



26" Electric Bike



Colours may vary

User Manual

[Revision 6.0 May 2020]

Please note the user must be pedalling in order for the motor to activate.

READ THIS MANUAL CAREFULLY BEFORE USE – FAILURE TO DO SO MAY RESULT IN INJURY, PROPERTY DAMAGE AND MAY VOID WARRANTY. • KEEP THIS MANUAL FOR FUTURE REFERENCE. • Products covered by this manual may vary in appearance, assembly, inclusions, specifications, description and packaging.

Safety

Safety messages are designed to alert you to possible dangers or hazards that could cause death, injury or equipment or property damage if not understood or followed. Safety messages have the following symbols:



You **WILL** be KILLED or SERIOUSLY INJURED if you do not follow instructions.

It is vital that you read and understand this user manual before using the product, including safety warnings, and any assembly and operating instructions. Keep the manual for future reference.

Safety precautions and recommendations detailed here must be fully understood and followed to reduce the risk of injury, fire, explosion, electrical hazard, and/or property damage.

Safety information presented here is generic in nature – some advice may not be applicable to every product. The term "equipment" refers to the product, be it electrical mains powered, battery powered or combustion engine powered.

- **Before Use** - If you are not familiar with the safe operation/handling of the equipment or are in any way unsure of any aspect of suitability or correct use for your application, you should complete training conducted by a person or organization qualified in safe use and operation of this equipment, including fuel/electrical handling and safety.
- Do NOT operate the equipment in flammable or explosive environments, such as in the presence of flammable liquids, gases or dust. The equipment may create sparks or heat that may ignite flammable substances.
- Keep clear of moving parts.
- Equipment may be a potential source of electric shock or injury if misused.
- Do NOT operate the equipment if it is damaged, malfunctioning or is in an excessively worn state.
- Do NOT allow others to use the equipment unless they have read this manual and are adequately trained.
- Keep packaging away from children - risk of suffocation! Operators must use the equipment correctly. When using the equipment, consider conditions and pay due care to persons and property.

General Work Area Safety

- Work areas should be clean and well lit.
- Do not operate the equipment if bystanders, animals etc are within operating range of the equipment or the general work area.
- If devices are provided for connecting dust extraction / collection facilities, ensure these are connected and used properly. Dust collection can reduce dust-related hazards.



You **CAN** be KILLED or SERIOUSLY INJURED if you do not follow instructions.

General Personal Safety

- Wear appropriate protective equipment when operating, servicing, or when in the operating area of the equipment to help protect from eye and ear injury, poisoning, burns, cutting and crush injuries. Protective equipment such as safety goggles, respirators, non-slip safety footwear, hard hat, hearing protection etc should be used for appropriate equipment / conditions. Other people nearby should also wear appropriate personal protective equipment. Do not wear loose clothing or jewellery, which can be caught in moving parts. Keep hair and clothing away from the equipment.
- Stay alert and use common sense when operating the equipment. Do not over-reach. Always maintain secure footing and balance.
- Do not use the equipment if tired or under the influence of drugs, alcohol or medication.
- This equipment is not intended for use by persons with reduced physical, sensory or mental capabilities.

General Fuel Safety

- Petrol/fuel/gasoline is extremely flammable – keep clear of naked flames or other ignition sources.
- Do not spill fuel. If you spill fuel, wipe it off the equipment immediately – if fuel gets on your clothing, change clothing.
- Do NOT smoke near fuel or when refuelling.
- Always shut off the engine before refuelling.
- Do NOT refuel a hot engine.
- Open the fuel cap carefully to allow any pressure build-up in the tank to release slowly.
- Always refuel in well ventilated areas.
- Always check for fuel leakage. If fuel leakage is found, do not start or run the engine until all leaks are fixed.

General Carbon-Monoxide Safety

- Using a combustion engine indoors **CAN KILL IN MINUTES**. Engine exhaust contains carbon-monoxide – a poison you cannot smell or see.
- Use combustion engines OUTSIDE only, and far away from windows, doors and vents.



You **CAN** be INJURED if you do not follow instructions or equipment damage may occur.

General Equipment Use and Care

- The equipment is designed for domestic use only.
- Handle the equipment safely and carefully.
- Before use, inspect the equipment for misalignment or binding of moving parts, loose components, damage or any other condition that may affect its operation. If damaged, have the equipment repaired by an authorised service centre or technician before use.
- Prevent unintentional starting of the equipment - ensure equipment and power switches are in the OFF position before connecting or moving equipment. Do not carry equipment with hands or fingers touching any controls. Remove any tools or other items that are not a part of the equipment from it before starting or switching on.
- Do not force the equipment. Use the correct equipment for your application. Equipment will perform better and be safer when used within its design and usage parameters.
- Use the equipment and accessories etc. in accordance with these instructions, considering working conditions and the work to be performed. Using the equipment for operations different from those intended could result in hazardous situations.
- Always keep equipment components (engines, hoses, handles, controls, frames, housings, guards etc) and accessories (cutting tools, nozzles, bits etc) properly maintained. Keep the equipment clean and, where applicable, properly lubricated.
- Store the equipment out of reach of children or untrained persons. To avoid burns or fire hazards, let the equipment cool completely before transporting or storing. Never place or store the equipment near flammable materials, combustible gases or liquids etc.
- The equipment is not weather-proof, and should not be stored in direct sunlight, at high ambient temperatures or locations that are damp or humid.
- Do not clean equipment with solvents, flammable liquids or harsh abrasives.
- For specific equipment safety use and care, see Equipment Safety.

General Electrical Safety	General Electrical Safety	General Service Information
<ul style="list-style-type: none"> Inspect electrical equipment, extension cords, power bars, and electrical fittings for damage or wear before each use. Repair or replace damaged equipment immediately. Ensure all power sources conform to equipment voltage requirements and are disconnected before connecting or disconnecting equipment. When wiring electrically powered equipment, follow all electrical and safety codes. Wherever possible, use a residual current device (RCD). High voltage / high current power lines may be present. Use extreme caution to avoid contact or interference with power lines. Electrical shock can be fatal. 	<ul style="list-style-type: none"> Electrically grounded equipment must have an approved cord and plug and be connected to a grounded electrical outlet. Do NOT bypass the ON/OFF switch and operate equipment by connecting and disconnecting the electrical cord. Do NOT use equipment that has exposed wiring, damaged switches, covers or guards. Do NOT use electrical equipment in wet conditions or in damp locations. Do NOT use electrical cords to lift, move or carry equipment. Do NOT coil or knot electrical cords, and ensure electrical cords are not trip hazards. 	<ul style="list-style-type: none"> The equipment must be serviced or repaired at authorised service centres by qualified personnel only. Replacement parts must be original equipment manufacturer (OEM) to ensure equipment safety is maintained. Do NOT attempt any maintenance or repair work not described in this manual. After use, the equipment and components may still be hot – allow the equipment to cool and disconnect spark plugs and/or electrical power sources and/or batteries from it before adjusting, changing accessories or performing repair or maintenance. Do NOT adjust while the equipment is running. Perform service related activities in suitable conditions, such as a workshop. Replace worn, damaged or missing warning/safety labels immediately.

Electric Bike Safety

- Riding can be a hazardous activity. Certain conditions may cause the equipment to fail without fault of the manufacturer. The product can and is intended to move, and it is therefore possible to lose control, fall-off and/or get into dangerous situations that no amount of care, instruction or expertise can eliminate. If such things occur, you can be seriously injured or die, even when using safety equipment and other precautions. **RIDE AT YOUR OWN RISK AND USE COMMON-SENSE. FAILURE TO USE COMMON-SENSE AND HEED ALL SAFETY WARNINGS AND RECOMMENDATIONS INCREASES RISK OF INJURY. USE THE PRODUCT ONLY WITH APPROPRIATE CAUTION AND SERIOUS ATTENTION TO SAFE OPERATION.**
- Before riding on the road, take time riding in an enclosed area to familiarise yourself with the controls and behaviours of an electrically assisted bicycle. Try all settings so you are familiar with the results.**
- Before every ride, check bicycle condition and ensure that no fasteners are loose, particularly axles, pedals, seat and handlebars. Ensure that the tyres are inflated to within specification (printed on the tyre sidewall), and that the brakes are operating correctly.**
- Maximum load capacity = 120kg.**
- Understand and obey any local laws or regulations which may affect locations where the product may be used. Ride defensively.
- This product is manufactured for performance and durability but is not impervious to damage. Stunts or other aggressive riding can over-stress and damage the product, and the rider assumes all risks associated with how the product is looked after.
- Keep fingers and other body parts away from moving components.
- Always wear suitable protective equipment, such as an approved safety helmet (with chin strap securely buckled). A helmet may be legally required by local law or regulation in your area. Wear suitable footwear for bicycle riding and clothing that helps make you visible to others.

