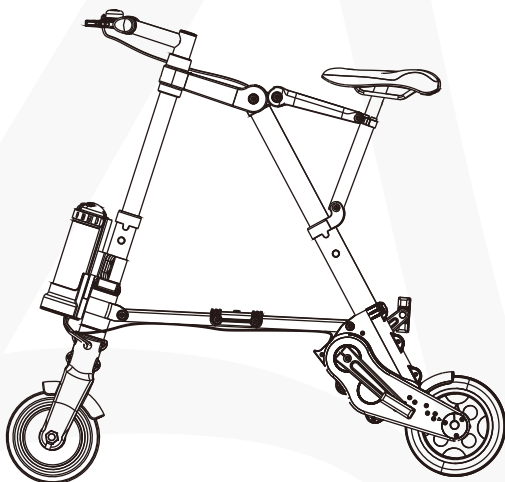




A-BIKE ELECTRIC



INSTRUCTIONS AND USER MANUAL

PLEASE READ BEFORE ATTEMPTING
TO OPEN THE BIKE

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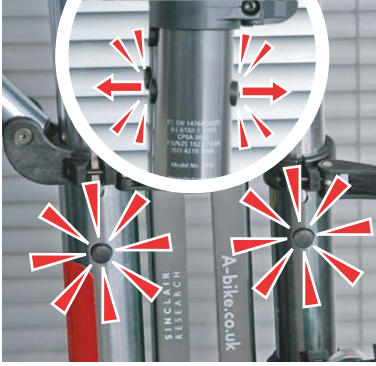
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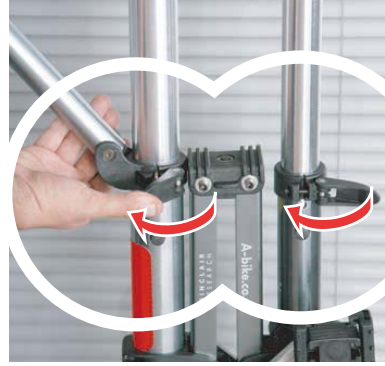
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The A-Bike and A Bike Electric are Design registered and Patented Internationally. The A-Bike was designed by Sinclair Research in London UK. The A-Bike and A Bike Electric are Distributed exclusively by Mayhem UK Ltd in London UK Sinclair Research is a registered Trade Mark

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Introduction

Congratulations and welcome to the A-Bike electric, the world's lightest, smallest battery assisted folding bicycle. Before using the bike you must read these instructions.

Designed for short trips and mixed mode transport the A-Bike electric is unique in concept and design. This booklet will show you how to use maintain and make simple repairs to your A-Bike electric. This will help to avoid damaging the product and harming yourself.

Please pay particular attention to notes highlighted in a box as these are especially important and must be remembered at all times.

The geometry of the A-Bike electric is quite different from any other bike and may feel a little strange at first. After a bit of practice we are sure you will find the bike easy and comfortable to ride.

Box contents

- A-Bike electric folding bicycle
- A-Bike electric toolkit
- A-Bike electric user manual
- A-Bike electric Battery Pod with lithium battery cells
- A-Bike electric Battery Charger and Connector
- A-Bike electric Bag (optional)
- Holding strap (optional)



Warnings

Rider weight limit !

The bike has a recommended maximum weight limit of 100 kg (220 lbs). This includes the rider and anything the rider is carrying, for example a back pack.

Not a mountain bike !

The A-Bike electric is designed for smooth roads and it's lightweight construction means it's not suitable for rough surfaces or off-road riding. Do not attempt stunts on the bike and avoid sudden drops or rises such as kerbs.

