Developed and
assembled in the UK

MIRIDER 24 | MIRIDER 24 GB3

USER MANUAL

MiRiDER

mirider.co.uk

MiRiDER™

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Welcome to the fold

Thank you for choosing to join the growing MiRiDER community. We're sure riding your MiRiDER 24 (GB3) will create some amazing new experiences and memories to last a lifetime. The MiRiDER 24 is designed with a focus on providing reassuring performance ride after ride, using a combination of advanced technology, superior style, and unbeatable quality, your MiRiDER 24 was carefully crafted to be the ultimate electric folding bike.

Enjoy your MiRiDER 24 (GB3)


MIRIDER
MIRIDER

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1. PREFACE

1.1. ABOUT THIS MANUAL

This manual is written for the end user of the MiRiDER 24 (GB3).

This manual is written for the end user of the MiRiDER 24 (GB3). In this manual you will find all the information you need to correctly use and maintain your e-bike. Please ensure you have read and understood the contents of this manual in full before operation of your e-bike. Keep this manual in a safe place for future reference.

In this manual, the MiRiDER 24 (GB3) will also be referred to as “your e-bike”.

1.3. SYMBOLS USED IN THIS MANUAL

This manual contains safety warnings that may result in injury when ignored. Each safety warning is indicated with a signal word. The signal word corresponds with the level of risk of the described hazardous situation.

Symbol	Description
⚠ WARNING	Indicates a hazardous situation which, if not avoided, could result in death or serious injury.
⚠ CAUTION	Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
NOTICE	Indicates practices that could damage the product or cause it to not function properly.
	Indicates additional useful information.

1.4. WARRANTY

The following warranty conditions apply to your e-bike. All terms are applicable from the date of purchase:

- A two-year warranty* on the frame, seatpost, and handlebar.
- A two-year warranty* on the motor.
- A two-year warranty* on the battery.
- A two-year warranty* on the electronic cabling, display, throttle, and electronic brake cut offs.
- A one-year warranty on all other parts. Wear parts such as tyres, the chain or drive belt, pedals, freewheels etc. are exempt from this warranty.

The warranty is invalid in the event of:

- Damage that occurs due to the result of using non-original accessories and or parts.
- Damage that occurs for any modifications of the original condition of your e-bike.
- Damage that occurs as a result of a misuse or involvement with a crash.
- Lack of proper maintenance.
- Misuse of the motor and or components.
- Misuse of the controller settings.
- Derestricting the bike.

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*To access the full two-year warranty, you must register your e-bike within 30 days from the date of purchase. Please visit **www.mirider.co.uk/warranty** to register your e-bike. If your e-bike is not registered within this time, the warranty will be limited to one year.

Warranties and complaints are handled by MiRiDER for direct sales. For purchases made via the MiRiDER dealer network, the dealer who you've purchased from is always your first point of contact. MiRiDER in consultation with your dealer will make a definitive decision as to whether the warranty claim is valid. The MiRiDER warranty is for the original owner only and is non-transferable. MiRiDER can only offer a warranty on purchases through a registered dealer or direct from the MiRiDER web store.

1.5. DISCLAIMER

MiRiDER has prepared the warranty conditions with the greatest care. However, we accept no liability resulting from printing and typesetting errors.

Your e-bike is not indestructible and the components will not last forever. MiRiDER bikes are built to withstand day to day stress under normal conditions. We cannot predict the stress of our bikes in extreme conditions, competition, or in the event of a crash. The life of any part will be dramatically reduced and fail without warning in the event of collision or extreme use.

1.6. ASSISTANCE

If you have any questions regarding your e-bike, you can contact us by:

Phone:	+44 1257 228242
E-mail:	**hello@mirider.co.uk**
Visiting address:	MiRiDER, 3 Croftwood Square, Wigan WN5 0LG, United Kingdom

2. PRODUCT INFORMATION

2.1. PRODUCT DESCRIPTION

The MiRiDER 24 (GB3) is an electric bike for use on paved roads with pedal assist that operates at speeds of up to 25 km/h.

You can manually adjust the pedal assist level as desired while cycling, with the control panel on the handlebars. You can choose between five different assist levels.
Pay attention to your surroundings if you wish to change power level. Only change the setting if it's safe to do so.

The MiRiDER 24 (GB3) is driven by a hub motor located at the centre of the rear wheel. The hub motor is powered by a rechargeable, removable battery which is built into the frame. The battery can be charged with the provided charger.

On top of that, your e-bike is fitted with three gear ratios.*

- 1st gear: For climbing or riding without assistance.
- 2nd gear: For typical riding.
- 3rd gear: For cruising or riding at maximum speed.

*Only applicable to the MiRiDER 24 GB3

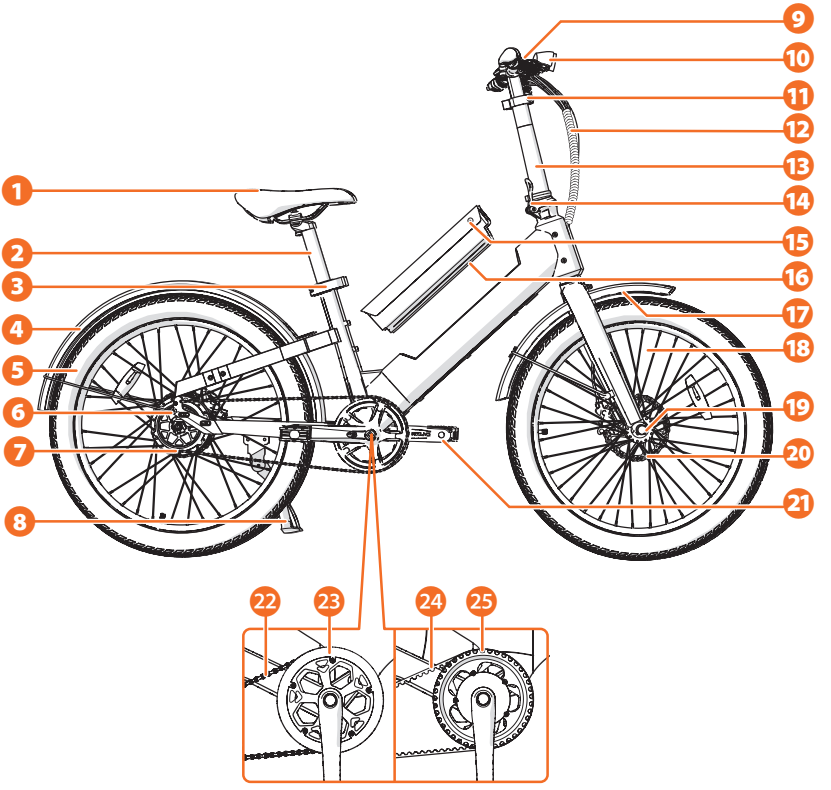
2.2. IMPORTANT SPECIFICATIONS

Product name	MiRiDER 24	MiRiDER 24 GB3
Unfolded dimensions	L 176 cm × W 65 cm × H 116 cm	
Folded dimensions	L 176 cm × W 33 cm × H 86 cm	
Net weight	21 kg	23.1 kg
Max. combined weight (e-bike, rider, and load)	120 kg	

2.3. SYMBOLS AND LABELS ON THE PRODUCT

Symbol	Description
CE	Indicates that the product complies with all relevant European directives.
UKCA	Indicates that the product complies with all relevant United Kingdom directives.
	Indicates that the product must not be disposed with household waste. Recycle this product in an environmentally friendly manner according to local regulations.
RoHS COMPLIANT	Indicates that the product is free of restricted materials which are hazardous to the environment and pollute landfills and are dangerous in terms of occupational exposure during manufacturing and recycling.
	Indicates a hot surface.

