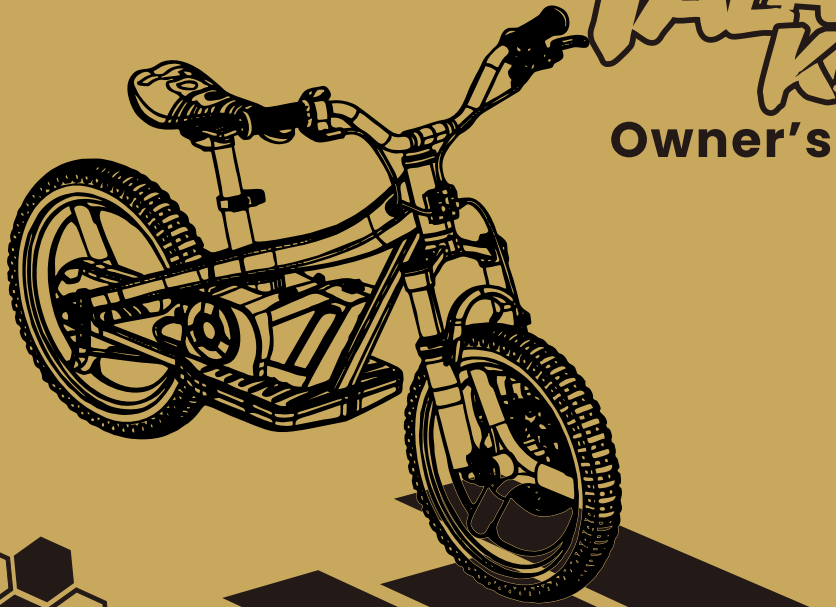
TALARIA KIDS

Owner's-Manual



Congratulations on your purchase of the Talaria JUNIOR electric bike! We are thrilled to welcome you to the community of Talaria riders. This manual is designed to help you understand the operation, inspection, and basic maintenance requirements of your new bike.

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Introduction

Dear Customer,

TALARIA is continuously improving product design and quality. The images in this manual are for illustrative purposes only. The TALARIA JUNIOR you purchased may differ from the information provided in this manual. The data in this manual shall not be used as a basis for legal claims. If you have any questions regarding the operation or maintenance of the JUNIOR bike, please contact TALARIA at: support@talaria.cn

Any updates and additional information about the bike, please visit official website: http://www.talaria.cn

The TALARIA JUNIOR Electric Bike is contained with electrical components. Please keep follow the label instructions on all components, which is extremely essential for your safety.

Do not touch, attempt to disassemble, or replace any parts, wiring, or connectors. If the bike is involved in an accident, do not touch any electrical connectors or wiring assemblies. If the bike is involved in fire, use a Class D fire extinguisher to put out visible flames. After the flames are extinguished, soak it with a water-based fire extinguisher.

Note: All TALARIA JUNIOR Bike are carefully inspected before delivery. However, inspection could not eliminate all technical issues, some of which may still occur at rare rate. The following information serves as a guide to help you identify problems and, if possible, repair them by yourself. If you are unable to resolve issues with your bike, please take it to an authorized dealer at your convenience.



Keep Clear of Fires



Keep Dry



No Falls and Impacts



Keep away from the hazardous chemicals

Preface

This manual covers the information such as standard features, operation process, troubleshooting, and warranty for the TALARIA JUNIOR Electric Bike,

TALARIA JUNIOR: Electric Bike

12-inch Tires: F/R: 12-2.0, Tire Pressure: 225 Kpa

16-inch Tires: F/R: 16-2.4, Tire Pressure: 225 Kpa

WARNING: This bike is not designed for children under 3 years. Riding overload is strictly prohibited.