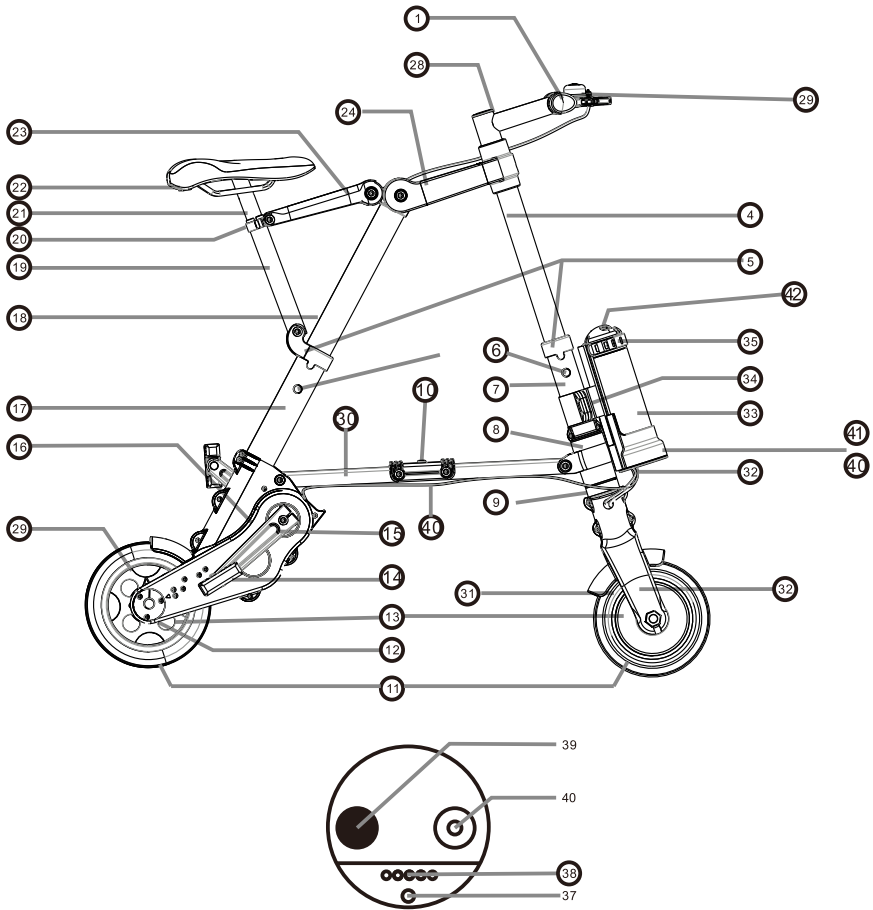
Quick release levers and locking buttons!

When opening the bike ensure that all the locking buttons pop out. The two quick release levers should be hand tight and firmly secured.

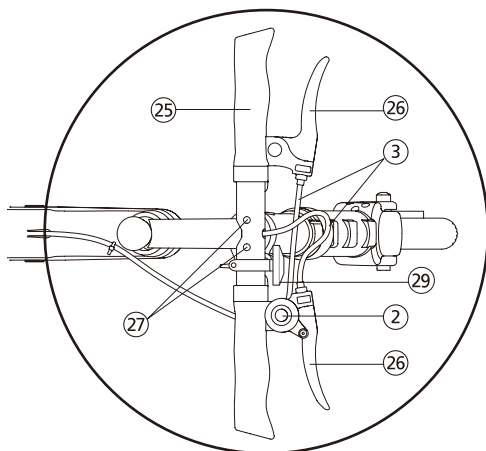
Don't step on the crosspiece!

The crosspiece is not designed to bear any load. Do not stand on or attach anything to this beam.

Labelled diagram



Top view



- | | | | |
|----|-----------------------|----|----------------------------|
| 1 | Handle Bar | 23 | Seat Stay |
| 2 | Bell | 24 | Upper Steering Joint |
| 3 | Brake Cable | 25 | Handlebar Grip |
| 4 | Front Upper Tube | 26 | Brake Lever |
| 5 | Quick Release Clamp | 27 | Handlebar Locking |
| 6 | Main Locking Buttons | 28 | Buttons |
| 7 | Front Lower Tube | 29 | Handlebar stem |
| 8 | Lower Steering Joint | 30 | Reflectors |
| 9 | Front Fork | 31 | Crosspiece |
| 10 | Crosspiece Button | 32 | Motor |
| 11 | Tyre | 33 | Cables |
| 12 | Brake Band | 34 | Battery |
| 13 | Wheel Hub | 35 | Battery holder |
| 14 | Pedal (on both sides) | 36 | Battery band |
| 15 | Crank (on both sides) | 37 | Battery indicator button |
| 16 | Crank Case | 38 | Battery indicator lights |
| 17 | Rear Lower Tube | 39 | Power switch |
| 18 | Rear Upper Tube | 40 | Charging jack |
| 19 | Outer Seat Tube | 41 | Sensor cable |
| 20 | Seat Clamp | 42 | Controller/Controller case |
| 21 | Seat Post | | |
| 22 | Saddle | | |

