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E-Bike

DAHON POWER SUPPORT TECHNOLOGY

TranzX PST (Power Support Technology)

Driving System for pedal-activated bicycles

✿ Introduction

Congratulations on your purchase of a Dahon E-Bike, that will give you many kilometers of cycling pleasure and comfortable riding.

The Dahon E-Bike offers a perfect synergy between the cyclist's pedal input and additional motor support.

Please keep in mind that improper installation and operation of the TranzX PST can reduce the performance and the overall enjoyment of this product. So before you start, please read the instruction manual carefully and follow each step in order to assure proper fit and installation of your TranzX PST.

Note: Dahon electric bikes are designed for commuting/travel/urban area riding, and are not suitable for very rough or off-road use.

Once again, we thank you for purchasing your Dahon E-Bike.

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✱ Specifications

Frame:	LMA 20" DAAlloy Fengding Bike
Tires:	20" front and rear 20" x 1.75"
Gear Ratio:	SHIMANO (KSG7R50) 7S/3S
Lighting System:	6 V Headlight 2.4W Rear Light 0.6W
Rims:	By battery system
	Double walled aluminium
Motor:	Tranz-X (front hub) 250w 36v
Battery Pack:	Li-polymer 36V 8.8Ah
Charger:	DC36V 2.0A (Li-polymer battery)
Max Speed:	25km/h

✱ Features

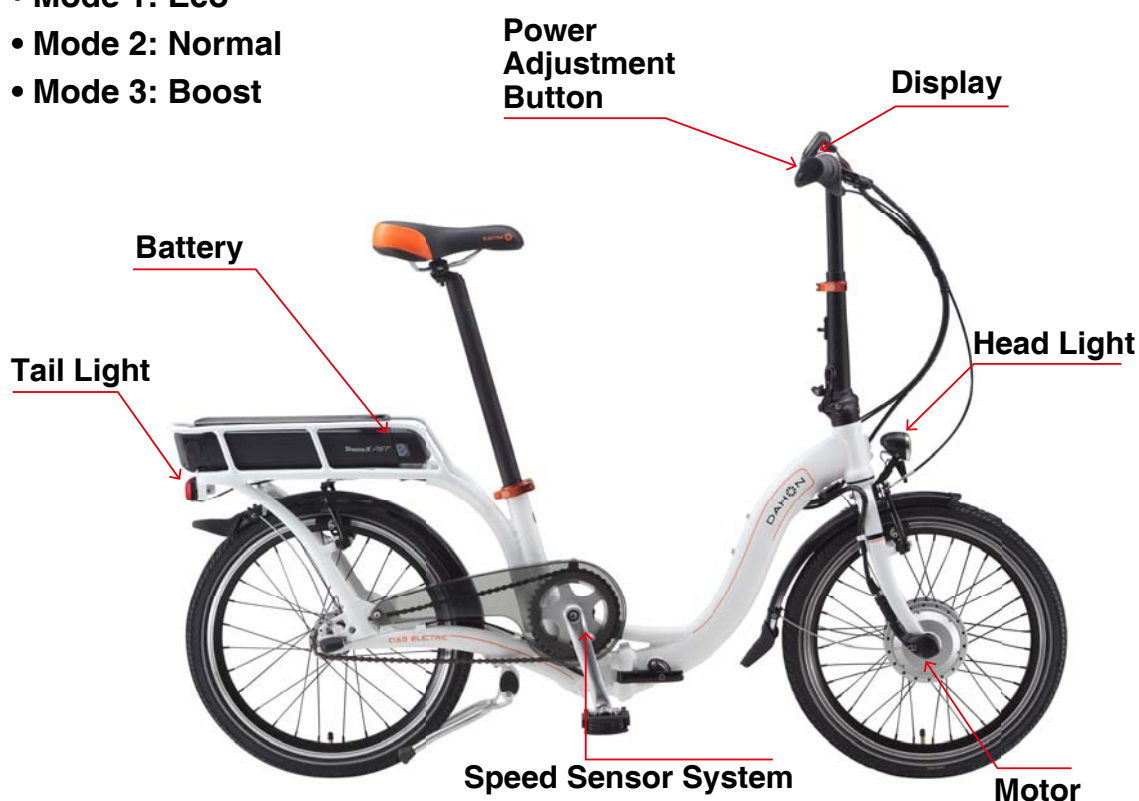
- True Pedal Assist Concept.
- Motor support only switches on when you start pedaling and switches off when you stop pedaling.
- Perfect synergy between cyclist's pedal input & additional motor support.
- 1:1 direct relation between pedal force and motor support.
- Very smooth riding feeling.
- High torque (rider's kick) while starting.
- High torque at low speeds.
- Strong power support during cruising speed (in sports mode).
- Gradual power support decrease at 25 km/hr.
- Complies with all European regulations and is still a bicycle, NOT a moped!
- Large LCD display with current speed, trip distance, battery life and riding program.

