

WESTHILL

Electric Bike User Manual



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Contents

Attention	3
1 Check Before Use	3
2 Product Information	4
2.1 Product Performance	4
2.2 Product Specifications	4
3. Adjustments	5
3.1 Adjusting The Handlebar	5
3.2 Adjusting The Saddle	6
3.3 Adjusting The Wheels	7
3.4 Adjusting And Maintaining The Brakes	7
3.5 Adjusting The Gear-Change Rear Derailleur	8
4 How To Use	10
4.1 Input The Battery	10
4.2 Turn On The Power	11
4.3 Control Panel	11
4.4 Front And Rear Lights	11
4.5 Caution Whilst Riding	12
4.6 Caution Whilst Parked	12
4.7 Charging The Battery	12
4.8 Battery And Charger Maintenance	12
4.9 Battery And Charger Precautions	13
5 Bicycle Inspection And Care	14
5.1 Regular Cleaning	14
5.2 Regular Maintenance (Every 1`2 Months)	14
5.3 Lubricating The E-Bike	15

Attention

- Do not operate this electric bike without fully reading and understanding its operation and limitations.
- Before riding each time ensure that all parts are in good order. For any questions or concerns, please contact your Authorised Dealer's Customer Service.
- Ensure you observe traffic rules and regulations when using this electric bike. Passengers cannot be carried. When riding in rain, snow or slippery conditions reduce your speed and increase the distance between yourself and other vehicles.
- We advise against performing maintenance operations that involve removing parts or components. If necessary, please contact your Authorised Dealer's Customer Service.
- Do not ride through deep puddles. Water could enter the hub motor, causing short circuits and irreparable damage.
- The two metallic contacts located on the battery box are the positive and negative battery terminals. Avoid touching them, especially with wet hands, and do not use metal objects to connect them, in order to avoid high-current electric discharge that could cause severe burns, electric shocks or damage to the batteries.
- Do not allow individuals who are unfamiliar with the features and functions of this e-bike to operate it without proper instruction.
- Do not modify the e-bike by yourself.

1. Check before use

- Is the tyre pressure [3.4 - 5.1 bar] correct?
- Is the batteries sufficiently charged?
- Are the handlebar attachment and saddle post correctly inserted and tightened?
- Are the wheel hub mounting nuts correctly tightened?
- Is the bell working correctly?

2. Product information

2.1 production performance

This e-bike is fitted with a high quality brushless motor, intelligent operating system, high quality lithium battery, freewheel, power display unit and electric cut off when braking.

2.2 Product specifications

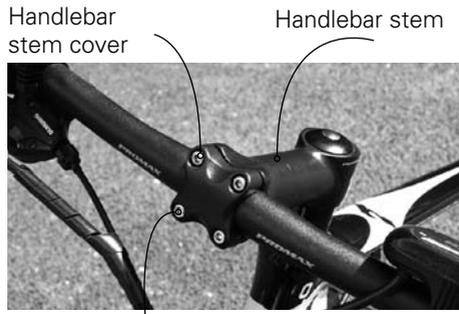
Bike Specifications	Model	AEC-TDE16Z	Motor Specifications	Type	Brushless
	Dimensions	1830 x 650 x 1050mm		Rated Power	250W
	Wheel Diameter	660mm		Rated RPM	170rpm
	Wheelbase	1170mm		Rated Voltage	36V
	Rated Load	95kg		Rated Output Torque	13N.m
	Max Speed	25km		Speed Range	0~25Km/h
	Range Per Charge	≥35km		Controller	Under Voltage Value
	Weight	23Kg	Over Current Value		15±0.5A
Battery Spec	Type	Lithium-ion	Charger	Current	AC110v-240v 50-60 hZ
	Capacity	10Ah		Output	DC41.7V
	Rated Voltage	36V	Packing	1500 x 280 x 770mm	

Note: Maximum travel distance on a fully charged battery is measured at a condition of 20°C, no wind, flat road, total bike weight 75Kg, and 25km/h speed. This will vary according to load, road conditions, wind direction, temperature, braking and restarts, tyre pressure and prompt battery charging. To obtain the maximum travel distance, we suggest you check all factors within your control, including overloading, driving style, tyre pressure and timely battery charging.

3. Adjustments

3.1 Adjusting the handlebar

- Place the handlebar onto the handlebar stem, place on the cover, and fix with the two screws. The tighten torque should not be less than 18Nm.



Hexagon socket screws

- To align the handlebars, face your bike and hold the front wheel between your legs. Turn the handlebars so that they are perpendicular to the front wheel.



