



## Owners manual







# Congrats on your brand-new Southbound oryx!

Get ready to e-bike anywhere .

You're about to unbox a robust, versatile and hugely capable e-bike. We hope your oryx brings you many years of battery-powered peddling pleasure, from pathway to precinct to bush, beach and back.

This manual contains useful information about your oryx. Please read and fully understand its contents before assembling and riding your bike. Failure to do so may result in your warranty being voided.

Enjoy the ride!



## Snap and share

We'd love to see all the places you've taken your new oryx. Tag us in your social media posts with **#southboundbikes** and you might just score yourself some free Southbound gear!



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01

# Safety.

Riding any bike on or off-road is inherently risky. Remember to always put safety first and ride within your capabilities.

If your kids use your oryx, please supervise them. These bikes are powerful and heavier than analogue bicycles, so they will handle and brake differently.

Always wear a helmet when riding your oryx and ensure it fits well. We recommend using a quality helmet manufactured by a reputable brand. Using a low budget helmet to protect such a vital part of your body makes zero sense.



## Before you power up and pedal off

Check your tyres, test the brakes and make sure that the battery is sufficiently charged. There shouldn't be any rattles or odd noises when you start to ride.

E-bikes are heavy — pushing them home is not fun. If you're unsure about anything, reach out to Southbound or book in your oryx at your local bike service shop for professional service and advice.



### Power down

Never work on your bike with the power on. Changing tyre pressure, fixing a puncture, replacing an off chain or applying chain lube should only be done with the power off.

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### Check your tyres

Both front and rear wheels should be tightly fitted and tyres inflated to the appropriate pressure.

**0.8 - 1.0 Bar for medium and hard surfaces.**

**0.4 - 0.6 Bar for soft surfaces.**

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### E-bike, not e-boat

Never ride your oryx through fresh water deeper than the top of your wheel rim. This will risk water entering the electrical system, which can cause severe damage and could potentially cause injury to riders.

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### Avoid salt water at all costs

Never ride your oryx through salt water — it is highly corrosive and detrimental to all e-bike parts and frames, as well as the electrical system. So, when riding on the beach, do not let your bike come into contact with sea water.



## 02

# Quick start guide ,

## Get set

Set your seat to the correct riding height. The general rule of thumb is that when your leg is at full extension, there should still be a slight bend in your knee with your pedal at 5 'o clock, not dead bottom.

## Get powered up

Switch on your oryx by pushing and holding the power button on your display screen. Your bike will engage pedal assist in either level zero or 1 by default. Start cycling on level 1 and increase pedal assistance power levels thereafter.

## Get going

Start pedalling with your legs or use your throttle button briefly to gain some momentum. Power will not be supplied to the motor if you stop pedalling or if you hit the brakes.

## Get into gear

Your oryx's gearing can be changed on the right-hand side of the handlebar by using the rapid fire paddles. Pushing the front paddle will engage lower gears — making it easier to ride up hills. Conversely, depressing the rear paddle will engage higher gears, suitable for flatter, faster riding.

Your oryx is still a bicycle. The motor and battery are there to assist you, and shouldn't be used as a 'motorbike' by only pressing the throttle button and not using your legs to peddle.

Switch off your oryx when you are finished riding and stow it in a safe place, away from direct sunlight or excessive humidity.





03

# Using the display screen

The three buttons on the left will allow you to toggle the display between your current PAS level, battery level, current speed and the power the motor is currently using.

1

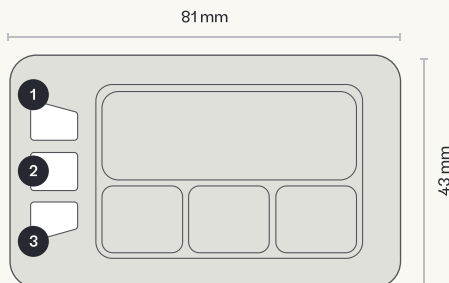
The **top button** will increase the level of pedal assisted speed (PAS). The maximum level is 5.

If your e-bike is fitted with a light, press and hold the top button for a couple of seconds to **switch the light on and off**.

2

The **middle button** is the power switch. Press and hold this button for the screen and e-bike to switch on.

This button can also be used to view the total time, total distance, max speed and average speed.



3

The **bottom button** will decrease the level of PAS. If you want to cycle with the PAS functionality off, select level 0.