2.4. MAIN PARTS

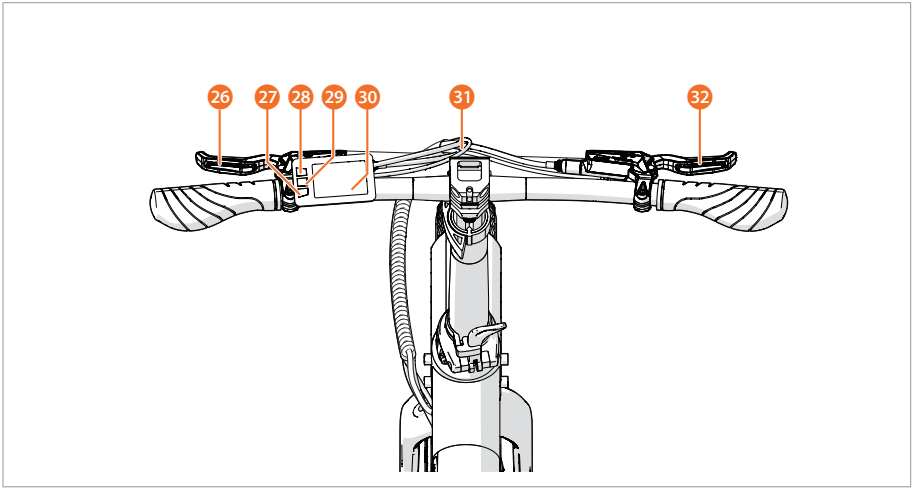


1. Saddle
2. Seatpost
3. Seatpost height adjustment clamp
4. Rear mudguard
5. Wheel
6. Motor
7. Rear disk brake
8. Kickstand
9. Handlebar
10. Headlight
11. Handlebar clamp
12. Cables
13. Handlebar stem
14. Handlebar stem folding latch
15. Battery lock
16. Battery
17. Front mudguard
18. Front wheel
19. Front wheel latch
20. Front disk brake
21. Foldable pedal
22. Chain[1]
23. Sprocket[1]
24. Drive belt[2]
25. Gearbox[2]

[1] Only applicable to the MiRiDER 24

[2] Only applicable to the MiRiDER 24 GB3

2.5. HANDLEBAR



26 Left brake lever (rear brake)
27 Up button
28 Power button
29 Down button
30 Display
31 Cables
32 Right brake lever (front brake)

3. SAFETY

3.1. INTENDED USE AND FORESEEABLE UNINTENDED USE

Your e-bike is intended to be used as an electric bike with pedal assist for single person cycling only.
Only use your e-bike as described in this user manual.
Any other use of your e-bike than described in this user manual is regarded as unintended use and may cause injury or damage to the product and void the warranty.
Your e-bike is not intended to be used with a bicycle trailer or any other towable product.
Your e-bike is not intended to be used with a child seat.

The following is considered as foreseeable unintended use:

- Failure to comply with the instructions in this user manual.
- Unauthorised modifications to the product.
- Use of spare parts or accessories not recommended by the manufacturer.
- Failure to eliminate defects of the products that increase the safety risks.

3.2. SAFETY WARNINGS AND REGULATIONS

⚠ WARNING

- Observe the locally applicable (bicycle) traffic rules at all times, including those concerning the use of bicycle lights.
- Do not wear loose or long clothing that may become entangled in the various parts of your e-bike.
- Your e-bike can easily reach speeds of up to 25 km/h. It is recommended to wear a helmet while cycling to prevent head injuries in the event of an accident.

- Always use headlights when cycling in the dark. Cycling in the dark without lights increases the risk of poor visibility and poor visibility for other road users.
- Always watch out for cars, pedestrians, and other cyclists. Be careful when cycling past parked cars. Doors may open unexpectedly.
- Avoid potholes, soft or low verges that could cause a crash, or debris which may cause damage to your tyres.
- Always allow for extended braking distance in adverse weather conditions. Reduce your speed in adverse weather conditions and/or poor visibility.
- Children must be supervised during installation, cleaning, and maintenance to ensure that children do not play with your e-bike parts, cleaning chemicals or other hazardous parts or substances.
- Do not make modifications to your e-bike. Modifications reduce the lifespan and risk damage to your e-bike and are also hazardous to your safety and that of other road users.
- Never exceed the maximum weight limit of the front or rear bike rack. Overloading the front or rear bike rack can lead to an unstable ride and result in unexpected behaviour of your e-bike. Warranty is void if the weight limit is exceeded.
- The front and rear bike racks are for luggage carrying only. Never transport humans using the front or rear bike rack.
- Luggage can only be carried by means of the optional front and rear rack. Do not carry luggage using any other parts of the bike (e.g. the handlebar).
- Do not open the electrical parts or your e-bike. Electrical parts may only be opened by qualified service technician and may only be repaired using original replacement parts.
- Always use original spare parts when replacing parts of your e-bike. Third party spare parts may not operate in the same way or be of the same quality, which may affect the safety of your e-bike.

- Do not touch the brake discs without protection. The brake discs have sharp edges and may become hot after a period of braking.
- Always insert the seatpost at least up to the minimum marking into the frame. Not inserting the seatpost far enough into the tube may lead to loss of control of your e-bike during cycling and/or irreparable damage to the seatpost or frame.
- Always tighten the handlebar stem clamp to prevent the handlebar stem from moving during cycling.
- Do not adjust the handlebar stem yourself without professional advice. Incorrect adjustment may cause the handle bar stem to fold unexpectedly during cycling.
- Always tighten seatpost height adjustment clamp to prevent the seatpost from moving during cycling.
- Always tighten the seatpost clamp to prevent the seatpost from rotating or moving during cycling.
- Always tighten the saddle bolts to prevent the saddle from tilting or sliding on the rails during cycling.
- Always tighten the handlebar stem lock latch to prevent the handlebar stem from turning during cycling.
- Always tighten the handlebar clamp to prevent the handlebar from rotating or moving during cycling.
- Always remove the battery from the frame before inspection, repair, adjustments, maintenance, storage, or transporting your e-bike by car or aircraft.
- Always keep the battery and the charger away from rain and moisture. Water may cause an electric shock, fire, and/or explosion hazard.
- Always remove the battery from the e-bike before cleaning. Water may cause an electric shock, fire, and/or explosion hazard.
- Do not charge the battery in the frame when the e-bike is wet. Water may cause an electric shock hazard.

- Only charge the battery with the provided charger. Ensure the voltage of the charger matches the voltage of the battery. Non-matching voltages may cause a fire or explosion hazard.
- Always keep the battery and the charger clean. Use a clean fresh cloth to wipe off any dirt. Dirt may cause an electric shock hazard.
- Do not use the battery or charger if there is visible damage. A damaged battery or charger may cause an electric shock hazard.
- Do not use the battery or charger on highly flammable surfaces or in a combustible environment. The heat generated during charging may cause a fire hazard.
- Do not use or store the battery and charger near heat sources and highly inflammable liquids. Using or storing the battery and charger near heat sources may cause an explosion hazard.
- Do not charge the battery unattended. Unattended battery charging may cause a fire hazard.
- Do not store the battery near paper clips, coins, keys, nails, screws, or other small metal objects which may cause short circuiting. Short circuits between the battery contacts may cause a fire hazard.
- As with all mechanical components, the e-bike is subjected to wear and high stresses. Different materials and components may react to wear or stress fatigue in different ways. If the design 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 colouring in highly stressed areas indicate that the life of the component has been reached and it should be replaced.
- Do not lubricate the disc brakes. Lubricating the disc brakes may cause brake failure which may lead to loss of control of your e-bike during cycling.
- Do not lubricate the drive belt. Lubricating the drive belt may cause the drive belt to slip and void warranty.

⚠ CAUTION

- Before each journey, check that:
  - the brakes operate correctly.
  - the hydraulic brake levers are adjusted correctly. If you can squeeze the lever all the way to the handle, there is air or a leak in the brake line. Do not use the e-bike and have the brake line bled or repaired by an approved MiRiDER dealer.
  - the tyres and rims are free of damage and the wheels can turn unimpeded.
  - the tyres are pumped to the correct pressure. Insufficient tyre pressures may lead to premature wear, reduced grip and higher energy consumption of the e-bike system. Refer to the text on the side of the tyres for the correct inflation range.
  - there are no sharp particles in the treads of the tyres that may puncture the tyres.
  - all bolts, nuts, latches, and clamps are tight.
  - the frame and the front fork show no deformations, cracks, or damage.
  - the stem and handlebars are correctly and securely attached and the handlebars are at the correct height and angle.
  - the seatpost and saddle are correctly and securely attached and the saddle is at the correct height and angle.
- The above checks should also be carried out after a collision/crash. Do not use the e-bike if a part no longer functions correctly or is broken/deformed.
- Always try out the brakes during the test cycle so you know how hard you must squeeze and how powerful the brakes are. Disc brakes are more powerful than traditional brakes. Always keep in mind which brake levers operate the front and the rear brakes.
- Only use your e-bike with both wheels in contact with the ground.
- Only use your e-bike for one person cycling.
- Always (un)fold the handlebar stem away from you to prevent entrapment and to make (un)folding easier.