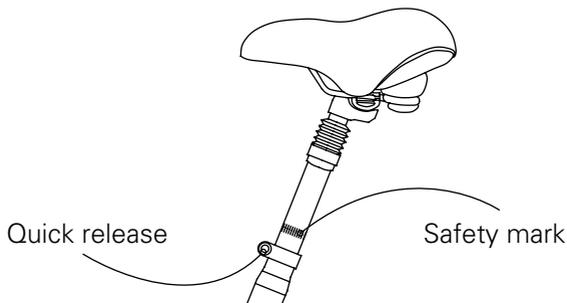
- Tighten the screw that fixes the handlebar attachment to the frame. The tightening torque should not be less than 18Nm.

Handlebar stem screw



3.2 Adjusting the Saddle

- The saddle post must be inserted at least to the circular safety mark engraved on the tube.
- Adjust the saddle height by straddling the saddle, with both feet touching the ground, and without using the stand.
- The saddle should be parallel to the ground for maximum comfort. The tightening torque for the saddle mounting screw and saddle post mounting screw should not be less than 18Nm.

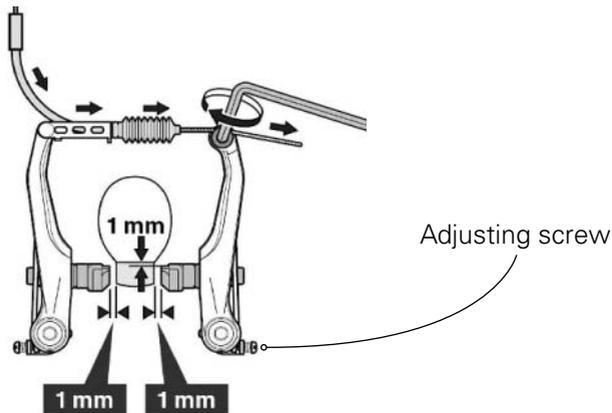


3.3 Adjusting the wheels

- Tighten the screws to make sure the front and back wheels are fixed to the front fork and frame.
- Recommended tightening torques are as follows:
 - Front wheel hub: 18Nm
 - Rear wheel hub: 30Nm

3.4 Adjusting and maintaining the brakes

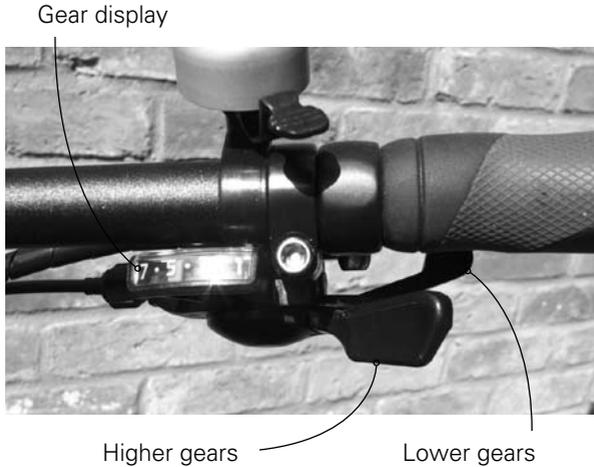
- Grease and insert the brake cable in the housing.
- Use a 5-mm Allen wrench and a tightening torque of 6–8 Nm to secure the cable to the brake body.
- Align the brake pads 1 mm below the upper edge of the wheel rim.
- Position the brake pads 1 mm from the wheel rim using the adjustment screw located on the brake lever.
- Check that the wheels spin freely, without being hindered by the brake pads.
- Check if the spinning wheels touch the rim on one side, if so; adjust the screw.
- Check that the brakes stop the wheel when the brake lever on the handlebars is activated. The brake lever travel must be no greater than 2.5 cm.



3.5 Adjusting the Gear-Change Rear Derailleur

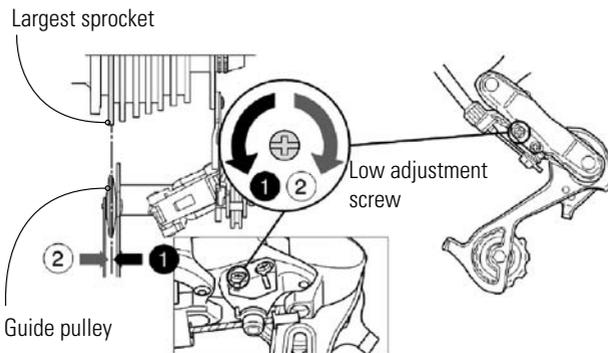
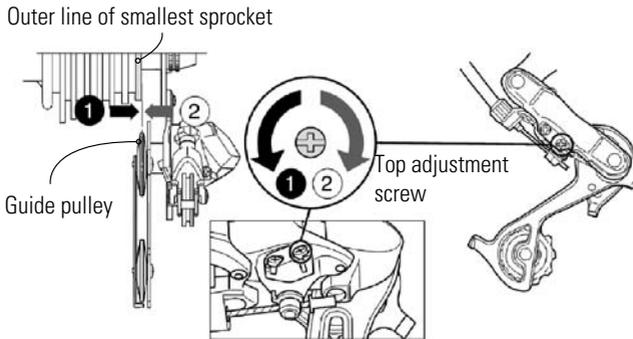
3.5.1 instruction in use

- To change into a higher gear (used for going uphill) press in the front lever with your thumb. For a lower gear (for when there is low resistance going downhill) use your forefinger to press in the back lever. The gear you are in is displayed on the gear display.

