Talaria-Service-Manual-STING R(TL4000)

TALARIA POWER TECH (CHONGQING)CO, LTD.

STING R Owner’s Manual

Contents

Identification Numbers

An Important Message from Talaria

Congratulations and thank you for purchasing the 2023 Talaria STING R electric motorcycle; we welcome you to the community of Talaria Electric Motorcycle riders. This manual is designed to provide you with a better understanding of the operation, inspection, and basic maintenance requirements of this electric motorcycle.

Talaria continually seeks advancements in product design and quality. Therefore, this manual contains the most current product information available at the time of printing. Because of this, your electric motorcycle may differ from the information supplied in this Owner's Manual. No legal claims can be made on the basis of data in this manual. When it comes time to sell your Talaria STING R, please ensure that this manual stays with the electric motorcycle. It is an important part of the vehicle. If you have any questions concerning the operation or maintenance of your electric motorcycle, please contact Talaria at
support@talaria.cn

For 24-hour updates and additional information about your electric motorcycle, visit the Talaria's official website:
http://www.talaria.cn

About This Manual

This manual covers the standard features, operations, malfunction inspections and warranty for Talaria STING R electric motorcycles.

Talaria STING R: All Terrain
Wire Wheels
19-inch Diameter Front Wheel
19-inch Diameter Rear Wheel
Knobby Tires

Locating and Referencing Information

A good place to locate information about the electric motorcycle is in the index in the back of the manual.

The terms "right" or "left" refer to the rider's right or left when sitting on the electric motorcycle.

Identification Numbers

This manual contains the word **WARNING** to indicate something that could hurt you or others. It also contains the word **CAUTION** to indicate things that could damage your electric motorcycle.

WARNING! Please read this manual carefully and completely before operating this electric motorcycle. Do not attempt to operate this electric motorcycle until you have attained adequate knowledge of its controls and operating features, and until you have been trained in safe and proper riding techniques. Regular inspections and proper maintenance, along with good riding skills, help you safely enjoy the capabilities and the reliability of this electric motorcycle. Disregarding the aforementioned, however, may render the warranty invalid.

This symbol is located in various locations on the motorcycle to inform you that exposure to high voltage can cause shock, burns and even death. The high voltage components on the electric motorcycle should be serviced only by technicians with special training. High voltage cable or wiring has an orange covering. Do not probe, tamper with, cut, or modify high voltage cable or wiring.

Unplug the Battery

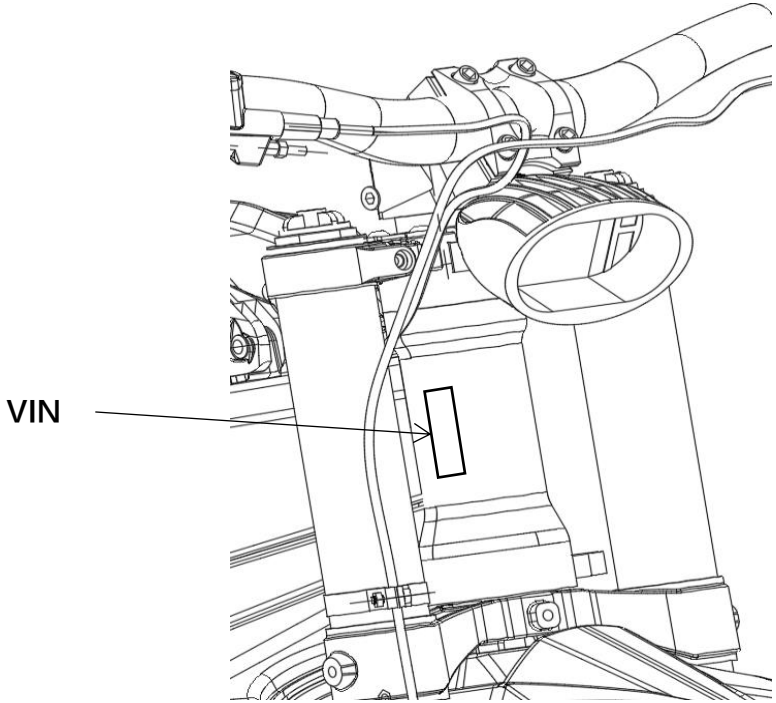
CAUTION: Proper care of the motorcycle's battery is essential! Once your motorcycle is charged, disconnect the battery from AC power. Leaving your electric motorcycle unplugged will maximize long-term battery health.

See "Battery Information", from page 37 to page 40 for other important information regarding the battery.

Identification Numbers

Vehicle Identification Number (VIN)

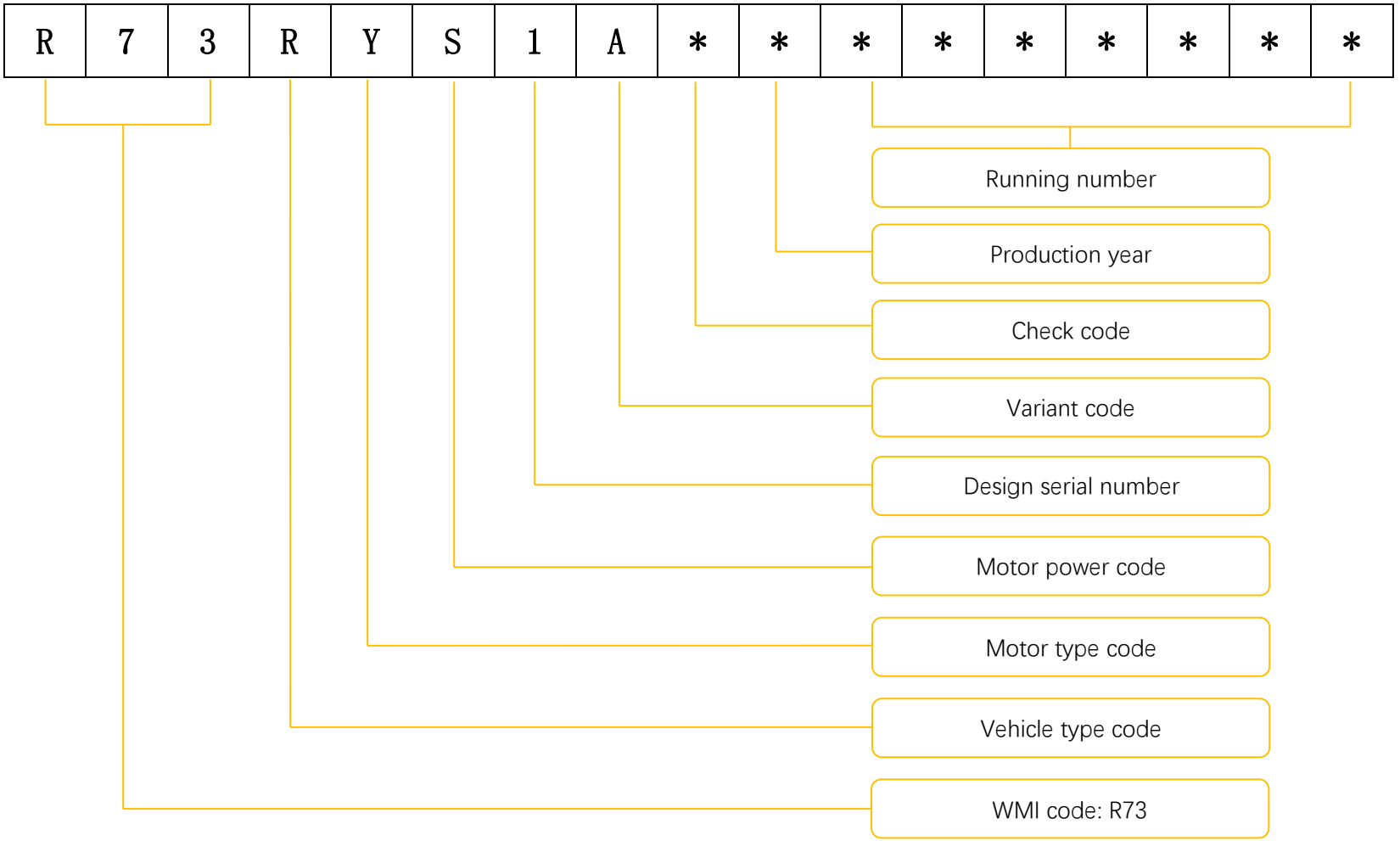
The VIN is a 17-digit number stamped on the right side of the frame’s head tube. Do not alter or remove this number as it is the unique identifier for your motorcycle.



Identification Numbers

VIN Breakdown

The following breakdown of the SN will help you to understand the significance of each digit or character in case you need to reference it when contacting Talaria or ordering parts.



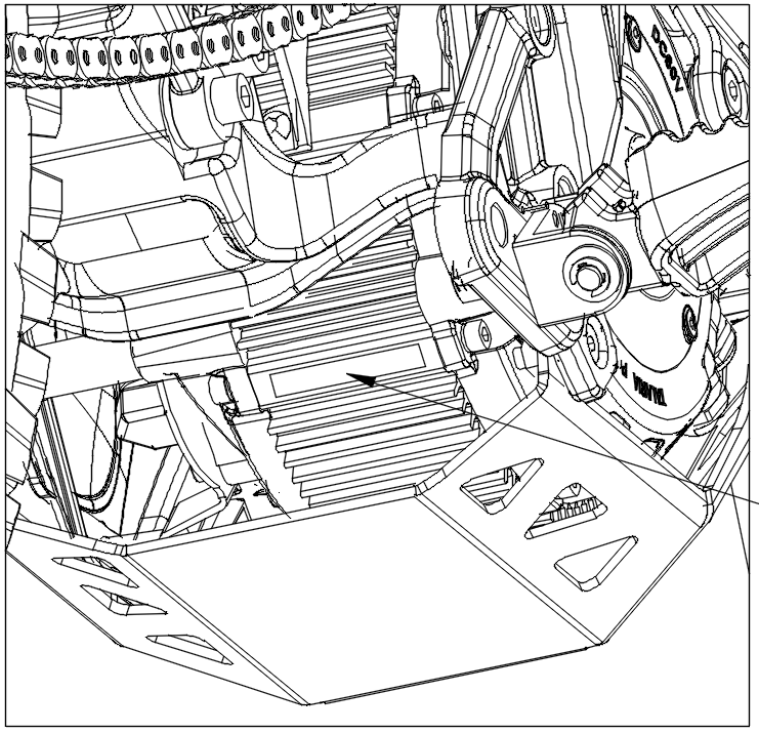
Serial Numbers

Motor Serial Number

The motor serial number is stamped on the left-hand side of the motor housing. ☆159ZW6030413NA☆

And the Second row is the Talaria internal control number：Internal 6-Digit Model Number + Manufacturing Date(YY/MM) + 1-Digit Factory Identify Number +4-Digit Running Number：