NOTICE

- Consult local regulations for the registration and use of e-bikes on public roads.
- Always handle your e-bike with care to avoid damaging the paintwork.
- Do not use sharp objects such as a knife or scissors when opening the packaging to avoid damaging the paintwork.
- Always press the safety catch when unlocking the handlebar latch to prevent damaging the handlebar latch.
- Do not force the battery into the frame. Always ensure the battery is the correct way around. Do not attempt to install the battery the wrong way around. Do not attempt to remove the battery whilst locked into place.
- Always correctly and fully insert the battery into the frame. Inserting the battery incorrectly or incompletely into the frame may damage the battery or the frame.
- Always lock the battery in the frame to prevent the battery from falling out.
- Do not lubricate inside the seatpost. The seatpost has factory installed grease and does not need lubrication in between service intervals.
- Do not use aggressive detergents that may damage the e-bike.
- Do not immerse the e-bike in water or clean the e-bike with a high pressure cleaner.
- Always fully charge the battery before storing to prevent diminishing the battery life.
- Always charge the battery within a temperature range of 10°C - 45°C.
- Always plug the charger into the battery's charging port before plugging the charger into the power outlet. Always disconnect the charger from the power outlet before removing the charger from the battery's charging port.
- Listen to the sound your e-bike produces. If something doesn't sound right or you feel any wobbles/shakes, stop riding your e-bike and identify the problem.
- Do not forcefully close the clamps. Overtightened clamps can fail and snap.
- Do not overtighten the bolts. Overtightened bolts can fail and break.

- Do not let the rear wheel dangle from the power cable when maintaining the wheel using a cycle maintenance stand. Letting the rear wheel dangle by the power cable may cause irreparable damage. Always disconnect the power cable and wheel completely from the bike before commencing maintenance.

4. INSTALLATION

4.1. CONTENTS OF THE PACKAGE

1. Remove your e-bike from the box.
2. Remove the packaging material.

NOTICE

Do not use sharp objects such as a knife or scissors when opening the packaging to avoid damaging the paintwork.

3. Check if all contents are present and undamaged. The delivery contains the following parts:
- Fully assembled e-bike
- Charger
- Quick start guide

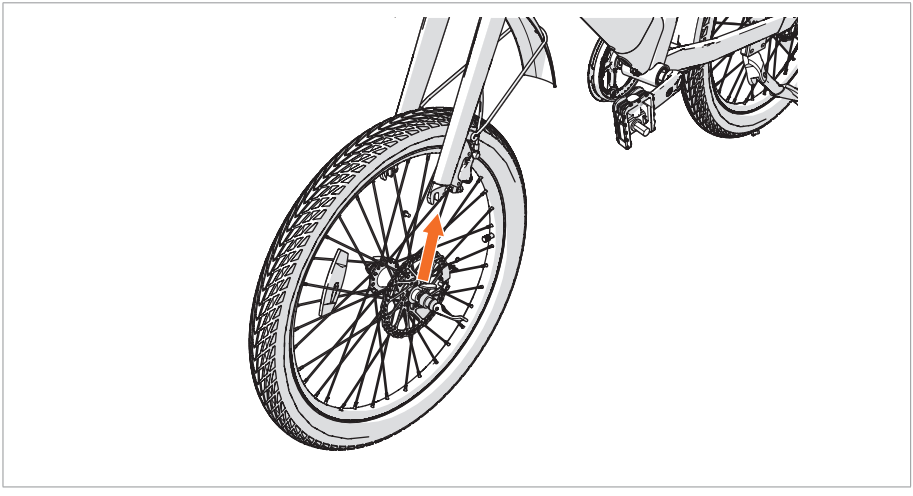
ⓘ Keep the packaging material until you have tested your e-bike and are sure everything is intact and works properly.
ⓘ Your e-bike comes with two keys. We recommend separating the keys and using one as a spare in case one is lost.

4.2.(RE)PLACING THE FRONT WHEEL

NOTICE

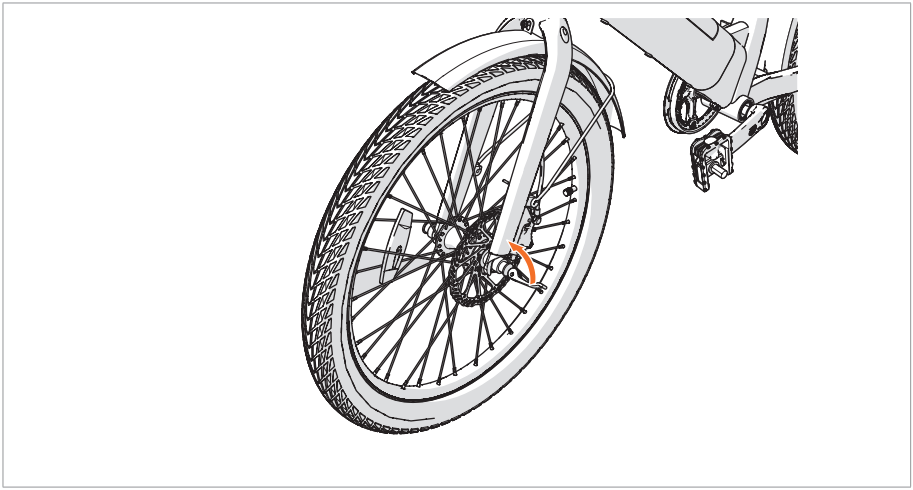
Do not pull the front brake lever without the wheel installed. This can result in the caliper pistons being pushed out resulting in brake failure.

1. Make sure the quick release wheel clamp is open.



2. Slide the wheel in between the fork.

ⓘ Make sure the brake disc slides in between the brake caliper.



3. Close the wheel clamp to secure the wheel.

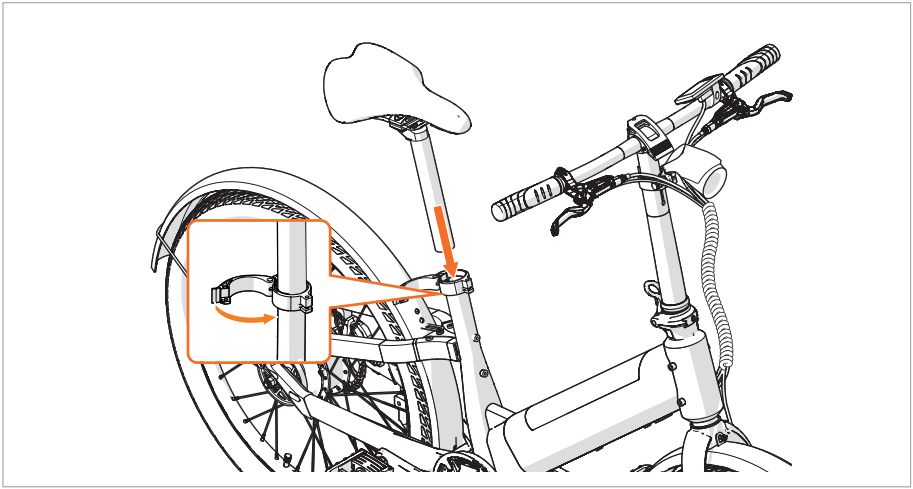
If the front wheel can still move, the front wheel clamp is not tight enough. To adjust the clamp force, follow the instructions in chapter *4.9. Adjusting the clamp force.*

⚠ WARNING

Always tighten the front wheel clamp to prevent the wheel from coming loose while cycling.

4.3. INSERTING THE SEATPOST

1. Make sure the seatpost clamp is open.



2. Insert the seatpost into the seat tube.

⚠ WARNING

Always insert the seatpost at least up to the minimum marking into the frame. Not inserting the seatpost far enough into the tube may lead to loss of control of your e-bike during cycling and/or irreparable damage to the seatpost or frame.

