

TongSheng 13TSDZ8B02NTSE

TSDZ8 750W Mid-Drive Ebike Conversion Kit User Manual

Brand: TongSheng | Model: 13TSDZ8B02NTSE

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your TSDZ8 750W Mid-Drive Ebike Conversion Kit. This mid-drive motor is a new product released by TongSheng, designed to offer powerful output while retaining the natural feel of a torque sensor. It's an excellent solution for upgrading your bicycle to an electric bike, suitable for various terrains and riding conditions.



Figure 1: TSDZ8 Mid-Drive Ebike Conversion Kit components.

KEY FEATURES

- **Easy to Install:** Compatible with most standard bicycles with BB length 2.78in/2.87in (68mm/73mm) outer

diameter and 1.34in/1.42in (34mm/36mm) inner diameter. Includes BB adapter rings and screw washers for a secure fit, suitable for Road, Mountain, Folding, Hybrid, Commuter, and Cyclocross bikes.

- **Powerful and Reliable:** Features a 22ah+ controller current and 140 N.m torque, paired with a torque sensor, for effortless control across various terrains and challenging riding conditions such as climbing, long-distance, leisure, and commuting rides.
- **Real-time Riding:** A comprehensive dashboard provides real-time monitoring of vital information including battery level, speed, mileage, drive level mode selection, and system error alerts.
- **Mid-Drive Solution:** Offers a cost-effective alternative to purchasing a new e-bike, allowing for DIY customization of battery capacity to match riding style.
- **Local Support:** Includes a 2-year warranty on the motor and dedicated technical support for smooth operation.

COMPONENTS AND PACKING LIST

The TSDZ8 Mid-Drive Ebike Conversion Kit typically includes the following components:

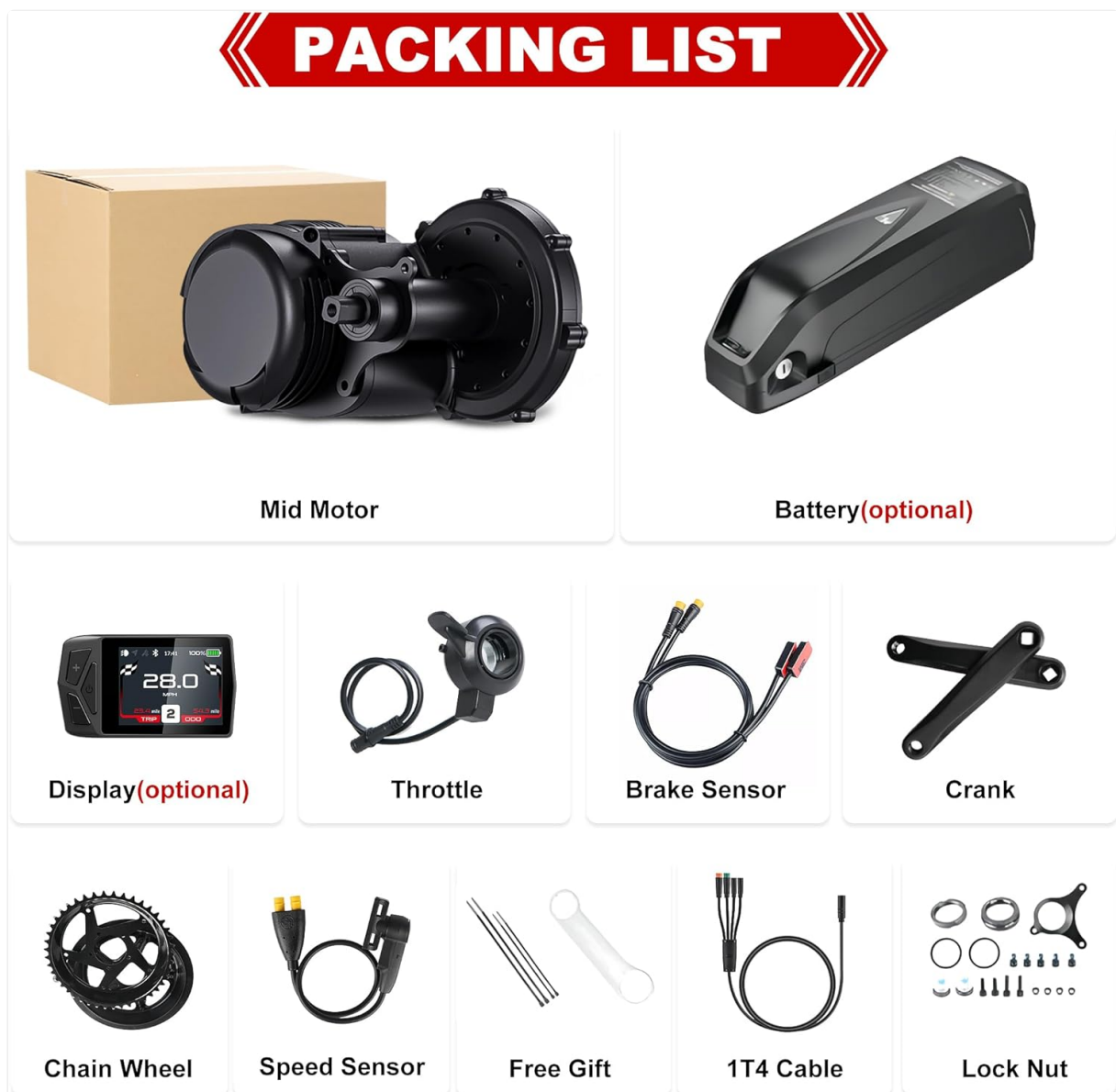


Figure 2: Packing list of the TSDZ8 kit. Includes Mid Motor, optional Battery, optional Display, Throttle, Brake Sensor, Crank, Chain Wheel, Speed Sensor, 1T4 Cable, and Lock Nut.


INSTALLATION GUIDE

Follow these steps carefully to install your TSDZ8 Mid-Drive Ebike Conversion Kit. For visual guidance, refer to the embedded videos and diagrams.

1. Pre-Installation Checks

Ensure your bicycle's bottom bracket (BB) length is 68mm or 73mm and the inner diameter is 34mm or 36mm for universal fit. The kit includes necessary adapter rings and screw washers.

《 TSDZ8 Core Data 》



● Voltage	● Rated Power	● Peak Power	● Max Torque	● TOP SPEED
48V	750W	1200W	140N.m	28MPH
● Reduction Ratio	● Controller Current	● Waterproof	● Weight	● Certificate
38	22A	IP5	4.8KG/10.6lb	CE/EN

Figure 3: Bike compatibility and motor dimensions.

2. Handlebar Setup

Remove existing grips, brakes, and shifters from your handlebars. Install the new throttle and display, then re-install your brakes and grips. Adjust their positions for comfortable and safe operation.

Video 1: TSDZ8 Installation and Overview. This video provides a general overview of the installation process, including handlebar setup.

3. Motor Installation

Remove your bike's existing crankset and bottom bracket. Carefully insert the TSDZ8 mid-drive motor into the bottom bracket shell. Secure it using the provided nuts and bolts, ensuring it is firmly seated and aligned.

Video 2: TSDZ8 Mid-Drive Kit Installation Guide. This video offers a step-by-step guide for installing the motor and related components.

4. Wiring Connections

Connect all the necessary cables from the motor to the display, throttle, brake sensors, and speed sensor. Use the 1T4 cable to consolidate connections where applicable. Ensure all connections are secure and properly routed to avoid interference with moving parts.