Battery and Charging





















- Never modify the electrical system. Alterations could cause a fire resulting in serious injury and could also damage the electrical system.
- Charge with the supplied or recommended charger only. Use of the wrong charger could cause a fire or explosion resulting in serious injury.
- Ensure the voltage and frequency of the charger is compatible with mains electrical supply.
- Use the battery charger in dry locations only.
- Regularly check the charger for damage to the electrical cord, plug, enclosure and other parts. If any damage or malfunction occurs, do NOT use the charger until repaired or replaced.
- Use caution when charging.
- Do not operate the charger or charge batteries near flammable materials.
- Do not clean or perform any maintenance on the product when it is being charged.

Other Safety Reminders

- This manual is provided to help you to get the best performance, comfort, enjoyment and safety from your bicycle. The manual describes specific care and maintenance procedures that help protect your warranty and ensure trouble-free use. Please pay particular attention to the section on battery charging and maintenance.
- Read the manual before assembling and riding your bicycle.
- Note that the manual is not intended to be an extensive reference source for servicing, maintenance and/or repairs. For additional assistance, contact an authorised Valk service centre.
- In the interests of your safety and the safety of others, it is highly recommended to have your bicycle assembled and serviced / adjusted by a skilled bicycle mechanic.

Safety Symbols

The product may have safety warning labels attached to it, explained below. Understand the symbols on your product and their meanings. If any stickers become unreadable, unattached etc., replace them.

 <p>Flammable Material Hazard Flammable liquids, gases or substances etc may present. Avoid ignition sources and open flames. Danger of fire.</p>	 <p>Read User Manual Read and fully understand product safety warnings, operation, procedures etc before using the product.</p>	 <p>Use Hand Protection Wear appropriate hand protection and take due care as the product or use of the product may present hand hazards.</p>	 <p>Carbon-Monoxide Hazard Do not use the product in confined areas or without adequate ventilation. Carbon-monoxide poisoning can be fatal.</p>
 <p>Electrocution / Electrical Shock Hazard High voltage or high current electricity may be present or required by the product. Take due care when handling electrical products, cables, plugs and leads. Electrical shock can be fatal.</p>	 <p>Toxic Fumes / Dust Hazard Using the product or by-products from use may produce fumes, smoke or particles that could be harmful if inhaled. Wear appropriate breathing protection and have adequate ventilation.</p>	 <p>Explosive Material Hazard Combustible liquids, gases or substances etc may be present. Avoid ignition sources and open flames. Danger of explosion.</p>	 <p>Cutting / Amputation Hazard The product may have blades, edges or mechanical devices that can cause severe cut injury to fingers, limbs etc. Take due care when handling and using the product.</p>
 <p>Crush Hazard The product may have blades, edges or mechanical devices that can cause severe crush injury to fingers, limbs etc. Take due care when handling and using the product.</p>	 <p>Single Operator Only The product must be operated by a single person only. More than one person operating the product may introduce additional hazards.</p>	 <p>Use Face Protection Wear appropriate full-face protection and take due care as the product or use of the product may present face and eye hazards.</p>	 <p>Use Foot Protection Wear appropriate foot protection and take due care as the product or use of the product may present foot hazards.</p>
 <p>Use Eye / Ear / Head Protection Wear appropriate eye and / or ear and / or head protection and take due care as the product or use of the product may present eye, hearing and head hazards.</p>	 <p>Running Hazard Do not run on or near the product as doing so may present a fall hazard.</p>	 <p>Diving Hazard Do not dive into the product as doing so may present a neck / head injury hazard.</p>	 <p>Adult Supervision Required Always supervise children and other users of a product to prevent drowning or injury.</p>
 <p>Skin Penetration / Puncture Hazard The product may produce pressure, emit liquids or objects that can cause severe injury to fingers, limbs, blood etc. Take due care when handling and using the product.</p>	 <p>Hot Surface Hazard Be aware that the product may produce high temperatures and hot surfaces that can cause burn injuries.</p>	 <p>Flying Debris Hazard Be aware that the product or use of the product may present hazards produced by flying debris. Wear appropriate clothing and protective devices.</p>	 <p>Moving Parts Hazard Be aware that the product contains or uses mechanical devices that move or rotate. Always wait for moving parts to stop fully before handling the product, adjusting, maintenance etc.</p>














 <p>Carbon-Monoxide Hazard Do not use the product in confined areas or without adequate ventilation. Carbon-monoxide poisoning can be fatal.</p>	 <p>Pull Hazard Be aware that the product contains or uses mechanical devices that can pull in objects and can cause severe injury to fingers, limbs etc. Take due care when handling and using the product.</p>	 <p>Slope / Fall Injury Hazard Be aware that using the product on sloping surfaces or in slippery conditions may present additional dangers from falls and contact with blades, moving parts, hot surfaces etc.</p>	 <p>"Slam Dunk" Warning Do NOT attempt "slam dunk" manoeuvres as this may result in severe injury due to falling, product breakage or collapse etc.</p>
 <p>Electrocution / Electrical Shock Hazard - Outdoor High voltage or high current electricity may be present or required by the product. Do NOT use in rain, damp or wet conditions. Electrical shock can be fatal.</p>	 <p>Electrocution / Electrical Shock Hazard - Disconnect High voltage or high current electricity may be present or required by the product. Always disconnect the product from the electrical supply before handling the product, adjusting, maintenance etc.</p>	 <p>Power Line Electrocution Hazard High voltage / high current power lines may be present. Use extreme caution to avoid contact or interference with power lines. Electrical shock can be fatal.</p>	 <p>"Kick-Back" Hazard High level of "kick-back" hazard that can cause the machine to suddenly rotate towards operator. Kick-back injury can be fatal.</p>
 <p>Winch Operator Position Hazard Do NOT stand between winch and load. Do NOT use winch to move people.</p>	 <p>Winch Lift Hazard Do NOT LIFT load vertically. Use machine to PULL only.</p>	 <p>Cable Hazard Ensure that load bearing cable is not kinked or knotted.</p>	 <p>Winch Cable Hazard Ensure that there is a minimum number of cable coils on winching mechanism.</p>
 <p>Winch Hook Hazard Carry hook to load – do NOT throw or run.</p>	 <p>Flash / Blinding Hazard Wear appropriate eye protection for welding. Direct exposure to weld arcs may cause permanent eye injury.</p>	 <p>Laser Hazard Laser may be in use – do NOT look directly at laser or allow others to.</p>	

Table of Contents

Safety	2
Safety Symbols	4
Parts Identification and Assembly	7
Tools Required for Assembly	7
Assembly	7
Handlebars	8
Seat	8
Front Wheel	9
Pedals	10
Operation	12
Pedal Assistance	13
Using Pedal Assistance	14
Understanding the Display	14
Guidelines for Using Pedal Assistance	14
Using Gears	15
Guidelines for Using Gears	15
Using Brakes	16
Guidelines for Using Brakes	16
Batteries and Battery Charging	17
Removing the Battery Pack	17
Maintenance	18
Battery Storage	19
Brakes	19
Cable Adjustment	19
Brake Rubber Alignment and Adjustment	21
Brake Rubber Replacement	21
Brake Shoe Replacement	22
Tyre Pressures	23
Chain Care	24
Torque Settings	24
Frequently Asked Questions	25
Troubleshooting	26
Specifications	28

Parts Identification and Assembly



No.	Name	No.	Name
1	Bicycle Assembly (Frame, Forks, Handlebar, Crank, Chain, Motor, Rear Wheel, etc.)	7	Tools / Fasteners / Accessories:
2	Front Wheel		Keys
3	Seat Post / Seat		M5x20 Hex Screw (3)
4	Pedal (Left and Right)		M5x15 Screw (4)
5	Battery Charger and Connection Cables		M5 Flange Nut (3)
6	Battery Pack		M5 Lock Nut (2)
			13 / 15mm Spanner
			5mm Allen Key
			Axle Caps (Front Wheel)
			Pump / Drink Bottle (may be included)
			Online Manual Flyer

Tools Required for Assembly

The bicycle may come supplied with some tools. Tools required for general assembly and maintenance include, but are not limited to, the following:

- Bicycle torque wrench.
- 8mm / 10mm / 13mm / 15mm / 19mm spanners.
- 2.5mm / 4mm / 5mm Allen keys.
- Pliers.
- Phillips head screwdriver.