Your oryx has a thumb throttle. However, pressing and holding the bottom button on the display will activate "**walk assist**", which is the same as using the thumb throttle.



## 04

# Cleaning and maintenance,

Keeping your oryx clean and well maintained is essential to years of trouble-free riding.

## Keep it clean

Clean your bike when its dirty using a damp cloth, mild detergent and a scrubbing brush for the drive chain.

Avoid using excessive water around the battery area, display screen, electrical connections and harnesses. **High pressure sprayers are a big no-no.**

## Keep it in good nick

Your oryx will require regular maintenance over time, which may include replacing brake pads, worn sprockets, chains or cassettes, and adjusting the cables as they stretch. Maintenance can be done by any reputable bike outlet or service centre.

## Keep it running smoothly

If your bike has a chain, apply chain lubricant after every wash. You can buy purpose-specific solvents for cleaning old chain lubricant off your derailleur, cassette and chain online or from your local bike outlet.

## Keep to accredited agents only

Any required maintenance to your oryx's electrical system (display screen, battery, motor, throttle, control unit, various sensors or any wiring) should only be performed by an accredited Southbound agent.

Southbound may not honour your warranty for work done to the electrical system outside of the network of accredited agents.



05

# Battery care tips ,

1

## Check your battery status

The battery charger light will shine red if the battery is still charging and change to green when it has fully charged.

2

## Charge before you ride

Ensure your battery is fully charged before starting your ride.

Check that the rubber cap is properly inserted back into the charging port before you ride. This will prevent any moisture and water from entering the electrical system and potentially damaging it.

3

## Battery storage

If you do not plan to use your oryx for three weeks or longer, it is preferable to store your bike with the battery partially charged.

4

## Limit your ride time

Limit your ride time so that your battery does not drop below 20% capacity.

## Battery performance

Your bike's battery carries a tremendous amount of power, but it isn't infinite. Battery consumption will vary according to the following main factors:



### Terrain

Muddy or sandy terrain will use a lot more power than hard, smooth surfaces.



### Topography

The steeper the climb, the more power will be used.



### Distance

Longer rides use more power than shorter rides.



### Rider weight

Weight has an impact on power. Lighter riders will have more power at their disposal.



### Level of pedal assistance (PAS)

Level 5 PAS will use a lot more power than riding in PAS 1 or 2.

Depending on these factors, the range of the battery will last between

# 30-85

kilometres



After a few rides, you should have a good idea as to how far you can go and return with at least some remaining battery power.



**e-bike  
anywhere**



06

# Spec sheet,



Leave the city limits in your dust and go fully fat on the 4x4 of e-bikes. Agile on trails, powerful up climbs, and plows through sand, the oryx's all-round capabilities will take you wherever you want to go, easily.

## COLOUR OPTIONS



### BATTERY

48 volt, 14 Ah LG lithium battery



### MAX PAS SPEED

38 km/h



### BIKE WEIGHT

32 kg



### RIDER DIMENSIONS

160 – 200 cm



### ENDURANCE

Up to 85 km (rider and terrain dependent)



### MOTOR

48 volt, 500 watt, 65 Nm, Bafang H550

Visit [southboundbikes.com](https://southboundbikes.com)  
to buy compatible accessories.

Product comparison



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ELECTRIC COMPONENTS

Battery	48 volt, 14 Ah LG lithium battery	48 volt, 14 Ah LG lithium battery	48 volt, 14 Ah LG lithium battery	48 volt, 14 Ah LG lithium battery
Motor	48 volt, 500 watt, 65 Nm, Bafang H550	48 volt, 750 watt, 80 Nm Bafang H720 with integrated dual speed system	48 volt, 500 watt, 65 Nm Bafang H720 with integrated dual speed system	48 volt, 500 watt, 65 Nm, Bafang H550
Display	Key display, colour, 5 speed pedal assist with app integration	Key display, colour, 5 speed pedal assist with app integration	Key display, colour, 5 speed pedal assist with app integration	Key display, colour, 5 speed pedal assist with app integration
	USB charging port	USB charging port	USB charging port	USB charging port
	Water and dust resistant IP65	Water and dust resistant IP65	Water and dust resistant IP65	Water and dust resistant IP65
Controller	Lishui with water resistant plugs	Bafang C101C with water resistant plugs	Lishui with water resistant plugs	Lishui with water resistant plugs
Endurance	Up to 85 km (rider and terrain dependent)	Up to 85 km (rider and terrain dependent)	Up to 85 km (rider and terrain dependent)	Up to 85 km (rider and terrain dependent)