Example: ☆TL4000-22122030001☆



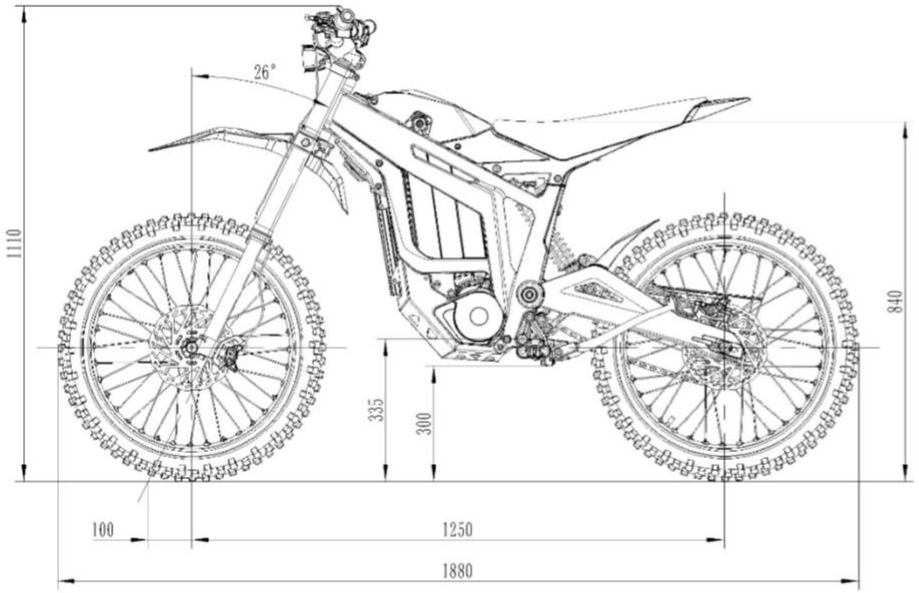
General Information

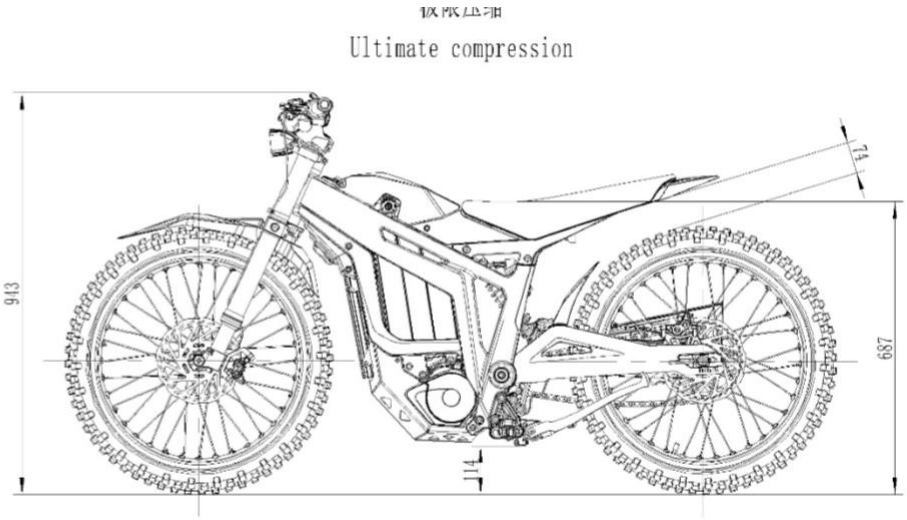
Technical Specification

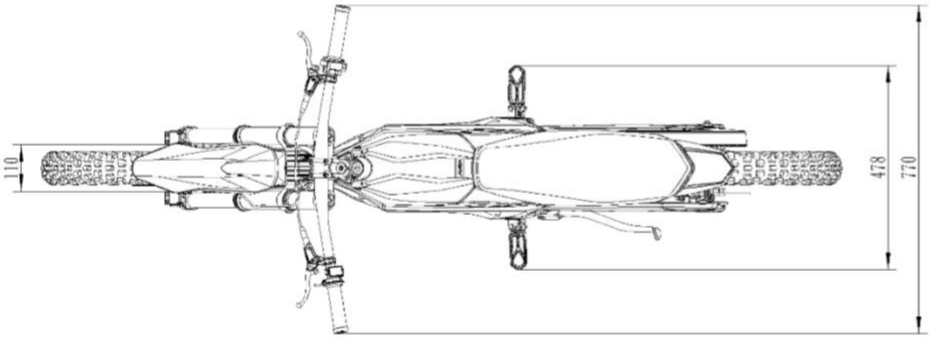
ITEM	Specs
Vehicle Dimension	1890mm × 815mm × 1155mm
Wheelbase	1250mm
Vehicle Weight/45Ah battery Included	55kg (exclude battery) /68kg (Include battery)
Max. loading Ability	100kg
Min. Ground Clearance	270mm
Seat Height	830mm
Max. Gradeability	45°
Top Speed	20-25mph (limited)
Nominal Power	1KW (limited)
Torque on Rear Wheel	150N.m (48T)
Battery Pack	60V 43.2Ah for Nominal, and 60V 45Ah for maximum
Range	≥100Km@25Km/h
Charging Time	4h
Charger Input Voltage	AC110/220V-50/60Hz
Riding Modes	ECO/SPORT
Wire Wheel Size	Fr.: 1.9×14; Rr.:1.9×16
Tire Size	Fr.: 70/100-19; Rr.: 80/100-19
Front Fork	Adjustable hi-performance dual crown fork with 200mm travel
Rear Shock Absorber	Adjustable 85mm travel shock absorber with linkage
Brake Type	Fr. & Rr. Hydraulic disc brakes
Primary Transmission	Gearbox
Secondary Transmission	Chain (420-106)

General Information

Vehicle Overall Dimension

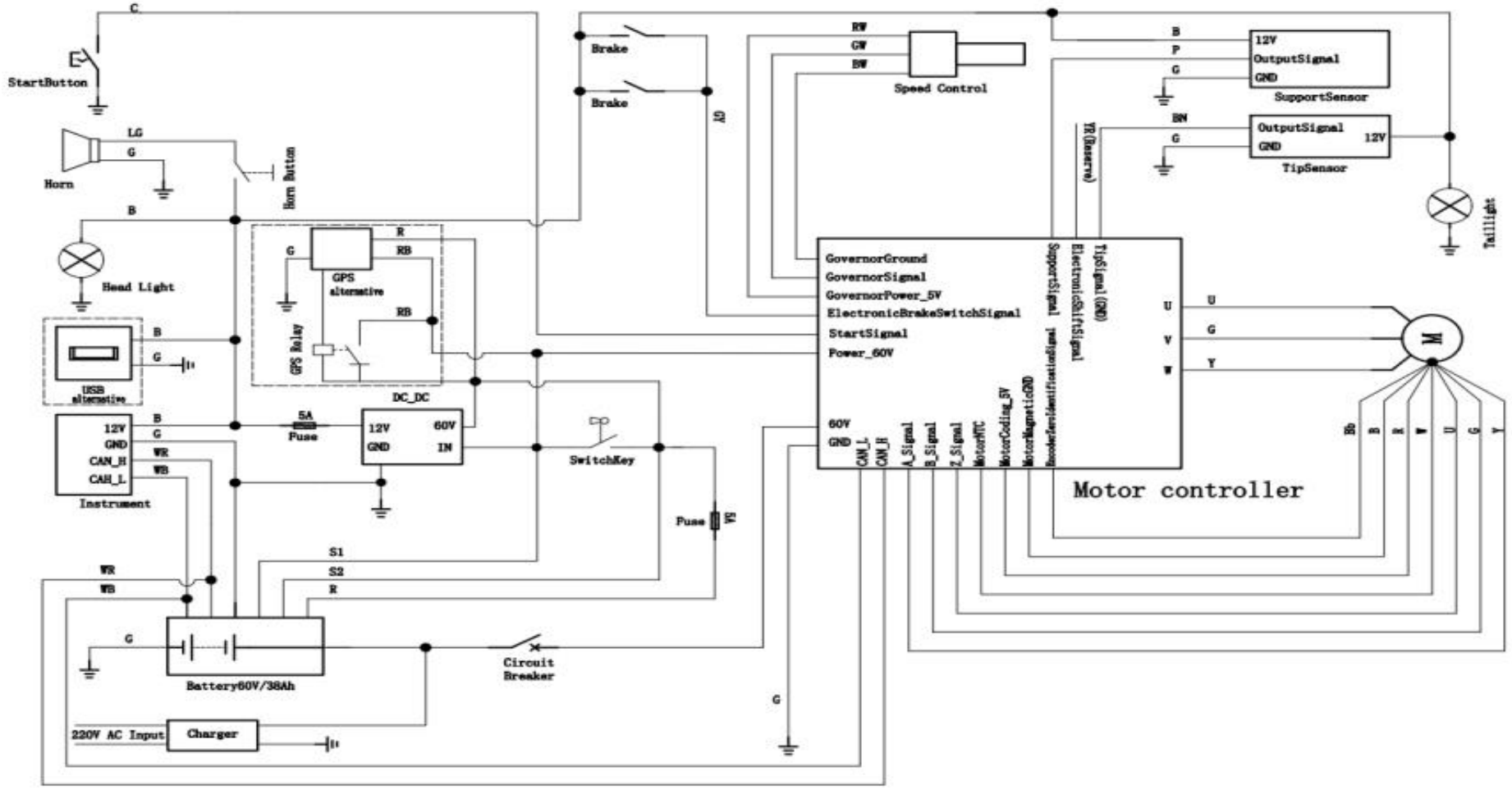






General Information

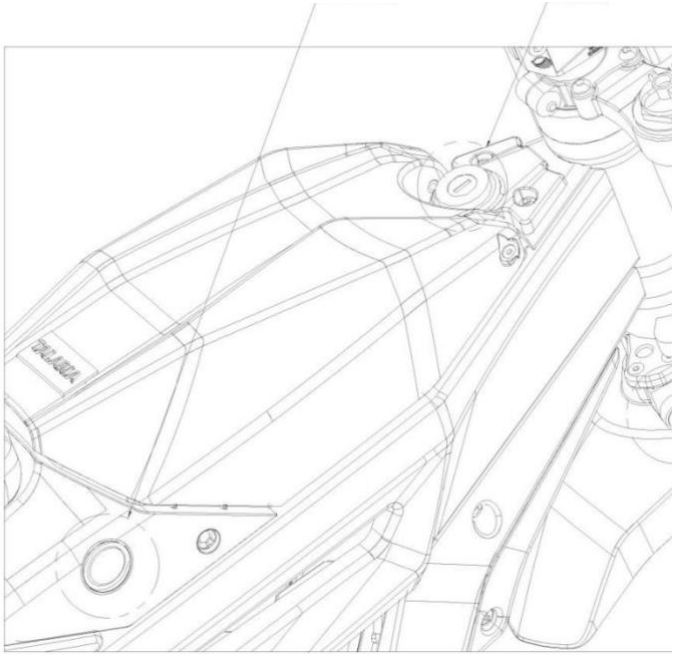
Circuit Schematic Diagram

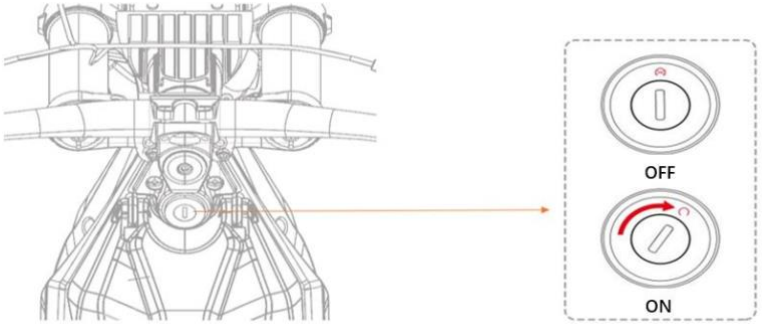


Safety Information

Anti-Theft Alarm Information

Battery Case Lock Ignition Switch





1. Ignition Switch: Turn the key clockwise, and the whole electric motorcycle is powered on; turn it anticlockwise, and the whole electric motorcycle is powered off, and then remove the key.

2. Battery Case Lock: Insert the key and turn it anticlockwise, and then open the Battery Case Lock.

Safety Information

General Safety Precautions

This is a performance electric motorcycle and should be treated with extreme caution.

Please obey the local traffic rules, and ride the electric motorcycle with a proper speed.

Proper safety gear, including a regionally approved helmet, eye protection, riding boots, gloves, and protective clothing should be worn while riding to reduce the risk of potential injury. We highly recommend the use of full height riding boots since the vast majority of riding injuries are leg and foot injuries. It is not recommended to ride without the correct protective clothing; this applies to even short journeys and to every season of the year.

Read all additional warnings and product instructions in this owner's manual, as well as safety labels, before operating your electric motorcycle.

Never permit a guest to ride your electric motorcycle without proper instruction.

Never use alcohol or mind-altering drugs before operating your electric motorcycle.