Video Tutorial:
[Electric Bike Assembly](#)



Assembly

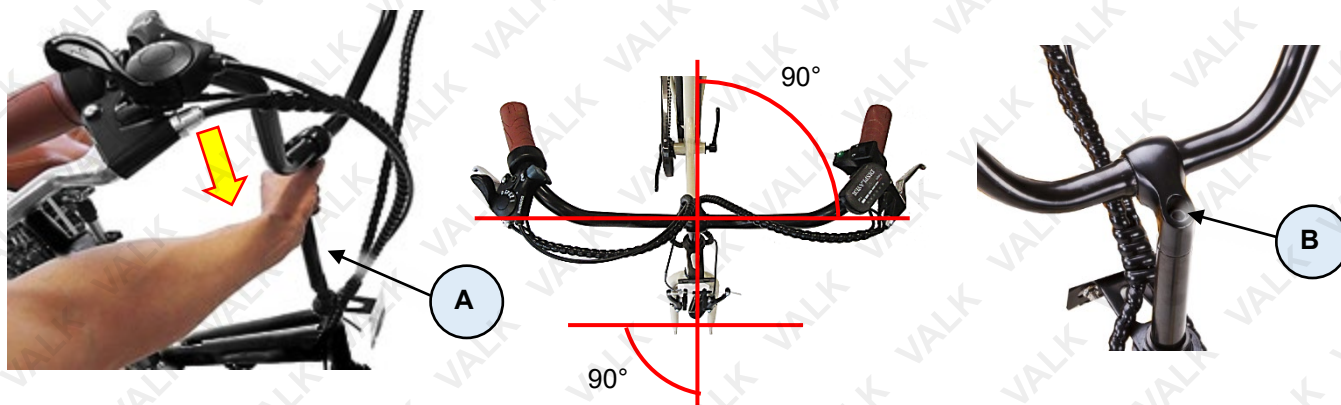


Before riding, ensure that all required fasteners are tightened to the [correct torque](#). • Ensure that the tyres are inflated to within specification (printed on the tyre sidewall), and that the brakes are operating correctly. • Assembly may require 2 people. • Do NOT allow children to perform the assembly. • Additional tools to those supplied (if any) may be required for assembly, such as a torque wrench, pliers etc.

The bicycle comes with some minor assembly required and may include some necessary tools.

Handlebars

1. Carefully place the bicycle assembly on a flat surface so that it rests on the front fork and rear wheel.
2. Slide the handlebar stem (A) into the fork tube until fully inserted.
3. Rotate the handlebar assembly, if required, so it is aligned "square" to the front fork. That is, the handlebar will be at 90° to the bicycle frame when the front wheel is straight.
4. Using a 6mm Allen key and torque wrench, tighten the handlebar stem bolt (B) to the [specified torque](#).



The orientation of the front fork is correct when the brake calliper is facing forward. The orientation of the handlebar is correct when the control cables and brake levers are facing forward. **It is ESSENTIAL that the fork and handlebar are assembled correctly.** The adjacent image (bicycle shown fully assembled) shows correct fork / handlebar assembly.

Seat



When setting seat height, it is important to ensure that the resulting ride position is not only comfortable, but also safe. You should be able to remain stable and properly handle the bicycle when at a standstill, touch the ground etc. You should also be able to comfortably reach the pedals when riding and comfortably and safely operate the handlebars and all controls. A good reference height for the seat is at hip height. Do NOT have the seat raised enough so you can see the maximum height marker on the seat post. • Ensure that when the seat is clamped, you cannot rock it back and forth or rotate it.

1. Insert the seat post/seat assembly (E) into the bicycle frame and lower it to a comfortable position – do NOT have the seat raised enough so you can see the maximum height marker (F) on the seat post.
2. Rotate the clamp lever (G) from the unlock position (AA) to the lock position (BB). If the seat post is not clamped firmly, increase pressure by unlocking the clamp, then rotating the adjustment knob (H) right (clockwise) a ¼ turn, then re-test and adjust as necessary.



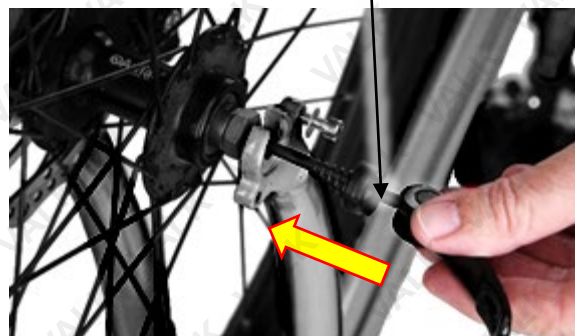
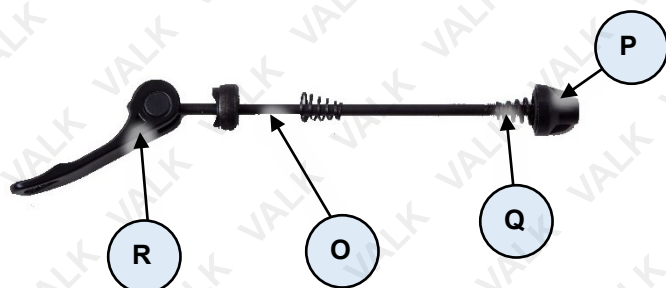
The seat angle can also be adjusted, again for best comfort. To adjust angle, using a 13mm spanner, loosen (rotate left) the seat clamp nuts (**CC**) on either side of the seat until the front of the seat can be moved up/down. Set the angle as required, then tighten the nuts securely.

Note that small changes in seat position can have a substantial effect on comfort. It is recommended to make seat adjustments in small increments and test the position, then re-adjust as necessary.



Front Wheel

1. Turn the bicycle over so it is resting on the handlebar and seat. Remove the black plastic spacer from the wheel fork.
2. Install the front wheel by lowering it into the slots at the bottom of the fork legs, making sure that the brake disc (**M**) sits into slot on the brake pad assembly (**N**).
3. Remove the plastic nut (**P**) and washer (**Q**) from the axle skewer (**O**) and then slide the skewer through the centre of the wheel.



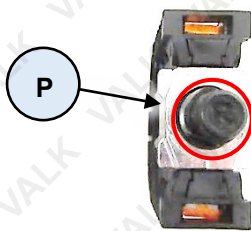
4. Fasten the nut and washer back onto the skewer. As you tighten, check the tension on the quick release handle (**R**), it should require firm pressure to close, locking the wheel in place.

Pedals



It is critical that you follow the pedal to crank arm attachment procedure carefully to ensure correct assembly. • During assembly, do NOT use excessive force to screw the pedals into the crank arms – this may indicate misalignment of the pedals or mis-matched threads. If the pedal does not "feel right" when being screwed in, STOP immediately and check that it is the correct pedal and that it is aligned properly with the crank arm. **Failure to follow the instructions here or take due care may damage the equipment and void any product warranty.**

1. Starting with the right-hand crank arm (O), identify the right-hand pedal assembly (P), which is identified by having the pedal bolt stamped "R".
2. Very carefully begin screwing the pedal bolt into the crank arm (rotate right / clockwise). If the bolt does not "feel right" when being screwed in, STOP immediately and check that it is the correct bolt and that it is aligned properly with the crank arm. Screw the pedal bolt in fully, then tighten to the [specified torque](#) (P) using a 15mm spanner and torque wrench.