Riding Safely

- Always wear an approved helmet when riding.
- Always wear suitable shoes, sandals are not appropriate.
- Avoid loose clothing and anything that may get caught in the mechanisms of the bike.
- Remember to abide by bicycle riding laws.
- Be vigilant of other road users. Always leave a large enough gap between you and obstacles, slow down and stop if necessary.
- Watch out for uneven surfaces and pot holes.
- When riding in the dark you should wear high visibility clothing and use lights when appropriate.
- Wet weather will reduce grip and increase stopping distances; ride slower if necessary. Icy conditions should be avoided entirely.
- Windy conditions can severely effect riding stability.
- Become familiar with riding your bike slowly and in a safe environment before heading into areas with other traffic.
- Store you bike securely and safely in a clean and dry area to avoid damaging the bike.
- If there are any broken parts, they must be replaced before riding.
- Riders under 14 years of age should not ride the A-Bike electric on public roads

Adjusting saddle height

Before riding check the tyres tread for damage or debris in the tyre. Tyres should be replaced when they become worn.

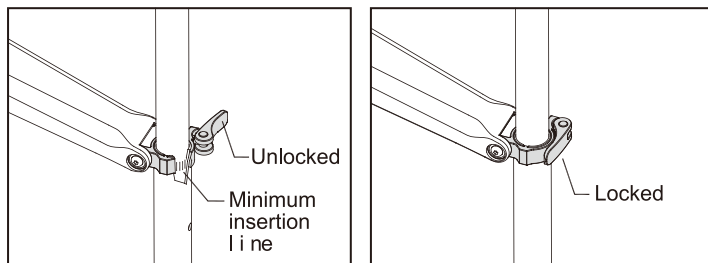
Choosing the Correct Saddle Height

With both feet flat on the ground adjust the saddle height so that you can comfortably sit on the saddle.

1. Unlock the Seat Post quick release clamp.
2. Slide the Seat Post vertically to adjust the Saddle position as required.

The minimum insertion line should NOT be visible, it should be inside the outer tube.

3. Once the desired Saddle position has been selected, make sure the saddle is positioned straight forward and then lock the Seat Post quick release clamp so that you cannot twist the saddle out of alignment.



If the saddle can twist then unlock the quick release lever and tighten with an allen key before locking the quick release again and re-testing.

Checking the tyres

You should also take this opportunity to check the tyre's tread, to check for damage to the tyre and for debris in the tyre.

Tyres should be replaced when they become worn.

Unfolding the bike (1)

Please also refer to the illustrated photo guide

Trapped fingers

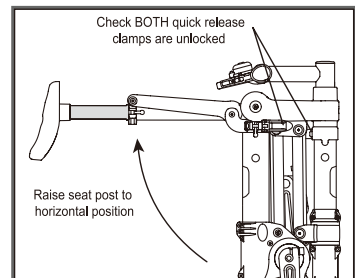
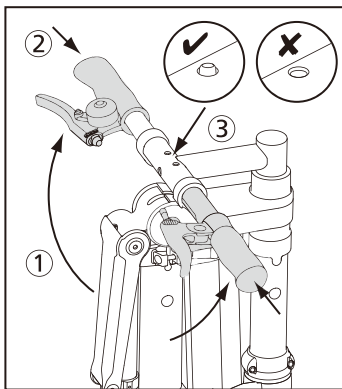
Fold and unfold the bike slowly and take care to avoid trapping fingers, especially when dealing with the pedals.