Persons unwilling or unable to take responsibility for their actions should not use this motorcycle. You assume all responsibility while operating your electric motorcycle. The seller assumes no liability for misuse or operator negligence

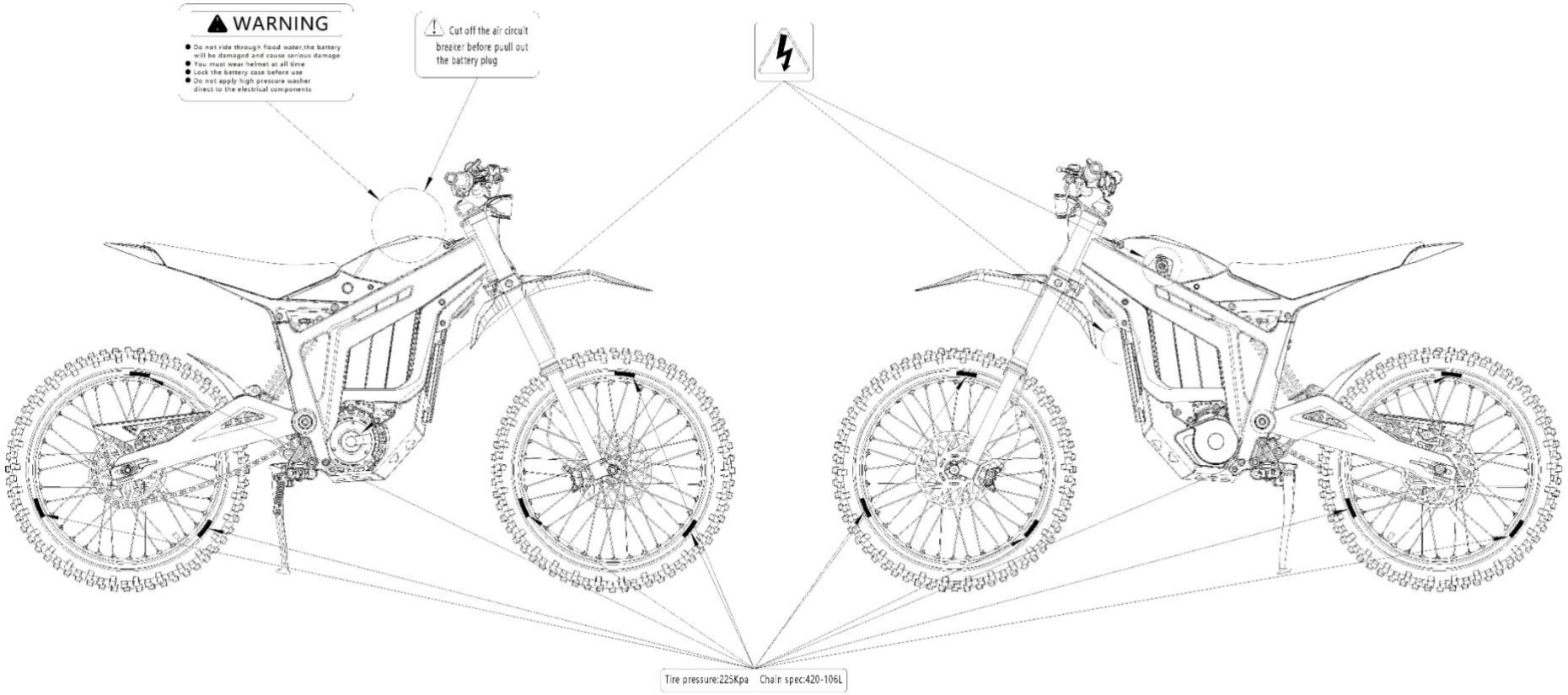
Your safety depends in part on the good mechanical condition of the electric motorcycle. Be sure to do maintenance regularly. Be sure you understand the importance of checking all items thoroughly before riding.

Modifications to the electric motorcycle may render the vehicle unsafe and may cause severe personal injury. Talaria cannot be held liable for non-approved modifications.

Be very careful when loading or adding accessories to your electric motorcycle. Large, bulky, or heavy items may adversely affect the handling and performance of your electric motorcycle.

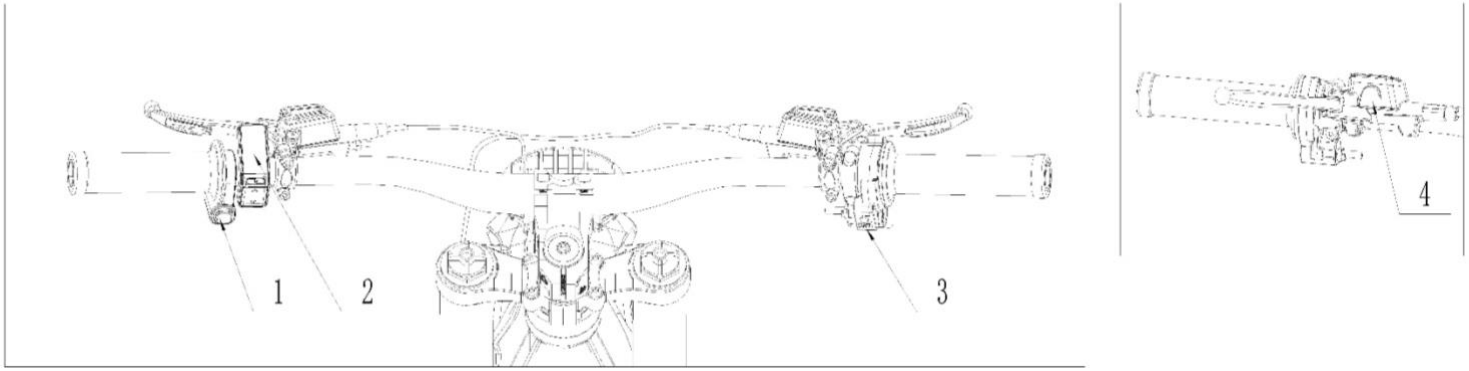
Safety Information

Location of Important Labels



Controls and Components

Handlebar Controls



1. Horn button
2. Dash (see the next page for instructions)
3. Starting button (After the electric motorcycle is turned on, and the side kick stand is swung back, then, press the start button to allow the motorcycle to go when the dash shows READY).
4. Brake Fluid Reservoir.

Attention:

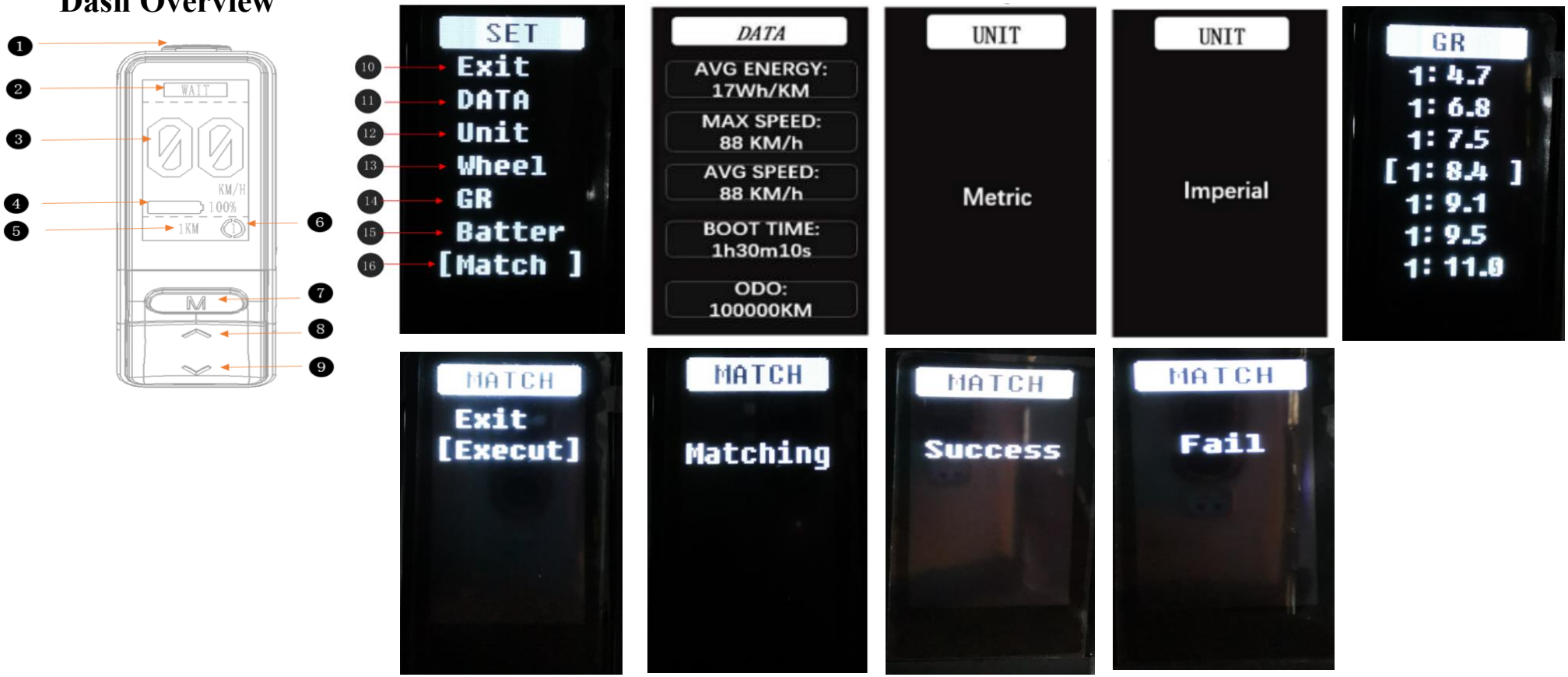
a. ECO mode is with a slow acceleration setting, which is good for the fresh riders and the need of longer battery life.

b. SPORT mode is with a fast acceleration setting, which is good for the skilled riders and off-road riding.

c. To avoid overcharge and protect the battery, Re-Gen function will only work when battery's SOC is below 90%.

Controls and Components

Dash Overview



1. **Setting:** Keep pressing Setting to enter into the setting interface. (It's not workable during riding.)
2. **Motorcycle Status:** Including the display for WAIT/READY/ECO/SPORT/ERROR. WAIT means your motorcycle is not ready to ride. Need the side kickstand swung back, loosen the brake lever, and press the START button to have your motorcycle ready to ride.
3. **Speedometer:** Display the real-time speed.

Controls and Components

4. **SOC Indicator:** Display the real-time remaining battery.
5. **Odometer:** Display the trip mileage. Pressing odometer will clear the trip mileage to be zero. When the odometer reaches to 999km, overflow to zero automatically.
6. **Regen Levels Indicator:** Display the real-time regen level. (Regen level 1, 2, 3, 4 can be set)
7. **M Button:** When your motorcycle is powered on, keep pressing Setting enter into the setting interface. After the setting selection done, press M Button to save the setting. M Button is also the shortcut button to choose ECO or SPORT riding modes when the dash doesn't enter into the setting interface.

8/9. **SEL UP/SEL DOWN:** When your motorcycle is powered on, keep pressing Setting to enter into the setting interface, then, press SEL UP/SEL DOWN to choose the setting. SEL UP/SEL DOWN are also the shortcut buttons to choose the regen levels when the dash doesn't enter into the setting interface.

10. **EXIT:** Exit the setting interface. Press the SEL Buttons to select EXIT, and then, press M Button to exit the setting interface.

11. **Data:** Display the riding data. Press SEL Buttons to choose the DATA. Then, press the M Button to enter into the data display interface. The data display includes average power consumption, top speed, average speed, startup running time, total mileage.

12. **Unit Selection:** Press SEL Buttons to choose the UNIT. Then, press M Button to enter into the UNIT setting interface. Press SEL Buttons again to choose Metric or Imperial, then, press M Button to save the setting.

13. **Wheel:** Wheel diameter setting. Press SEL Buttons to choose the Wheel. Then, press M Button to enter into the Wheel setting interface. Press SEL Buttons again to choose the correct wheel diameter, then, press M Button to save the setting.

Notice: The wheel diameter refers to **the rear driving wheel**. If you choose the wrong wheel diameter, your motorcycle will still run with no problems. But the Speedometer will display the incorrect real-time speed.

14. **GR:** Gear ratio selection. Press SEL Buttons to choose the GR. Then, press M Button to enter into the GR setting interface. Press SEL Buttons again to choose the correct gear ratio, then, press M Button to save the setting. (**1:4.7 for 25T, 1:6.8 for 36T, 1:7.5 for 40T, 1:8.4 for 44T, 1:9.1 for 48T, 1:9.5 for 50T, 1:11 for 58T**)

15. **BATTERY:** Display the battery information. Press SEL Buttons to choose the BATTERY. Then, press M Button to enter into the battery data display interface. Battery voltage, capacity, and charged times will be displayed.

