

Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

manuals.plus /

› [BOSCH](#) /

› [BOSCH Service Kit for BDU2XX Drive Units Instruction Manual](#)

BOSCH BDU2XX

BOSCH Service Kit for BDU2XX Drive Units

Instruction Manual

1. INTRODUCTION

This manual provides essential instructions for the proper use and installation of the BOSCH Service Kit for BDU2XX drive units. This kit is designed for the repair of second-generation Bosch eBike drive units, specifically addressing damage to the right-hand bottom bracket. Adherence to these instructions is crucial for ensuring the correct function and longevity of your eBike motor.

2. IMPORTANT SAFETY INFORMATION

- **Professional Installation Recommended:** It is strongly recommended that this service kit be fitted only by a Bosch-approved workshop or a qualified eBike technician. Incorrect installation can lead to damage to the drive unit or personal injury.
- **Warranty Considerations:** This kit is only suitable for repairs on eBikes that are outside of their warranty period. Removing official Bosch seals during the repair process will void any existing warranty.
- **Incompatible Drive Units:** Do not attempt to repair drive units with the following part numbers: 0 275 007 020, 0 275 007 021, 0 275 007 022, 0 275 007 023, 0 275 007 024, 0 275 007 025. Additionally, drive units on bikes equipped with a back-pedal brake must not be repaired using this kit.
- **Use Genuine Parts:** Always use genuine BOSCH parts as supplied in this kit to ensure compatibility and performance.

3. PRODUCT OVERVIEW AND COMPONENTS

The BOSCH Service Kit for BDU2XX drive units includes all necessary components for the specified repair. Familiarize yourself with each part before beginning the installation process.



Figure 1: Contents of the BOSCH Service Kit. This image displays the main components: the drive unit cover with integrated bearing, seal, and freewheel; a drive gear; a smaller gear; tubes of bearing protection grease and drive unit grease; various screws; a bearing pin with a rubber collared bush and protective disc; and several circlips and felt seals.

Kit Contents:

- **Cover:** Includes integrated bearing, seal, and freewheel.
- **Drive Gear:** Main toothed wheel for power transmission.
- **Gear Grease:** Specialized grease for drive unit components.
- **Cover Screws:** Fasteners for securing the drive unit cover.
- **Bearing Pin:** With rubber collared bush and protective disc.
- **Bearing Protection Grease:** Long-life tacky grease for bearing longevity.
- **Repair Instructions:** Detailed guide for the repair process (refer to this manual).
- Additional seals and circlips.

4. SETUP AND INSTALLATION

This section outlines the general steps for installing the service kit. For detailed, step-by-step instructions, refer to the specific repair instructions provided within the kit or consult a Bosch-approved service center.

1. **Preparation:** Ensure the eBike is powered off and secured. Remove the drive unit from the bicycle frame according to the eBike manufacturer's guidelines.
2. **Disassembly:** Carefully disassemble the drive unit to access the right-hand bottom bracket area. Note the position and orientation of all components. This step typically involves removing the existing cover and gears.
3. **Component Replacement:** Replace the damaged or worn components with the new parts from the service kit. This includes the cover (with its integrated bearing, seal, and freewheel), the drive gear, and the bearing

pin with its bush and protective disc.

4. **Lubrication:** Apply the provided gear grease and bearing protection grease to the appropriate components as specified in the detailed repair instructions. Proper lubrication is critical for smooth operation and component lifespan.
5. **Reassembly:** Reassemble the drive unit, ensuring all screws (including the new cover screws) are tightened to the manufacturer's specified torque settings.
6. **Testing:** After reinstallation of the drive unit onto the eBike, perform functional tests to ensure proper operation of the motor and all related systems.

Note: Specialized tools may be required for disassembly and reassembly. Consult a professional if you are unsure about any step.

5. MAINTENANCE

Once the service kit components are installed, ongoing maintenance of the drive unit is generally part of the eBike's regular service schedule. The components in this kit are designed for long-term performance. However, regular inspections by a qualified technician can help identify potential issues early.

- **Regular Inspections:** Have your eBike drive unit inspected periodically by a Bosch-approved service center.
- **Lubrication Check:** While the provided greases are long-lasting, extreme conditions or prolonged use may necessitate re-lubrication. This should only be performed by a qualified technician.
- **Seal Integrity:** Ensure that all seals remain intact to prevent water and dirt ingress into the drive unit.

6. TROUBLESHOOTING

This service kit is a repair solution for specific mechanical issues within the BDU2XX drive unit. If you encounter problems after installation, consider the following:

- **Unusual Noises or Vibrations:** If the drive unit produces new or unusual noises or vibrations after repair, it may indicate incorrect assembly, improper lubrication, or a component not seated correctly. Immediately cease operation and have the unit inspected by a professional.
- **Loss of Power or Functionality:** If the eBike motor does not function correctly or exhibits a loss of power, re-check all connections and ensure all components are correctly installed. This could also indicate an electronic issue beyond the scope of this mechanical repair kit.
- **Fluid Leaks:** Any signs of grease or fluid leakage from the drive unit indicate a compromised seal. This requires immediate attention from a qualified technician to prevent further damage.

For complex issues or if you are unable to resolve a problem, contact a Bosch-approved service center for diagnosis and repair.

7. SPECIFICATIONS

Feature	Detail
Brand	BOSCH
Model Name	SERVICE KIT REPAIR BDU2XX
Part Number	275007384

Feature	Detail
Compatible Drive Units	Second-generation Bosch eBike drive units (BDU2XX series), excluding specific part numbers and units with back-pedal brakes.
Material	Mixed (metal, plastic, rubber, grease)
Item Weight	1 Kilogram
Package Weight	1.29 Kilograms
Package Dimensions (L x W x H)	10.87 x 7.09 x 2.95 inches
Included Components	Cover (incl. seal, bearing, freewheel), drive gear, gear grease, cover screws, bearing pin with rubber collared bush and protective disc, repair instructions.

8. WARRANTY AND SUPPORT

This service kit is intended for repairs on drive units outside of their original warranty period. Installation of this kit, particularly the removal of original seals, will void any existing manufacturer's warranty on the drive unit. For technical support, further repair guidance, or to locate a Bosch-approved service center, please visit the official BOSCH eBike Systems website or contact their customer service department. Always refer to official BOSCH resources for the most accurate and up-to-date information.

[Find a Bosch eBike Dealer/Service Center](#)