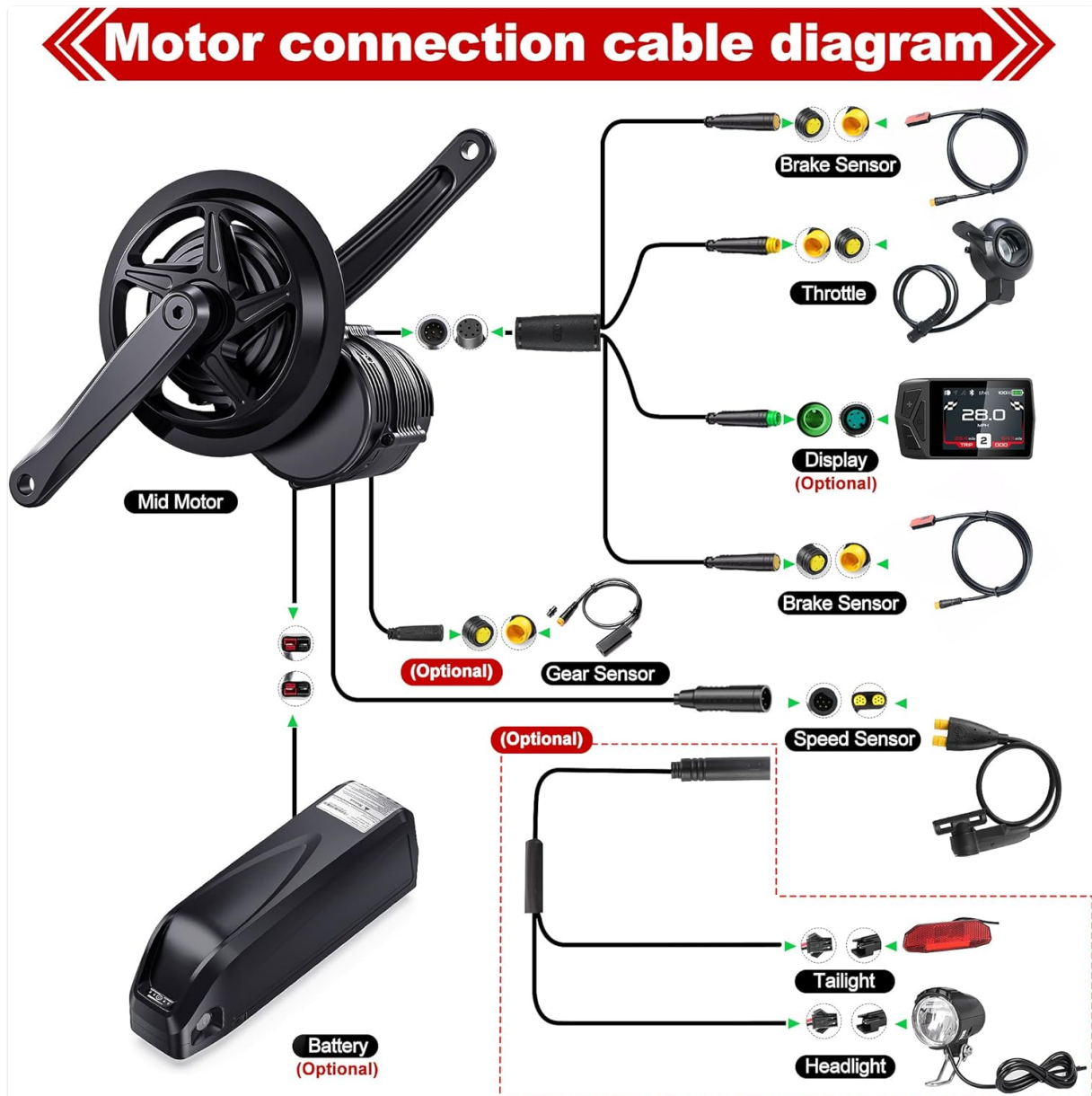


Figure 4: Motor connection cable diagram.

5. Sensor Installation

Install the speed sensor on the rear chainstay and attach the magnet to a spoke on the rear wheel. Ensure the sensor and magnet are aligned and within the recommended distance for accurate speed readings.

OPERATING INSTRUCTIONS

Once installed, the TSDZ8 kit provides real-time riding data through its comprehensive display. Power on the system using the display's power button. You can monitor battery level, current speed, trip mileage, and select different drive assist levels. The display also provides system error alerts if any issues arise.

Bike compatible with motor



Figure 5: TSDZ8 Ebike Display Interface.

MAINTENANCE

Regular maintenance is crucial for the longevity and optimal performance of your ebike conversion kit. Keep the motor and electrical connections clean and dry. Periodically check all bolts and nuts for tightness, especially those on the motor and crankset. Lubricate the chain regularly. If you notice any unusual noises or performance issues, consult the troubleshooting section or contact support.

TROUBLESHOOTING

If you encounter any issues with your TSDZ8 kit, first check all cable connections to ensure they are secure. Verify that the battery is fully charged and properly connected. Consult the display for any error codes, which can help diagnose specific problems. For persistent issues, refer to the detailed troubleshooting guide available on the manufacturer's website or contact customer support.

SPECIFICATIONS

Key technical specifications for the TSDZ8 Mid-Drive Ebike Conversion Kit:

Specification	Value
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Rated Power	750W
Rated Voltage	48V
Max Torque	140 N.m
Reduction Ratio	38
Pedal Sensor	Integrated Torque sensor
Weight	10.6lb / 4.8KG
Controller Current	22A+
Waterproof Rating	IP5
BB Length Compatibility	68mm/73mm
BB Inner Diameter	34mm/36mm

EASIER TO FIT ON MORE BIKES >>>>



Cargo bike



Fat bike



Touring bike



Mountain bike

Figure 6: TSDZ8 Core Data.

The TSDZ8 motor comes with a 2-year warranty. For any questions, concerns, or technical support, please do not hesitate to reach out to our local support team. We are committed to ensuring you have a smooth and enjoyable riding experience.