PARAMETERS

Bike weight	32 kg	34 kg	32 kg	34 kg
Rider dimensions	160 – 200 cm	160 – 200 cm	160 – 200 cm	160 – 200 cm
Charging time	4 Amp charger 4 hrs 15 min	4 Amp charger 4 hrs 15 min	4 Amp charger 4 hrs 15 min	4 Amp charger 4 hrs 15 min
Max PAS speed	38 km/h	38 km/h	38 km/h	38 km/h

Product comparison



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BIKE COMPONENTS

Frame	6061 Aluminium alloy	6061 Aluminium alloy	6061 Aluminium alloy	6061 Aluminium alloy
Drivetrain	Shimano Altus 9 speed rapid fire	Belt drive, 46-22 T	Belt drive, 46-22 T	Shimano Tourney 7 speed twist grip
Brakes	Tektro hydraulic disc brakes	Tektro hydraulic disc brakes	Tektro hydraulic disc brakes	Tektro hydraulic disc brakes
Belt/chain	Rust Buster KMC chain	Continental belt (made in Germany)	Continental belt (made in Germany)	Rust Buster KMC chain
Front fork	GTMRK 120 mm air fork	FAT34 HLO 60 mm air fork	GTMRK 120 mm air fork	FAT34 HLO 60 mm air fork
Wheels & tyres	Aluminium 26" x 4.0" fat tyre	Aluminium 20"x 4.0" fat tyre	Aluminium 26"x 4.0" fat tyre	Aluminium 20" x 4.0" fat tyre
Lights	None	Front and rear LED, including brake light	None	Front and rear LED, including brake light

\*Final specifications may differ marginally

WE ONLY USE QUALITY PARTS







07

# Limited warranty

Please read the warranty information carefully.

## How it works

The Southbound limited warranty covers manufacturing faults in materials or workmanship on all new e-bikes in possession of the original owner, from the date of purchase.

For valid warranty claims that occur within the **first 14 days from date of purchase**, Southbound will cover the reasonable cost of labour involved in rectifying the fault.

**After the 14 day** free labour repair period, the owner will be responsible for the labour costs associated with warranty replacements.

## 18 months

Electrical components

## 30 months

Bike frame



Any parts replaced as part of a valid warranty claim will be shipped to the customer or bike dealer by Southbound.

## This warranty will not cover:



Wear and tear from ordinary use.



Water damage from riding or washing your e-bike.



Damage to the frame, components or electrical system resulting from improper use.



Damage as a result of failing to maintain your bike as suggested in this manual.



Damage resulting from operating the bike outside of the maximum recommended parameters as per the detailed spec sheet in this manual.



Damage to your bike or any of its components resulting from modifications or the fitment of accessories not obtained from or approved by Southbound.

This warranty is limited because the sole remedy provided is limited to the replacement part or component, and if applicable, the labour cost as described in our 14 days free labour period.

This warranty will be voided should the bike or any of its components be reprogrammed or altered to improve performance. Unauthorised repairs or repairs attempted by an unauthorised technician may also result in the warranty being voided.

Southbound will in no way be liable for any consequential, incidental or other costs or damages including but not limited to damages for personal injury, property damage or economic losses, whether based on contract, warranty, negligence, product liability or any other theory.

## The following are examples of ‘wear and tear from ordinary use’ and are not covered by the warranty:

- Punctures, flat or worn tyres
- Broken spokes
- Worn brake pads
- Worn belts and chains
- Worn wheels, sprockets, bottom brackets, derailleur hangers, jockey wheels and any other drivetrain components (for belts and chains)
- Sliding bearings and other bearings
- Lights and lighting systems
- Broken kickstands
- Worn handlebar grips
- Replacement hydraulic oils and lubricants
- Gear shift and brake cables
- Paint and parts finishes, e.g. scratches and dents
- Rust to the frame, rims and drivetrain resulting from improper use and maintenance
- Battery management systems (BMS) that have fused or shorted resulting from power surges or load shedding. We strongly recommend using a surge arrestor to protect the BMS
- Cracked frames or carriers damaged resulting from improper use, e.g. seat post shims not inserted properly or exceeding carrying capacity of racks



### Warranty claims

All warranty claims must please be emailed to [info@southboundbikes.com](mailto:info@southboundbikes.com) with a brief description and video/photos depicting the fault.