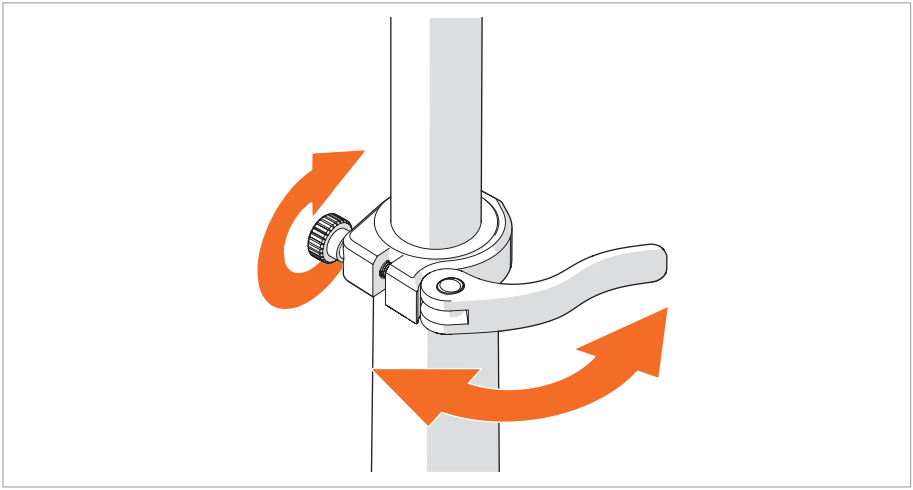
3. Align the saddle with the frame.
4. Close the seatpost clamp.
5. Check that the saddle does not rotate.

If the saddle can still rotate, the seatpost clamp is not tight enough. To adjust the clamp force, follow the instructions in chapter *4.9.Adjusting the clamp force*.

⚠ WARNING

Always tighten the seatpost clamp to prevent the seatpost from rotating or moving during cycling.

4.4. ADJUSTING THE CLAMP FORCE



1. Open the clamp.
2. Tighten the thumbscrew.
3. Close the clamp.

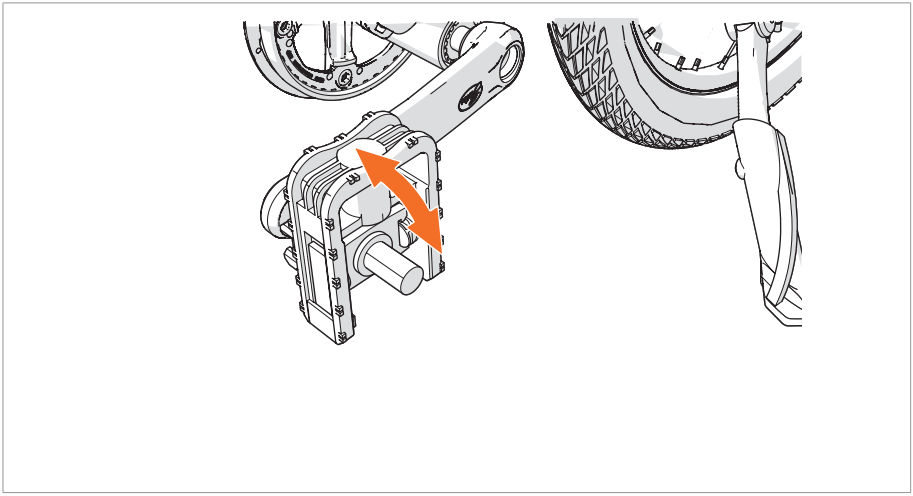
If you cannot close the clamp by hand, the clamp is too tight. Open the clamp and slightly loosen the thumbscrew and close the clamp.

NOTICE

Do not forcefully close the clamps. Overtightened clamps can fail and snap.

5. PREPARATION

5.1. FOLDING AND UNFOLDING THE PEDALS

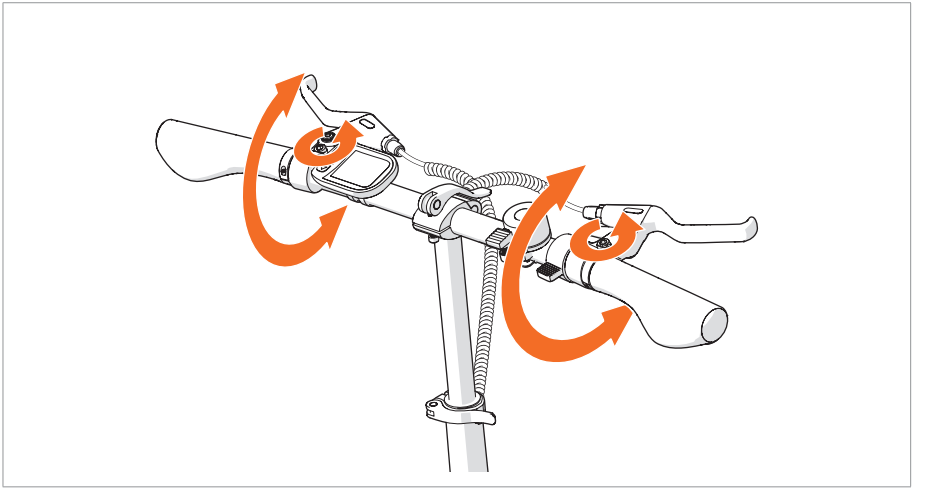


1. Push the pedal inwards to fold it.

2. Pull the pedal outwards to unfold it.

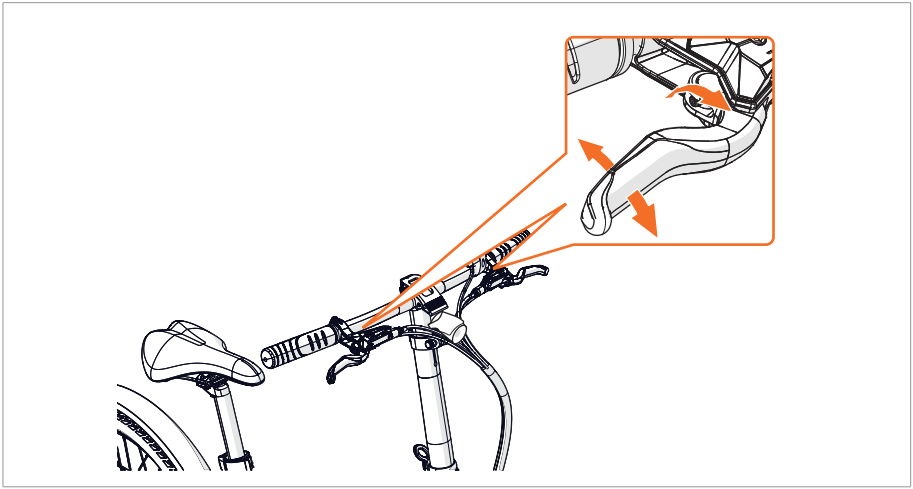
5.2. ADJUSTING THE BRAKE LEVERS

5.2.1 Adjusting the brake lever angle



1. Loosen the clamp bolt(s) until the lever can rotate around the handlebar.
2. Twist the clamp until you can easily reach the lever with your hand on the handle.
3. Tighten the clamp bolt(s).

5.2.2. Adjusting the brake lever clearance



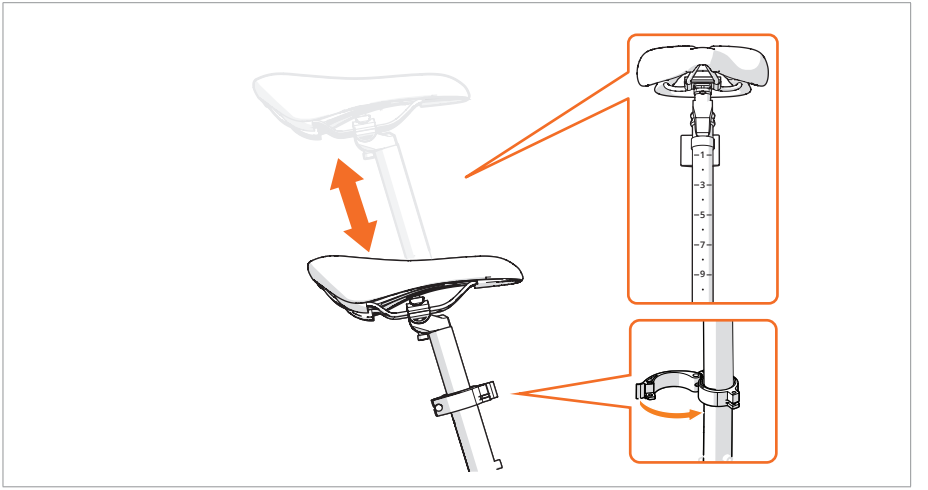
Use a 5 mm allen key to screw the brake lever adjustment bolt clockwise or counter clockwise.