Sensor: Adjusts the amount of power from the motor in line with the amount of pressure by the rider, on the pedals.

Range: 60km (36V)

Drive Modes:

- **Mode 1: Eco**
- **Mode 2: Normal**
- **Mode 3: Boost**



✱ Display Instructions






01. Power Button: Power ON/OFF switch function.

02. Drive Mode Button

- Mode 1: Eco
- Mode 2: Normal
- Mode 3: Boost

03. Battery Capacity Indicator

- Each block () shows the battery capacity.
Five blocks () indicates the battery is fully charged.
- The last block will start blinking when the charge is less than 10%.
When the battery icon is empty (), this means the battery has no power remaining.

04. Total distance / Trip distance

- Total distance will show when no speed is detected.
- Trip distance will show when the bicycle is being ridden.
- When the bicycle is attached to an external charger the trip distance will be reset to 0.
- If the maximum total distance of 19999 km is reached, the total distance will be reset to zero.

05. Current Speed – Displays current riding speed.

06. Remaining mileage: the display can estimate the remaining mileage based on the battery capacity and riding condition.

07. Back Light – Displays back light.

08. Light Sensor- when the display is ON, the light sensor will detect the ambient light and the lamps will be turned on automatically.

09. Eco Mode – Use for normal and flat road surfaces.

10. Normal Mode – Use for extra support with hills and/or strong headwinds.

11. Boost Mode – Use for strong support with very steep slopes.

12. Turbo Button S: Use for extra support with the three riding modes.

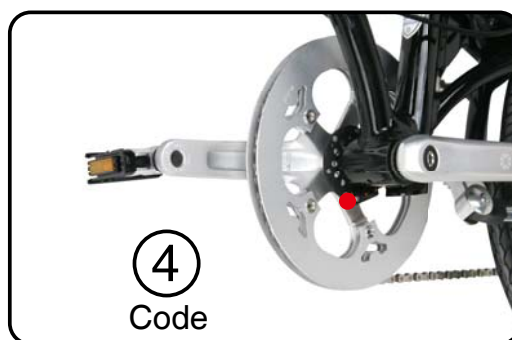
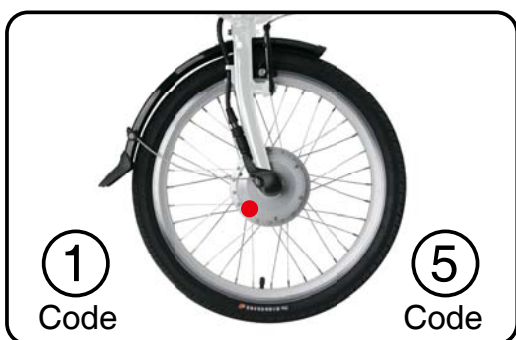
13. Sleep Mode

- The display will switch to Sleep Mode automatically when the bike is not used over 3 minutes.
- The display will then change to Off Mode, and the back light and battery symbol will disappear.

14. Error Code – The Error Code icon and Service icon will appear on the LCD when malfunctions are detected. Please refer to the following error code numbers and descriptions and check with your dealer for more information.

✱ Error Code icon

Error Code No.	DESCRIPTION
<div>1</div> <div>Code</div>	Motor speed sensor is not functional. The hub motor will vibrate and make noise.
<div>2</div> <div>Code</div>	Not applicable. In the unlikely case that this error code occurs, see your dealer.
<div>3</div> <div>Code</div>	Not applicable. In the unlikely case that this error code occurs, see your dealer.
<div>4</div> <div>Code</div>	RPM sensor on the bottom bracket is not functional. The bike will have power only for 1 - 2 minutes and then stop.
<div>5</div> <div>Code</div>	RPM sensor in the motor is malfunctioning. The power is on but the display doesn't indicate the current speed.
<div>6</div> <div>Code</div>	The power-off brake lever is not functional.



✱ TranzX PST sensor calibration

Once you have finished assembly of the bicycle, please kick up the kickstand and make sure the two wheels stand in a straight line before resetting the display. Turn on the power button and press the Back Light Button for 6 seconds, until the display shows “CAL X” for a few seconds. This calibrates the TranzX PST sensor. After this step, you can start to ride your bicycle.

Note:

If you change the display or remove or adjust the rear wheel, make sure you recalibrate the sensor of the TranzX PST.

✱ Final Check

After completion of assembly, please perform a final check and make sure that:

1. Every bolt and screw is tightened properly.
2. Tires are inflated to the recommended tire pressure.
3. Brakes are functioning properly.