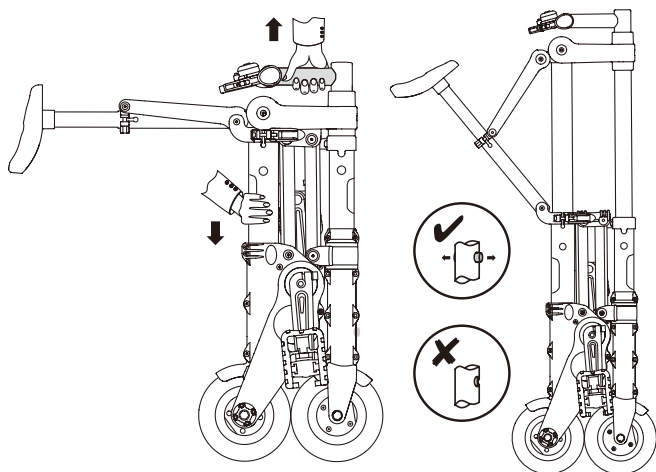
It is important to follow each step in the correct order, the bike does not need a lot of force to be unfolded and can be done in as little as 10 seconds.

1. Lift the Left and Right Handle Bar ends up to the horizontal position and slide them into the centre portion. Check that both locking buttons are fully engaged.

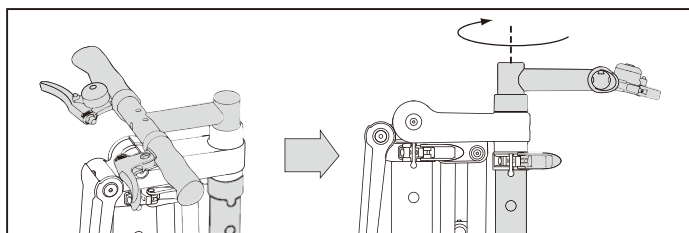
2a. Check BOTH quick release clamps are unlocked.

2b. Gently raise seat post to horizontal position



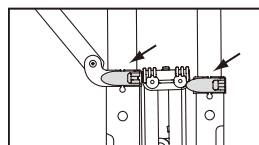


3. Grasp handlebar stem and rear leg as shown and extend legs until all FOUR quick release buttons are locked.



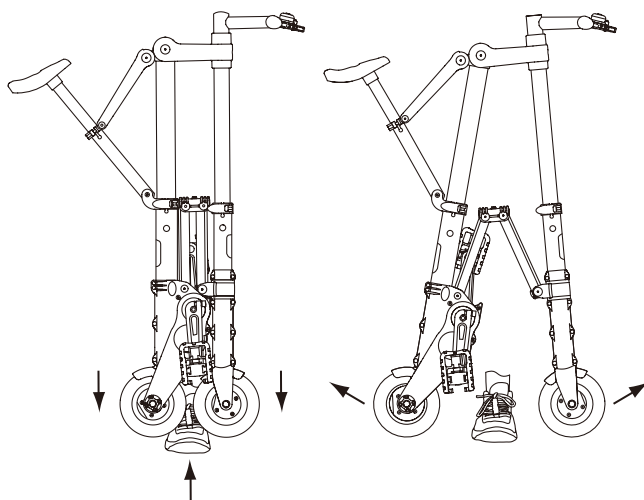
4. Rotate the Handle Bars 180° clockwise (looking from the top). Do not force it in the wrong direction as this will wrap the brake cable around the stem of the handlebars and damage the bike.

5. Lock both quick release clamps.



*Quick release levers and locking buttons
When opening the bike ensure that the locking
buttons pop out. The two quick release levers
here should be hand tight and firm*

Unfolding the bike (2)

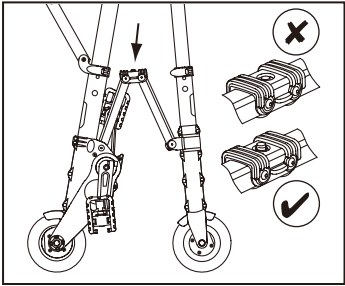


6. To open out the legs, lower the bicycle down gently onto the top of your foot with a tyre either side of the foot. As the legs part, simply push down to fully open out.

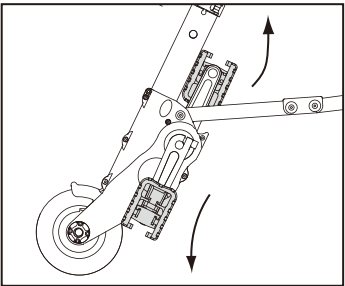
Crosspiece locking button

The crosspiece locking button must pop out when the bar is fully unfolded.

