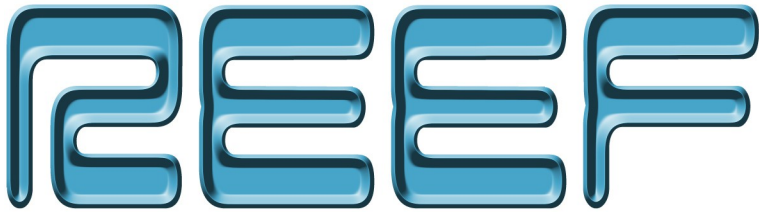


REEF

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USER MANUAL



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INTRODUCTION

Congratulations! You are now the owner of a REEF Bike!

We would like to welcome you to the REEF organisation. Australia's longest running electric bike brand, since 2005, the beginning of electric bike technology. REEF has been developing the latest and the greatest technology for the Australian market.

You're one step closer to realizing a whole new way of commuting that is **fast, fun** and **friendly** to the environment.

Riding an electric bike is also **great for your health**.

Combine the power of an electric charged battery with pedal power, and you get **transportation and a workout** at the same time...What could be better?

REEF Commitment to Quality.

Built with the best components and latest technology, giving you, our customer the best product and service for years to come.

Please take some time and read this manual. It explains how to take care of your bike and enjoy riding safely for many years to come.

Have fun & ride safe!

The REEF Bikes Team

REEF

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Australian Road Laws

Reef Bikes are designed in Australia to meet strict Australian Road and Safety Guidelines.

You can ride Reef Bikes on Australian roads, as our products comply with RTA and Government specifications, which are as follows:

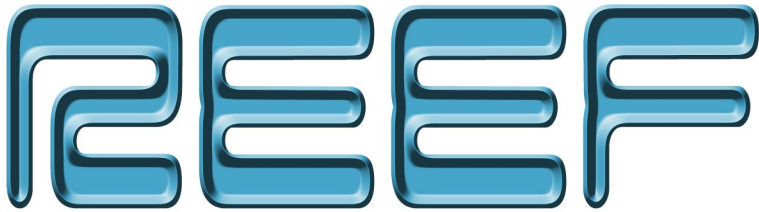
- Motor must be 200 Watts with Throttle
- Motor can be 250W with PAS only
- Electric Bicycle must look and function like a regular bicycle
- Bicycle must have pedals

When riding on the road, Australian road laws must be followed.

- User must check brakes, tyres, and all nuts are tightened before riding
- User must regularly get bike professionally service and maintained
- Buyer must get bike assembled by a professional before riding
- Riders must follow the same road rules as regular bicycles
- A Helmet must be worn at all times

RIDE SAFE





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ASSEMBLY

For safety the buyer must have their bike assembled by a professional.

Assembly Guide

Unpack the bike from the box

Be careful not to lift bike as it is heavy.

Be careful not to scratch yourself on the carton staples.

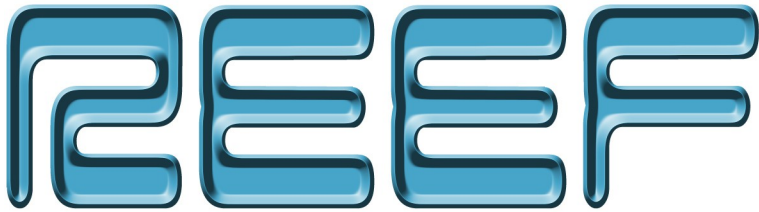
Remove the packing material around the bike and stand the bike on a clean flat surface.

Be sure to keep every part included in the box. Discard box and packaging material only.

Check the box contains the Reef Bike plus the following:

1. Bike
2. Battery
3. Charger
4. Seat
5. Pedals
6. Keys*

To assemble the bike, you will need Allen Keys, and Spanners.



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ASSEMBLY

Front wheel

Insert the front wheel into the front fork, ensuring that it is properly seated in the dropout slots. If your bike comes with a Quick Release Axle, insert the axle through the wheel first, with 1 spring on each side of the wheel. Tighten the nuts alternatively on both sides until the wheel is secured. Tightening torque 35 Nm.