3. Repeat the above procedure for the left-hand crank arm, noting that the pedal bolt and crank arm thread is left-hand (rotate left / anti-clockwise to tighten) and that the pedal bolt is stamped "L".

Note: If there are no Left and Right markings on the pedals, sit the pedals side by side and inspect the thread on each. As shown in the image below, the thread on the left pedal starts high on the left side, and the thread on the right pedal starts high on the right side.



Left



Right

26" Electric Bike



Assembly is complete. The bicycle should resemble the following image.



Operation



Before riding, ensure that all required fasteners are tightened to the [correct torque](#). • [Charge the battery prior to use](#). • Ensure that the pedal assistance system is switched OFF when the bicycle is not in use. • Always wear a helmet and appropriate safety equipment and always keep both hands on the handlebars and both feet on the pedals whilst riding. Read, understand and follow all [safety recommendations](#) before riding. • Avoid riding in damp conditions, rain etc. as this may affect operation or possibly damage the bicycle electronics.



No.	Name	No.	Name
1	Frame	14	Kickstand
2	Front Wheel	15	Display and Horn
3	Rear Wheel and Drive Motor	16	Rear Derailleur
4	Seat Post / Seat	17	Front Fork
5	Pedal (Right)	18	Brake Calliper (Front)
6	Pedal (Left)	19	Gear Cluster
7	Chain	20	Chain Wheel
8	Pedal Assistance / Gear Change Controls	21	Drum brake (Rear)
9	Crank Assembly (Bottom Bracket)	22	Front Rack
10	Handlebar	23	Headlight
11	Battery Pack		
12	Front Brake Lever		
13	Rear Brake Lever		

Pedal Assistance



Charge the battery prior to use. • Pedal assistance is not mandatory for riding – normal bicycle riding ("pedal power") alone can be used. It is recommended to use pedal assistance when necessary, and not rely on it solely. When using pedal assistance, also pedal for best efficiency. • The bicycle must be moving, or have enough pressure placed on the pedals (in a forward direction) to activate pedal assistance. • If you apply the brakes when pedal assistance is active, the drive provided by the motor reduces in proportion to how much braking pressure you apply. Once the bicycle reaches a sufficiently slow speed or stops completely, pedal assistance automatically deactivates.

The bicycle pedal assistance system comprises an electric motor (A) built into the rear wheel hub, a battery pack (B) with key security (C) and charging port (on the other side of the battery pack), pedal assist throttle (D), and display (E).



Using Pedal Assistance

1. Place the security key in the battery pack key slot and rotate to the "O" (ON) position. Once the key is in the ON position, it cannot be removed from the key slot.
2. Begin moving using pedal power, press the pedal assist throttle downward to activate the motor.
3. After riding, rotate the key to the "X" (OFF) position and remove the key.

Understanding the Display

The display has two functions:

- The Mode section consists of three lights which indicate the level of pedal assistance provided.
 - One light: low level assistance / speed
 - Two lights: medium level assistance / speed
 - Three lights: high level assistance / speed
- The power section indicates the battery charge level, where one bar is minimum, and five bars is full.



Guidelines for Using Pedal Assistance

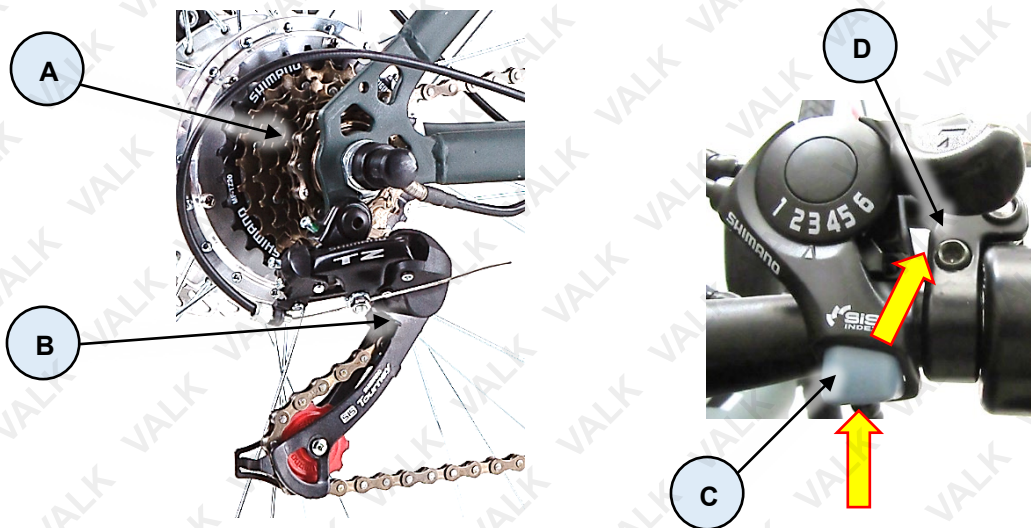
To get the best performance and service life from the pedal assistance system, understand and apply the following techniques:

- When pedal assistance is active, the drive motor engages to provide assistance only while the bicycle is in motion and you are pedalling. The amount of assistance provided depends on your pedalling force and the level of pedal ride assistance currently selected (where applicable) and / or being applied.
- Pedal assistance progressively reduces as bicycle speed increases and stops completely when the current speed exceeds 25kmh. Pedal assistance re-engages when speed drops below 25kmh (provided you are pedalling).
- Start moving from stationary by pedalling as per a normal bicycle. Using pedal assistance only when "pushing off" places undue loads on the system and uses a lot of energy.
- It is recommended to pedal as per a normal bicycle when riding up inclines. Using pedal assistance only when climbing uses a lot of battery energy.
- Pedal assistance automatically reduces or disengages whenever the brakes are activated (and / or when you stop pedalling).

Using Gears

Some model bicycles are equipped with gears. Gears are used to change the ratio between rotations of the rear wheel and the crank set. This enables you to pedal less and travel faster on flat or downhill sections, or pedal faster and travel slower to climb hills. Gearing is independent to pedal assistance, so pedal assistance operates the same regardless of selected gear. Remember, however, that pedal assistance is "governed" by overall speed.

The selectable gears (A) are located on the rear wheel, known as a "gear cluster" or "cassette". The larger the gear, the smaller number of rotations per rotation of the crank. The largest gear is the "lowest" and is referred to as "1". As each gear becomes smaller, it is a "higher" gear than the previous and is numbered sequentially. The number of gears may vary between different models. Beneath the gear cluster is the derailleur mechanism (B), which moves the chain, so it runs on different gears. The derailleur is operated by the rider using controls mounted on the handlebars. The gear change is "indexed" so each gear selection positively engages – this is factory set and should require no adjustment. There may be slight variations between bicycle models in method to change gear "up" (from a lower gear to a higher gear), or to change gear "down" (from a higher gear to a lower gear). The image shows a "6-speed" type that uses a button (C) for changing up gears (push button to activate derailleur), and a lever (D) for changing down gears (rotate lever forward to activate derailleur).



Guidelines for Using Gears

To get the best performance and service life from the gear change system, understand and apply the following techniques:

- You **MUST** be pedalling during gear changes.
- Do not attempt to change multiple gears in a single action. Allow each gear change to complete fully before the next change.
- Always use an appropriate gear for your speed, the terrain and incline. This helps you ride most efficiently.
- Keep the chain and gears properly lubricated and clean.
- If you notice noise after changing gear or an ability to select a gear or the chain not running smoothly, have the gear system inspected and adjusted by a bicycle mechanic or suitably qualified person.

Using Brakes

All bicycle models are equipped with a front and rear wheel braking system. Brakes are used to slow the bicycle down. The braking systems may use different mechanics; however, the functionality is the same, and that is to change the energy of the moving bicycle into heat energy ("friction"):

- For disc brakes, this means pads made from a special friction material pinching against a disc mounted to the centre of the bicycle wheel.
- For rim type "calliper" or "noodle" brakes, this means rubber blocks pinching the outer rim of the bicycle wheel (not the tyre).
- For drum brakes, this means pushing sections (known as "shoes") of special friction material against the inside of cylinder fixed to the centre of the bicycle wheel.