7. Press the crosspiece centre down until the quick release button pops up and locks the crosspiece out.

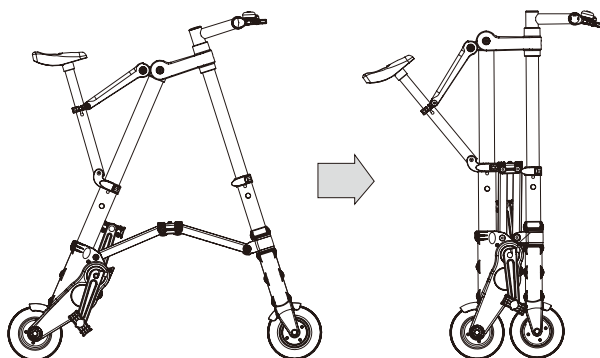


8. Align the Pedal parallel to the Crank, and fold it outward. Be careful not to pinch your fingers.

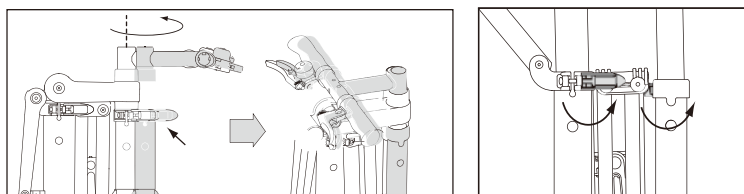


9. Now that the A-Bike electric is fully unfolded, check to make sure that both Handle Locking Buttons, four Main Locking Buttons and the Crosspiece Button are fully engaged, the Front and Rear Clamps are locked and the Crosspiece is straight and locked before riding.

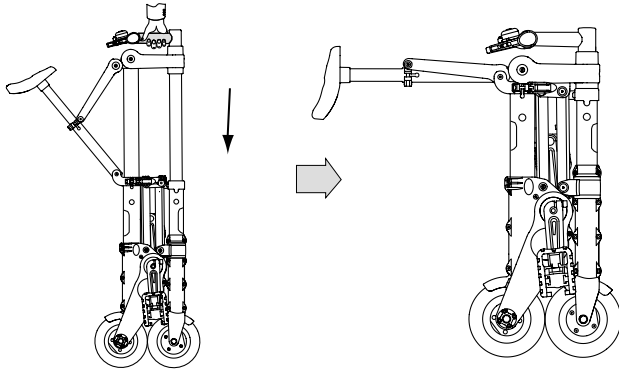
Folding the bike (1)



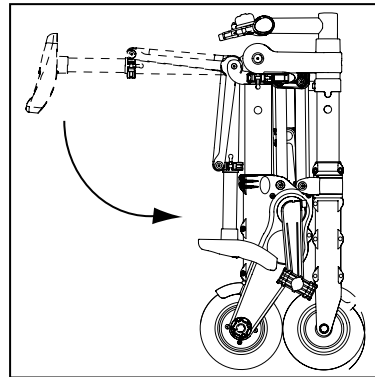
1. Press down the locking button on the Crosspiece and lift it up into the folding position. Push both sides of the bike firmly together, you should hear a click as the two sides clip together, this is important for the next step to work.



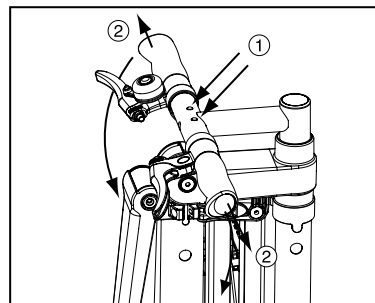
2. Rotate the handlebars 180 degrees counter clockwise viewed from above.
3. Ensure both clamp levers are unlocked
4. Press and hold all FOUR buttons and simultaneously push down on top of the bike.