Handlebars

*Loosen the 4 screws on the handlebar clamp, insert the handlebar through, center the handlebar, and tighten the clamp screws, to secure your handlebar in position.
Tightening torque 35 Nm*

Seat post

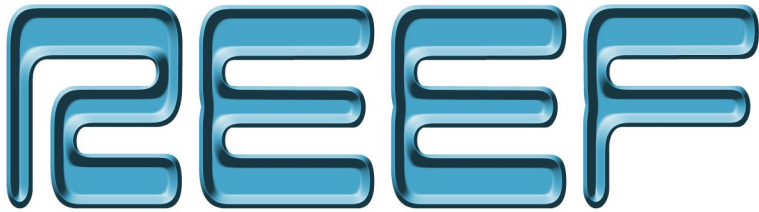
Insert into the seat tube of the bicycle frame and align. Tighten clamps and ensure seat is firmly fastened. Tightening torque 16 Nm. Do not adjust the seat post beyond its maximum extension mark. You can adjust the tilt of the seat with the screw underneath the saddle.

Pedals

Pedals are marked "L" and "R" for left and right respectively. Screw in clockwise for the "R" pedal and counter-clockwise for "L". Tighten both with a wrench firmly but not excessively as the crank threads are made of aluminum alloy.

Front Mudguard*

The supports are attached to the sides and top of the front fork, and must be screwed into the fork, the mudguards must not be touching the tyre.



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ASSEMBLY

Brakes

One of the most important safety features on the bicycle. To minimise the risk of injury, its vital to ensure they are correctly tightened.

V Brakes

Ensure that the V-brake pads are parallel to the rim, make sure the main cable loops through both sides of the brake, then tighten the brake cable mounting bolts. Fine tune cable tightness. Squeeze brakes to test its responsiveness.

Disc Brakes

Models that come with disc brake options, check that the wheels rotate freely without touching the pads. Adjust brake cable tension with screw clamp to fine tune tightness. Test for brake responsiveness.

Drum Brakes

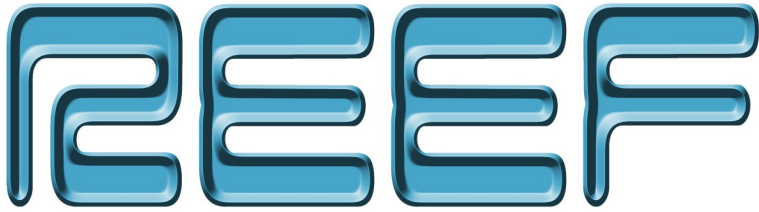
Models that come with drum brake options, connect the brake cable through the brake caliper clamp, tighten cable, and clamp in position, check that the wheels rotate freely without touching the pads. Adjust brake cable tension with screw clamp to fine tune tightness. Test for brake responsiveness.

Tyres

Ensure that the tyres are inflated to the correct pressure which is written on each tyre. Well inflated tyres enhances the comfort, safety and efficiency of your ride.

Electrics

Check all electric cables are connected. Each cable can only be connected into one spot. Make sure to line up Arrow and Pins before pushing cables together. There are cables at your rear motor and at your handlebars which must be checked.



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CHECKLIST

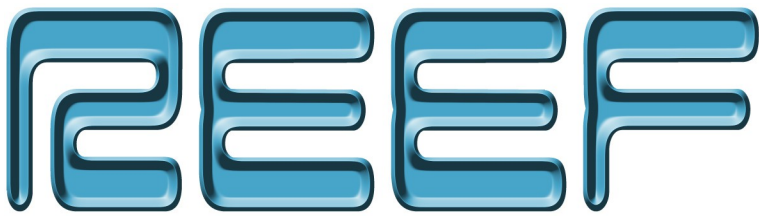
While cycling, it is your responsibility to be attentive of your environment and traffic rules, as this concerns the safety of all who share the roads, especially you.

1. Wear shoes that stay on your feet and grip firmly to the pedals. No barefoot or sandals.
2. Dress to be visible on the road and avoid loose clothes that will tangle with moving parts of the bicycle.
3. Keep your speed at levels appropriate to road conditions
4. Be aware of wet weather conditions, as these affect braking distance. Brake earlier than you normally would on dry roads.
5. Familiarise with the traffic rules in the State you are riding in.
6. Avoid cycling in poor weather and visibility conditions such as fog, night, heavy rain and snow. Lights, and high visibility clothing are needed in these conditions.
7. Familiarise yourself with the usage of the bike and how to maintain it.

Inspect

Before every ride, make a quick inspection of your bike's mechanical and electronic features. Do not ride the bike, if you have not checked all parts are tightened correctly.