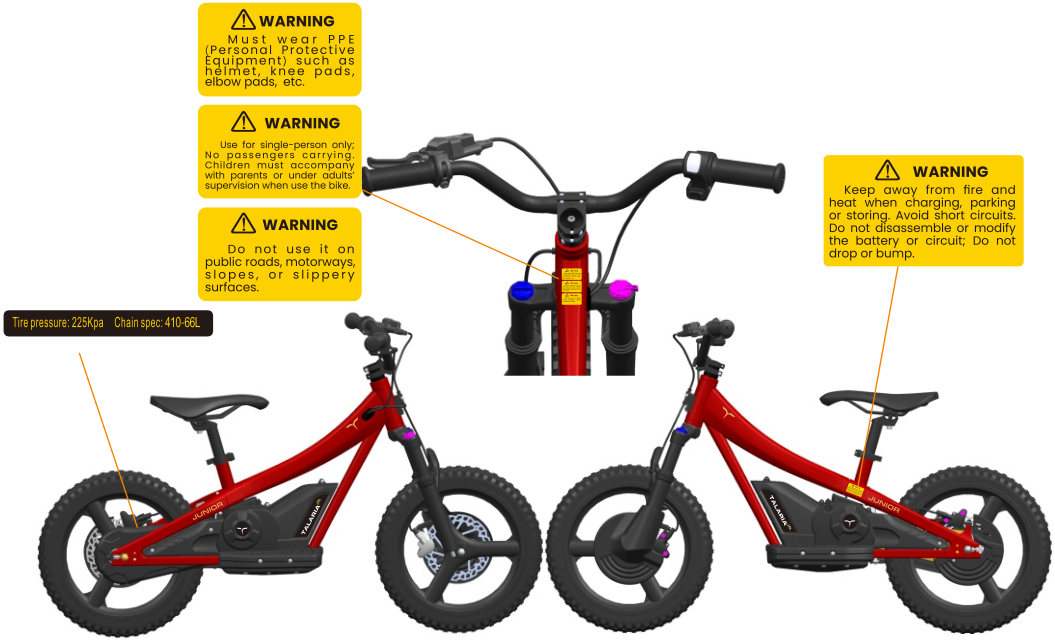
Positioning and Reference Information

The index information in the manual helps you better understand the TALARIA JUNIOR Electric Bike. The terms "Right" or "Left" refer to the rider's right or left side when sitting on the bike.

Safe Riding Information

- There is the term of "Caution" contained in the manual, which indicates potential injury to you or other people. It also contains the term of "WARNING", which indicates potential damage to the bike.
- Caution!
- Before using the electric bike, please read this manual carefully and check that all parts are intact and screws are tightened to ensure the safety of children.
- Must wear helmets, knee pads and elbow pads when riding. Ride on flat roads without bikes only. Children must accompany with parents or adults when use the bike.
- Do not perform stunts on the electric bike.
- Please comply with local laws and regulations. When riding in rainy or on wet floor, please reduce speed and increase the braking distance to ensure safety.
- Keep the hands, feet, body, clothing or other items away from any rotating parts.
- When getting off or pushing the bike, please turn off the power to prevent accidental injury caused by unintentional activation of the bike due to pushing the throttle.
- WARNING!
- The electric bike should be parked in dry and well-ventilated place. Do not rinse the bike with water; it is recommended to clean it with a cloth.
- Regularly check the fasteners, wheels and brakes. Stop using and repair immediately once there is any looseness or damage.
- If the electric bike is powered-on but does not work, please turn off the power immediately to prevent damage to electrical parts.
- Do not disassemble or replace parts by non-professional.
- Use a dedicated charger to charge the bike. Use of other chargers may damage the battery.

Location of the important Labels



Controlling system and components

Top & Left Side View



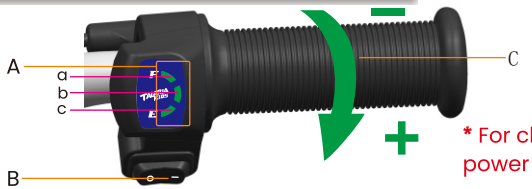
A: Left Handlebar Grip
B: Brake lever
C: Handlebar
D: Dash
E: Throttle
F: Fr.Wheel
G: Fr.Fork
H: Steam
I: Frame
J: Seat Tube
K: Seat
L: Rr.Brake
M: Fr. Disc Brake Cover
N: Seat Post Clamp
P: Stabilizer Wheel (L.)* Non standard configuration
Q: Stabilizer Wheel Adjustment Lever (L.)
R: Chain Tensioner
S: Rear Disc Brake Cover
T: Rear Wheel

Right Side View



A: Disc Brake
B: Rr. Chain-stay
C: Chain Tensioner
D: Stabilizer Wheel Adjustment Lever (R.)
E: Stabilizer Wheel (R.)* Non standard configuration
F: R. Side-Cover
G: Lower Battery Guard
H: Fr. Brake
I: Disc Brake

Instructions for Right Handlebar



* For children's safety, the dash lights-on after the power switch is turned on.