- Screwing the adjustment bolt clockwise moves the brake lever away from the handlebar.
- Screwing the adjustment bolt counter clockwise move the brake lever close to the handlebar.

⚠ WARNING

Make sure you can still fully engage the brakes after adjusting the brake lever clearance. The brake lever should never touch the handlebar when applying maximum force on the brake levers.

5.3. ADJUSTING THE SADDLE HEIGHT

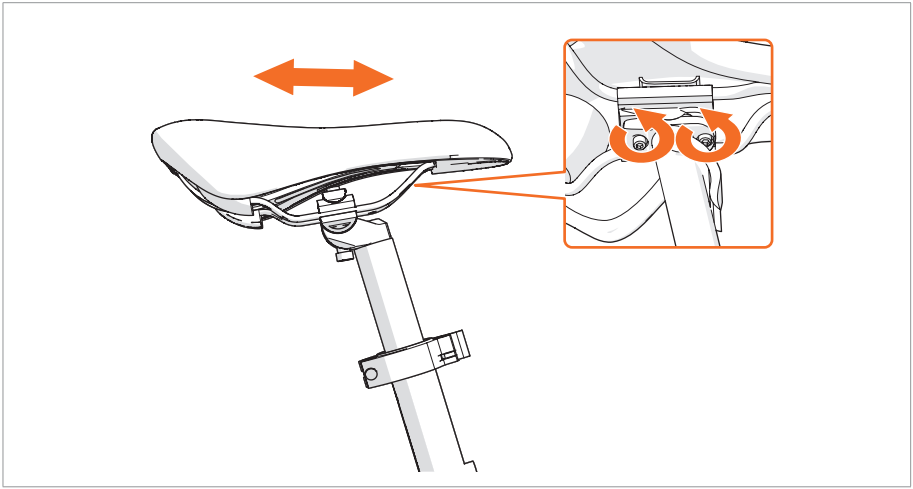


1. Open the seatpost height adjustment clamp.
2. Adjust the saddle to the desired height within the range indicated on the side of the post.
3. Close the seatpost height adjustment clamp.

⚠ WARNING

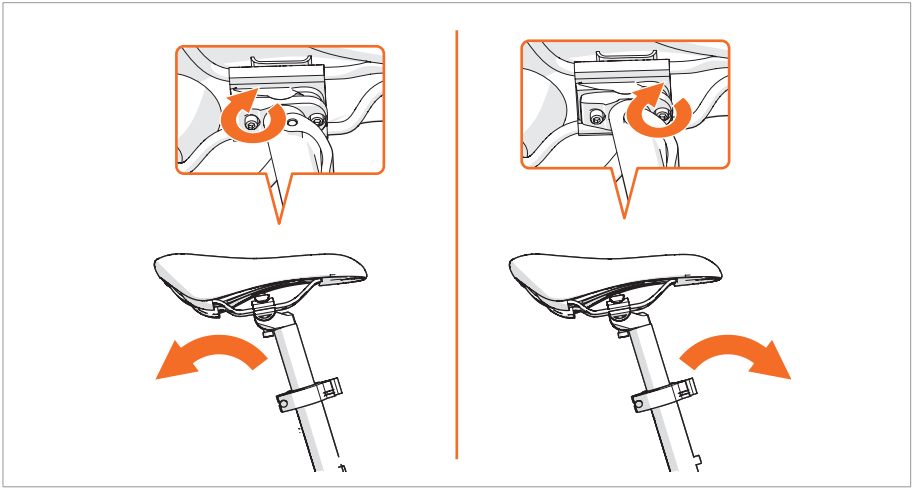
Always tighten seatpost height adjustment clamp to prevent the seatpost from moving during cycling.

5.4. ADJUSTING THE SADDLE HORIZONTAL POSITION



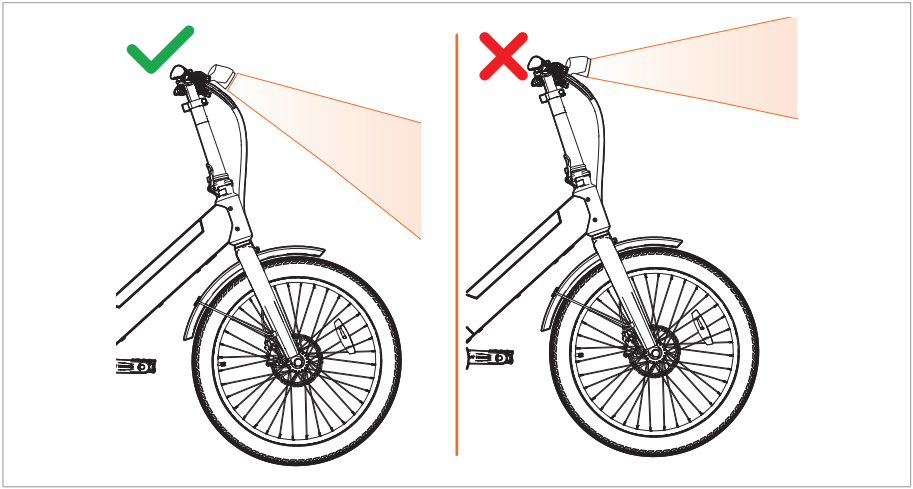
1. Loosen the two Allen bolts under the saddle using a size 5 Allen key.
2. Move the saddle forward or backward as desired.
3. Tighten both Allen bolts.

5.5. ADJUSTING THE SADDLE ANGLE



- To tilt the saddle forward: Loosen the rear bolt of the saddle and tighten the front bolt of the saddle using a size 5 Allen key.
- To tilt the saddle backwards: Tighten the rear bolt of the saddle and loosen the front bolt of the saddle using a size 5 Allen key.

5.6. ADJUSTING THE HEADLIGHT



Tilt the headlight until the light beam shines on the road ahead of you as far as possible while still fully touching the ground.

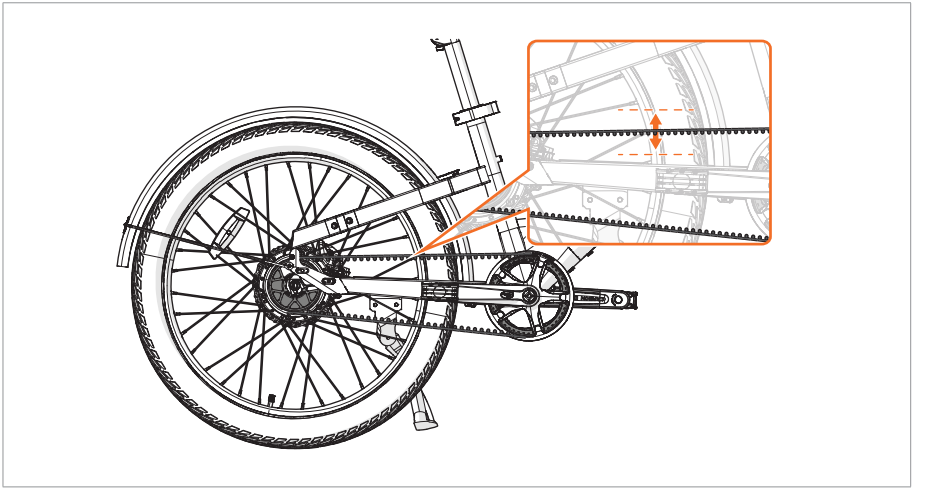
⚠ CAUTION

Ensure that the headlight does not shine in the eyes of road users that are facing you. The light can dazzle other road users, which may lead to accidents.