Typical Disc Brake



Typical Rim Brake



Typical Drum Brake

The brakes are operated by the rider through levers mounted to the handlebars. The left-hand lever operates the rear brake, the right-hand lever operates the front brake. The ability of the rider to adequately slow and/or stop the bicycle depends largely on the skill of the rider, the surface being ridden on and other factors such as rain, tyres, adjustment and condition of the brake parts etc.



Guidelines for Using Brakes

To get the best performance and service life from the brake system, understand and apply the following techniques:

- **In wet conditions, which reduces friction, always provide additional distance for braking and adjust how quickly you apply the brakes.**
- When applying the brakes, particularly the front brake, use a lower pressure to start with until you feel the brakes starting to "bite", then increase pressure as required. Do NOT over-apply the brakes and cause the wheel to stop rotating – this may result in loss of control.
- Maintain the brake friction components (pads, shoes, rubbers) in good condition and replace when they reach the wear limit.
- Maintain brake adjustment so that the brakes perform effectively, the levers are comfortably positioned, and there is not excessive play in adjustable components.
- If the brakes are not performing effectively, making abnormal noise or any part is not serviceable or cannot be adjusted correctly, have the brakes inspected and adjusted by a bicycle mechanic or suitably qualified person.
- If the brake cables become frayed or otherwise damaged, have them replaced by a bicycle mechanic or suitably qualified person.



Batteries and Battery Charging



Never modify the electrical system. Alterations may cause a fire, resulting in serious injury and could also damage the electrical system. • Charge with the supplied charger only. Use of the wrong charger may cause a fire or explosion, resulting in serious injury. • Ensure the voltage and frequency of the charger is compatible with mains electrical supply. • Use the battery charger in dry locations only. • The battery must be charged before first use. • For maximum battery performance and service life, charge the battery after each use, and charge at temperatures between 0 and 40°C (32 and 104°F). • Battery charging generally takes 4 to 6 hours from discharged to fully charged. Do NOT charge the battery continuously for more than 24 hours. • If the bicycle has not been used for over 4 weeks, charge the battery before use. • Always switch the bicycle OFF after each use.

The battery pack can be recharged repeatedly. However, rechargeable batteries eventually need to be replaced. A significantly reduced operating period after charging indicates that the battery is no longer serviceable and should be replaced. Discard old batteries in an environmentally responsible manner.

The battery charger has a charge status LED indicator:

- Red - Battery charging.
- Green - Battery fully charged.

To charge the battery:

1. Plug the charger connector into the charging port (A).
2. Connect the charger to a mains electrical supply and switch ON. The indicator LED on the charger illuminates red to show the battery is charging.
3. When the battery is charged (approximately 6 hours), the charger indicator LED illuminates green. Disconnect the charger from the electrical supply, then disconnect it from the bicycle. Lower the battery pack handle to protect the bicycle charging port.



Removing the Battery Pack

1. To remove the battery, insert the key into the keyhole in the ON position. Apply pressure to push the key towards the battery pack so that the keyhole is depressed. While it's depressed, turn the key anti-clockwise towards the OFF position.
2. The battery pack is now unlocked and can be released from the bicycle.



Maintenance

Some maintenance activities described may be beyond the scope of some users. Do NOT attempt procedures that you are not comfortable with, or do not have the necessary tools, experience or knowledge for – take the unit to an authorised service centre or qualified technician for servicing. Items in the maintenance schedule below that are recommended to be performed by a qualified technician are highlighted yellow. • **Failure to follow the maintenance recommendations, using incorrect or non-compatible accessories or replacement parts, or general negligence may result in making the product warranty void.** Improper adjustment or service may result in damage to the bicycle or make it hazardous. • Maintenance requirements may be affected by any number of factors from your riding style to geographic location. • When new, parts of the bicycle may "break-in" over the course of the first approximate 100km of riding, possibly including the stretching of cables, spoke tension changes etc. It is recommended to have the bicycle inspected and serviced at an authorised service centre or by a qualified technician. • The bicycle components are subject to wear and stress. If a component is weakened through stress, age etc, it may fail without warning. It is important to regularly inspect the bicycle for any signs of component fatigue – look for cracks, fraying, discoloration etc, as this may indicate that a part is near the end of its useful life and should be replaced.

- Clean the bicycle with a soft, damp cloth – do NOT use high-pressure water cleaners or hoses, pressurised air, solvents, abrasives etc. For the console, battery and motor, do NOT use any liquids.
- When transporting in a vehicle, it is recommended to have the battery out of the bicycle during transport.
- Store the bicycle where it will be protected from rain, sun etc to help prevent corrosion, fading etc.
- For safety, longest possible service life and reliability, maintain the bicycle properly. Use the maintenance schedule below for guidance. It is very important that you check certain systems and components before each ride. The proper condition and function of these systems is critical to your safety.

Maintenance Schedule				
Component / Condition	Check Before Every Ride	*Check Periodically	Clean / Lubricate	Adjust / Tighten / Replace as Required
Tyre Pressure	■			■
Tyre Wear / Damage	■			■
Brake Adjustment	■			■
Handlebar Tightness	■	■		■
Controls and Displays	■			
Seat Post Tightness	■			■
Fasteners / Mounting Hardware				■
Brake Pads / Shoes		■		■
Brake Cable Wear		■		■
Chain		■	■	■
Reflectors		■		
Battery / Charger		■		■
Steering Head Bearings		■	■	■
Deraillleur		■	■	■
Wheel Spoke Tension		■		■
Wheel Trueness		■		■
Wheel Bearings		■	■	■
Bottom Bracket (Crank) Bearings		■	■	■

* Every 5 to 10 rides depending on ride length and conditions.

Battery Storage

When storing the batteries for a long period of time:

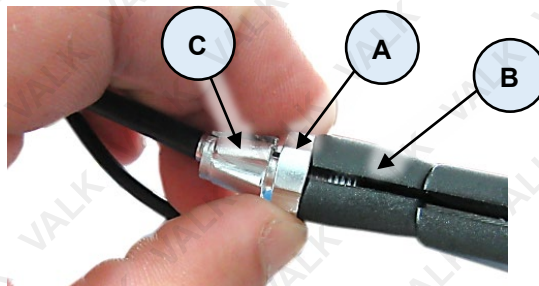
- Charge the batteries at least every 30 days to avoid capacity loss. Batteries slowly self-discharge when unused over a long period. If the battery cells are left at a critically low charge state, the lifespan and capacity will be permanently reduced.
- Always disconnect the charger from the mains electrical supply and battery before storing the battery.
- Avoid storing batteries in extreme temperatures, whether hot or cold. The recommended battery storage temperature is between 0 and 25°C (32 to 77°F). Avoid exposing batteries to temperatures at or above 40°C (104°F) for extended periods.
- Batteries are best kept in a cool, dry place. Do not allow batteries to accumulate condensation, as this may cause shorting or corrosion.

Brakes

Cable Adjustment

The brake levers are fitted with cable adjusters to compensate for cable stretch and/or adjust how much lever travel is required to activate the brake. A looser cable requires more lever travel to activate the brake, a tighter cable requires less lever travel to activate the brake. Do not over-tighten the brake cable as this may cause the brake to drag when not being pulled, which will affect the performance. Set brake adjustment so there is enough free-play at the lever for a comfortable reach and brake action, however, NOT so much that the lever can be pulled back to the handlebar. The brake can be adjusted at the lever and at the brake calliper:

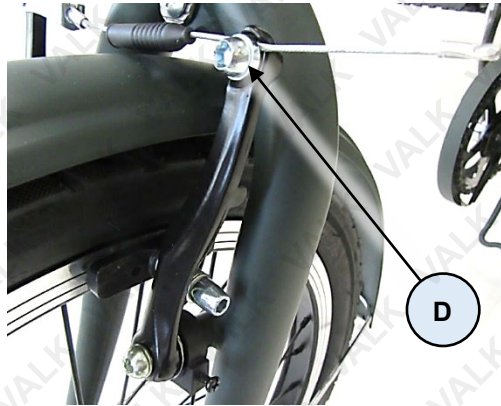
1. Rotate the lock nut (A) on the brake lever (B) to the left (anti-clockwise) to loosen it, then rotate the cable screw (C) left (anti-clockwise) to tighten the cable, or right (clockwise) to loosen the cable, as required.