A. Power Indicator: When the power is ON, the indicator lights up; when the power is OFF, the indicator turns off.

a: 3 Green indicates 70%-100% power remaining;

b: 2 Green, 50%-70% power remaining;

c: Green, 20%-50% power remains / d. Red, power left below 20% power.:

B. Power Switch: Press "O" to turn OFF; press "-" to turn ON.;

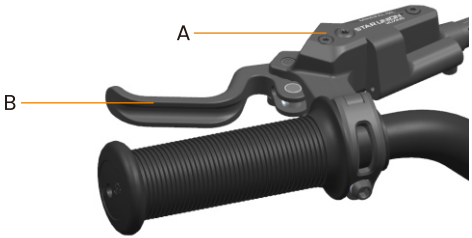
C. Throttle: Turn the throttle grip clockwise" "to control motive power.

Note: Release the throttle grip, and it will automatically rest to the original position.

Instructions for Left Handlebar

A. Brake Upper Assy.

B. Brake Lever: to squeeze the brake lever gently to bring the bike to a slow and smooth stop. Release the brake lever, and the bike resume normal riding.



Instructions for speed conversion

SPORT mode means the Top speed is 16km/h.

ECO mode means the Top speed is set to the factory default of 10km/h.

* Note: the speed conversion much be operated by adults only.

Operation of speed conversion

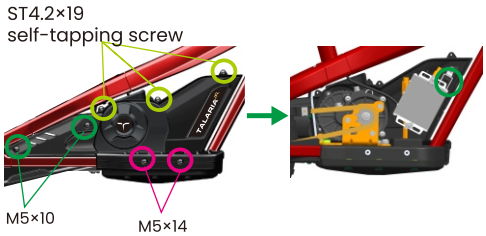
1. Power off



2. Push or slide the bike to level ground slowly.



3. To remove the right Side-Cover in a counter-clockwise direction to loosen the hexagon socket button bolts and self-tapping screws on the right Side-Cover with a tool.



4. To find the speed switch "|" means ECO Mode,"||" means SPORT Mode.

After switch the speed gear, assemble the right Side-Cover and fasten the bolt by clockwise rotation.



Riding Preparation

- To understand the ride process: sit-down on Bike, slide with low speed, twist throttle for acceleration, brake and then stop it smoothly.

  * Do conduct unpowered trainings with PPE under adult supervision at outdoor or a safe location before power-on riding.

Unpowered Riding Practice

- 1. Ensure the power is turned off;



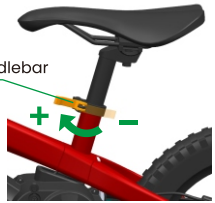
Power indicator light is off, and the Button "O" towards downside.

- 2. Adjust the seat height according to the rider's height.

(1) to rotate the seat-clamp handle in a counter-clockwise direction.

(2) to move the seat tube up and down to adjust the height.

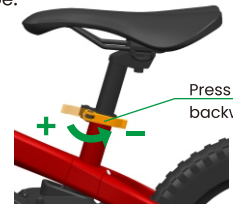
(3) to rotate the seat clamp handlebar in a clockwise direction to tighten the seat tube.



Push the handlebar forward



* NOTE: Do not insert the seat post below the lowest mark.

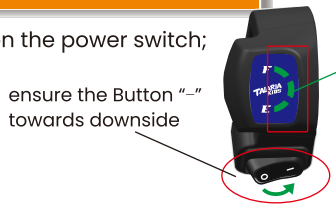


Press the handle backward

- 3. Get to feel the speed by sitting on and pushing off the ground to coast and get to maintain balance during the training process.
- 4. Practice sliding, and turning around with control.
- 5. When finishing the ride, check around behind you, then gently squeeze the brake lever to slow down and approach the packing area.