5.8. CHECKING AND ADJUSTING THE CHAIN OR BELT TENSION

5.8.1 Checking the drive chain or belt tension

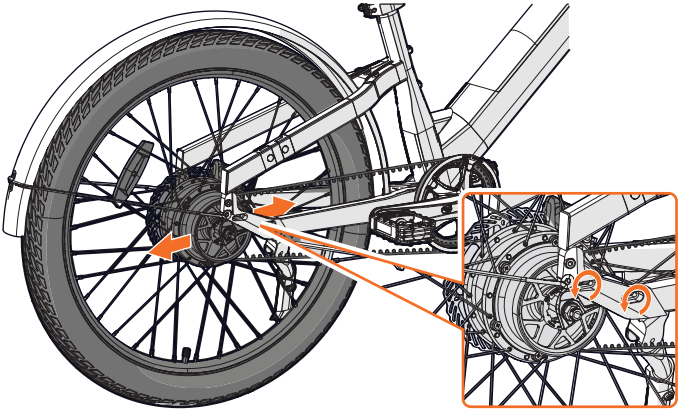
Your e-bike has a drive chain or belt that needs to be properly tension for the best riding experience and to reduce wear. To check the tension of your chain or belt:



Push the drive chain or belt in the middle between the two sprockets down or up. The belt should move about 10 mm down or up if tensioned properly.

ⓘ If the belt moves more than 10 mm, the belt is too loose. If the belt moves less than 10 mm, the belt is too tight.

5.8.2 Changing the drive chain or belt tension



1. Loosen the two Allen bolts on either side of the rear axle. Do not remove the bolts.
2. Pull the rear wheel backwards to tighten the drive chain or belt or push the rear wheel towards the bottom bracket to release tension on the drive belt.
3. When the drive belt is propely tensioned, retighten the four bolts.

5.7. GETTING USED TO YOUR E-BIKE

We recommend giving your e-bike a test run in a place with little or no traffic. This allows you to become familiar with the different assistance levels in a controlled environment. Start with the lowest assistance level and increase throughout the trip.

⚠ CAUTION

Always try out the brakes during the test cycle so you know how hard you must squeeze and how powerful the brakes are. Disc brakes are more powerful than traditional brakes. Always keep in mind which brake levers operate the front and the rear brakes.

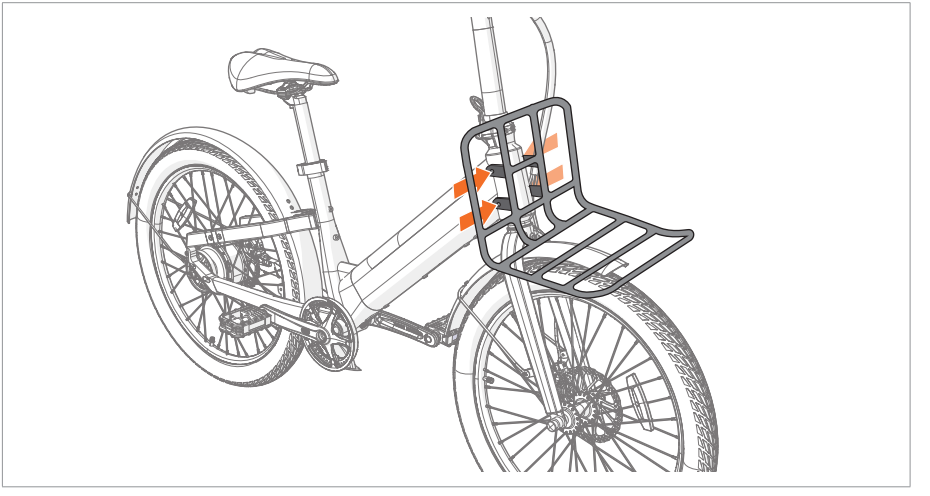
5.8. INSTALLING THE OPTIONAL FRONT AND/OR REAR RACK*

*Separately available as accessory: MR296 Rear rack and MR297 Front rack.

⚠ CAUTION

- The front rack is rated for a maximum load of 10 kg. The rear rack is rated for a maximum load of 25 kg. Never exceed the maximum rated load for the front or rear rack.
- The added luggage on the front and/or rear rack is included in the maximum rider weight (120 kg). Do not exceed the maximum rider weight limit when loading the front and/or rear rack with luggage.
- The front and rear rack are not supposed to be used to mount child seats to.
- Always tighten the bolts to the mentioned torque specifications in this manual.
- Never modify or alter the front or rear racks.
- When loading the racks with items, make sure the items do not cover the reflectors or lights of the bike and make sure there are no loose hanging items that can be caught between the wheels. Always belance the load of items on the racks.
- The added weight of a loaded rack can influence the behaviour of the bicycle. Always carefull test ride the bicycle after loading the racks.

5.8.1. Installing the front rack

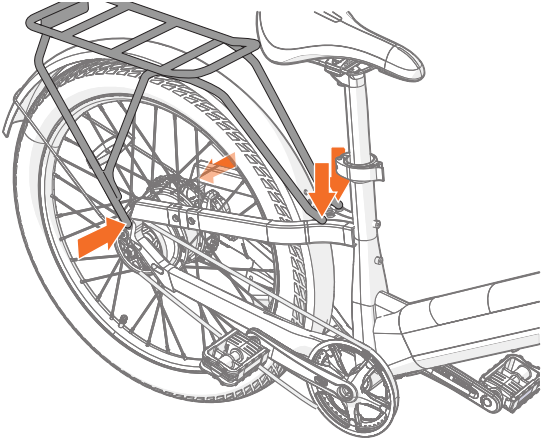


1. Line the front rack up with the bolt holes on the front of the frame.
2. Insert and tighten the 4 bolts (included with the front rack) to 3 - 6 Nm.

⚠ CAUTION

Always make sure the bolts are tightened properly. Check the bolts at least once a month. See Chapter 8.2.1. *Checking your e-bike*.

5.8.2. Installing the rear rack



1. Line the rear rack up with the bolt holes near the rear axle and on top of the seat stay.
2. Insert and tighten the 4 bolts (included with the rear rack) to 3 - 6 Nm.

⚠ CAUTION

Always make sure the bolts are tightened properly. Check the bolts at least once a month. See Chapter 8.2.1. *Checking your e-bike*.

6. USE

6.1. SWITCHING YOUR E-BIKE ON AND OFF

1. Press the power button to switch on the display.
2. Press and hold for 2 seconds to switch off the display.

6.2. SETTING THE ASSISTANCE LEVEL

You can adjust the assistance level while stationary or while cycling. You can view the assistance level on the LCD screen. There are five levels of assistance.

Press the up button to increase assistance level or press the down button to decrease assistance level.

6.3. SWITCHING THE HEADLIGHTS ON AND OFF

Press and hold the up button for 4 seconds to switch the headlights on/off.

6.4. PREVIEWING DISPLAY FUNCTIONS

Press the power button to show the different information pages on the display.

7. AFTER USE

7.1. FOLDING THE HANDLEBAR STEM

1. Open the handlebar stem clamp.

Always ensure the latch is fully engaged.

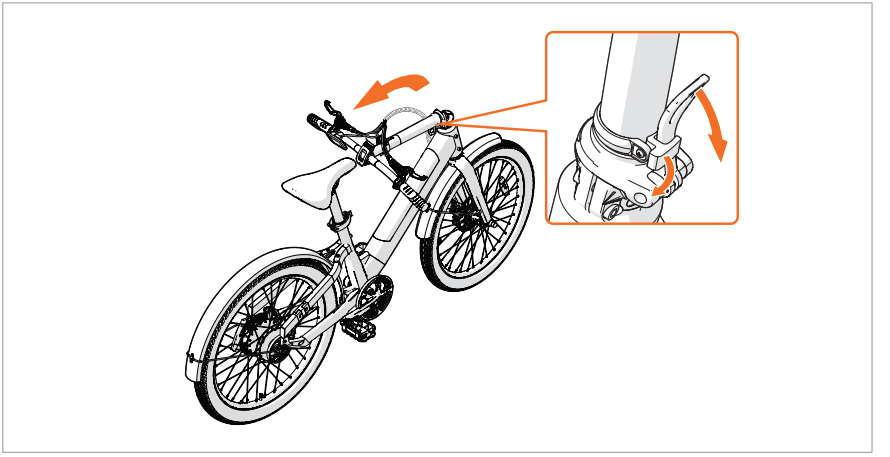
2. Collapse the telescopic handlebar stem to the lowest height.

