

Amp'd Bros

**LIL
RIPPA**

User Manual

Welcome

Welcome to the Ampd Brothers Family and a Huge Thanks to You for your recent purchase with us, but even more importantly for making the leap to a smarter more exhilarating method of movement!

This manual is designed for LIL RIPPA bike models only. Please read and understand all parts of this entire manual before operating the e-bike for the first time.

If you have any questions or suggestions after reading this guide, please contact us by email or a phone call!

Please note that this manual is not intended as a detailed service, maintenance or repair manual and is a general guide only. We highly recommend that your electric bike is regularly serviced by a qualified technician. Please seek assistance from a qualified bicycle shop, mechanic or an authorized Ampd Brothers dealer.

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Safe Operating Tips

- Always wear an approved helmet while riding your e-bike and follow the helmet instructions for fit, use and care of your helmet
- Please make sure you know all local traffic laws. It's the rider's responsibility to strictly obey them
- Check your e-bike for proper fit and installation, normal operation, loose parts and defects before riding
- When riding on wet and slippery roads, please drive slowly and avoid sudden braking
- Please ride cautiously on rainy days and try not to ride in areas where the water depth exceeds the motor's central axis to avoid water entering the motor
- When turning, please turn on the signal lights and slow down the speed. When riding at night, please turn on the headlights
- Remember to turn off the power after riding. Also remember to lock your e-bike to avoid unnecessary losses
- Check whether the battery is sufficient in time to avoid affecting the next ride
- Clean up water stains on the bicycle in time after riding on rainy days to prolong the life of spare parts
- Please do not disassemble or change the whole vehicle circuit by yourself.
- In any abnormal situation, the user can use the main power switch to turn off the power supply of the whole vehicle to ensure safety

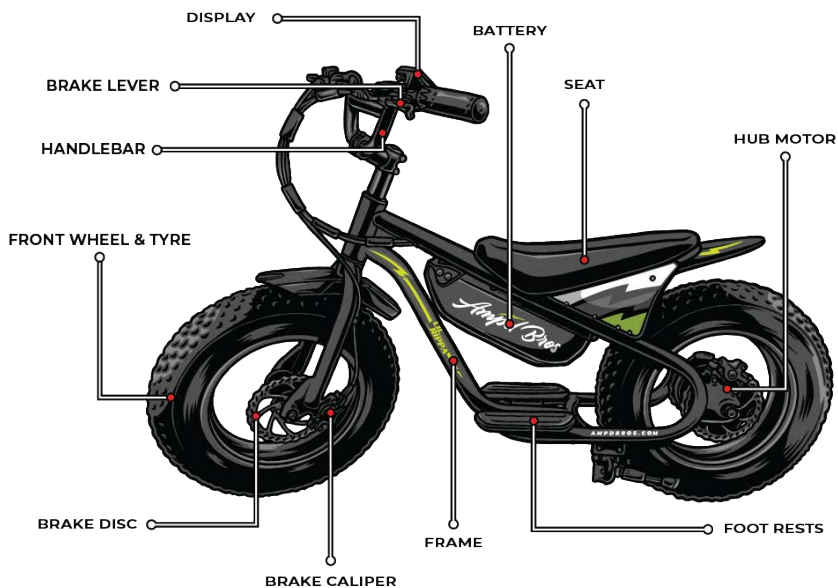
Safe Operating Tips

- Never carry anything which obstructs your view or could affect control of the bike
- Never drive the e-bike with one hand or ride aggressively as it can cause or lead to dangerous riding situation
- The charger should only be cleaned with a dry cloth. Never use a wet cloth, oil or any other liquid
- Children under the Age of 16 should not operate this electric bike
- Have a qualified professional bike mechanic to perform maintenance and servicing of your e-bike
- Most Australian States and Territories have local laws governing the use of Electric Bikes. You should check with your local authority before riding your electric bike, to understand where you can ride it, what speed your allowed to travel and what safety precautions you have to observe whilst riding it.
- Your bike can lose brakes and/or power during your ride at any time due to low battery, mechanical failure, electrical or other interference. For this reason, you should only ride at speeds which allow you to safely stop without power or brakes.