1. Frame & fork Visually check for damage, do not ride if bent or fractured.
2. Wheels and tyres, check for missing or damage spokes. Make sure spokes are correct tightness before riding. Feel spokes to ensure tightness. Wheels should be true (straight) and tyres inflated to its correct pressure.
3. Handlebar and stem Tightened firmly in position, ensure the grips are firmly seated.
4. Squeeze brake levers, to test brakes are good, gap between brake blocks and rims should not exceed 2mm. Brake cables should remain unobstructed by anything.
5. Chain Turn crank arms to ensure chain runs smoothly. Keep the chain lubricated and clean.
6. Make sure pedals and crank arms are tightened up before riding. If not tightened before riding it will cause damage to these parts, and be a safety risk.



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BATTERY CHARGING

Before your first ride, the battery needs charging.

After every ride its best to charge your battery again, keeping it topped up all the time.

When not using the bike for more than 2 weeks make sure to keep your battery charged. Do not leave your battery flat and uncharged, as this will kill your battery cells.



Plug the charger into the batteries charging port. If your battery is inside your bike frame, there will be a charging port on your bike frame.

Then connect your charger to a surge protected power board. And turn on the power to the charger.

Check the indicator lights on the front of the charger.

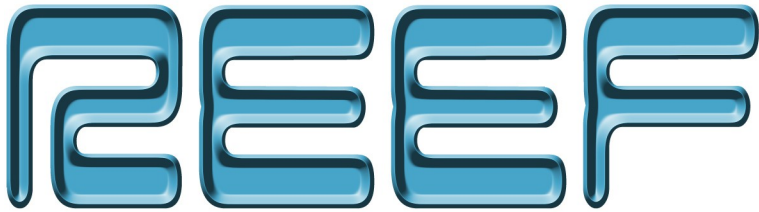
RED light indicates that the charger is connected and charging.

GREEN light indicates that the battery is fully charged

As Lithium Ion batteries do not suffer from memory effect, it is not required for the battery to be empty to commence a recharge. Top-up charging every time you've completed your cycle ride is recommended. Sometimes after temporary disconnection, the charging status light may give a false green reading. To verify that your battery is fully charged, switch the charger off, wait for the charger lights to go out and switch it back on again. The charging status light should quickly return from red to green, when the battery is fully charged.

Battery charging is automatically regulated, there is no danger of overcharging. We advised that you disconnect the battery and switch the charger off when the charging process is completed.

Only use the charger supplied by Reef Bikes.



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HOW TO USE

Your first ride

Before you wheel your bike out into the world, we recommend you practice handling the bike in a safe area away from obstructions and traffic. The motor may look small, but it's powerful! You'll be riding faster than you think.

Turn On Bike

To turn on your bike, Press The ON Button next to your LCD Screen Display on your handle bars. Hold this button down for 3 seconds, and your screen will light up. Now your bike is on and ready to motor. Some models may need the Key to be Turned On from the battery before. Make sure the hand throttle is not engaged when turning on.

invisiTRON series will turn itself On and Off Automatically.

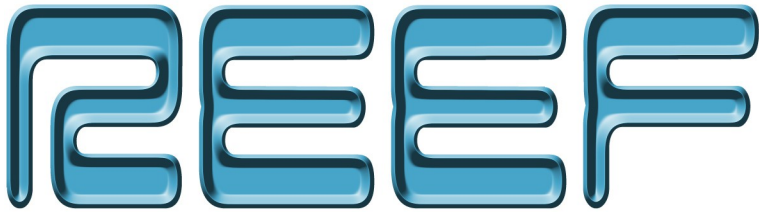
Hand Throttle Mode

The motor runs as soon as you turn the hand throttle. Ensure that you are seated and ready to ride off before you use the throttle. Using hand throttle only will reduce your batteries distance per charge. Do not Hand Throttle from a standing start up hills, as this will destroy your motor. Use your pedals first to get started. invisitrON series does not have Hand Throttle mode.

Pedal Assist System (PAS) Mode

As you pedal, rotation on the crank is picked up by a sensor. This allows the drive system to be engaged. The motor will automatically help you along while you pedal in PAS mode. You can adjust the level of Power the motor gives you in PAS Mode using the buttons on the LCD Screen control. Without using the hand throttle. With PAS mode and efficient gearing you will get the best distance per charge.

Inclines, wind, stop and starting, heavy weight, incorrect gear selection, and many other factors will all contribute to reduced distance per charge.



