

RKX N62, N73

RKX Premium Vacuum Pump Reseal Kit Instruction Manual

FOR BMW N62 4.4L, 4.8L & N73 6.0L, 6.7L ENGINES

1. Introduction

The RKX Premium Vacuum Pump Reseal Kit provides a comprehensive solution for repairing oil leaks from the vacuum pump in compatible BMW N62 and N73 engines. This kit offers a cost-effective alternative to replacing the entire vacuum pump assembly. The seals are manufactured from a proprietary blend of military-grade fluorocarbon, engineered to withstand the extreme conditions within your engine and ensure a durable, long-lasting repair. The front main seal incorporates Double Lip Technology (DLT) for enhanced sealing performance.

2. Compatibility

This reseal kit is compatible with specific BMW models equipped with the N62 V8 and N73 V12 engines. Please verify your engine code before ordering to ensure correct fitment.

Compatible Engines and Models:

- **V8 4.4L / 4.8L - N62 Engine:**
 - 5 Series 2004 - 2010 (E60, E60N)
 - 6 Series 2004 - 2010 (E63, E63N, E64N)
 - 7 Series 2002 - 2008 (E65, E66)
 - X5 2004 - 2010 (E53, E70)

- **V12 6.0L / 6.7L - N73 Engine:**

- 7 Series 2002 - 2008 (E65, E66)
- Phantom 2004 - 2012 (RR1)
- Drophead 2008 - 2012 (RR2)

Important Note: This kit is **not** compatible with the 4.4L turbocharged N63 engine.

3. Package Contents

The RKX Premium Vacuum Pump Reseal Kit includes all necessary gaskets and O-rings required to rebuild your vacuum pump and address oil leaks.



A clear view of the two brown fluorocarbon O-rings included in the RKX reseal kit. The O-rings are shown on a white background, highlighting their distinct sizes and material texture.



An extreme close-up of a single brown fluorocarbon O-ring, emphasizing the material quality and precise manufacturing of the seal. The texture and uniform thickness of the O-ring are clearly visible.

4. Installation Instructions

This section outlines the general procedure for resealing your vacuum pump. It is recommended that this procedure be performed by a qualified technician or an individual with appropriate automotive repair experience. Always refer to your vehicle's specific service manual for detailed instructions and torque specifications.

Required Tools (Not Included):

- Basic hand tools (sockets, wrenches, screwdrivers)
- Torque wrench
- Cleaning solvent and rags
- Gloves and eye protection

Step-by-Step Procedure:

1. **Safety First:** Ensure the engine is cool and the vehicle is safely supported. Disconnect the battery's negative terminal to prevent accidental electrical activation.
2. **Locate and Access Vacuum Pump:** Identify the vacuum pump on your engine. Depending on your vehicle model, you may need to remove other components to gain access.

3. **Remove Vacuum Pump:** Carefully disconnect any hoses or electrical connectors attached to the vacuum pump. Unbolt the vacuum pump from the engine block. Be mindful of any oil that may drain during removal.
4. **Disassemble and Clean:** Once removed, disassemble the vacuum pump housing. Thoroughly clean all mating surfaces of the pump housing and internal components to remove old gasket material, oil residue, and debris. Ensure surfaces are dry and free of contaminants.
5. **Replace Seals:** Remove the old, worn-out O-rings and gaskets. Install the new RKX fluorocarbon O-rings and gaskets into their respective grooves and channels within the vacuum pump housing. Ensure they are seated correctly and not twisted or pinched.



This image displays the RKX vacuum pump reseal kit, including two brown fluorocarbon O-rings, alongside a disassembled BMW vacuum pump, illustrating the components for repair.

6. **Reassemble Vacuum Pump:** Carefully reassemble the vacuum pump housing, ensuring all internal components are correctly aligned.
7. **Reinstall Vacuum Pump:** Mount the resealed vacuum pump back onto the engine block. Tighten bolts to the manufacturer's specified torque. Reconnect all hoses and electrical connectors.
8. **Final Checks and Testing:** Reconnect the battery. Start the engine and allow it to reach operating temperature. Visually inspect the vacuum pump area for any signs of oil leaks. Monitor oil levels and engine performance.



A detailed close-up showing a new brown O-ring correctly seated within the internal groove of a BMW vacuum pump housing. The internal rotor mechanism is visible, indicating proper seal placement during the resealing process.



This image presents a BMW vacuum pump with a new brown O-ring installed around its internal chamber. The pump's rotor and vanes are visible, demonstrating the fitment of the seal within the operational mechanism.

5. Maintenance

After installation, regular visual inspections of the vacuum pump area are recommended during routine vehicle maintenance. Promptly address any new signs of oil leakage. While the RKX seals are designed for durability, extreme engine conditions or improper installation can affect their lifespan.

6. Troubleshooting

- **Oil Leak Persists After Installation:**

- Verify that all seals and O-rings were installed correctly and are not pinched or damaged.
- Ensure all mating surfaces were thoroughly cleaned before reassembly.
- Inspect the vacuum pump housing for cracks or damage that might prevent a proper seal.
- Confirm that the leak is indeed from the vacuum pump and not another nearby component.

- **Seal Does Not Fit:**

- Double-check the compatibility section to ensure this kit is correct for your specific engine model (N62 or N73) and vehicle.
- Contact RKX customer support if you believe there is a manufacturing defect or incorrect part in your kit.

7. Specifications

Feature	Detail
Product Name	Premium Vacuum Pump Reseal Kit
Brand	RKX
Material	Fluorocarbon (Military Grade)
Manufacturer	RKX
UPC	019985001353
OEM Part Number Interchange	7545384 05, 687390 10, 11667635657, 11667509080, 11 66 7 509 080

8. Warranty and Support

Specific warranty information for the RKX Premium Vacuum Pump Reseal Kit is not provided within this manual. For details regarding product warranty or technical support, please contact RKX directly through their official website or the retailer from whom the product was purchased.