2. When adjustment is complete, tighten the lock nut (rotate right). Check that the wheel can spin freely when the brake is not being applied, and that it cannot be rotated when the brake is applied.

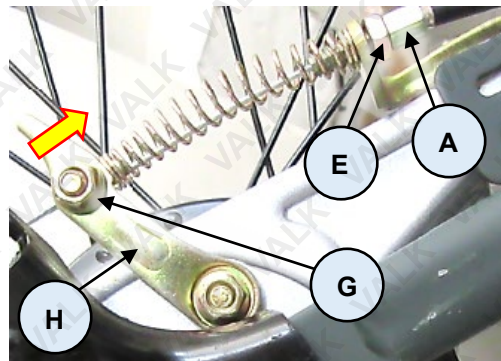
If the cable cannot be adequately adjusted at the lever, further adjustment can be made at the brake calliper.

- If the cable cannot be adjusted using the lever, re-adjust it so the brake cable is fully slack. Using a 5mm Allen key, loosen the cable bolt (D) sufficiently so that the cable can be pulled through it. Pull the cable through the cable bolt until close to being taught, then tighten the bolt to the [specified torque](#) using a torque wrench. Check adjustment, and re-adjust if necessary, as described above.



For rear drum brakes, the cable at the drum can be used for adjustment, as follows:

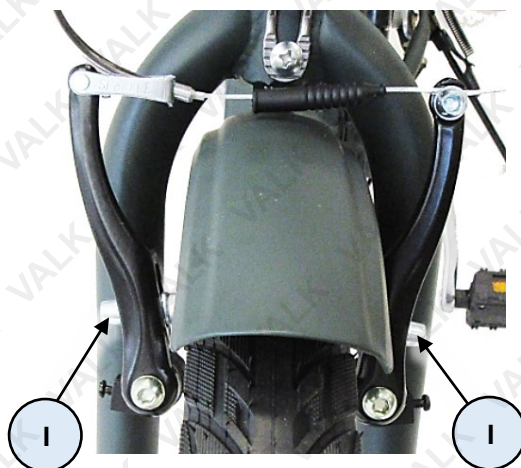
- If the cable cannot be adjusted using the lever, re-adjust it so the brake cable is fully slack. Using 8 and 10mm spanners, loosen the lock nut (E), then rotate the adjustor (F) "out" (left or anti-clockwise) to tighten the cable, or "in" (right or clockwise) to loosen the cable as necessary. Tighten the fasteners to the [specified torque](#) using a torque wrench. The cable bolt can also be used – loosen the cable bolt nut (G) sufficiently using a 10mm spanner so that the actuation lever (H) can be moved forward, and the cable can be pulled through the cable bolt. Pull the cable through the cable bolt until close to being taught, then tighten the bolt to the [specified torque](#) using a torque wrench. Check adjustment, and re-adjust if necessary, as described above.



Brake Rubber Alignment and Adjustment

As brake rubbers wear, the distance between the friction material and the rim increases. To reduce clearance, follow the [cable adjustment procedure](#) above. The callipers feature adjustment screws (I) that can be used to adjust the spring tension on each brake arm, so that the brake rubbers contact the rim at the same time when the brakes are applied and retract evenly from the rim when the brake lever is released. Brake rubber clearance should be minimised, however, not so that the rubbers touch the rim when the brakes are not being applied. Brake rubbers should be changed when the friction material is 5mm or less.

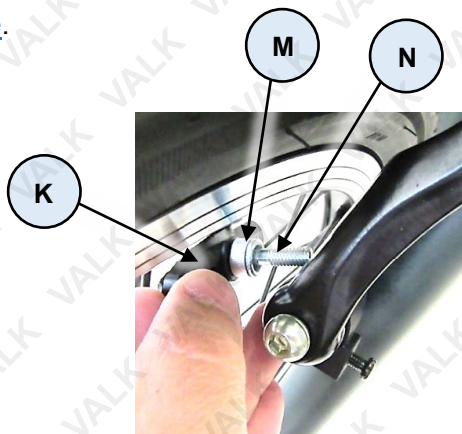
- Using a suitable Phillips head screwdriver, rotate each adjustment screw as required – right (clockwise) to move the brake arm away from the rim (effectively increasing brake rubber clearance); left (anti-clockwise) to move the brake arm toward the rim (effectively reducing brake rubber clearance).



Brake Rubber Replacement

Replace the front brake rubbers when the friction material reaches approximately 5mm in thickness. To replace rubbers:

- Using a 5mm Allen key, remove (rotate left / anti-clockwise) the brake rubber nut (J), spacers and washer.
- Remove the brake rubber (K) and spacers from the brake arm (L).
- Place the spacers onto the brake rubber stud, thicker spacer first (M) with concave surface facing out, then thinner spacer (N) with convex surface facing in (so it locates inside the thicker spacer).
- Insert the new brake rubber through the brake arm, then place the spacers and washer onto the brake rubber stud, thinner spacer first with convex surface facing out, then thicker spacer with concave surface facing in (so it locates over the thinner spacer), followed by the washer and brake rubber nut.
- Hold the brake rubber in position so it is aligned with the wheel rim (that is, not touching the tyre and not at an angle to the rim), then tighten (rotate right) the brake rubber nut to the [specified torque](#) using a 5mm Allen key and torque wrench.
- [Adjust the brake rubber alignment and clearance.](#)
- [Adjust the brake cable.](#)

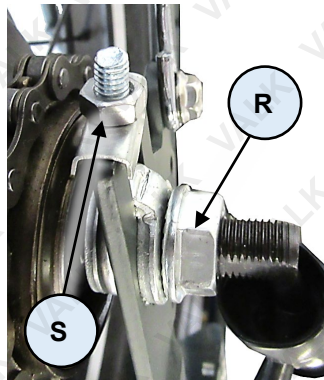
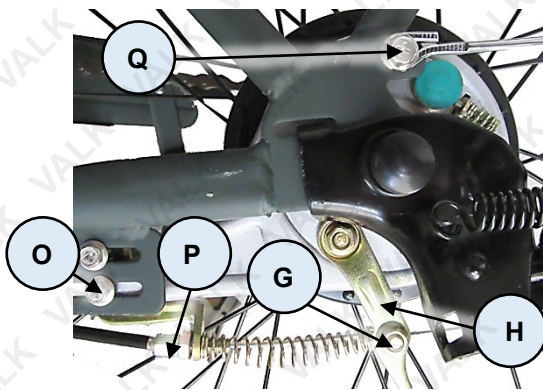


Brake Shoe Replacement

Drum brakes are more complicated than other brakes types. It is recommended to have drum brakes serviced by a bicycle mechanic or suitably qualified person. Before attempting this procedure, note that it involved partially removing the rear wheel, altering chain adjustment and removing the chain from the chain wheel.

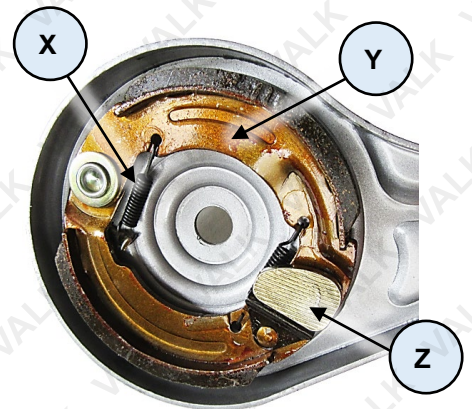
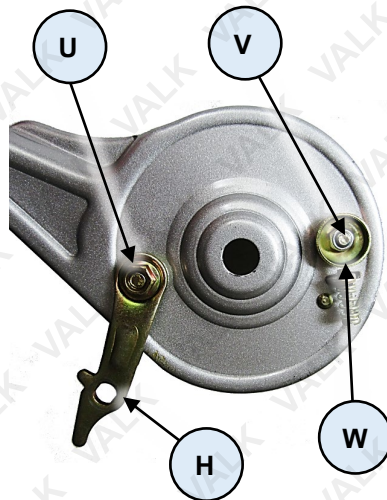
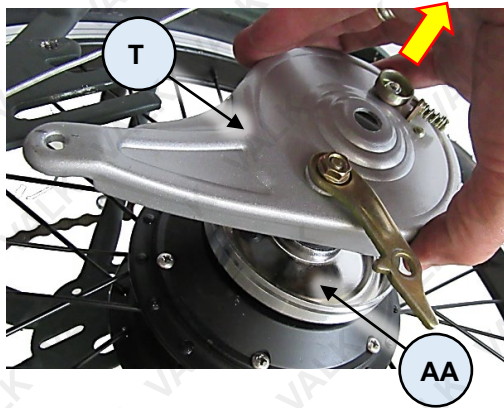
Replace the rear brake shoe when you can no longer adjust the brake adequately or it is making noise when being applied. To replace the shoe:

1. Using a 10mm spanner, remove (rotate left / anti-clockwise) the cable bolt nut (**G**), then extract the cable bolt from the brake actuation lever (**H**).
2. Using 6 and 8mm spanners, remove (rotate left / anti-clockwise) the 2 bolts and nuts (**O**) securing the cable bracket (**P**), and remove the bracket.
3. Using a 10mm spanner, remove the bolts (**Q**) securing the rear mudguard to the frame.
4. Remove any axle caps or wiring shields from the rear axle, then using a 18mm spanner, loosen (rotate left / anti-clockwise) the axle nut (**R**) on either side of the bicycle. It is recommended to remove the nut on the left-hand side of the bicycle so the kickstand can be removed.
5. Using a 10mm spanner, loosen the adjuster nuts (**S**). They need to be unscrewed sufficiently so the wheel can be moved forward enough to allow the chain to be lifted off the sprockets.
6. Push the wheel forward, then unhook the chain from the chain wheel (front sprocket). Rotate the chain wheel so the chain comes off completely. Move the chain off the rear sprocket, then carefully pull the rear wheel so the axle comes out of the slots in the frame. Be careful not to stretch or pull the motor wires on the right side of the bicycle.

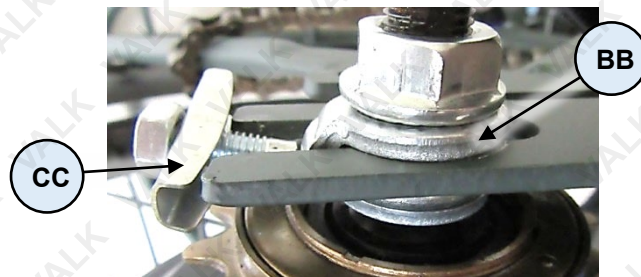


Pull the adjuster and brake housing (**T**) off the axle.

7. Using 8 and 10mm spanners, unscrew nuts (**U**) and (**V**) and remove the actuation lever (**H**) and adjusting cylinder (**W**).
8. On the inside of the brake housing, unhook the retraction spring (**X**) from the housing, then remove the shoe assembly (**Y**). The actuation cam (**Z**) will also come out.
9. Clean the brake housing components and the drum (**AA**) on the rear wheel. Do not use oil-based solvents or liquids. Use a suitable brake cleaning product (methylated spirits can also be used).



10. Install the replacement shoe assembly into the brake housing, then insert the actuation cam (**Z**) between the two shoes – you may have to push the shoes apart slightly so that cam can be fully inserted.
11. Hook the retraction spring (**X**) to the housing and brake shoe assembly.
12. Re-install the actuation lever (**H**) and adjusting cylinder (**W**) and secure them using the previously removed nuts (**U** and **V**). Ensure that the lever is in the correct position (as shown).
13. Slide the brake housing onto the axle, followed by the adjustor.
14. Carefully insert the rear wheel back into the frame – the axle has "flats", so it can be inserted one way only. Push it in as far as the adjustors will allow (this should be far enough into the frame so the chain can be put on the sprockets again).
15. Place the chain around the rear sprocket, then hook it onto the chain wheel, then rotate the crank so the chain is properly engaged with both sprockets.
16. Place the kickstand into position on the left side. On the right side, ensure the tabbed washer (**BB**) is in the slot in the bicycle frame, and the adjustors (**CC**) are in position, engaging with the frame.
17. [Adjust the chain.](#)
18. [Adjust the brake cable.](#)



Tyre Pressures

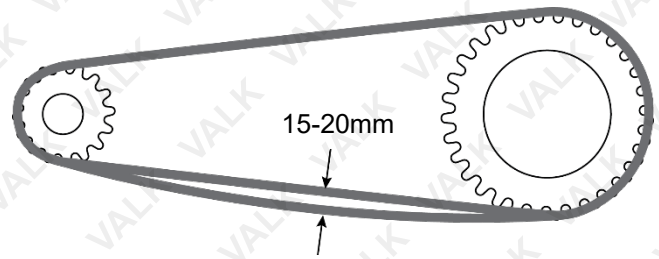
The tyres must always be inflated to the correct pressure (as specified on the tyre sidewall) before every ride. Riding the bicycle with either too low or too high pressures will affect bicycle performance, may affect effective electrical assistance range, and may render the bicycle as dangerous. Use an accurate pressure gauge when checking pressures.

Chain Care

The chain periodically requires lubrication, depending on frequency of use and conditions etc. If the chain is noisy or running roughly, lubricate it by applying a small amount of bicycle chain lubricant to it. Do not allow the lubricant to get on to the tyres.

For bicycles without derailleur type gears, the chain tension should be set so that there is approximately 15 to 20mm of free-play. If the chain or drive sprockets requires any maintenance further than lubrication and basic chain tensioning, contact an authorised service centre. To adjust chain tension:

1. Using a 19mm spanner, loosen the axle nuts (**A**) on either side of the bicycle, just enough so they are not clamping up hard against the frame. The axle may have caps on the ends – remove the caps.
2. Using a 10mm spanner, rotate the adjustor nut (**B**) on the chain side of the bicycle to adjust chain tension. Rotate the nut right (clockwise) to increase chain tension (reduce free-play); rotate left (anti-clockwise) to reduce chain tension (increase free-play).
3. Pull the wheel to the side so it is aligned straight with the frame – check that the wheel is straight by looking down the length of the chain – it should be perfectly straight between front and rear sprockets.
4. Using a torque wrench, tighten the axle nuts to the [specified torque](#). Re-install any axle caps.



Torque Settings

It is important to regularly check all fasteners for adequate tightness. The following are considered highly important and should be adjusted to the specified torque values using a suitable bicycle torque wrench, sockets and adaptors. Depending on bicycle model and design, some fasteners listed below may not be applicable:

- Front Axle Nut – 35Nm
- Rear Axle Nut – 35Nm
- Handlebar Clamp Bolt – 10Nm
- Handlebar Neck Lock Bolt - 15Nm
- Handlebar Stem Bolt – 24Nm
- Pedal Bolts – 35Nm
- Brake Calliper Mounting Bolt – 7Nm
- Brake Cable Anchor Bolt – 7Nm

Frequently Asked Questions

Is it normal for batteries to get warm when charging?

Yes, it is normal that the batteries will become warm during the charging process.

How long will my batteries last before needing replacement?

Average battery life depends on use and conditions. Even with proper care, rechargeable batteries do not last forever. Generally, lithium-ion batteries will last more than 800 charge-discharge cycles. A partial charge/discharge counts fractionally against those numbers; discharging the battery to 50% then recharging it completely uses up one half of a charge cycle.

"End of useful life" refers to the point at which a battery can no longer supply 60% or more of its original rated ampere-hour (Ah) capacity. At this point, degradation of the battery being able to be fully charged accelerates and the battery will need to be replaced.

What happens if the battery discharges while riding?

Pedal assistance will stop when battery charge reaches a minimum level (check level on the console, if applicable). Lights (if applicable) may still function for a period. Your bike can be ridden without pedal assistance.