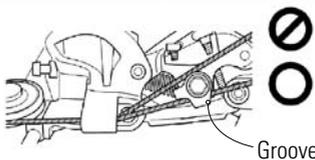


3.5.2 Adjusting the Derailleur

- Adjust the lower bolt to make the guide wheel move to the free-wheel; align the centre of the guide wheel and the outer line of the smallest sprocket.
- Turning the front chain-wheel, operate the gear lever to shift to the lowest gear, then tighten the derailleur cable and fix it by the derailleur cable nut.
- Turn the low adjustment screw so that the guide pulley moves to a position directly below the largest sprocket.
- Tighten the adjust nut when the rear gear is lower than the gear shift shows; loosen the adjust nut when the rear gear is upper than the gear shift shows. It is OK when the gear changes correctly and smoothly.



Note: Be sure that the cable is securely in the groove.



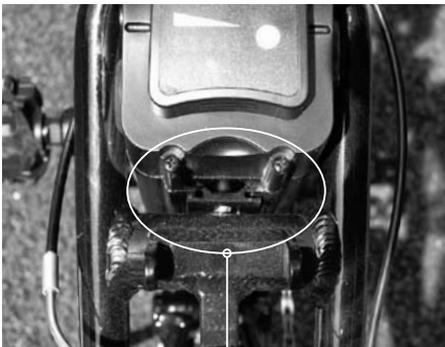
4 How to use

4.1 input the battery

- Make sure the battery terminals are dry before inserting the battery.
- Lift up the saddle using the lever underneath.



- Slide in the battery, ensuring that the battery guide board slots into the grooves of the battery.
- Lock the battery into place at the bottom of the battery by turning the key clockwise.



4.2 Turn on the power

- Place the key into the lock and turn the key clockwise to turn the power on.
- Press the ON/OFF button of the power display. If all the four light are on, it means the power is full. The lights turn off one by one as the battery power decreases gradually. If only the L light is on, recharge the battery immediately.

4.3 Control Panel

- The performance is controlled by pedalling. You can change the electric assistance by press mode button on the power display. If on LOW mode, the electric assistance is low; if on MED mode, the electric assistance is stronger; if on HIGH mode, the electric assistance is strongest.



4.4 Front and rear lights

- Push the light button on the power display to turn on or turn off the front light.
- Turn the button up or down to turn on or turn off the rear light.

Button for front light



Button for rear light



4.5 Caution while riding

- Start slowly and speed up slowly.
- The power will automatically cut out if the e-bike overloads and automatically cut back in after a short period if the e-bike is ridden normally.

4.6 Caution whilst parked

- Turn the power off and lock the battery box, remove the key whilst parking the bike.

4.7 Charging the battery

- Connect the battery to the charger; ensure the output terminal of the charger and the input terminal of the battery are firmly connected.
- Plug the charger into the wall outlet, the indicator LED will illuminate RED and the indicator LED will change to GREEN when the battery is fully charged.
- When the battery is fully charged, disconnect the charger from the wall outlet before disconnecting the charger from the battery.
- Charge the battery not less than 12hours for the first 3 times.
- Be sure to use the charger supplied together with the battery, use of other chargers will invalidate the warranty.

4.8 Battery and charger maintenance

- If the battery needs to be stored for an extended period, it should be kept at around 50% state of charge (or charge the battery for 2-3 hours if totally flat) and should be placed in a dry and ventilated area. The battery should be charged 2-3 hours every two months.
- The battery and charger should be kept in a clean, dry and ventilated area, avoid contact with corrosive substances and keep away from excessive heat and open flames.
- Storage conditions for the battery: temperature -20~35°C, relative humidity: 5~65%RH
- The charger should be disconnected from the battery when be kept in storage.