3. Close the handlebar stem clamp.

4. Pull the handlebar stem safety lock up and open the handlebar stem latch.

5. Fold the handlebar stem.

6. Fold the pedals. Follow the instructions in chapter *5.1.Folding and unfolding the pedals.*



7.3. CHARGING THE BATTERY

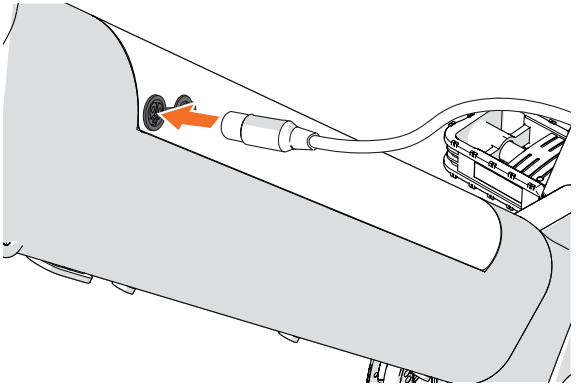
⚠ WARNING

- Only charge the battery with the provided charger. Ensure the voltage of the charger matches the voltage of the battery. Non-matching voltages may cause a fire or explosion hazard.
- Do not use the battery or charger if there is visible damage. A damaged battery or charger may cause an electric shock hazard.
- Do not use the battery or charger on highly flammable surfaces or in a combustible environment. The heat generated during charging may cause a fire hazard.
- Do not use or store the battery and charger near heat sources and highly inflammable liquids. Using or storing the battery and charger near heat sources may cause an explosion hazard.

NOTICE

- Always charge the battery within a temperature range of 10°C - 45°C.
- Always plug the charger into the battery's charging port before plugging the charger into the power outlet. Always disconnect the charger from the power outlet before removing the charger from the battery’s charging port.

7.3.1. Charging the battery in the frame



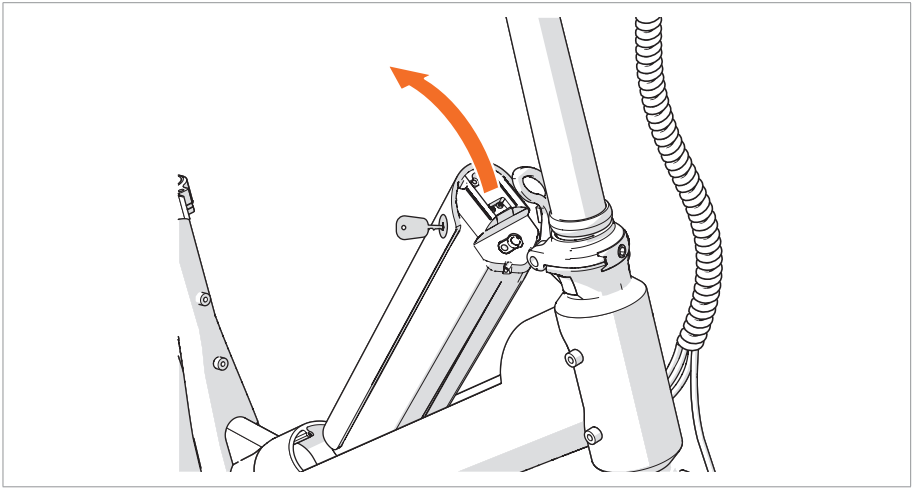
1. Remove the dust cap from the charging port.
2. Insert the appliance plug of the power cable into the charger.
3. Open the cover cap.
4. Insert the charging plug of the charger into the charger port on the frame.
5. Insert the power plug of the power cable into a power socket.
6. (Optionally) switch on the power socket using the wall switch when all cables and plugs are connected securely.

ⓘ The charging indication LED is red while charging the battery and green when the battery is fully charged.

7. Unplug the charging plug when the charging indication LED lights up green.

ⓘ Make sure the battery indicator on the display shows a full charge after fully charging the battery.

7.3.2. Charging the battery separately



1. Unlock the battery lock with the key.
2. Lift out the battery.
3. Repeat the steps in *7.3.1. Chariging the battery via the frame*

NOTICE

- Do not force the battery into the frame. Always ensure the battery is the correct way around. Do not attempt to install the battery the wrong way around. Do not attempt to remove the battery whilst locked into place.
- Always correctly and fully insert the battery into the frame. Inserting the battery incorrectly or incompletely into the frame may damage the battery or the frame.
- Always lock the battery in the frame to prevent the battery from falling out.

- Always make sure the battery and terminals are completely moisture free and dry before installing the battery and or when charging the battery.

8. MAINTENANCE

8.1. SERVICE PLAN

⚠ WARNING

As with all mechanical components, the e-bike is subjected to wear and high stresses. Different materials and components may react to wear or stress fatigue in different ways. If the design 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 colouring in highly stressed areas indicate that the life of the component has been reached and it should be replaced.

It is recommend to have your e-bike checked and serviced by a MiRiDER dealer at least once annually or every six months if you use your e-bike daily. The check-ups and adjustments prevent breakage and costly repairs. Choose a service to have your wheels professionally trued and tensioned as part of the ongoing service level to prolong the life of your e-bike.

It is recommended to have your e-bike checked by a MiRiDER dealer after the first 100 miles or 6 weeks of use, as some parts take time to bed in and may need adjusting to keep optimised performance

Visit **mirider.co.uk/try-a-mirider** for a list of established MiRiDER dealers.
Use the maintenance logbook from chapter to record the service history of your e-bike.

8.2. ANTI-TAMPERING

Definition

To prevent unauthorized modification of EPAC's drive system to the extent possible, so as not to affect the technical requirements and specifications of its functional security.

Liability

If either the consumer or dealer alters any components of the e-bike, we won't take on any responsibility for the risks or liabilities that result from such modifications.
Excluding replacement of non-standard sprockets.

8.3 MAINTAINING YOUR E-BIKE YOURSELF

8.2.1. Checking your e-bike

NOTICE

Listen to the sound your e-bike produces. If something doesn’t sound right or you feel any wobbles/shakes, stop riding your e-bike and identify the problem.

Part	Interval	Maintenance check
Brakes	Before every ride	Check that the front and rear brakes offer sufficient stopping power. Brakes are a crucial part of your e-bike. Regularly check your brakepads and replace worn brakepads.
Tyres	Before every ride	Check that the tyre pressure is within recommended pressure range.
	Monthly	Check for wear and cracks.
Wheels	Monthly	Check for damage.
	Monthly	Check for lateral movement and spoke condition.
Wires	Monthly	Check for visible damage.
Bolts	Monthly	Check for loose bolts.
Drive chain/ belt	Monthly	Check the belt's tension. and check for wear.
Headlight	Before every ride	Check that the headlights work.
Frame	Monthly	Check the frame for visible damage.

8.3. TIGHTENING THE BOLTS

Your e-bike is not indestructible. You may be required to adjust your e-bike whilst out cycling. It's advisable to carry a Allen key multi tool set 2 – 8 mm with you. You may periodically have to tighten a bolt or adjust your bike.

8.4. REPLACING THE INNERTUBE

Your e-bike wheels have innertubes filled with sealant to prevent punctures. If the hole in the innertube is too big, the sealant will leak out along with the air.

When a hole occurs in the innertube, you will need to replace the innertube. It's advisable to carry a spare innertube, pump, and puncture kit with you whilst cycling. Visit our YouTube channel for more information on how to change your innertube. See chapter .

NOTICE

Do not let the rear wheel dangle from the power cable when maintaining the wheel using a cycle maintenance stand. Letting the rear wheel dangle by the power cable may cause irreparable damage. Always disconnect the power cable and wheel completely from the bike before commencing maintenance.

8.5. CLEANING YOUR E-BIKE

⚠ WARNING

Always remove the battery from the e-bike before cleaning. Water may cause an electric shock, fire, and/or explosion hazard.