Troubleshooting

Malfunction	Possible Cause	Possible Solution
<i>Pedal assistance not working</i>	<ol style="list-style-type: none"> Under-charged battery. Battery no longer serviceable. Battery charger faulty. Motor electrics or switches damaged / faulty. 	<ol style="list-style-type: none"> Charge battery. Follow battery care procedures. Have battery checked. Replace if faulty. Have charger checked. Replace if faulty. Seek diagnosis and repair from authorised service centre.
<i>Reduced range and/or speed</i>	<ol style="list-style-type: none"> Under-charged battery. Battery no longer serviceable. Low tyre pressure. Brakes dragging. Terrain, headwind, etc. 	<ol style="list-style-type: none"> Charge battery. Follow battery care procedures. Have battery checked. Replace if faulty. Inflate to recommended pressure. Adjust. Normal.
<i>Gear change (where applicable) rough / not changing</i>	<ol style="list-style-type: none"> Deraillleur cables sticking / stretched / damaged. Deraillleurs / shifter not correctly set. 	<ol style="list-style-type: none"> Lubricate / adjust / replace cables. Adjust.
<i>Chain slip / jumping off sprockets</i>	<ol style="list-style-type: none"> Worn sprockets. Stretched chain. Front sprocket loose / out of true. Sprocket teeth bent / broken. Deraillleur / shifter not correctly adjusted. 	<ol style="list-style-type: none"> Replace. Replace. Re-true / tighten. Replace. Adjust.
<i>Clicking noises when pedalling</i>	<ol style="list-style-type: none"> Stiff chain link. Loose pedals / bearings. Loose bottom bracket / bearings. Bent bottom bracket or pedal bolt. Loose pedal arm bolts. 	<ol style="list-style-type: none"> Lubricate chain. Tighten / adjust bearings. Tighten / adjust bearings. Replace. Tighten.
<i>Grinding noise when pedalling</i>	<ol style="list-style-type: none"> Pedal bearings too tight. Bottom bracket bearings too tight. Rear wheel not straight. Chain too tight. Deraillleur dirty. 	<ol style="list-style-type: none"> Adjust. Adjust. Align so chain is straight. Adjust. Clean and lubricate.
<i>Brakes not effective</i>	<ol style="list-style-type: none"> Pads worn. Pads / discs dirty. Brake cables binding / stretched / damaged. Brakes levers binding. Brakes require adjustment. 	<ol style="list-style-type: none"> Replace. Clean and degrease. Lubricate / adjust / replace cables. Clean pivots. Adjust.
<i>Brakes squeal</i>	<ol style="list-style-type: none"> Pads / discs dirty. Brakes not centred. Calliper fasteners loose. 	<ol style="list-style-type: none"> Clean and degrease. Centre brakes and adjust. Tighten.

Malfunction	Possible Cause	Possible Solution
<i>Brakes chatter / vibrate</i>	<ol style="list-style-type: none"> 1. Brake mounting bolts loose. 2. Brakes out of adjustment. 3. Steering head bearings loose. 	<ol style="list-style-type: none"> 1. Tighten. 2. Centre brakes and adjust. 3. Adjust bearings.
<i>Wheel vibration / wobble</i>	<ol style="list-style-type: none"> 1. Axle bent or broken. 2. Wheel out of true. 3. Wheel hub bearings loose / not serviceable. 4. Quick-release (if equipped) mechanism loose. 	<ol style="list-style-type: none"> 1. Replace. 2. True wheel. 3. Adjust / replace. 4. Adjust.
<i>Steering not accurate</i>	<ol style="list-style-type: none"> 1. Wheels not aligned to frame. 2. Steering head loose / binding. 3. Front forks or frame bent. 	<ol style="list-style-type: none"> 1. Align wheels. 2. Adjust. 3. Straighten.
<i>Motor "clicks" / has reduced power and/or shuts off</i>	<ol style="list-style-type: none"> 1. Under-charged battery. 2. Motor internal fault. 	<ol style="list-style-type: none"> 1. Charge battery. Follow battery care procedures. 2. Replace.
<i>No power when pedal assistance switched ON</i>	<ol style="list-style-type: none"> 1. Blown fuse. 2. Loose connectors / wiring damage. 3. Faulty switch. 4. Faulty controller. 	<ol style="list-style-type: none"> 1. Replace. 2. Check connectors / wiring. Replace as required. 3. Replace. 4. Replace.
<i>Pedal assistance OK, but no display</i>	<ol style="list-style-type: none"> 1. Loose connectors / wiring damage. 2. Faulty controller. 	<ol style="list-style-type: none"> 1. Check connectors / wiring. Replace as required. 2. Replace.
<i>Display OK, but no pedal assistance</i>	<ol style="list-style-type: none"> 1. Loose motor connectors / wiring damage. 2. Poor contact at battery terminals. 3. Faulty braking sensor. 	<ol style="list-style-type: none"> 1. Check connectors / wiring. Replace as required. 2. Inspect and clean terminals. 3. Replace.
<i>Bicycle runs at full speed without pedalling</i>	<ol style="list-style-type: none"> 1. Faulty crank sensor. 2. Faulty throttle. 3. Faulty controller. 	<ol style="list-style-type: none"> 1. Replace. 2. Replace. 3. Replace.
<i>Throttle (if equipped) not returning to neutral position</i>	<ol style="list-style-type: none"> 1. Grip jamming against throttle. 2. Faulty throttle. 	<ol style="list-style-type: none"> 1. Reposition grip so gap to throttle is 1 to 2mm. 2. Replace.
<i>Pedal assistance operating intermittently or not as expected</i>	<ol style="list-style-type: none"> 1. Loose connectors / wiring damage. 2. Faulty controller. 3. Faulty crank sensor. 4. Faulty throttle. 	<ol style="list-style-type: none"> 1. Check connectors / wiring. Replace as required. 2. Replace.
<i>Charger shows "full charge" in an unusually short amount of time</i>	<ol style="list-style-type: none"> 1. Faulty charger. 2. Faulty batteries. 	<ol style="list-style-type: none"> 1. Replace. 2. Replace.
<i>Charger indicator not illuminating when charger is plugged into outlet</i>	<ol style="list-style-type: none"> 1. Outlet has no power. 2. Faulty charger. 	<ol style="list-style-type: none"> 1. Check charger plugged in and electrical supply ON. 2. Replace.

Malfunction	Possible Cause	Possible Solution
<i>Charger indicator flashes red and never changes to green</i>	<ol style="list-style-type: none"> 1. Damaged wire from charger to battery. 2. Faulty batteries. 	<ol style="list-style-type: none"> 1. Replace charger. 2. Replace.

Specifications

Battery	36V 10Ah Li-ion battery
Battery Range	Up to 40km (with pedal assist)
Charge Time	6-8 hrs
Max Speed	25km/h
Frame Material	Aluminium Alloy
Motor	250W brushless
Gears	Shimano 7-speed-gears
Brake	Front and rear disc brakes



Some experts believe that the incorrect or prolonged use of almost any product may cause serious injury or death. To help reduce your risk of serious injury or death, refer to the information below. For more information, see www.datastreamserver.com/safety

- Consult all documentation, packaging and product labelling before use. Note that some products feature documentation available online. It is recommended to print and retain the documentation.
- Before each use, check the product for loose/broken/damaged/missing parts, wear or leaks (if applicable). Never use a product with loose/broken/damaged/missing parts, wear or leaks.
- Products must be inspected and serviced (if applicable) by a qualified technician every 6 months. This is based on average residential use by persons of average size and strength, and on a property of average metropolitan size. Use beyond these recommendations may require more frequent inspections/servicing.
- Ensure that all users of the product have completed a suitable industry recognised training course before being allowed access to the product.
- The product has been supplied by a general merchandise retailer that may not be familiar with your specific application or description of application. Be sure to attain third-party approval from a qualified specialist for your application before use, regardless of any assurances from the retailer or its representatives.
- This product is not intended for use where fail-safe operation is required. As with any product (for example, automobile, computer, toaster), there is the possibility of technical issues that may require the repair or replacement of parts, or the product itself. If the possibility of such failure and the associated time it may take to rectify could in any way inconvenience the user, business or employee, or financially affect the user, business or employee, then the product is not suitable for your requirements. This product is not intended for use where incorrect operation or a failure of any kind, including but not limited to, a condition requiring product return, replacement, parts replacement or service by a technician may cause financial loss, loss of employee time or an inconvenience requiring compensation.
- If this product has been purchased in error when considering the information presented here, contact the retailer directly for details of their returns policy, if required.