4.9 Battery and charger precautions

4.9.1 Battery

- Never short circuit and discharge or charge terminals of the battery.
- Keep the battery away from fire and excessive heat. Never put the battery into fire.
- To avoid damage to the battery, never subject it to intense physical shock or severe vibration or impact.
- Protect the battery from water and moisture. Protect the discharge and charge terminals of the battery from rain or water logging.
- Operating temperature range when charge: 0~45°C
- Operating temperature range when discharged: -20~45°C
- Humidity whilst battery is in a working state: ≤80% RH
- Keep the battery away from children.
- When the battery is not in use for an extended period of time, remove the battery from the load for storage.
- If you have any questions about this battery or its usage, please contact the Customer Service Department.
- Never disassemble the battery.

4.9.2 Charger

- Charge the battery after you buy this e-bike or the power is low.
- Make sure the charger is at least 1M away from computers, TV's, fridge, washing machine and other electric appliances while charging.
- Use only the charger supplied with this e-bike.
- Only use the charger in a clean and dry place, free from smoke, dust and moisture.
- If the charging finished, disconnect the plug from the wall first, and then disconnect the battery.
- Charge out of the reach of children.
- Never disassemble or refit the charger.
- Never put anything on the charger.
- Do not disconnect the battery output while charging.
- Do not switch on the e-bike while charging.

5 Bicycle inspection and care

5.1 Regular Cleaning

- Remove the battery box from the e-bike before carrying out regular cleaning.
- **DO NOT** use water to clean the e-bike, as the electrical and electronic systems may get wet, resulting in personal injury or malfunction of the bicycle.
- Wipe any dirty painted or plastic parts with a soft, damp cloth and a neutral cleaning solution. Carefully dry the parts with a soft, dry cloth to finish.
- Clean the battery contacts with a damp cloth.
- **DO NOT** grease or use a greasy cloth to wipe down the electrical connectors, brake pads, wheels, tyres or plastic parts.

5.2 Regular maintenance (every 1-2 months)

Always carry out the following checks:

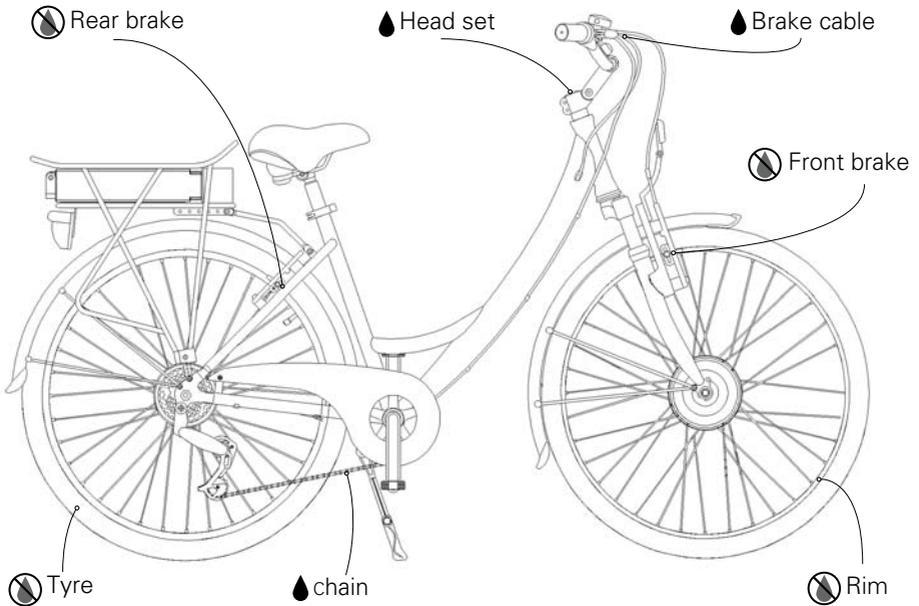
- Check the handlebar attachment and saddle post are correctly inserted and tightened.
- Check the wheel hub mounting nuts are correctly tightened.
- Check the wheel rims are not cracked and that no spokes are loose or broken.
- Check the tyres are not worn or cut.
- Check the tyres are correctly inflated.
- Check the battery contacts on the frame are not dirty or oxidized.
- Check the battery is sufficiently charged.
- Check the front and rear lights are working correctly.
- Check the front and rear brakes brake effectively.
- Check the cables are sufficiently greased, and that the brake pads are in good condition.
- Check frame welds are in good condition and are free from corrosion or oxidation

5.3 Lubricating the e-bike

To maintain your e-bike in proper working order, be sure to carry out regular lubrication, as indicated in the following illustration:

- Use specific transmission lubricants for the chain, freewheel and gears every 1–2 months, or if the driveline is dry.
- Grease the brake pins, front wheel hub, saddle post and pedal pins every 1–2 months, or in case of excessive friction.
- Do not lubricate or grease the speed controller, brake pads or wheel rims

🔹 Parts that should be lubricated 🚫 Parts that should not be lubricated



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