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HOW TO USE

LCD Screen Control

The LCD screen will display your battery level, speed, and also read out of distance and time. Using the LCD screen control you will also be able to adjust the power level up and down for your pedal assist system.

The hand throttle overrides your pedal assist system.

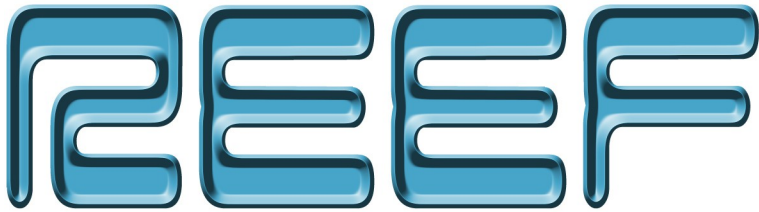
As you are using the motor, you will notice the level decrease on the battery meter.

Bike Lock

We recommend you use a quality bike lock when parking your bike.

Gears

The gears are just like a regular bicycle gear system. To change gears, you use the shifters on the handlebars. When starting make sure the gear is in a low gear, 1 – 3. When picking up speed you can then shift up to high gears, to maintain your speed easier, using gears 4 – 7. When approaching a hill, gear back down to a lower gear, step by step. As lower gears are easier to pedal, it will help you pedal up hills more efficiently.



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MAINTENANCE

Maintaining your bicycle ensures you'll get the most out of every ride and out of the entire life of your REEF bike.

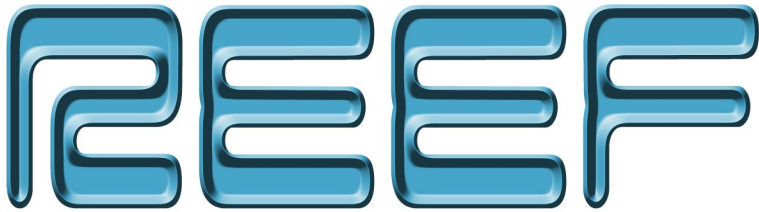
Maintenance should be done by a professional bicycle service center. To keep your bike safe for you and the public.

Before every ride, make sure a full safety check is performed. If anything seems wrong do not ride the bike.

Regular maintenance must be performed on your bike. If this is not done, you are putting your own safety and the safety of the public at risk.

Important items to maintain for your safety is the Brake System ,Tyres, Spokes, Gearing, Frame stability, Suspension Forks, Steering, Handlebars and Stem, Seating, Rust, Corrosion, Battery, Motor, Electrics, and all other nuts and bolts.

This user manual is just only a guide, and only a professional bicycle mechanic should look after your bikes safety and performance.



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WARRANTY

Release and Waiver of Public Liability and Injury

Riding an electric bicycle or scooter can be dangerous, and cause injury and death, to you the customer and to others in the public. By buying any product, bicycle, electric bicycle or scooter from Reef Bikes, you the customer take responsibility of your own safety, and the safety of the public. You agree to follow your local governments road rules and laws. You agree not to ride an electric bike and scooter where it is not allowed. If you have purchased the Offroad Predator model, you agree that this is not a road legal bicycle, and must not be used on roads. You the customer agree that you have read and understand all the risks and agree to waive and release Reef Bikes from any responsibility and liability to you the customer and the public.

Warranty Claims

If your Reef Bike product needs repair and is covered under the Warranty Conditions, the customer will have to produce the Proof of Purchase Document. The Warranty Claim form must be submitted. All warranty claims have to be approved by Reef HQ. Warranty is only covered from the store you bought the bike from. Warranty is not covered in any other Reef Dealer or Service Center, only from the original store you purchased your bike from.

If you placed your order online, phone, or directly from Reef HQ, your warranty is only covered by Reef HQ, and not any of our dealers and service centers. The cost of sending your bike to any of our service centers is at the customers expense. Your item will be assessed only by REEF HQ to see if it complies with warranty terms.

Please read the Warranty page for details on Reef Bikes Warranty Terms and Conditions.