16. **Match:** Press SEL Buttons to choose the MATCH. Then, press M Button to enter into the MATCH setting interface. When the electric motorcycle status is "WAIT", and the side kick stand is swung back, press M Button to start the motor match within one minute after the electric motorcycle is

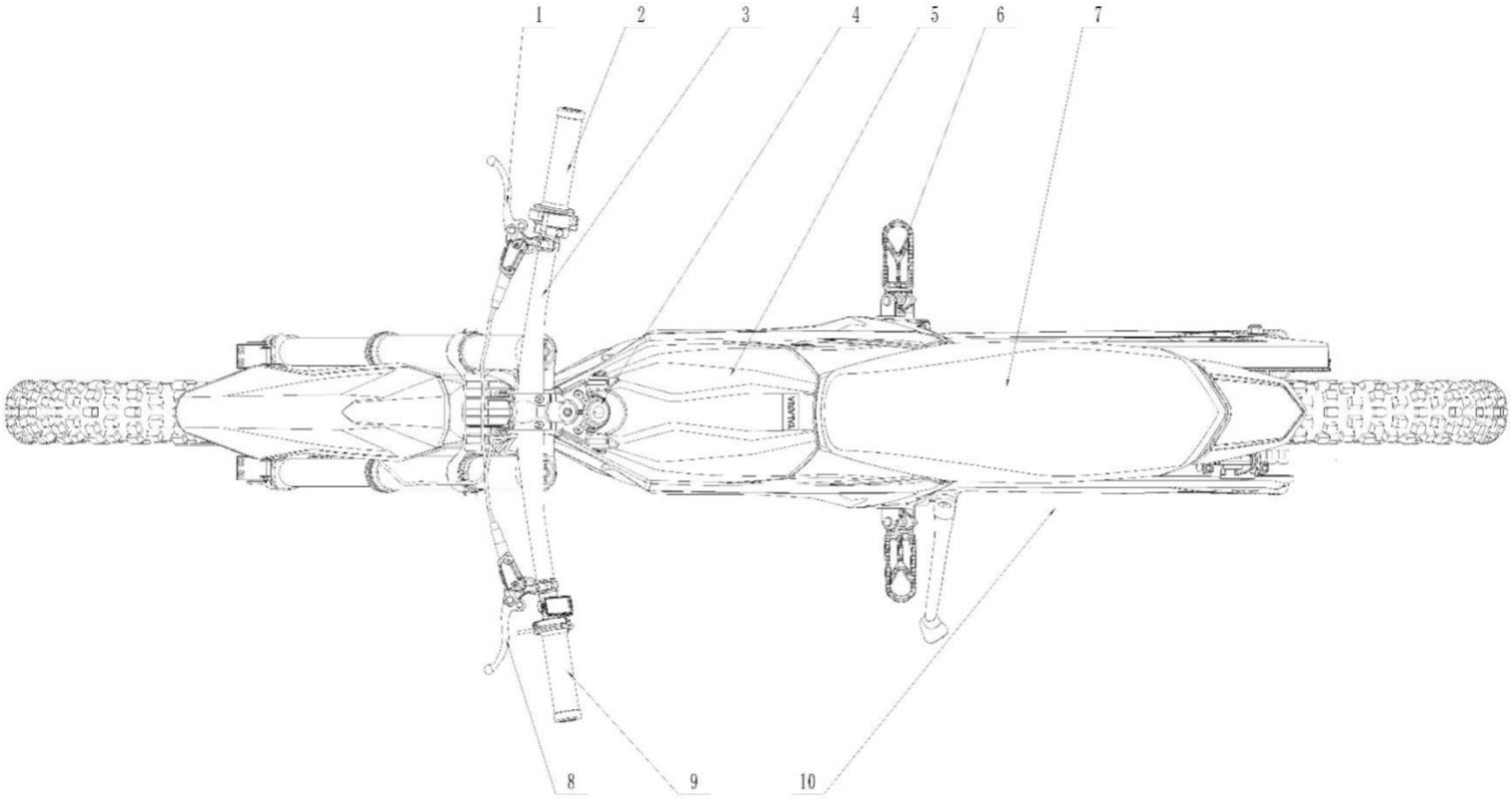
Controls and Components

powered on. Then, the electric motorcycle will have a small move, and after that, it will show the match is successful or failed.

Remarks: The offset of the magnetic encoder's electrical angle is possible to make the motor get reverse rotation. The MATCH function will self-adapt the offset, and prevent the motor reverse rotation happen. Usually, it's well matched before the delivery. In case it's necessary to do the MATCH, first, please inquire the dealer who sold the electric motorcycle to you.

Top View

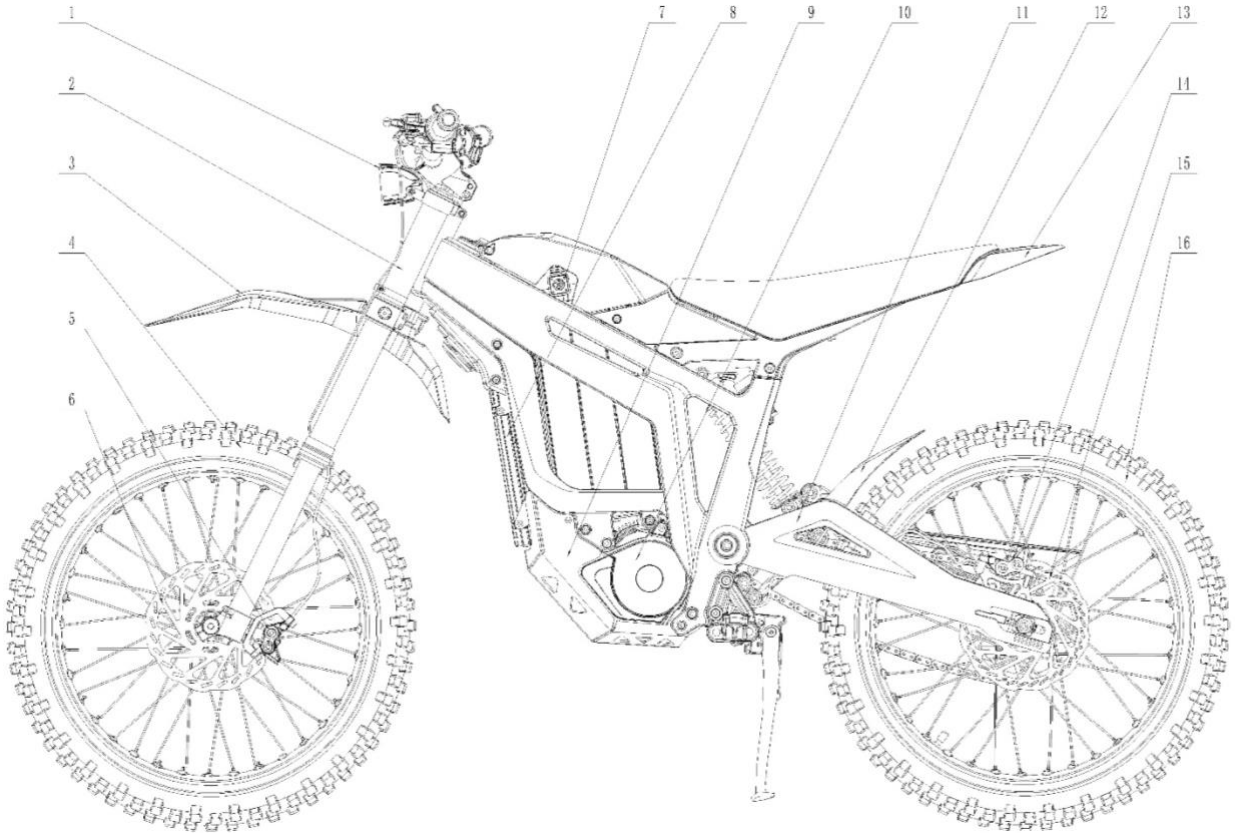
1. Front Brake Lever
2. Throttle
3. Handlebar
4. Key Switch
5. Battery Case Cover
6. Footpeg
7. Seat
8. Rear Brake Lever
9. Left Handlebar Grip
10. Side Kickstand



Controls and Components

Left Side View

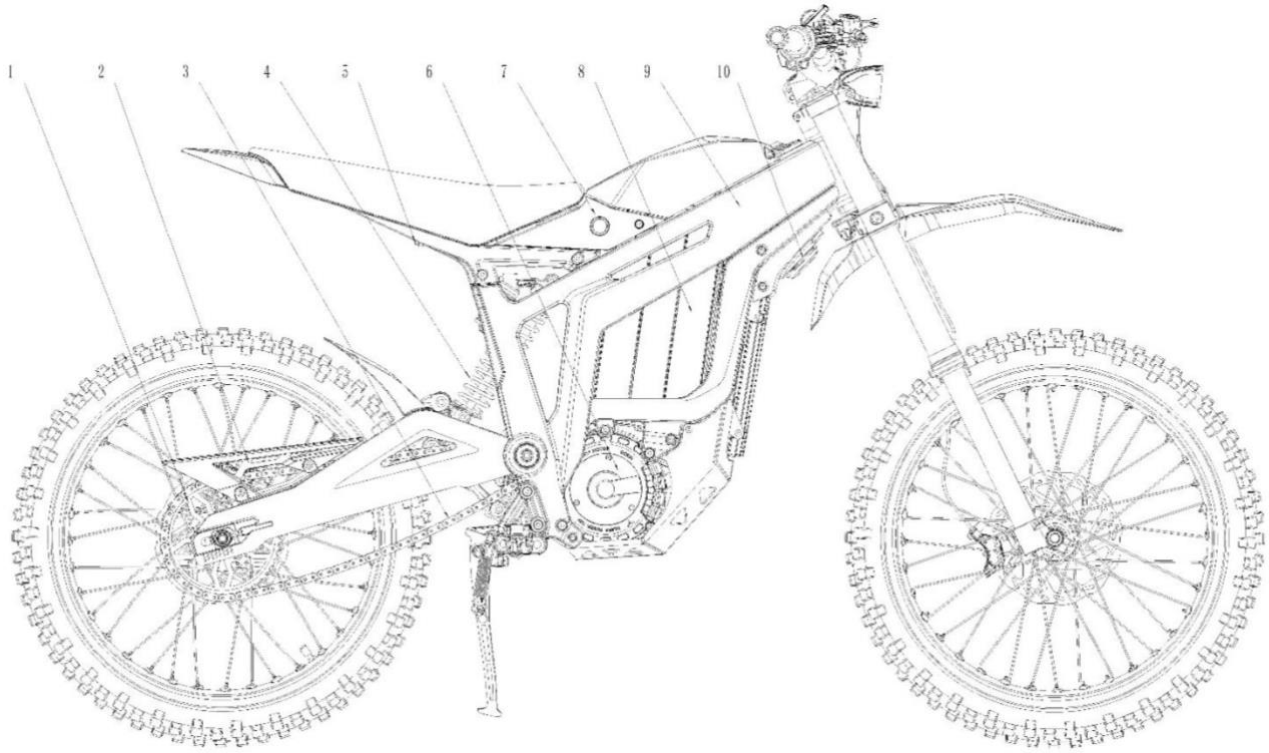
1. Headlight
2. Front Fork
3. Front Fender
4. Front Wheel
5. Front Disc Brake Disc
6. Front Disc Brake Pump
7. Battery Charging Interface
8. Controller
9. Motor Guard
10. Gearbox Cover
11. Rear Swing Arm
12. Rear Wheel Front Fender
13. Rear Fender
14. Rear Disc Brake Pump
15. Rear Disc Brake Disc
16. Rear Wheel



Controls and Components

Right Side View

1. Sprocket
2. Chain Guide
3. Chain
4. Rear Shock Absorber
5. Tail Lamp
6. Motor Assembly (including gear box)
7. Battery Case Lock
8. Lithium-ion Battery Pack
9. Frame
10. Horn



Starting and Operating

Pre-Ride Inspection

Before operating your Talaria STING R electric motorcycle, check the following to make sure the electric motorcycle is secure and intact:

Battery: Make sure the charge indicator on the dash is indicating a charged battery. We suggest you recharge before use. Always keep the charger available.

Brakes: Squeeze the left and right brake levers individually while pushing the motorcycle to see if it rolls. You should be able to lock-up the wheels completely by applying the brakes.

Throttle: Make sure the electric motorcycle is not powered on, apply the throttle and release to verify that the throttle is smooth and returns correctly.

