

ZÜNDAPP Z802/Z80S/Green 7.7

ZÜNDAPP Z802/Z80S/Green 7.7 Ananda E-Bike Rear Hub Motor User Manual

Model: Z802/Z80S/Green 7.7

1. INTRODUCTION

This user manual provides essential information for the installation, operation, maintenance, and troubleshooting of your ZÜNDAPP Z802, Z80S, or Green 7.7 Ananda E-Bike Rear Hub Motor. Please read this manual thoroughly before installation and use to ensure proper function and safety.

2. SAFETY INSTRUCTIONS

- Always wear appropriate safety gear, including gloves and eye protection, during installation.
- Ensure the bicycle is stable and secured before beginning any work on the motor or wheel.
- Disconnect the e-bike battery before performing any electrical connections or maintenance.
- Handle electrical components with care. Avoid exposing the motor or connectors to excessive moisture.
- Ensure all connections are secure and properly insulated to prevent short circuits.
- If you are unsure about any installation or maintenance step, consult a qualified bicycle mechanic.

3. PRODUCT OVERVIEW

The ZÜNDAPP Ananda Rear Hub Motor is designed for Z802, Z80S, and Green 7.7 City Bike models. It provides pedal assistance for an enhanced cycling experience. Key features include:

- Integrated hub motor for rear wheel installation.
- Compatible with 26-inch and 28-inch wheels.
- Equipped with three Hall sensors and one speed sensor for precise control.
- Features a 9-pin plug for electrical connection.
- Designed for use with 6-hole disc brakes.



Figure 3.1: Overview of the ZÜNDAPP Ananda Rear Hub Motor. This image displays the complete motor unit, including the central axle, mounting points, and the attached electrical cable with its connector.

4. SETUP AND INSTALLATION

Follow these steps for proper installation of the rear hub motor:

1. **Prepare the Wheel:** Ensure you have a compatible 26-inch or 28-inch rear wheel. The motor is designed to be integrated into the rear wheel.
2. **Motor Orientation:** When installing the motor, ensure the cable guide is positioned on the left side of the bicycle (non-drive side). This is crucial for proper cable routing and protection.
3. **Disc Brake Installation:** The motor is compatible with 6-hole disc brakes. Mount your disc brake rotor securely to the designated 6-hole pattern on the motor hub. Ensure all bolts are tightened to the manufacturer's specifications (typically 5 Nm for M5x8mm bolts).
4. **Electrical Connection:** Connect the motor's 9-pin plug to the corresponding connector on your e-bike's wiring harness. Ensure the connection is firm and fully seated.
5. **Cable Routing:** Route the motor cable carefully along the bicycle frame, securing it with cable ties to prevent snagging or damage.
6. **Final Checks:** Before riding, verify that the wheel spins freely, the brake operates correctly, and all electrical connections are secure.



Figure 4.1: Motor cable exit and disc brake mounting. This view highlights the specific side for cable routing (left side) and the 6-hole pattern for attaching a disc brake rotor. Note the "important: use M5x8mm for disc fastening [5Nm]" text on the motor body.



Figure 4.2: 9-pin electrical connector. A detailed view of the motor's electrical connector, showing the nine pins that connect to the e-bike's control system.

5. OPERATING INSTRUCTIONS

Once the motor is correctly installed and connected, its operation is typically controlled by the e-bike's main display and control unit. Refer to your specific ZÜNDAPP e-bike model's user manual for detailed instructions on:

- Turning the e-bike system on and off.
- Selecting pedal assist levels (e.g., Eco, Tour, Sport, Turbo).
- Monitoring battery level and speed.
- Using walk-assist mode (if available).

The motor provides assistance based on your pedaling input, detected by the integrated speed and Hall sensors. The level of assistance will vary depending on the selected mode and your pedaling effort.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your motor:

- **Cleaning:** Keep the motor housing clean from dirt, mud, and debris. Use a damp cloth; avoid high-pressure washing directly on the motor or electrical connections.
- **Cable Inspection:** Periodically check the motor cable and its connectors for any signs of wear, cuts, or damage. Ensure connections remain secure.
- **Bolt Tightness:** Regularly inspect all mounting bolts, especially those for the disc brake rotor and wheel axle, to ensure they are tightened to the correct torque specifications.
- **Environmental Protection:** While the motor is designed for outdoor use, avoid prolonged exposure to extreme weather conditions or submersion in water.

7. TROUBLESHOOTING

If you encounter issues with your motor, consider the following common troubleshooting steps:

Problem	Possible Cause	Solution
Motor not providing assistance	Battery low or disconnected, loose electrical connection, sensor issue, system error.	Check battery charge and connection. Inspect all cables and the 9-pin connector for secure fit. Restart the e-bike system. Consult your e-bike's main manual for error codes.
Unusual noise from motor	Loose components, foreign object, internal motor issue.	Check for loose bolts or debris around the motor. If noise persists, discontinue use and consult a professional.
Intermittent power assistance	Loose sensor connection, damaged cable, intermittent electrical fault.	Inspect all sensor and power cables for damage or loose connections. Ensure the 9-pin connector is fully engaged.

If troubleshooting steps do not resolve the issue, contact ZÜNDAPP customer support or a certified service center.

8. SPECIFICATIONS

Feature	Specification
Model Compatibility	ZÜNDAPP Z802, Z80S, Green 7.7 City Bikes with Ananda system
Motor Type	Rear Hub Motor
Rated Power	250 W
Voltage	36 V
Max Torque	31 Nm
Axle Length	180 mm
Mounting Width	110 mm
Wheel Size Compatibility	26 inch or 28 inch
Sensors	3 Hall sensors, 1 speed sensor
Connector Type	9-pin plug
Brake Compatibility	6-hole disc brakes
Cable Guide Position	Left side (non-drive side)

9. WARRANTY INFORMATION

For detailed warranty terms and conditions, please refer to the official ZÜNDAPP website or the documentation provided with your complete e-bike purchase. Keep your proof of purchase for warranty claims.

10. SUPPORT

If you require technical assistance, have questions regarding installation, or need to report a product issue, please contact ZÜNDAPP customer service through their official website or the contact information provided with your e-bike.

For further information, you may visit the official ZÜNDAPP website:[www.zuendapp.de](#) (Note: This is a placeholder link, please verify the actual support URL).