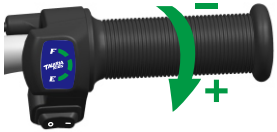
Powered Riding Practice

- Turn on the power switch;

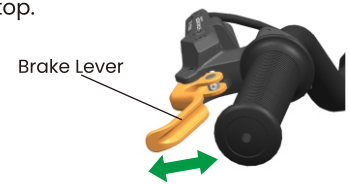


The indicator lights illuminate in the following sequence:
1.The red light illuminates.
2.The first green light illuminates.
3.The second green light illuminates.
4.The third green light illuminates.
5.The battery level lights illuminate according to the battery level (the number of lights indicates the remaining power).

- 2. Place both feet on the ground, push the bike off forward slowly and then twist the handle in a clockwise direction gently to accelerate, during which, practice to control the throttle.



- 3. Press the brake lever inward gently with the left hand to practice braking and coming to a smoothy stop.



WARNING

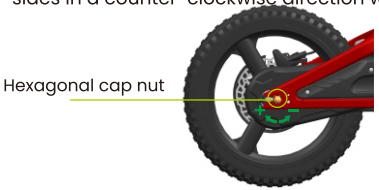
- Maintain a safe distance between bike and obstacles.
- Yield to pedestrians.
- Control the speed.

- 4. Once the rider has mastered the throttle and brake skills,
- place both feet on the pedals.
- 5. When finishing the ride, check around behind you, then gently squeeze the brake lever to slow down and approach the packing area, and finally turn off the power before dismounting.

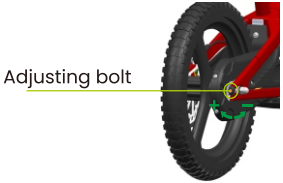
Components Adjustment

- After riding for a period of time, if any of the following issues occur, please make adjustments according to the corresponding instructions.
- **1.Loose the chain;** (Note: to adjust both sides equally)

(1) Loose the hexagonal cap nuts on both L/R sides in a counter-clockwise direction with a tool.



(2) Increase the chain tension by turning the adjusting bolts on both L/R sides in a clockwise direction with a 3 mm hex wrench,



(3) Whenever the chain tension is adjusted, tighten the hexagonal cap nuts on both L/R sides with tools.

(4) Take a trial-ride and recheck the chain tension. Readjust if necessary.

- **2. Wheel seizure or wobble;**



Tighten the hexagonal cap nuts of the both F/R wheels on both L/R sides by clockwise rotation.

- **3.Change the gearbox lubricating oil;** (spec.: CL-4 80W/90); maintenance cycle: once every 2 years

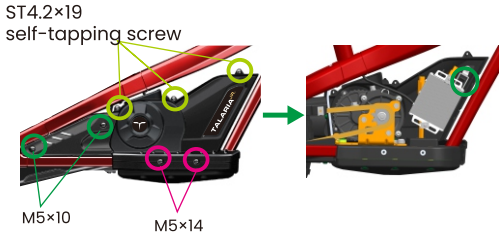
1. Power off



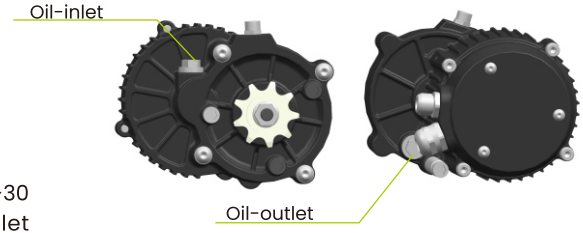
2. Push or slide the bike to level ground slowly.



3. Loosen the hex socket half-round head bolts and self-tapping screws on both L/R Side-Covers by counter-clockwise rotation with a tool and then remove the L/R Side-Covers.



4. Loosen the gearbox oil inlet bolt to remove the bolt and aluminum sealing washer with an open-end wrench. Then loosen the drain bolt to remove the bolt and aluminum sealing washer with the same wrench. Tilt the entire bike to the left and let it sit for 3-5 mins to ensure the oil fully drains.



5. Tighten the drain bolt (tightening torque 20-30 N·m), add lubricating oil through the oil inlet (amount 25-30 ml), then tighten the oil inlet bolt (tightening torque 20-30 N·m). Reinstall the left and right side covers and tighten the bolts by rotating clockwise. Now the bike is ready to ride.

- **4.Brake Maintenance**

Note:Both front and rear wheels are equipped with disc brakes. Replace the brake disc immediately if the excessive wear is detected.