Tires: Check both tires for condition and tread depth. Check cold tire pressure frequently. Check for damage and alignment. Maintain correct tire pressure as specified to be both front and rear tire 225KPa. Replace the tires when the tread height is worn 2/3 or more.

Electrical System: Check for correct function of the headlight, and the tail lamp.

Starting and Operating

Riding Operation

- **Starting**

  1. Check whether the circuit breaker in the front of the battery case is switched on, and then well lock the battery case. Insert the key into the key switch, rotate to the right to the ON position, and then check the switches, dash and horns for normal function, squeeze the front and rear brake lever, and check whether the braking function is normal.

  2. Motor start: After finishing the above step, swing back the kickstand (the dash indicates WAIT), sit on the electric motorcycle steadily, and press the START button on the throttle. The dash indicates READY, then, the electric motorcycle is ready to ride (READY and the current riding mode ECO or SPORT are displayed alternatively). Twist the throttle slowly and stably to start the electric motorcycle. The electric motorcycle is equipped with the function of power-cut protection when the kickstand is standing the electric motorcycle, in this case, the motor will not run.

- **Speed Control:**

  Twist the throttle in a counter-clockwise rotation to energize the motor and start the motorcycle in a forward direction. Twist the throttle in a clockwise rotation to de-energize the motor. Release the throttle and it snaps back to the closed position, the motor stop working.

  Caution: Progressive use of the throttle is strongly recommended; aggressive use will cause malfunction or even damage the throttle.

- **Braking:**

  On the right handlebar is the hand operated brake lever for front brake. The brake lever controls the front brake when the lever is squeezed. On the left handlebar is the hand operated brake lever for rear brake. The brake lever controls the rear brake when the lever is squeezed When braking, the throttle should be in the closed position.

  WARNING! You need to control the brake level squeeze force accordingly, and if you apply the front or rear brake hard enough, it is possible to lock the wheels. This could cause you to lose control of the electric motorcycle and could lead to serious injury or death. Progressive use of the brakes should bring the electric motorcycle to a complete stop without locking the wheels. Your Talaria Sting R electric motorcycle is a light- weight performance product and therefore practice is strongly recommended to perfect safe emergency stops.

Starting and Operating

- **Precautions For Riding**

1. In the premise of ensuring safety, ride smoothly as far as possible, and avoid sudden acceleration or deceleration, so as to save electricity, protect components, and improve the endurance mileage and electric motorcycle service life.

2. Sideslip may easily happen on wet roads in rainy or snowy days. Please stay focus and be responsive. Brake function may be slightly compromised after the electric motorcycle is washed or ridden through puddles. In this case, ride slowly and be careful. Brake gently for several times until the brake goes back to work normally.

3. Please avoid riding in heavy rain or water. If the water level is higher than the wheel center, it may adversely affect the motor and brake. The electric motorcycle can be used in rainy and snowy days, and long-time deep wading must be avoided. Once the water depth exceeds the height of controller and other electrical components, damages may be caused to the electrical components.

4. The kickstand is only used for standing the motorcycle. Do not sit on the motorcycle when the kickstand stands the motorcycle, or it may be damaged.

5. Do not park the motorcycle at a place where the ground is tilted or soft, or it may cause the motorcycle to fall over.

6. The motorcycle contains a lot of electrical components. Please avoid long-time exposure to rain or using high pressure washer to rinse the parts with electrical components.

- **Parking**

1. Pay attention to your back and slow down to approach the parking site.

2. Use the brake to park the electric motorcycle, reset the throttle, turn OFF the Key Switch and remove the key after the electric motorcycle stopped.

3. After parking, swing out the kickstand to stand the electric motorcycle. Make sure you have turn off the electric motorcycle, and well lock battery case locks before leave and take the key with you.

Starting and Operating

- **Adjustment of Front Fork & Rear Shock Absorber**

The front fork and rear shock absorber play the buffer role, they are important to enable your riding to be stable and comfortable, even there are bumps on the road.

To solve the front fork and rear shock absorber supply shortage. Talaria will mix use Talaria, FastAce or DNM forks and absorbers. All these absorbers passed Talaria's strict performance tests.

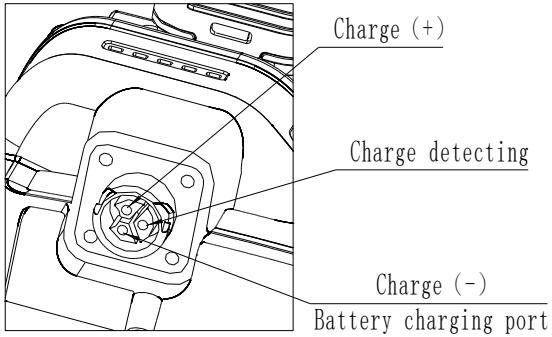
The adjustments and maintenances for forks and shock absorbers differ among the brands. Please follow the fork and shock absorber user's manual, which is shipped together with the motorcycle.

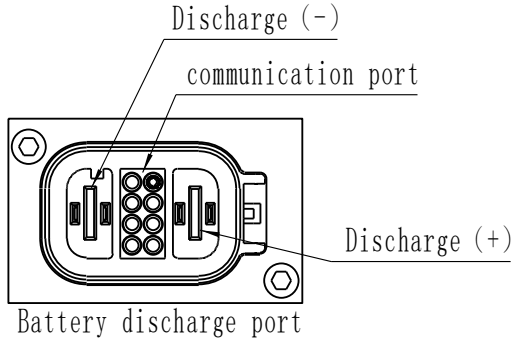
Remarks: No matter for Talaria, FastAce or DNM forks and absorbers, Talaria did strict tests to make sure the performance, durability, and comfort be qualified for production.

Charging and Battery Information

Battery Basic Information

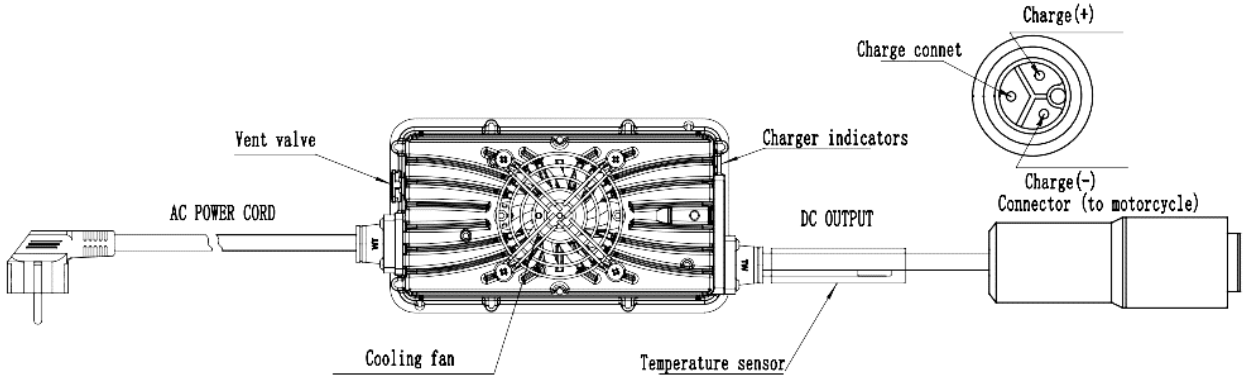
Talaria Sting R electric motorcycle uses high-performance and high-rate lithium-ion battery with a safe voltage of 60V. The battery can be used at the temperature of -20℃–60℃, optimally at 10℃–30℃. Too low or too high temperature will adversely affect the performance and lifetime of the battery, so please do not use it at a temperature beyond this range.





Warning!

1. Do not charge the battery under 0℃, or it may be damaged. Please wait until the battery temperature rises.
2. Too low temperature will affect the battery performance, leading to a slight drop of endurance mileage. It will go back to normal when the temperature rises.
3. The battery is provided with well-improved protection function, saving itself from the damage arising from overcharge. However, deep discharge during use will affect the battery performance. Please charge the battery promptly in the case of low power.



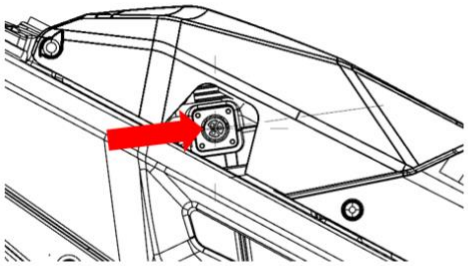
4. Please charge the battery frequently. The lithium battery used in this electric motorcycle operates with no memory effect, so it can be charged at any time, which is also favorable for the battery to stay healthy.
5. In case of long-term storage, charge the battery to about 50%, turn off the circuit breaker and disconnect the discharge plug. Charge the battery once every 3 months to prevent it from losing activity and avoid compromised performance.

Charging and Battery Information

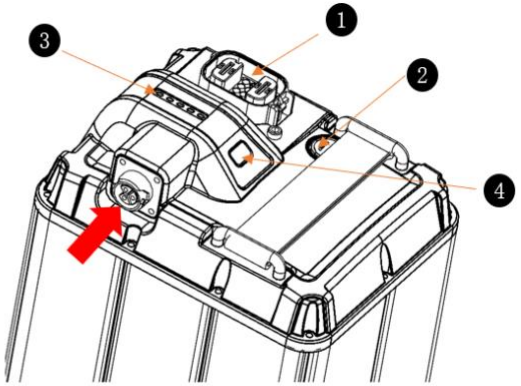
CAUTION:

Sideslip may happen in the case that only applicate front brake or rear brake. It is safer to applicate combined braking. When the motor temperature and controller temperature is high, or the battery power is too low, the power output will automatically decrease. This is not a malfunction. After the temperature back to be normal, the motorcycle will automatically have the full power output again.

Battery Charging and Charger Usage



On-Motorcycle Charging



Battery Charging Interface

1. Battery Discharge Port
2. Breather Valve
3. Battery indicator
4. Activating Button

1. The electric motorcycle uses a customized lithium-ion battery charger. Do not use other chargers, or it may cause battery damage or danger.
2. Check whether the input voltage of the charger is consistent with the grid voltage AC110V/AC230V.
3. The battery can be charged on your motorcycle through the On-Motorcycle Charging Interface, or you can also get out the battery to charge directly.
4. When charging, the charger and battery charging interface must be connected properly before connecting the charger to the grid socket. After charging, disconnect the charger and grid socket first, and then disconnect the charger and battery after the indicator light goes out. If you plug the

Charging and Battery Information

charger into the grid socket first, and then, please be sure to connect the charger and battery charging interface properly within 3 seconds. Otherwise, the battery cannot be detected, the charger will run the protection setting, and automatically shut down!

5. When the red indicator of the charger flashes, it indicates that charging is ongoing. When the green indicator of the charger is on, it indicates that the battery is fully charged. Usually, the charging time will be 2~4 hours to fully charge the battery, it will depend on the SOC of the battery and the user's choice of charger.

6. The charger will shut down automatically after the battery is fully charged. But it’s strongly suggested that always avoid connecting the charger to the grid socket for a long time, which shall not exceed 6 hours.

7. It is strictly prohibited for untrained people to disassemble the battery, otherwise, may lead to battery damage and danger.

8. When the battery enters inactive status, it can be activated with the activating button or by connecting the charger.

Charging Precautions

1. When charging, please park your motorcycle or put battery in a safe place out of the reach of children.

2. The internal temperature for the battery which has just been discharged is high. Do not charge it immediately. It’s recommended to charge the battery after ventilation and heat dissipation for 30 minutes.

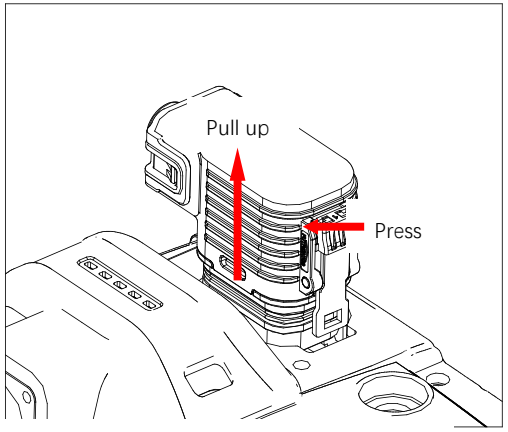
3. Avoid using the battery immediately after it is fully charged. Let it stand for 10 minutes before using.