5. Saddle will drop under its own weight when legs are fully telescoped down.



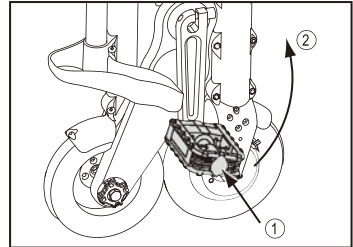
6. Press and hold the two Locking Buttons on the handle, pull the Left and Right Handle Bars out and flip them down until both are in vertical position.



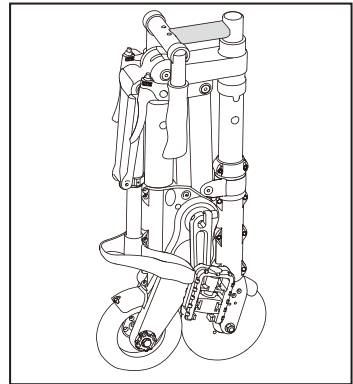
Folding the bike (2)

7. Press inwards to flip both pedals up into vertical position. Be careful not to pinch your fingers.

Please ensure the pedals are aligned perpendicular to the crank as per unfolding instructions.



8. Now that the A-Bike electric is successfully folded, you are now ready to carry your portable A-Bike electric to your next destination.



9. A holding strap is included to help hold the frame firmly in place whilst carrying the Electric A Bike

Adjusting the brakes

If the brake band is knocked it is possible for it to become misaligned with the braking hub and wheel. If this happens it may be necessary to gently bend the band back into shape. Care must be taken not to cause strain around the brake band mounts. If the brake band rubs against the wheel it can be gently bent away.

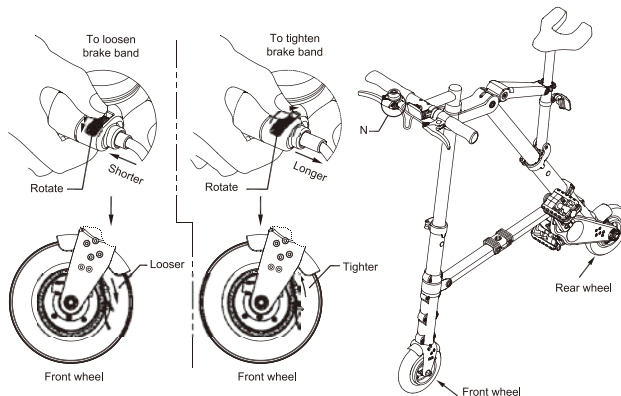
Hot brake bands and brake fade

The band brakes will become hot when used, be aware of this when storing and handling the bike, allow the brakes to cool. Brake fade may occur when used for long periods of time.

Only adjust the brakes when the bike is fully unfolded and extended as this effects the brake cables.

Fine brake cable adjustment

To adjust the Right Hand brake (Front wheel)



The fine adjustment wheel can be found on the brake handles. Turn it to change length of the cable accordingly as shown in the diagrams. You may need to hold the cable still to prevent in rotating. To adjust the rear wheel, do the same as above but on the left hand brake lever.

For further information on adjusting the brakes, please refer to your vendor and the A Bike electric website.

Maintaining your bike

Like all bikes the A-Bike electric requires some simple maintenance to run at it's optimum and prevent parts from becoming damaged.

It is vital that you maintain your A-Bike electric!

If you notice a small change in performance of the bike we recommend you check the bike as this is often a sign of a potentially serious problem.

Your toolkit includes tools for tightening and adjusting moving and folding parts. We recommend you check these regularly.

Weekly checks

Check your A-Bike electric before every ride. Special attention should be given to brakes, wheels, tyres and all quick release clamps and locking buttons.

Check the tyres are in good condition.

Check brakes work effectively and the bands are aligned with the rim.

Check pedal cranks and pedals are securely attached.

Check all four main lock buttons are fully locked.

Check the Crosspiece button is locked.

Check both quick release clamps are locked.

Check both handle bars locking buttons are fully engaged and locked

Check Pedals are unfolded and locked.

Check Saddle and seat post are secure and adjusted to the correct height.

"Listening-check". Spin both wheels and listen for any rubbing sounds. Investigate and adjust if brakes are rubbing.

"Snag-check". Check for frayed cables that may snag clothes when riding. Replace worn or damaged cables where necessary.