Regular inspections and tune-ups are important to ensure that your electric bike is in good condition!

Accessories Diagram



Technical Specification

Items	Details	Items	Details
Bike Model	LIL RIPPA	Motor	High Torque Brushless Hub
Power	500W	Voltage	36V
Frame Material	High Carbon Steel	Battery Capacity	13Ah
Net Weight	28KG	Battery Type	Lithium Battery
Max load	150KG	Charging time	5-6 hours
Tyre Brand	CHAOYANG	Display	LCD Color
Tyre Size	16x4.0" Fat Tyre	Brakes	<ul style="list-style-type: none"> ● Front and Rear Disc Brake ● Hydraulic Brake
Gear	<ul style="list-style-type: none"> ● 3 Gears 	Package size	140*26*79cm
Range	30-50KM - Varies from rider, loading, terrain and conditions		

* Specifications Subject to Change

Assembly

List of loose parts & contents

Contained in the bike box

- Semi - Assembled Bike
- Front Tyre
- Handlebar
- Fender (Front & Rear)
- Parts Box including:
 - ❑ Battery Charger
 - ❑ Battery Keys(2)
 - ❑ Front Wheel Quick Release
 - ❑ Basic Tools



Step 1 Bike Standing Display status diagram

- We recommend you to use a bike stand for ease of assembly
- Please carefully use scissors to cut off the zip ties, ensuring not to scratch or damage the bike or any components

Step 2 Install the Handlebar

- Rotate the stem if it is not perpendicular to the fork and make sure it is facing towards the front of the e-bike
- Tighten the stem's bolts to secure it to the head tube
- Completely remove the stem's handlebar clamp bolts
- Center the handlebar in the stem, please check the handlebar orientation is correct
- Using the hex key to tighten all four bolts to hold the handlebar at the desire angle

Assembly

Step 3 Install Front Wheel on Fork

- Mount the wheel to the fork, carefully

guiding the brake pads onto the rotor.

The axle should fit into the fork snugly

- Insert the quick release lever to the hub, please notice the direction of the spring
- Tighten the quick release bolt until considerable force is needed to close the quick release lever.

- Tighten the bar



Step 4 Install Fender



- Unscrew the bolt at the center of the top of the fork
- Clamp the fender mount between the locking bolts and frame mount bracket
- Tighten the nut and being sure is center above the wheel

Display



Rotate the throttle to move the bike at the desired speed. It has five different gears. Pushing the +/- buttons the gears change from 1-2-3-4-5. To slow down, push the brake lever and turn the throttle handle anticlockwise. Turn the key to turn off .

1.power-on and power-off

Long press the key  to turn on,long press the key  again to turn off.

When the bike stop and the instrument is not operated for 10 minutes, the instrument will automatically shut down and turn off the power. (Shutdown time can be set)

Press and hold the key to turn on the instrument; press and hold the key again to turn off the instrument.

Display

2.Key Operation




After power on, short press the key  to increase the gear

Short press the key  to decrease the gear.

Fault code

E-001	motor failure
E-002	Throttle failure
E-003	Controller failure
E-004	Brake failure
E-005	Controller undervoltage
E-006	The display does not receive the controller signal
E-007	Controller does not receive display signal

Parameter Settings

Long press button  +  at the same time to enter /exit the setting parameter; after entering the setting, press  briefly to go to the next parameter and adjust the value by up and down keys.