Disc Brake Care: regularly maintain the cleanness of the disc brake system. Prevent mud and sand from adhering to the components for extended period, crucially keep the brake system from oil and grease contamination, as this severely compromise braking performance.

(1) Regular Brake Fluid Level check

Check the brake fluid level through the sight glass. The standard brake fluid is light pink in color. If the fluid level in the sight glass is visibly low, HF10-2 Hydraulic Transmission Oil must be added immediately.



Caution

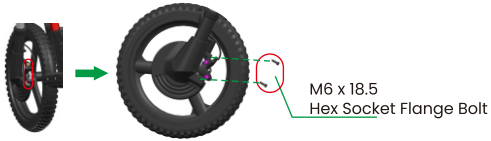
The maximum capacity of the oil cup is 4.3ml. Don't exceed the limit when adding fluid to prevent overflow or system damage.

(2) Replace Brake Pads When Thickness ≤ 1mm after use.* The replacement steps for front and rear brake disc are identical. The following instructions detail the procedure for replacing the front brake takes the front disc (applicable to rear disc as well).

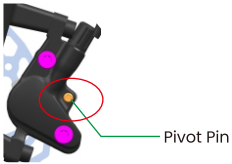
1. Power off: Turn off the power switch
2. Gently push or roll the bike onto a flat, level surface.



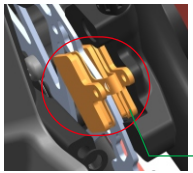
3. Remove the upper and lower bolts securing the brake caliper with a 5mm hex wrench.



4. Gently loose the outer retaining clip of the brake caliper with pliers. Remove the pivot pin in a counter-clockwise direction by inserting a 3mm hex wrench into the pin axis. Carefully detach and remove the brake caliper housing.



5. Locate the worn brake disc and install the new one, then re-install the brake caliper housing and secure all components. Now the bike is ready for normal operation

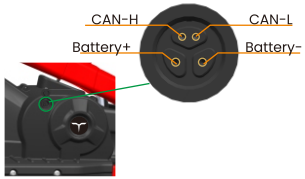


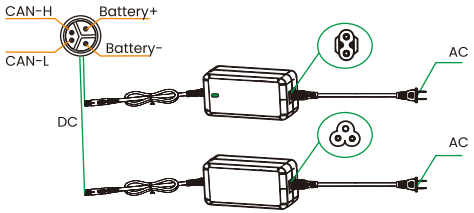
WARNING

Use only Talaria exclusive br ake discs, Red for Front, Black f or Rear. No Interchangable!

Battery Charge and Discharge.

- TALARIA JUNIOR is equipped with a high-performance, high-capacity lithium battery. The allowable ambient temperature range for battery charging is between 0°C and 45°C, and -20°C to 55°C for battery discharge. The optimal temperature is recommended to be between 10°C and 30°C. Please do not charge the battery at the temperature beyond the ambient range. Bike usage or storage under temperature ranges beyond may affect the performance and lifespan.
- Please open the waterproof cover of the charging port, insert the DC head of the charger into the charging port, and insert the plug into the power source.
- Remark: the red light will flash at 1-second intervals while the battery is charging, and the green light will remain on when the battery is fully charged.





Battery Usage WARNINGS

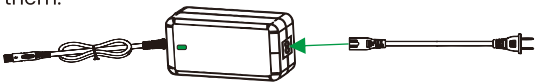
- 1. Do not charge the battery below 0°C, otherwise it will damage the battery**.** Only charge the battery once the temperature has risen above this point.
- 2. When the temperature is too low, the battery performance will be affected, and a slight decrease in range is a normal phenomenon. After the temperature rises, the battery performance will automatically recover.
- 3. The battery has comprehensive protection functions, which can prevent damage to the battery caused by overcharging and discharging. If the high-power discharge is used for a long time, it is necessary to wait for half an hour before charging.
- 4. When not in use for a long time, please charge the battery to 50% of its capacity and turn off the power switch. Check if it has been recharged at least every 2 months.
- 5. Users are strictly prohibited from disassembling batteries on their own to avoid damage and danger.