Note:

1. Fold your Dahon E-bike according to the manual.
2. When folding and unfolding please take care to check that the internal cables are not caught. Should this occur, simply push the two cables back inside the frame.



✱ Battery Case Operation

1. Turn the key anti-clockwise and open the plastic casing.
2. Take out the battery for charging.

✱ How to Charge the Battery

Only use the battery charger that was supplied with the TranzX PST. Use of any other battery charger voids your warranty and may result in severe damage to the battery and electrical system of the bicycle, and may cause a fire hazard.

Make sure the voltage specification of the charger matches your local voltage.

Remove the cover of the connector and connect the battery charger. Fully charge the battery for at least 6 hours at the first time of purchase.

Charger LCD Indication: The Red light indicates that the battery is charging. The Green light indicates that the battery is fully charged.

Charger LCD Indicator



✱ Charging Time

The Li-polymer battery will take approximately 5 hours to fully charge.

⚙ **Charger & Battery Protection**

The battery and charger unit have a built-in heat sensor. If the heat rises too much, it will automatically shut down the system before any damage can occur. The charger unit will automatically cut off the power supply after 6 hours of charging.

Note:

Turn off power before taking out the battery.

⚙ **Battery Maintenance**

Have you recharged your battery pack lately?

If 3 months have passed without recharging, it's time to do it again.

Charging your battery will help ensure maximum battery life and performance and will help to avoid battery damage.

⚙ **Storage Recommendations**

Batteries must be charged prior to use. Do not incinerate or mutilate batteries. They may explode or release toxic material. Do not disassemble the battery. Return the bike to your authorized service dealer for service or repair.

Store the battery in a cool dry place. Please refer to your dealer regarding transport of the battery. Cycle (charge and discharge) the battery every 3-6 months to maintain battery performance when being stored for an extended period of time.

In the case of any irregular noise, variant temperature, or leakage from the battery, please stop using it immediately.

Always store and cool the battery in a well-ventilated place, out of direct sunlight.

✿ Terms of Warranty

The Dahon E-Bike warranty period is 1Years (12 months) according to the date of purchase.

For all electrical parts including charger, display (console), controller, BB sensor, electrical cables, carrier and motor, (Note: motor noise is not covered) the warranty period is 2 Years (24 months).

Note:

Certain fitted parts of the bicycle can wear out at different rates depending on use, road condition, weather and so on. Typical items include tires, chains, sprockets, chain wheels, brake pads, grips etc.

✿ Can the motor be overheated?

Yes. The motor can overheat on very steep hills and under heavy loads, but the built-in heat sensor will automatically shut down the system before any damage can occur.



SAFETY WARNINGS:

THE PURPOSE OF SAFETY SYMBOLS IS TO ATTRACT YOUR ATTENTION TO POSSIBLE DANGERS. THE SAFETY SYMBOLS, AND THE EXPLANATIONS WITH THEM, DESERVE YOUR CAREFUL ATTENTION AND UNDERSTANDING. THE SAFETY WARNINGS BY THEMSELVES DO NOT ELIMINATE ANY DANGER. THE INSTRUCTIONS OR WARNINGS THEY GIVE ARE NOT SUBSTITUTES FOR PROPER ACCIDENT PREVENTION MEASURES.



WARNING:

Failure to obey a safety warning can result in injury to yourself or others. Always follow the safety precautions to reduce the risk of fire, electric shock and personal injury.

PRE-OPERATIONAL SAFETY WARNINGS

01. Read and understand this instruction manual carefully before using this product. Be thoroughly familiar with the proper use of your Dahon E-Bike.
02. Thoroughly inspect your PST for loose or damaged parts before each use. If there are any loose or damaged parts, perform the needed adjustments or repairs before starting your Dahon E-Bike.

Note:

The Limited Warranty will be void if the product is used in a manner other than for recreation or transportation or modified in any way.

03. Some countries require that all bicycle riders wear a safety helmet. It is recommended that this precaution be followed at all times for maximum safety and protection.
04. The manufacturer is not liable for incidental or consequential loss nor damage due directly or indirectly from the use of this product.
05. This Dahon E-Bike carrier is not compatible with a rear baby seat.
06. As with all mechanical devices, the bicycle is subjected to wear and high stresses. Different materials and components may react to wear or stress fatigue in different ways. If the designated life of a component has been exceeded, it may suddenly fail, possibly causing injuries to the rider. Any form of crack, scratches or change of coloring in highly stressed areas may indicate that the life expectancy of the component has been reached and it should be replaced.

IMPORTANT!

If you experience any problem with your Dahon E-Bike, please contact your local dealer directly.



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