove Old Seals:** Using appropriate seal picks, carefully remove all old O-rings, gaskets, and seals. Inspect the metal surfaces for any scoring or damage.

5.3. Reassembly with New Seals

1. **Lubricate New Seals:** Lightly lubricate all new O-rings and seals from the WELURE kit with clean hydraulic fluid before installation. This helps prevent damage during assembly and ensures proper seating.
2. **Install New Seals:** Install the new seals into their respective grooves and locations, ensuring they are seated correctly and not twisted or pinched. Refer to the helm's service manual or take photos during disassembly for guidance.
3. **Reassemble Helm Unit:** Carefully reassemble the helm unit in the reverse order of disassembly. Ensure all fasteners are tightened to the manufacturer's specifications (if available).

5.4. Post-Installation

1. **Remount Helm:** Reinstall the helm unit onto the vessel, connecting all hydraulic lines and the steering wheel.
2. **Refill and Bleed System:** Refill the hydraulic system with the recommended hydraulic fluid and thoroughly bleed the system to remove all air. Follow the manufacturer's bleeding procedure for your specific steering system.
3. **Check for Leaks:** After refilling and bleeding, operate the steering system from lock to lock several times and carefully inspect all connections and the helm unit for any signs of leaks.

6. OPERATING CONSIDERATIONS AFTER REBUILD

After successfully rebuilding and reinstalling your hydraulic helm, proper operation and initial checks are crucial.

- **Initial Steering Checks:** With the engine off, turn the steering wheel from hard over to hard over several times. The steering should feel smooth and consistent, without any binding or excessive play.
- **Fluid Level Monitoring:** Regularly check the hydraulic fluid reservoir level during the first few hours of operation. Air trapped in the system may work its way out, causing the fluid level to drop slightly. Top up as needed.
- **Leak Detection:** Continue to monitor for any signs of hydraulic fluid leaks around the helm unit and connections, especially during the first few uses.
- **Performance Test:** Conduct a slow-speed test in a safe area to confirm full and responsive steering control before operating at higher speeds.

7. MAINTENANCE

Regular maintenance of your hydraulic steering system, including the helm unit, will ensure longevity and reliable performance.

- **Fluid Level:** Check the hydraulic fluid level periodically and top up with the manufacturer-recommended fluid as necessary.
- **Fluid Condition:** Inspect the hydraulic fluid for discoloration or contamination. If the fluid appears dark or cloudy, it may be time for a full system flush and fluid replacement.
- **Leak Inspection:** Routinely inspect all hydraulic lines, connections, and the helm unit for any signs of leaks. Address any leaks promptly to prevent system failure.
- **Steering Wheel Play:** Check for excessive play in the steering wheel. If significant play develops, it may indicate wear in the helm unit or other steering components.

8. TROUBLESHOOTING

If you encounter issues after rebuilding your hydraulic helm, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Steering feels spongy or unresponsive	Air in the hydraulic system	Re-bleed the hydraulic steering system thoroughly.
Hydraulic fluid leak from helm unit	Improperly seated seals, damaged seals, or loose connections	Inspect all seals for proper installation. Tighten connections. If seals are damaged, replace them.
Steering is stiff or difficult to turn	Low hydraulic fluid level, contaminated fluid, or mechanical binding	Check fluid level and top up. Inspect fluid for contamination; flush and replace if necessary. Check for any mechanical obstructions.
No steering response	Critical fluid loss, major system failure, or air lock	Immediately check fluid level. Inspect for major leaks. Re-bleed system. If problem persists, seek professional assistance.

9. SPECIFICATIONS

This WELURE Hydraulic Helm Seal Rebuild Kit is manufactured to meet or exceed original equipment specifications for the listed compatible models.

- **Type:** Hydraulic Helm Seal Rebuild Kit
- **Material:** High-quality rubber, metal, and composite materials

- **Compatibility:** Designed for SeaStar and BayStar hydraulic helm models (refer to Section 4 for full list)
- **Package Contains:** A complete set of seals, O-rings, gaskets, nuts, and screws required for one helm unit rebuild.

10. WARRANTY INFORMATION

WELURE products are designed for durability and performance. For specific warranty terms and conditions, please refer to the product packaging or contact WELURE customer support directly. Keep your proof of purchase for any warranty claims.

11. CUSTOMER SUPPORT

If you have any questions regarding the installation, compatibility, or performance of your WELURE Hydraulic Helm Seal Rebuild Kit, please do not hesitate to contact our customer support team. Provide your product model number and a detailed description of your inquiry for prompt assistance.

Contact Information: Refer to the WELURE official website or product packaging for the most current contact details.