Check for any deformed or cracked components which must be changed before use.

Maintenance

Clean the bike - dirt is the enemy of a smooth running bike and can eventually cause parts to seize in addition to causing corrosion. Carry out regular cleaning and corrosion protection of all parts of your A-Bike electric.

We recommend washing the A-Bike electric with a gentle flow of water, or from a bucket, using a damp cloth. This is also a great opportunity to visually inspect your bike.

Inspect the bike for damage

Damage to parts can result in sudden failure of that part. The bike should be regularly inspected, looking for cracks, discoloration of material, scratches and loose fastenings. If damage is found you should contact the vendor and seek advice before attempting to ride the bike.

Check your brakes - you should be able to stop the wheel from turning without the brake lever touching the handle grip. Test this when stood by the bike, NOT while riding it! If you need to adjust it look at the Repairs section of this user guide. Clean the chain and lubricate regularly, this is vital to reducing wear to the bike and efficiency.

We recommend that you have your A Bike electric regularly checked and serviced by your local specialist dealer. See your vendor for full details.

In the following pages we show how to adjust the Chain Tension . If you have any problems with the maintenance of your A-Bike electric please consult your local vendor who will be pleased to help.

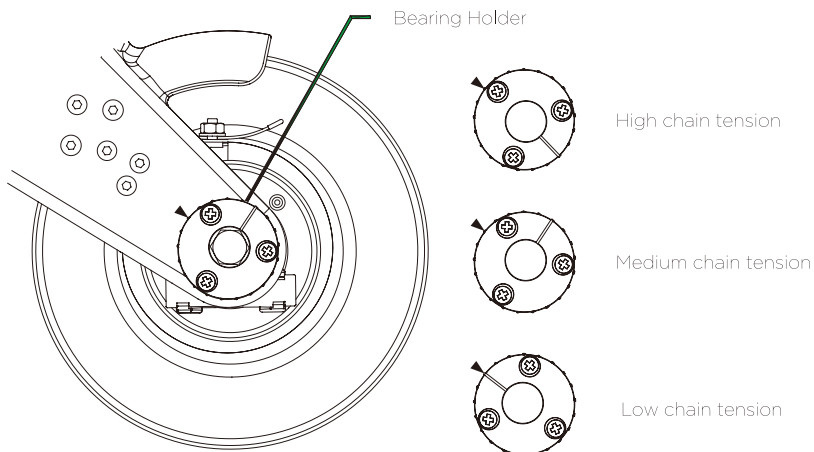
Adjusting chain tension

The A-Bike electric chain tension is preset in the manufacturing process. If the chain needs to be replaced it should be referred to a bicycle mechanic or an A-Bike electric dealer.

If the chain is too slack it may be noisy and if too tight it may make it difficult to turn the wheel. When viewed the chain should have some slack.

The A-Bike electric has a two-chain drive system. Put the unfolded bike upside down on a clean surface. One chain can be obviously viewed, cleaned and lubricated through the gap in the crank casing where the wheel is. The other chain can be lubricated through a small inspection hole in the centre of the crank casing.

To adjust chain tension, unscrew and then rotate the Bearing Holder and the opposite one at the same time.



1 DRAWINGS OF Chain tension

A-Bike electric Battery Pod and Charger

The A-Bike electric Battery Pod contains high quality, lithium batteries. These are lightweight, highly efficient cells with an intelligent system for multi recharge cycles.

The Battery Pod must only be charged with the charger that is supplied with the bike. To recharge undo the rubber strap mounting bracket on the battery, and remove the Pod from the Bike. Always recharge the Battery Pod in a dry, safe well-ventilated place. Always plug the charger into the battery before plugging into the mains.

Always unplug from the mains before un-plugging from the battery. Make sure that all the connecting plugs are fully engaged and make a full connection. When charging the battery, do not cover the battery or charger.

The charger must be kept dry at all times. When charging, the charger becomes warm, this is normal. Charging takes approximately 3-4 hours from flat. The battery cannot be overcharged. When the cells are full, the charger stops providing a charge.

Do not store your Battery Pod in an uncharged state for long periods. If the A-Bike electric is not going to be used for a period of more than 2 months, recharge the battery and recharge every month.