Display

➤ Setting

P01	Light	1-3(brightest)
P02	Mileage unit	0 for km; 1 for mile
P03	Voltage	24V, 36V, 48V
P04	Dormancy	1-60 minutes, 0 for no sleep
P05	Gears	UP: 3.5.9 gears Down: with/without 0 gear
P06	Wheel Size	Min: 0.1 inch
P07	Magnets setting	1-99
P08	Speed Limit	0-50(unlimited)Km/h based on km mode
P09	Pedal start engaged/ Pedat start disabled	0 for Pedat start disabled 1 forPedal start engaged
P10	Drive mode setting	0 Driven by gear 1 Driven by handlebar 2 Coexist(Recommend)
P11	Assist sensitivity setting	1-24
P12	Starting torque setting	0 weakest, 5 strongest
P13	Booster disk magnet type setting	5,8,12
P14	Controller current limit value setting	0-20A (12A default)
P99	One-touch recovery function	long press the "up" button", the instrument restores factory settings
ODO	ODO Zero function	"Up" button to zero the total mileage of the meter

Battery Tips

Lock / Unlock the battery

Turn the key counterclockwise to unlock the battery. Clockwise to lock the battery.

Remove the battery

After unlocking the battery, tilt it to the left and push forward to remove the battery. To return the battery, insert back into the frame housing until it clicks into place. Do not forget to lock the battery.



Charging the battery



- Connect to the battery to the charger
- Connect the charger to a power outlet
- The charger indicator light has two types.

When charging is in progress the indicator light shows red; after fully charged (5-6 hours), the light shows green.

Battery level display:  

Charging tips

- Please store and charge your battery in a dry location. Do not exposure the battery under water, humidity, and damp conditions
- Regularly check and maintain the electric contact!
- Please note that it is normal for small sparks to appear when the battery is connected to the charger for charging. No worries!

Charging safety

- Use original charger. Do not use another brand or model of charger for charging.



Battery Tips

Charging safety (Continued)

- Do not immerse the battery in water
- Please charge in a safe environment
- Charge the battery at an ambient temperature of 0-35°C
- Do not charge more than 12 hours to avoid affecting battery life
- Please note that the power rises quickly in the early stage of charging and slow in the later stage.
- During the charging process, the charger has a temperature rise effect which causes temperature rising in surface
- Keep the battery out of reach of children and pets
- Never try to open the battery

Battery storage

- Please store the battery at an ambient temperature of 0-25 °C. Do not store the battery in an environment ≥ 40 °C, otherwise it will cause irreversible capacity decay of the battery
- If the e-bike is not used for a long time, the battery must be taken out and stored separately. Please regularly maintain and charge battery. Otherwise, the battery may be completely exhausted and irreversible damage may occur
- Avoid storing batteries in places where there is a risk of falling. Falling down can cause uncontrollable damage to the interior of the battery and may cause the battery to leak, heat, smoke, catch fire, or explode
- Keep the battery and charger away from water and heat sources

Regular Inspection

Routine safety inspection

- Tyre: pressure value, tyre wear level (do not inflate past max psi)
- Brake system: brake free stroke, brake fluid leaks, brake pads and brake disc wear, brake power-off switch
- Horn: circuit solder joints and insulation
- Headlight: installation position, irradiation angle, wiring, insulation
- Display: display indication, wiring
- Fastener: whether the nuts and bolts are fastened, whether the pedal is firm, and whether the handle is tightened
- Check the speed control: stroke position

Structural inspection

- Inspection of front and rear wheels: cracks and deformation
- Handlebar inspection: rotation, rotation range
- Frame inspection: welding points, nut tightening
- Front fork inspection: tightening condition, bearing
- Inspection of front and rear shock absorption: shock absorption stroke

Important parts

- Lithium battery inspection: voltage balance, insulation
- Motor inspection: end cover, bearing, signal wire, motor circuit, machine edge shell
- Controller check: under voltage, over current protection, power failure
- Charger inspection: charging current, charging voltage