How The Warranty Applies

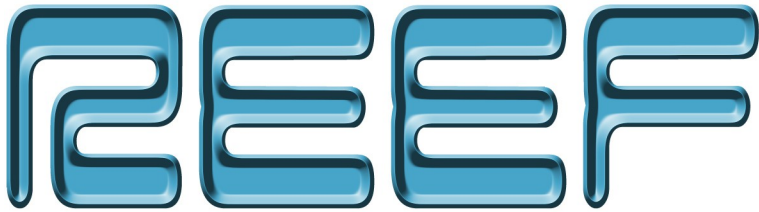
As the manufacturers, we warrant against possible manufacturing defects, provided the following conditions are satisfied:

- ⌚ Warranty Claim Form must be submitted for approval
- ⌚ Proof of purchase. The warranty starts on the date of purchase.
- ⌚ Only the first owner is entitled to the warranty.
- ⌚ The claim can only be assessed by Reef Bikes Headquarters

3 Years Warranty on the Bike Frame only.

1 Year Warranty on all other parts, mechanical and electrical parts.

1 Year Warranty on the battery, and only if capacity is under 5% of original rating, or if it does not turn your bike on at all. This can only be verified by the REEF Bikes Headquarters.



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WARRANTY

Warranty Terms and Conditions

When the bicycle is used negligently or results in damage due to traffic accident, your bicycle is not covered under warranty. When your battery starts to lose capacity and runs for less distance, this is not covered under warranty. Top Speed is not covered under warranty, if your bicycle does not reach estimated top speeds, this is not covered under warranty. Distance traveled per charge is not covered under warranty, if your bicycle does not reach the factory estimated distance advertised, (this is only an estimate) and can vary greatly depending on how you use the bike, this is not covered under warranty. Batteries do lose capacity over time, capacity loss will not be covered under warranty. If the battery pack is used incorrectly or tampered with, this will void your warranty. If you have not charged your battery regularly, if you have left your battery sitting unused for over a month, this will void your warranty. If you have damaged your charger or battery by incorrect use, this will not be covered under warranty. We do not guarantee your bike will be able to power up all hills, and the degree and duration of incline will not be covered under warranty. Damage ascribed to normal wear and tear and maintenance. Wear and tear and maintenance parts that are not covered under warranty include: Tyres, Tubes, Brakes, Brake Pads, Wheel Spokes, Derailleur Tuning, Gear Adjustments, Bottom Bracket Tightening, Handlebar adjustments, chain, and general tightening all nuts. Poor maintenance will void your warranty. Rust and corrosion is a result of poor maintenance, and will not be covered. Modifications to the bicycle and components will void your warranty. Damage due to external causes, or act of nature will not be covered. Any minor scratches, marks or imperfections will not be covered. If the bicycle is put up for hire, or used commercially this will void the warranty. Compensation for any type of loss and any costs incurred will not be covered. Reef Bikes will only provide the spare replacement parts. Parts only warranty cover. Parts will be replaced by similar when in stock. Any labour will not be covered and is at the cost of the customer. Repairs that have not been approved by Reef Bikes will not be covered.

How The Warranty Covers

Original defective parts that are sent to REEF Service Centers for assessment will be replaced by the same or similar value part. Labour and transportation charges are not included. This is accepted by the owner. REEF Bikes exclusively makes the decision whether or not the warranty applies. Warranty form must be submitted for approval.

Returns, Repairs & Replacements

We do not accept any returns. All Products are guaranteed to work on arrival, as they are quality checked and tested before delivery. If in any case a part of your product is not working on arrival it will be assessed by REEF HQ and repaired under warranty. The buyer must return the goods at their own expense to be assessed and repaired.

Refund Policy

We do not accept Refunds. Please choose carefully. We do not give refunds if you simply change your mind or make a wrong decision. If your item is faulty, your issue will be assessed and solved under warranty.

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FOLLOW US

At REEF Bikes, our mission is to produce the best innovative electric bike technology.

From the fast life in the cities to the slower paced regional and rural areas, our range of electric bikes will suit all lifestyles and ages.

We believe electric bikes are a fun, fast and easy way to commute. They also open up the world of cycling and all its many benefits to people who wouldn't normally take up regular cycling.

More and more people around the world are beginning to realize just how **fun, easy and beneficial** it is to ride an electric bike. We hope you will continue to spread this message...

Tell your friends

Get them on board as well.

Join our Facebook Group: <http://www.facebook.com/reefbikes>

Follow us on Twitter: <http://www.twitter.com/reefbikes>

Visit Our Website: <http://www.reefbikes.com.au>

Contact Us

If you have a questions, or need some help, feel free to contact us! We always look forward to hearing from our happy customers!

CustomerService@ReefBikes.com.au

www.ReefBikes.com.au