We recommend you recharge the Battery Pod fully after use. (Rather than recharging just before next use)

Do not handle the battery or charger with wet hands.

Do not leave the charger permanently connected to the mains supply

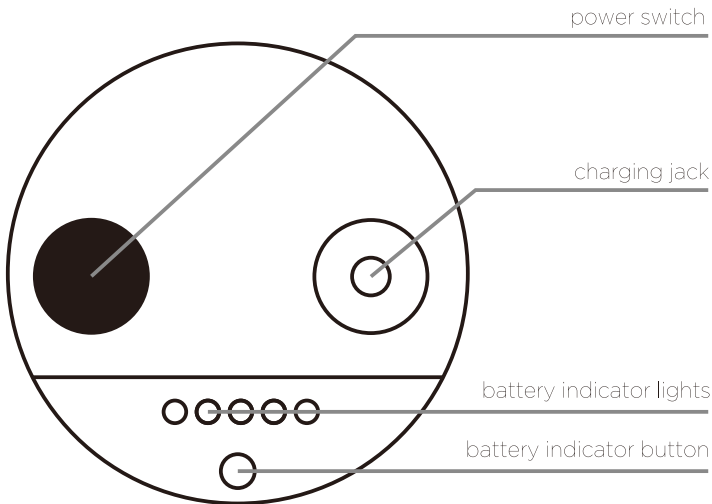
Do not leave the charger plugged in when not being used.

Do not disassemble the charger or the Battery Pod. This can be dangerous and will void the warranty.

A-Bike electric Operation

The A-Bike electric is a power assist bicycle. When the Battery Pod is switched off, the A-Bike electric can be ridden as a normal bicycle. To operate as a power assist bicycle, switch the Battery Pod to "On." The red power light is illuminated.

As you begin to pedal, the sensor on the chain wheel recognises that you are pedalling and automatically starts the motor. You will feel the increased power in the pedal assist mode. The motor automatically stops when you stop pedalling. The power will also stop automatically when you reach a speed of 12.5 mph



Warranty

Your A Bike Electric Distributor provides each original retail purchaser with a warranty against defects of materials and workmanship, as detailed below. The warranty is effective from the date of retail purchase.

Frame for a minimum of 12 months

Battery Pod for a minimum of 6 months.

Battery Pod recharger and Electrical Components for a minimum of 6 months.

All other original parts and components (except consumables such as tyres, brake bands, etc) for a minimum of 12 months.

This warranty applies only to the original owner and is not transferable. Claims under this warranty must be made directly to your local A-Bike electric distributor, proof of purchase is required. This warranty does not cover normal wear and tear, follow-up maintenance by non-certified persons, or installation of parts or accessories not originally intended for the A-Bike electric as sold.

The warranty does not apply to damage or failure due to accident, misuse, abuse, or neglect. Modification of the frame or components voids this warranty. Your local distributor is not responsible for incidental or consequential damages or labour charges associated with replacing parts not covered by the warranty. This warranty gives the consumer specific legal rights, and those rights may vary from place to place.

This warranty does not affect the statutory rights of the consumer.
Please record your serial number here with date of purchase:

Features

Weight (without Battery Pack)	10,8 Kgs
Battery Pack	1 Kgs
Dimensions (folded)	69 x 42 x 20cm
Motor	A Bike Electric Motor proprietary 150 watt continuous
Motor Drive Control	Pedal Drive Sensing
Range	Up to 30 km (18 miles), depending on pedal input
Riding Modes	City, On-Demand Assist.
Electric Drive Speed	20 km/h (12.5 mph)
Charging	Min 3-hour full recharge
Battery	External Lithium, 5,8 Ah, 24 V
Motor Controller	A Bike Electric proprietary
Brakes	A Bike proprietary band brake rear, and shoe brake front
Folding System	A Bike proprietary Tubular
Tyres	Solid state A Bike proprietary
Maximum Rider Weight	100 kg (220 lbs), including clothing and luggage
Saddle	A Bike proprietary Comfort Ride
Wheelbase	200 mm (8 in)
Standards	Complies with European EN 15194 Standards



www.a-bike.co.uk