Battery charging and charger usage

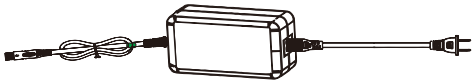
- 1.Please use the designated charger provided with the Bike for charging.
- 2.Please use the designated charger provided with this electric toy for charging.
- 3.When charging, ensure that the charger is properly connected to the battery charging port before plugging it into the mains socket. After charging is complete, disconnect the charger from the mains socket first, and wait until the indicator light turns off before disconnecting the charger from the battery.
- 4.During charging, the red light will flash. When fully charged, the light turns solid green. The charging time depends on the remaining battery level and the specifications of the charger used. A full charge takes approximately 2 to 3 hours.
- 5.The charger will automatically shut off once the battery is fully charged. However, it is recommended to avoid leaving the charger connected to the mains for extended periods. The charging duration should not exceed 6 hours.

Connect the charger

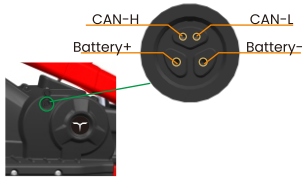
(1) Remove the DC end of the charger, then locate the AC end. Adjust the orientation as needed and connect them.



(2) A complete charger assembly is now obtained.



(3) Insert the DC plug of the charger into the charging port, then connect the charger to the mains socket.
Note：Ensure that the charger is firmly connected to the battery charging port.



Charging Instructions

1.During charging, place the device in a safe location that is out of reach of children, well-ventilated, and away from flammable materials.
2.Do not charge the battery immediately after it has just been fully discharged, as the internal temperature may be high. It is recommended to allow it to cool for 30 minutes in a ventilated area before charging.
3.The battery pack must only be cooled by forced air cooling or natural cooling by standing. Do not use any other methods to heat or cool the battery pack.
4.Never cover the charger during use. This charger is designed for indoor use only. Please use it in a dry and well-ventilated environment.
5.Avoid using the device immediately after the battery has been fully charged. Allow it to stand for 10 minutes before operation.

WARNING

In case you find peculiar smell or high temperature during charging, or the battery is not fully charged after charging for a long time, please stop charging immediately and send it to the local dealer for maintenance.

WARNING

If a battery pack fire occurs, keep yourself away from the fire. Or if possible, extinguish visible flame with a Class D power-type fire extinguisher. After flame has extinguished, douse with a water-based fire extinguisher.

Charger Troubleshooting

No.	Indication Type	Fault Description	Flashing Mode	Notes
1	Charger Low Temperature	The working environment temperature of the charger is below -10°C	1 flash (180ms on → 250ms off → 500ms pause)	Low temperature fault requires priority handling
2	Charger Over Temperature	Charger internal temperature exceeds 80°C	2 flashes ((180ms on → 250ms off)×2 → 500ms pause)	
3	Charging Overcurrent	Charging current exceeds rated value (e.g. load short circuit or abnormal battery internal resistance)	3 flashes ((180ms on → 250ms off)×3 → 500ms pause)	
4	Charging Overvoltage	Input or output voltage exceeds safety threshold (e.g. power grid fluctuation or abnormal charger output)	4 flashes ((180ms on → 250ms off)×4 → 500ms pause)	
5	Charging Undervoltage	Input voltage is too low to start the charger (e.g. power grid voltage fluctuation)	5 flashes ((180ms on → 250ms off)×5 → 500ms pause)	
6	Battery Reverse Connection	Battery positive and negative poles are reversed, triggering hardware protection	6 flashes ((180ms on → 250ms off)×6 → 500ms pause)	
7	Charging Over Temperature	When BMS detects that cell temperature exceeds the threshold	7 flashes ((180ms on → 250ms off)×7 → 500ms pause)	
8	Charging MOS Over Temperature	When BMS detects that charging MOS temperature exceeds the threshold	8 flashes ((180ms on → 250ms off)×8 → 500ms pause)	
9	Pre-charge Timeout	When BMS detects that pre-charge time exceeds the threshold	9 flashes ((180ms on → 250ms off)×9 → 500ms pause)	
10	Charging Overcurrent	When BMS detects that charging current exceeds the threshold	10 flashes ((180ms on → 250ms off)×10 → 500ms pause)	
11	Overcharge Error	When BMS detects that cell voltage exceeds the threshold	11 flashes ((180ms on → 250ms off)×11 → 500ms pause)	