4. It is strictly prohibited to cover the charger with any object when using it. This charger is for indoor use. Please use it in a dry and well-ventilated place.

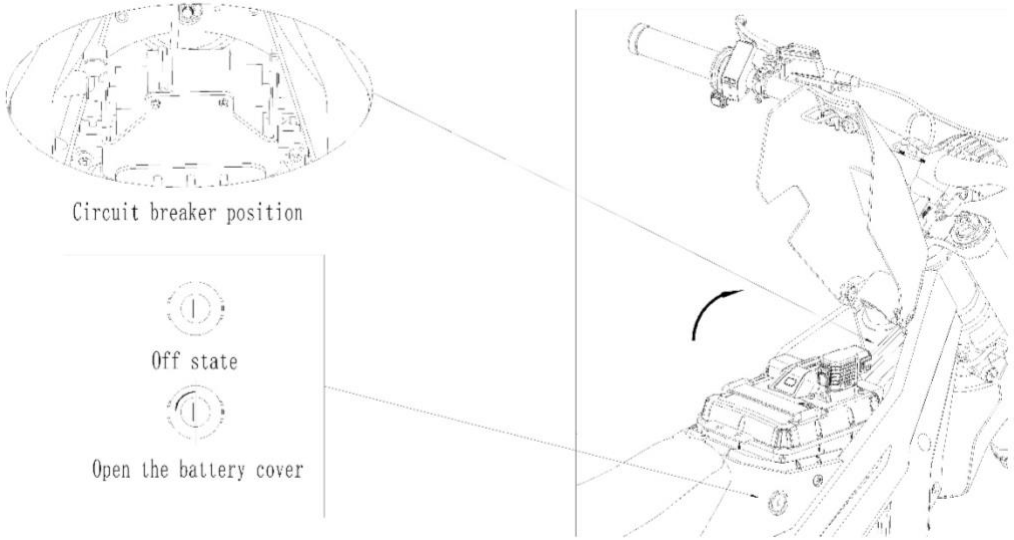
5. In case you find peculiar smell or high temperature during charging, or the battery is not fully charged after charging for a long time, please stop charging immediately and send it to the local dealer for maintenance.

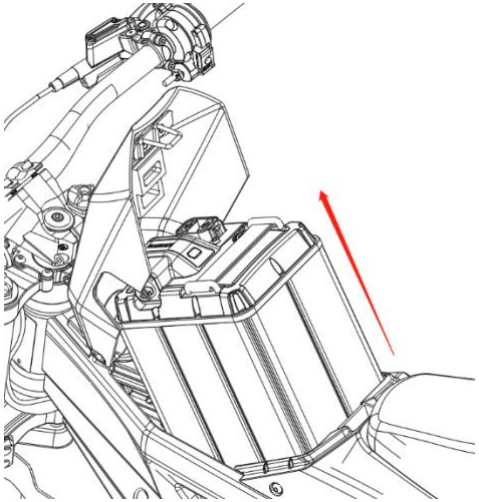
Charging and Battery Information

Remove the Battery



Disconnect the discharge plug from the battery





1、Turn off the electric motorcycle, use the electric motorcycle key to open the battery case lock on the right side of the electric motorcycle, then open the battery case cover forward, and you can see the battery.

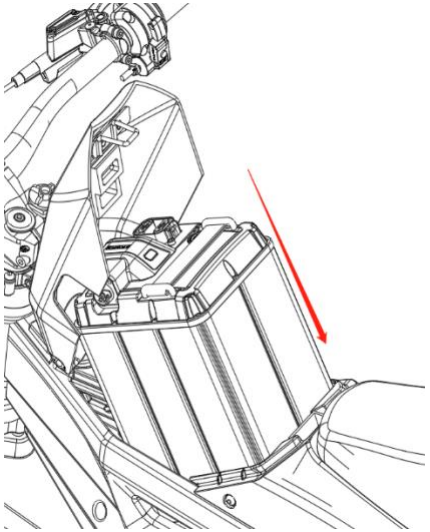
2、 Switch off the circuit breaker in front of the battery, remove the discharge plug on the battery, then pull up to take out the battery and close the battery case cover.

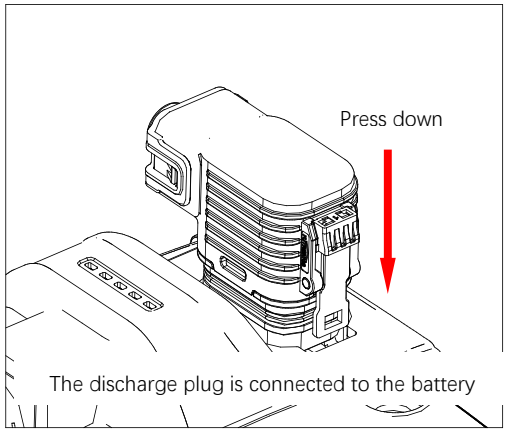
CAUTION:

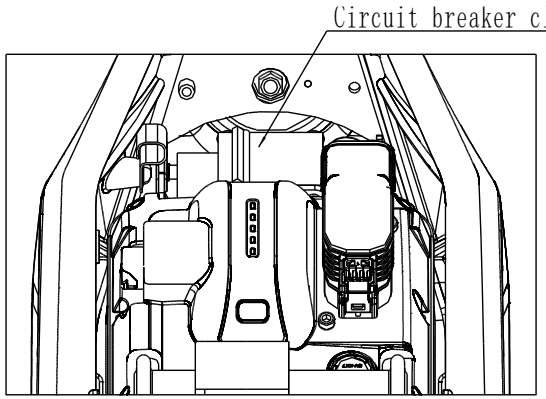
The circuit breaker must be switched off before plugging in and out the battery plug.

Charging and Battery Information

Install the Battery







The circuit breaker is located in the battery compartment, near the front of the battery

1. Use the key to open the battery case cover.
2. Put in the battery from the top, pay attention to the front and rear direction of the battery (the charging port should toward the left), and plug in the discharge plug. Then switch on the circuit breaker, close and lock the battery case cover, and remove the key.

CAUTION:

The discharge plug must be plugged in place; otherwise, the electric motorcycle cannot correctly identify the battery, which will result in failure to start.

Malfunction Inspection and Troubleshooting

Precautions for High Voltage Electrical Components

Your Talaria Sting R electric motorcycle contains high voltage electrical components. These components is dangerous and can cause personal injury, severe burns, electric shock or even fatal injury unless appropriate preventive measures are taken.

Always follow the instructions on the label of each electrical component, which is very important for your safety.

Do not touch, attempt to remove or replace any high-voltage components, cables (identified by orange outer protection) or connectors. In the event of an accident with the electric motorcycle, do not touch any high-voltage cable connector or assembly connected to the cable. In case of fire of the electric motorcycle, use a carbon dioxide or class-D dry chemical fire extinguisher to put out the fire. After the fire is extinguished, please do not start the motorcycle, and send it to the authorized dealer to repair.

Warning: Your motorcycle works on high voltage. During and after the start-up and when your motorcycle is powered off, the high voltage components may be too hot to touch by hand. Pay attention to high voltage and high temperature. Follow the label instructions everywhere on your motorcycle.

Warning: The high-voltage components of the motorcycle is maintenance-free to customers. Disassembly, removal or replacement of high-voltage components, cables or connectors may cause severe burns or electric shock, which may lead to severe injury or death. High-voltage cables are made in orange for easy identification (see response information in the latter section of this manual).

Remarks: All the motorcycles have been carefully inspected before delivery. But there will inevitably be some technical problems even after inspection. The following information serves as a guide to help you identify the problem and repair it by yourself if possible. If you cannot solve the problem, please send it to an authorized dealer for solution.

Malfunction Inspection and Troubleshooting

General Troubleshooting

Failure	Possible Cause	Suggested Solution
Motorcycle cannot start	1. The battery is out of power; 2. Didn't press the power button to power on the motorcycle; 3. Motor phase wires are incorrectly connected or loose.	1. Charge the battery. 2. Press the power button to power on the motorcycle. 3. Check the U, V and W phase wires connections.
charger doesn't work.	No AC power supply.	Check whether the AC power supply socket work correctly or it's broken.
Handlebars shake	Incorrect tire pressure.	Inflate the tires with suggested tire pressure.
	Deformed front tire	Replace the front tire with the factory stock front tire.
	Worn Tire (tire tread is over worn)	Relace the tire(s) with the factory stock tire(s).

Dash Error Codes, Failures and Troubleshooting

I/N	Error Code	Failure	Possible Cause	Suggested Solution	Remarks
1	E01	Protection IC failure	The inner communication of the chip is disconnected	Restarting	If the error code still shows, send the motorcycle to the nearest dealer for service.
2	E02	Battery Cell disconnection	The cell is not firmly welded, resulting in dry joint or fracture of connecting piece and poor contact of data collecting wire.	Restarting	If the error code still shows, send the motorcycle to the nearest dealer for service.
3	E03	Unbalanced battery cell voltage	The battery cell voltage difference is more than 500mV will have the error code show on the dash.	Restarting	If the error code still shows, send the motorcycle to the nearest dealer for service.
4	E05	Storage error	Storage devices got failure.	Restarting	If the error code still shows, send the motorcycle to the nearest dealer for service.
5	E06	Clock error	Clock device got failure	Restarting	If the error code still shows, send the motorcycle to the nearest dealer for service.

Malfunction Inspection and Troubleshooting

6	E07	Discharge MOS error	Discharge circuit got failure	Restarting	If the error code still shows, send the motorcycle to the nearest dealer for service.
7	E08	Charging MOS error	Charging circuit got failure	Restarting	If the error code still shows, send the motorcycle to the nearest dealer for service.
8	E09	Overcharge error	1、Charging voltage is higher than single battery cell's over charge protection voltage 4250mV. 2、BMS misinformation.	Restarting	This error will not affect the motorcycle riding, but will have the charging unavailable. If the error code still shows, send the motorcycle to the nearest dealer for service.
9	E10	Level 1 over discharge	Over discharge caused low battery protection error	Charge the battery immediately.	
10	E11	Level 2 over discharge			
11	E12	Level1 over discharge current	Discharge current is greater than the level 1 overcurrent protection setting.	Stop the over current discharge or reduce the discharge current for 1 minute, the error will disappear automatically.	If the error code still shows, send the motorcycle to the nearest dealer for service.
12	E13	Level2 over discharge current	Discharge current is greater than the level 2 overcurrent protection setting.	Stop the over current discharge or control the discharge current less than 110A, or check whether there's the short circuit? If yes, eliminate the short circuit.	If the error code still shows, send the motorcycle to the nearest dealer for service.
13	E14	Over charging current error	The charging current is greater than the protection setting.	Check whether the charger is the right stock charger to match the battery.	If error still show with the matched stock charger, send the motorcycle to the nearest dealer for service.
14	E15	Soft start failure	When the battery is connected with load, the external load capacitance is too large, resulting in failure to start directly.	Please power on and start the motorcycle according to this owner’s manual.	
15	E16	Overtime pre-charge error	1. BMS fault. 2. Charger is damaged or does not match.	Replace a stock charger	If the error code still shows, send the motorcycle to the nearest dealer for service.
16	E17	MOS temperature sensor error	Caused by MOS temperature sensor failure.	Restarting	If the error code still shows, send the motorcycle to the nearest dealer for service.
17	E18	Battery cell temperature sensor error	Caused by battery cell temperature sensor failure.	Restarting	If the error code still shows, send the motorcycle to the nearest dealer for service.
18	E19	Battery discharging overtemperature	the battery’s inner temperature is overheated when it’s discharging.	Stop riding your motorcycle until the discharge overtemperature protection unlocked.	It's strongly suggested to follow this owner's manual to use your motorcycle.
19	E20	Battery charging overtemperature	The high battery cell temperature caused this error.	Stop charging until the charging overtemperature protection unlocked.	It's strongly suggested to follow this owner's manual to use your motorcycle.