Troubleshooting

Symptoms	Potential causes	Common method
No power indication when power on	<ul style="list-style-type: none"> • Short circuit of fuse • Poor contact between the power plug and the battery 	<ul style="list-style-type: none"> • Check whether the fuse needs to be replaced • Check if the connector is loose
Motor not responding when the bike is powered on	<ul style="list-style-type: none"> • Low battery voltage • Half-hold the brake lever, causing the power-off switch to activate 	<ul style="list-style-type: none"> • Fully charge the battery • Do not hold the brake lever when starting
Slow driving or insufficient continuous mileage	<ul style="list-style-type: none"> • Low voltage of lithium battery • Insufficient tyre pressure • Frequent braking, starting, overloading • Lithium battery aging or normal degradation • The ambient temperature is low, and the battery capacity is reduced 	<ul style="list-style-type: none"> • Check if the plug is in bad contact during charging • Check tyre pressure every time you ride • Develop good driving habits • Replace the lithium battery • It is normal

Troubleshooting

Symptoms	Potential causes	Common method
Lithium battery does not charge	<ul style="list-style-type: none"> Poor contact between charger plug and lithium battery socket The charger is damaged 	<ul style="list-style-type: none"> Check if the plug is loose Replace the charger
The vehicle has abnormal noise	<ul style="list-style-type: none"> Loose screws in various parts Wear of moving parts and fixed parts The bearing is damaged or broken due to loss of oil 	<ul style="list-style-type: none"> Tighten the screws of each part Check whether there is abrasion on each part Lubricate or replace bearings
The brakes are not working	<ul style="list-style-type: none"> Wear of brake shoes or brake discs Insufficient oil brake fluid Displacement of the brake zipper 	<ul style="list-style-type: none"> Replace the brake shoe or brake disc Replenish brake fluid Adjust the brake zipper

Parts	Time	Warranty
Motor	1 year	Hall original burnt out, quality dysfunction
Battery	1 year	Unable to charge and discharge, the detection capacity is less than 60%
Controller	1 year	Disfunction
Display	1 year	Dysfunction, unable to open, or garbled characters
Speed sensor	1 year	Loss of assist function
Front axle, bottom axle, flywheel	1 year	Material fracture
Power off brake lever	1 year	Loss of power-off function
Speed control	1 year	Loss of power-off function

What Our Warranty Covers:

1. Manufacturers Faults, defects and/or Failure
2. Original Purchasers of Product where a Receipt is Presentable

Warranty

What We Don't Cover:

1. Damage or Failure due to misuse (eg. freestyle activities)
2. Damage caused by failure to service or uphold regular maintenance
3. Damage caused from water, natural disaster, fires, storms or floods
4. Damage caused from foreign objects or debris
5. Damage caused by incorrect fitment, installation or assembly
6. Damage caused during freight (Please opt for freight insurance at the checkout if you require)
7. Damaged caused by failure to uphold frequent maintenance
8. Wear and Tear Items eg. Tyres, Tubes, Bearings, Fluids Brake Pads & Discs
9. Devices that have exceeded 3,000km's
10. Modification, Alterations, and Installation of parts that are not supplied as original equipment or where the device is altered from it's original manufacturers state
11. Failure of components/parts/accessories due to the used of foreign products that are not Ampd Brothers approved items.
12. Persons who are not the Original Purchaser as listed on the Receipt
13. Claims outside the Valid Warranty Date from the Date of Receipt
14. Any Packaging required to pack items Securely for Return Repairs

See the full terms and conditions outlined at:
<https://ampdbros.com.au/pages/warranty>





Warning

- No riding your bike while charging!
- No touching any substance that leaks from the battery !
- No children and animals are allowed to touch the battery!
- Battery contains dangerous substances inside strictly forbidden to open!
- Use only the charger provided. Do not overcharge or discharge!
- Do not ride in or near water or adverse weather conditions such as hail, snow, fire or excessive heat otherwise it may damage the battery or even cause personal injury!
- When driving, please wear safety helmets and protective gear correctly, please obey the traffic rules!
- Please do not drive the vehicle when the hatch is not locked!
- No using a high-pressure water gun to wash the inside of the battery hatch!
- Please do not bring the bicycle to charge indoors, so as to avoid the situation of violent fire and spontaneous combustion!
- See our full Battery Safety article here:
<https://ampdbros.com.au/pages/battery-safety>



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