Charger Troubleshooting

No.	Indication Type	Fault Description	Flashing Mode	Notes
12	Charging Low Temperature	When BMS detects that cell temperature is below the threshold	12 flashes ((180ms on → 250ms off)×12 → 500ms pause)	
13	Charging Fuse Damage	When BMS detects charging fuse damage	13 flashes ((180ms on → 250ms off)×13 → 500ms pause)	
14	Charging MOS Damage	Charging MOS inside BMS is damaged	14 flashes ((180ms on → 250ms off)×14 → 500ms pause)	
15	Cell Disconnection	Cell disconnection	15 flashes ((180ms on → 250ms off)×15 → 500ms pause)	
16	Cell Imbalance	Cell imbalance	16 flashes ((180ms on → 250ms off)×16 → 500ms pause)	
17	MOS Temperature Sensor Fault	MOS temperature sensor fault	17 flashes ((180ms on → 250ms off)×17 → 500ms pause)	
18	Cell Temperature Sensor Fault	Cell temperature sensor fault	18 flashes ((180ms on → 250ms off)×18 → 500ms pause)	
19	Comprehensive Error	Comprehensive error	19 flashes ((180ms on → 250ms off)×19 → 500ms pause)	

Bike Troubleshooting

No.	Indication Type			Notes
1	Low Voltage Protection		1 flash (180ms on → 250ms off → 500ms pause)	
2	Fault in Throttle		2 flashes ((180ms on → 250ms off)×2 → 500ms pause)	
3	Fault of Phase Line Overcurrent		3 flashes ((180ms on → 250ms off)×3 → 500ms pause)	
4	Overvoltage Protection		4 flashes ((180ms on → 250ms off)×4 → 500ms pause)	
5	Fault in Motor Hall		5 flashes ((180ms on → 250ms off)×5 → 500ms pause)	
6	Fault in Motor Phase Line		6 flashes ((180ms on → 250ms off)×6 → 500ms pause)	
7	Fault from Motor Over Temperature		7 flashes ((180ms on → 250ms off)×7 → 500ms pause)	
8	Fault in Motor Temperature Sensor		8 flashes ((180ms on → 250ms off)×8 → 500ms pause)	
9	Fault of Controller Over Temperature		9 flashes ((180ms on → 250ms off)×9 → 500ms pause)	
10	Fault in Controller Temperature Sensor		10 flashes ((180ms on → 250ms off)×10 → 500ms pause)	
11	Fault of Current Sensor		11 flashes ((180ms on → 250ms off)×11 → 500ms pause)	
12	Fault in Motor Phase-Loss		12 flashes ((180ms on → 250ms off)×12 → 500ms pause)	
13	Communication Fault (BMS data not captured)		13 flashes ((180ms on → 250ms off)×13 → 500ms pause)	

Routine Maintenance

- 1. Do not completely drain the battery every time. Charge the battery when the display shows a red light, which can extend the battery lifespan.
- 2. Regularly clean the frame and wheels with a damp cloth. Do not rinse bearings and brakes with a high-pressure water gun to ensure safety riding of children and maintain the bike in optimal condition.
- 3. Charge the battery after each ride to keep it in optimal condition.
- 4. Regularly adjust the lock nuts of the front and rear wheels to prevent the wheels from seizing or shaking.

Maintenance Schedule

- Lubrication is an important part of bike maintenance. The front axle, rear axle and sprocket should be cleaned every six months.

Maintenance Items	maintenance cycle	Notes
Head Component Set	Once a year / cumulative operating 100 hours	Lubricating
Front and Rear Axles	Once a year / cumulative operating 100 hours	Check for tightness
Chain	Once every six months / cumulative operating 50 hours	Clean / Replace
Gearbox	Once every two years	Replace lubricating oil (80W-90), volume: 20mL~30mL
Battery	Once every two months	If stored for a long time, charge the battery to 50%-70% of its capacity for storage
Tire Pressure	Before each ride	If the pressure is too low, inflate the tires with an air gun or air pump
Wheels	Before each ride	Check for cracks, nails, glasses and other foreign objects, and abnormal wear of tire treads
Bolts and Nuts	Before each ride	Check all bolts and nuts of whole bike before each ride.
Brake Disc	Before each ride	

PUSH FURTHER

TALARIA KIDS

Manufacturer: TALARIA POWER TECH
Owner's Manual Version: V1