NOTICE

- Do not use aggressive detergents that may damage the e-bike.
- Do not immerse the e-bike in water or clean the e-bike with a high pressure cleaner.

Clean your e-bike at least once per month to prolong the life of your e-bike. If you commute in wet and muddy conditions or ride off-road more, you may need to increase your cleaning intervals.

1. Clean your e-bike with a soft, non-abrasive cloth and mild detergent using water.
2. Use a fresh clean cloth when cleaning disk rotors to avoid contamination.
3. Clean the reflectors on the e-bike to ensure you remain visible in traffic.

8.6. LUBRICATING PARTS

⚠ WARNING

Always clean of any residual oil from brake pads, brake disks, and tyres. Oily brake pads, brake disks, and tyres can result in longer and unpredictable braking distances.

Your e-bike needs to be lubricated on a regular basis to maintain proper functioning of parts.

Parts	Interval	Instruction
Pedals	Every 6 months	Put 4 drops of light machine oil (20W) between the pedal and crank.
Drive chain[1]	Every 6 months	Put 1 drop of light machine oil (20W) on each connection link of the chain.
Bottom bracket	Every 6 months	Contact a professional technician or your nearest MiRiDER dealer.
Electric motor	Every year	

[1] Only applicable to the MiRiDER 24

The MiRiDER 24 GB3 has a maintenance-free drive belt, do not lubricate the drive belt or sprockets.

9. STORAGE AND SECURITY

9.1. STORAGE

Store your e-bike in a secure, cool, and dry space.
Store the battery and the charger in a dry place at room temperature.

NOTICE

Always fully charge the battery before storing to prevent diminishing the battery life.

9.2. SECURITY

Remove the battery from the frame before leaving your e-bike for any amount of time.
Always ensure your e-bike is locked up securely to avoid theft.

10. TROUBLESHOOTING

Problem	Cause	Solution
Power assistance is not functioning.	There is no power.	Check if the battery is installed correctly.
		Make sure the battery is charged.
		Make sure all cables are connected properly.
The battery is not lasting for a sufficient amount of time.	The battery is not fully charged.	Make sure the battery is charged.
	The tyre pressure is low.	Check tyre pressure is within the minimum and maximum range. Underinflated tyres can cause excess battery drain and premature wear.
	The battery efficiency is reduced after extended use.	Purchase a new battery.
	The power assistance is set on the highest level.	Use the power assistance levels efficiently.

Problem	Cause	Solution
The display is not working.	There is no power.	Check if the battery is installed correctly.
		Make sure the battery is charged.
		Make sure all cables are connected properly.

11. DISPOSAL

Indicates that the product must not be disposed with household waste. Recycle this product in an environmentally friendly manner according to local regulations.

If the e-bike is defective, please contact your MiRiDER dealer. It may still be possible to repair the e-bike. If you still need to dispose the e-bike, please follow the local regulations.

To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle the e-bike responsibly to promote the sustainable reuse of material resources.

Always remove the battery from the e-bike before disposal. The battery may contain toxic heavy metals and meet the requirements of hazardous waste.

12. APPENDICES

12.1. TECHNICAL SPECIFICATIONS

Mechanical configuration

Product name	MiRiDER 24	MiRiDER 24 GB3
Seat height from ground	760 – 920 mm	
Brake system	Front and rear hydraulic disk brake	
Tyre dimension	24 × 2.125 inch	
Frame material	Aluminium	

Battery specifications

Product name	MiRiDER 24	MiRiDER 24 GB3
Battery type	Samsung Li-ion battery	
Battery capacity	36 V / 10.5 Ah	
Battery weight	2.28 kg	
Charging current	3.0 A	
Power consumption	500 uA per charge	
Rated input	10 – 240 V 50/60 Hz 2.0 A	
Rated output	36 V 10 A	
Charging temperature	0°C – 50°C	

Function parameters

Product name	MiRiDER 24	MiRiDER 24 GB3
Maximum motor speed	25 km/h	
Maximum range	100 km – dependant on rider weight and terrain	
Maximum rider weight	120 kg	
Climbing angle	>15°	
Stopping distance (dry conditions)	5 m (speed at 20 km/h)	
Stopping distance (wet conditions)	10 m (speed at 15 km/h)	
Working temperature	-10°C – 50°C	

Motor specifications

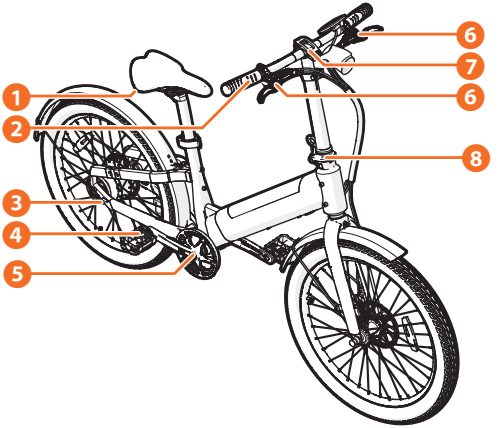
Product name	MiRiDER 24	MiRiDER 24 GB3
Rated voltage/wattage	36 V / 250 W	
Torque	45 Nm	
Maximum rider weight	120 kg	
Climbing angle	>15°	
IP rating	IP54	
Noise emission	< 70 dB(A)	

Rear and front rack specifications

Product name	MR296 Rear rack	MR297 Front rack
Product manufacturer	MiRiDER, Unit 3, Croftwood square, Wigan, WN50LG	
Max. carrying weight	25 kg	10 kg
Max. compatible wheel size	24×2.125 inch	N.A.
Batch number		

12.2. TORQUE VALUES

Take the torque values into account when replacing or adjusting parts, or doing any maintenance.



1. Saddle bolts: 14 - 16 Nm
2. Locking grips: 2 – 4 Nm
3. Rear axle: 40 – 45 Nm
4. Pedal Axel: 40 – 43 Nm
5. Crank Bolts: 30 – 45 Nm
6. Brake Levers: 4 – 5 Nm
7. Handlebar clamp bolt: 10 - 12 Nm
8. Handlebar stem and fork clamp bolt: 10 - 12 Nm

12.3. SPARE PARTS AND ACCESSORIES

The following spare parts are available for your MiRiDER e-bike:

- Hydraulic disc brake set
- Innertubes*
- Mudguards
- Handlebars
- Telescopic seat stem
- Replacement tyres & upgraded tyres
- Wheel magnet
- Brake pad set
- Pedals
- Front rack (see chapter 5.8.1.)
- Rear rack (see chapter 5.8.2)

*The innertubes fitted to your e-bike are Schrader valve and are also available from your local bike store.

To purchase spare parts or accessories, please contact your MiRiDER dealer or visit **www.mirider.co.uk**

12.4. ADDITIONAL RESOURCES

For additional instructional and how-to video's, visit www.mirider.co.uk/videos or visit our YouTube channel **www.youtube.com/@MiRiderUK**

12.5. SOCIAL MEDIA HANDLES

Join our growing MiRiDER community for more exciting content!

Facebook: MiRiDER Community
Instagram: @mirideruk

12.6. EC DECLARATION OF CONFORMITY

MiRiDER LTD
3 Croftwood Square
Wigan
WN5 0LG
United Kingdom

Declares under our sole responsibility that the product:

Product name:	MiRiDER
Function:	Foldable e-bike
Type:	24, 24 GB3

Conforms with the provisions of the following EC directives:
EMC Directive 2014/30/EU
Machinery 2006/42/EC

The following Harmonized standard were applied:
Cycles - Electrically power assisted cycles - EPAC Bicycles
EN15194:2017

This product carries the UKCA and CE Mark, which was first affixed in 2024.

Signed:

Date: 01/01/2024

Position: Sales Director

12.7. MAINTENANCE LOGBOOK

12.7.1. Identification

Product code	
Order number	

12.7.2. Maintenance work

Maintenance		Stamp
Repair		
Comments		
Date		
MiRiDER dealer		
Km cycled		

Maintenance		Stamp

Repair		
Comments		
Date		
MiRiDER dealer		
Km cycled		

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Km cycled		

NOTES

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Version 01
June 2024