Malfunction Inspection and Troubleshooting

20	E21	Battery discharging low temperature	When the battery is discharging, if the temperature is too low, the battery will carry out the low temperature protection function.	Stop riding your motorcycle until the low temperature protection unlocked.	It's strongly suggested to follow this owner's manual to use your motorcycle.
21	E22	Battery charging low temperature	When the battery is charging, if the temperature is too low, the battery will carry out the low temperature protection function.	Stop charging the battery until the low temperature protection unlocked.	It's strongly suggested to follow this owner's manual to use your motorcycle.
22	E23	Discharging MOS overtemperature	MOS overtemperature which is caused by battery discharging.	Stop riding your motorcycle until the overtemperature protection unlocked.	It's strongly suggested to follow this owner's manual to use your motorcycle.
23	E24	Charging MOS overtemperature	MOS overtemperature which is caused by battery charging.	Stop charging the battery until the overtemperature protection unlocked.	It's strongly suggested to follow this owner's manual to use your motorcycle.
24	E25	Soft-start circuit overtemperature	If the temperature is high when use the soft-start, will cause the discharging MOS not work, and lead the entire soft-start circuit to be overtemperature.	Stop riding your motorcycle until the overtemperature protection unlocked.	
25	E26	Storage error	It's caused by the faulty operation during the production.	Send your motorcycle to the nearest dealer to repair.	
26	E29	Level 3 over current error	Short circuit in the external circuit causes this error.	Inspect and eliminate the short circuit.	If the error code still shows, send the motorcycle to the nearest dealer for service.
27	E30	Level 4 over current error			
28	E31	Setting error	It's caused by the faulty operation during the production.	Send your motorcycle to the nearest dealer to repair.	
29	E33	Controller phase wire over current	Controller phase wire current is equal or greater than the protection setting.	1. Power off your motorcycle, check the whether the motor phase wire terminal got loose, or broken. And then, check whether the motor outlet phase sequence corresponds to the U / V / W on the controller. Finally, check whether the magnetic encoder output wire corresponds to the yellow, green and blue wires on the harness assy. 2. Check whether anything stuck the rear wheel.	If the error code still shows, replace the magnetic encoder or send the motorcycle to the nearest dealer for service.
30	E34	Controller busbar over current error	Controller busbar current is equal or greater than the protection setting.	1. Power off your motorcycle, check the whether the motor phase wire terminal got loose, or broken. And then, check whether the motor outlet phase sequence corresponds to the U / V / W on the controller. Finally, check whether the magnetic encoder output wire corresponds to the yellow, green and blue wires on the harness assy. 2. Check whether anything stuck the rear wheel.	If the error code still shows, replace the magnetic encoder or send the motorcycle to the nearest dealer for service.
31	E35	Controller MOS error	Controller MOS welding loose or MOS is broken.	Replace the controller or send the motorcycle to the nearest dealer for service.	

Malfunction Inspection and Troubleshooting

32	E36	Tip-over sensor error	1. The electric motorcycle tipped over. 2. Tip-over sensor got a poor contact, or tip-over sensor broken.	1. Power off your motorcycle, and straighten it. 2. Restart your motorcycle, and the fault is eliminated.	If the error code still shows, send the motorcycle to the nearest dealer for service.
33	E37	Throttle error	1. Throttle connection loose. 2. The throttle didn't snap back to the close position before start. 3.The throttle is broken.	1. Check the throttle connection is loose or broken. 2. Make sure the throttle snap back to the close position before start. 3. If still have the throttle error. Then, just replace a new throttle.	
34	E38	Low battery protection	When the battery is low, the low battery protection will run automatically.	Charge the battery immediately.	
35	E39	Over voltage protection	When the voltage of the battery is equal or greater than the protection setting, the over voltage protection will run automatically.	Please be sure to use Talaria's stock battery.	If the error code still shows, send the motorcycle to the nearest dealer for service.
36	E40	Magnetic encoder error	Magnetic encoder got a poor contact or it's broken.	Check whether the magnetic encoder got a poor contact or is broken? If yes, repair or replace it.	If the error code still shows, send the motorcycle to the nearest dealer for service.
37	E41	Motor phase wire error	Motor phase wire loose or incorrect connection caused the error.	Power off your motorcycle, check the whether the motor phase wire terminal got loose, or broken. And then, check whether the motor outlet phase sequence corresponds to the U / V / W on the controller. Finally, check whether the magnetic encoder output wire corresponds to the yellow, green and blue wires on the harness assy.	If the error code still shows, send the motorcycle to the nearest dealer for service.
38	E42	Motor overtemperature error	Long-time high-power output leads to motor overtemperature to cause the error. Or the temperature sensor got poor connection or damaged.	Stop riding your motorcycle after the overtemperature protection unlocked. Or check whether the magnetic encoder's connection loose. Or replace the magnetic encoder.	If the error code still shows, send the motorcycle to the nearest dealer for service.
39	E43	Motor temperature sensor error	Long-time high-power output leads to motor overtemperature to cause the error. Or the temperature sensor got poor connection or damaged.	Stop riding your motorcycle after the overtemperature protection unlocked. Or check whether the magnetic encoder's connection loose. Or replace the magnetic encoder.	If the error code still shows, send the motorcycle to the nearest dealer for service.
40	E44	Controller overtemperature error	Long-time high-power output leads to controller over temperature.	Stop riding your motorcycle after the overtemperature protection unlocked. If the error still shows, replace a new controller.	
41	E45	Controller temperature sensor error	Long-time high-power output leads to controller overtemperature to cause the error. Or the temperature sensor got poor connection or damaged.	Stop riding your motorcycle after the overtemperature protection unlocked. If the error still shows, replace a new controller.	
42	E46	Current sensor error	Current sensor failure causes the error.	Send the motorcycle to the nearest dealer for service.	

Malfunction Inspection and Troubleshooting

43	E47	Motor lack of phase	1. Didn't press the power button. 2. Motor phase wires (U/V/W) loose or incorrect connection.	1. Press the power button to restart your motorcycle. 2. Power off your motorcycle. Then, check the whether the motor phase wire terminal got loose, or broken. And then, check whether the motor outlet phase sequence corresponds to the U / V / W on the controller. Finally, check whether the magnetic encoder output wire corresponds to the yellow, green and blue wires on the harness assy.	If the error code still shows, send the motorcycle to the nearest dealer for service.
44	E48	Motor locked-rotor protection error	If the rear wheel is stuck, and cannot rotate, or the motor, gearbox, brake, chain is stuck, will cause the discharge current load to be equal or greater than the protection setting. Then, cause the error.	1. Power off your motorcycle, put it on a stand, check whether the rear wheel can rotate normally, if anything stuck the rear wheel, please eliminate it. And please also check whether there're things stuck the motor, gearbox, chain and brake. If yes, please eliminate it. 2. Choose the right ground to ride your motorcycle.	If the error code still shows, send the motorcycle to the nearest dealer for service.
45	E49	Communication error	CAN communication wire loose, fall off or hardware failure.	Power off your motorcycle, check all the CAN connections on your motorcycle to see whether there's the loose or damages (Dash connection, controller connection, battery communication connection. These 3 positions have CAN connections). If there's the loose or damages, just repair them, and re-start your motorcycle, the error will be solved.	If the error code still shows, send the motorcycle to the nearest dealer for service.

Maintaining Your Electric Motorcycle

Warranty Description

Dear customer:

For your rights and interests, please keep this owner's manual properly. Please inspect and test the electric motorcycle when you purchase, and ask the salesman to offer valid invoice, warranty card, repair addresses, contact phone number, and other information.

If you find any problems while using the electric motorcycle, you are entitled to get the after-sale service accord to the warranty policy from the dealer, where you ordered the electric motorcycle, by providing the purchase invoice and warranty card.

If the any parts fail during the warranty period and cannot be used normally after maintenance, they will be replaced free of charge.

Caution: Any failures caused by abuse use, or DIY, it will enable the warranty to be invalid.

For any cross-border purchases, will cause the local distributor or dealers not fulfil the warranty, therefore, we strongly suggest to order from the authorized local dealers.

Owner's Responsibilities

Listed below are the responsibilities afforded to the owner:

- This Owner's Manual should be considered a permanent part of this motorcycle and should remain with it even if the motorcycle is subsequently sold.
- Perform routine care and maintenance of your electric motorcycle as detailed in this Owner's Manual.
- Use only Talaria approved parts and Talaria Motorcycles accessories.
- The operator is responsible for learning and obeying all country, federal, state, and local laws governing the operations of an electric motorcycle.
- Always wear a regionally approved helmet, goggles, appropriate boots, and all other appropriate safety equipment when operating an electric motorcycle.

Maintaining Your Electric Motorcycle

Scheduled Inspection

To prolong the lifetime of your electric motorcycle and ensure a safe and comfortable riding, regular inspection and maintenance is recommended. If motorcycle do not use for a long term, it should also be inspected regularly

The first inspection and maintenance for a new motorcycle should be done after running for 300KM.

Pay attention to safety when you inspect or maintain the motorcycle.

Park the motorcycle at an open and flat ground.

Any issues are found during the riding and need to be inspected, it's strongly suggested to find a safe ground to carry out the inspections, and pay attention to the surroundings.

Any issues found through the inspection should be eliminated before you ride the motorcycle. If it is difficult to solve it by yourself, please send the motorcycle to the nearest dealer for service.

CAUTION:

The front and rear brakes are disc brakes. If the brake pads are severely worn, shall replace them in time.
Keep the disc brake system clean in daily use to avoid sand accumulation for a long time, especially oil stain.

Parts/Maintenance Items

Front Fork Inspection: Check the front fork for any bending, deformation, damages, looseness, oil leakage and other faults. Press the handlebar up and down to check for any abnormal sounds caused by front fork fault.

Brake Inspection:

1. Check whether the free clearance of the brake lever is within the specified range (15-30mm). If the measured result does not meet the requirement,

Maintaining Your Electric Motorcycle

it shall be adjusted.
2. When driving at low speed on a dry and flat road, use the front and rear brakes respectively to check whether the brakes work correctly.

Inspection For Tire and Other Parts:
1. Inspect the air pressure with a tire barometer when the tire is in normal temperature status.
2. Inspect the tire for any cracks, damages, foreign matters and abnormal wears.
3. Inspect whether the spokes are loose.
4. Inspect the tension of the chain. The chain should move 10-25mm for free play.

Caution: Stones, glass, nails and other foreign matters on the ground will easily damage the tire as tire contact with the ground for a long-term. When riding, make sure to observe the road surface to avoid the places where the tire may be damaged. In addition, regularly check the tire for any obvious cracks and other damages, whether it has been penetrated by stones, glass and other foreign matters, and whether there are abnormal wears.

Inspection For Tire Tread Depth:
Check the tire wear and the tread depth. Replace the tire if 2/3 of the tread are worn off. When the tire makes abnormal noise and swings during riding, please send the motorcycle to the nearest dealer for inspection and maintenance. It is recommended to set the locking torque of the rear fork axle as 45-55N.m and the locking torque of rear axle nut as 50-60N.m. The locking torque of the front wheel axle is 15N.m.
Caution: Hold the brake lever tightly. If the brake still can't achieve the ideal braking function, check whether the brake disc is clean. If the problem is still not solved, send the motorcycle to the nearest dealer for inspection and maintenance.

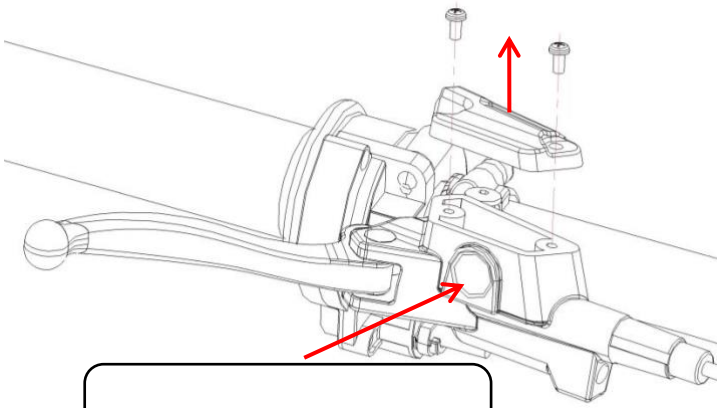
Battery Inspection:
The motorcycle equipped with a sealed lithium-ion battery. Fully charge the battery before inspection, and then use a multimeter to measure the voltage for cathode and anode. The full voltage should be between 65.5–67.2. Otherwise, please send the motorcycle to the nearest dealer for inspection and maintenance.

Caution: Please power off the motorcycle before removing or installing the battery. If the battery cannot be pushed in, do not operate it by force. Pull out the battery and check whether it is stuck by something.

Maintaining Your Electric Motorcycle

Inspection for brake oil level

Inspect the brake oil level for front and rear brake through the brake fluid reservoir. If the brake fluid level is low, then, need to open the brake fluid container cap to add the specified mineral fluid for the disc brake.



Note: Before checking the brake fluid level, the electric motorcycle should remain upright.

1. Remove the two M3 screws from the brake fluid container cover.
2. Add the specified mineral fluid (Type No.: HF10-2) for disc brake.
3. Check the sealing cover for any wears or damages, and make sure it's in the correct position.

CAUTION:

Do not spill the brake fluid on the paint surface; otherwise, it may cause cracks on the surface of the paint parts.

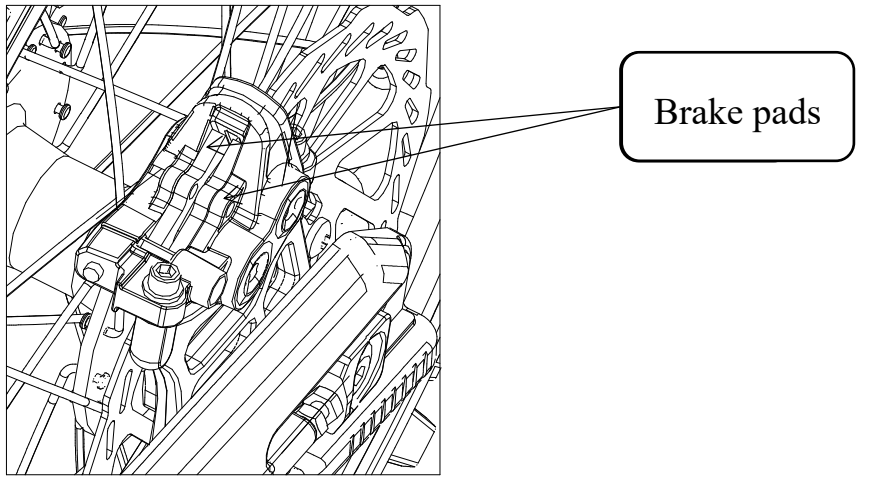
Before removing the brake fluid container cover, be sure to place a clean rag under the brake oil container.

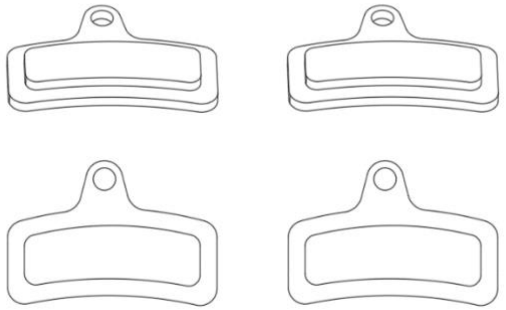
At low brake fluid level, there may be brake pad wear or leakage of hydraulic system. Check the brake pads for wear and/or the hydraulic system for leakage before riding. Add the specified mineral fluid (Type No.: HF10-2) for disc brake. Do not use other kinds of brake fluid. Fixing the brake fluid container cover and tighten the M3 screws. The tighten torque is 1.5N.m.

Maintaining Your Electric Motorcycle

Inspection for brake pads

Check the brake pads and visually check the brakes by observing the remaining brake pad materials on both sides of the brake caliper.





Brake pads

Replace the brake pads when the free clearance of the brake lever exceeds the specified range (15–30mm), Or the total thickness of less than 3mm brake pads, please replace the brake pads.

Inspection for brake disc

Inspect the thickness of the brake disc regularly and replace the disc if the thickness is less than 1.9 mm.

WARNING! When use new brake discs or new brake pads, at first, it should be lightly squeeze and hold the brake for several times at low speed (less than 20km/h), so as to generate appropriate braking friction.

Maintaining Your Electric Motorcycle

Tire inflation

WARNING! Under-inflation is a common cause of tire damages and may result in severe tire cracking, tire tread separation, "blowout", or unexpected loss of motorcycle control, causing serious injury or death.

Tire pressure should be checked and adjusted to the proper tire pressure levels before each ride. Tire pressure should be checked using an accurate gauge when the tires are cool. Always replace the valve stem cap when finished adjusting tire pressures.

Front tire: 225Kpa; Rear tire: 225Kpa

Cleaning The Drive Chain.

WARNING! Always wear safety glasses when cleaning the chain to prevent eye injuries.

WARNING! Never place your hand or any other body part between the chain and sprockets. Work with the chain only in the middle between the two sprockets; failure to do so could result in serious injury.

WARNING! Do not allow any of the drive chain cleaner to get on the brake rotors or brake pads. If the brake rotors or brake pads are contaminated with cleaner, it will impair the motorcycle's ability to stop. This could result in serious injury or death.

WARNING! Never have the motor spinning the wheel during cleaning. Turn the wheel only by hand. Failure to do so could result in serious injury or death.

Follow the manufacturer's instructions for the chain cleaner you are using; below are the general guidelines.

1. Remove the key from the key switch.
2. Set the motorcycle on a stand or lift so the rear wheel is free to spin. While turning the wheel by HAND, spray the inside of your entire chain with a good coating of chain cleaner and let it sit for a few minutes.
3. Using a brush, fill the bristles with spray from the chain cleaner. Begin gently scrubbing the chain on the top of your swingarm using the brush.

Maintaining Your Electric Motorcycle

4. Do this for the entire length of the chain. Now do the same thing for the inside/bottom of the chain.
5. Using the brush, clean both sides of the rear sprocket. Let this soak for 5 minutes.
6. Using a water hose, rinse the entire chain. Then, using a clean rag, wipe any residual moisture from the chain.

Drive Chain Lubrication.

WARNING! Always wear safety goggle when lubricating the drive chain to prevent eye injuries.

WARNING! Never have the motor spinning the wheel. Turn the wheel only by hand. Failure to do so could result in serious injury.

WARNING! Never place your hand between the chain and sprockets. Work with the chain only in the middle between the two sprockets. Failure to do so could result in serious injury.

WARNING! Do not allow any of the lubricant to get on the brake discs or brake pads. If the brake rotors or brake pads are contaminated with lubricant, it will impair the motorcycle’s ability to stop. This could result in serious injury or death.

Follow the manufacturer's instructions for the chain cleaner you are using; below are the general guidelines. Do not allow any of the lubricant to get on the brake pads.

To Lubricate the Drive Chain:

1. Turn the wheel backwards slowly and spray the lubricant on the inside of the chain inks.
2. Turn the wheel backwards slowly and spray the lubricant on the outside of the chain links.
3. Let the electric motorcycle stand for 30 minutes to allow the lubricant to penetrate the links rollers.

Maintaining Your Electric Motorcycle

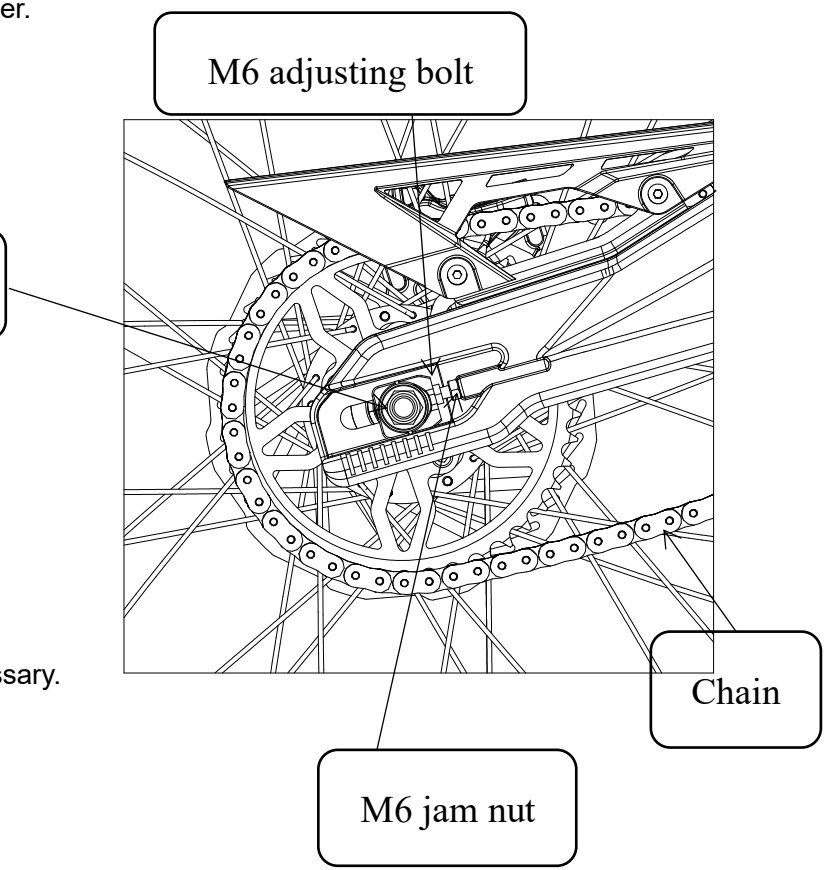
Checking the drive chain

1. Remove the key from the ignition switch, as well as to switch off the circuit breaker.
2. Using a ruler, grasp the chain halfway between the front and rear sprockets.
3. The chain shall have a tension of 15mm–25mm.
4. If the chain's free play is not within specifications it will need to be adjusted.

Adjusting the drive chain

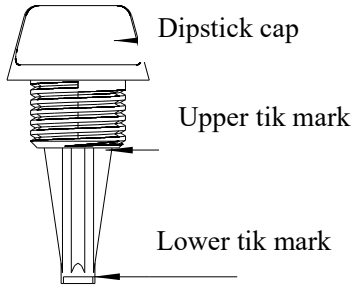
Note: Adjust both sides equally.

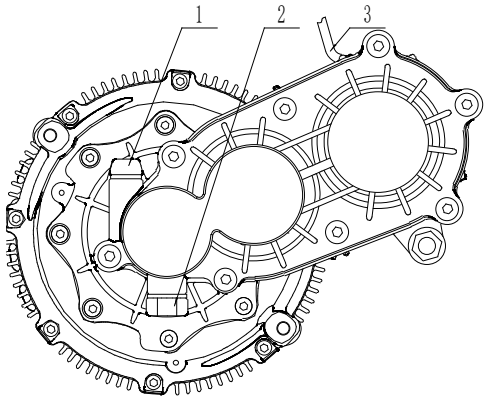
1. Remove key from the ignition switch and switch off the circuit breaker.
2. Loosen the rear axle nut on right side of the electric motorcycle.
3. Loosen the (left and right) M6 jam nuts.
4. Turn the (left and right) M6 adjustment bolts 1/4 turn at a time until the chain adjustment is within specification.
5. Tighten left and right jam nuts to secure the chain.
6. Tighten the axle nut on right side of moped. Torque 75 lb·ft (102 N.m).
7. Test ride the electric motorcycle.
8. Recheck the chain for proper adjustment after the test ride and readjust, if necessary.



Maintaining Your Electric Motorcycle

Maintenance of motor-gearbox assembly and controller





Motor-gearbox assembly

1-Dipstick cap and oil filler

2-Oil drain bolt

3-Gas vent

1. Regularly check whether the screws of the motor-gearbox assembly are loose and whether the gear oil is between the upper and lower tik marks. It is strictly prohibited to ride when the gear oil is insufficient, because it will cause damage to the gearbox. After changing the gear oil during the run-in period for 300km, change the gear oil every 5000km (gear oil model: GL-5 85W/90,75ml-90ml). Loosen the screw of dipstick cap on the gearbox, then loosen oil drain bolt, and the gear oil flows out through the oil drain hole. If no gear oil flows out, clean the magnetic core of the oil drain bolt, reinstall it into the gearbox, and add new gear oil with an amount of 70–90ml.
2. Regularly check whether the wiring of motor and controller is loose or insulated.
3. Regularly check whether the fuse is loose.
4. Do not ride the electric motorcycle in deep water, otherwise, the motor may work incorrectly.
5. It’s not recommended to use high-pressure washer to flush the motor and controller.

Caution: If you will lay down to transport the electric motorcycle, please keep the clip on the gear box vent pipe being closed to prevent the gear oil leakage. Before riding, please also make sure the clip on the gear box vent pipe be opened to have the gearbox breath valve work correctly.

Maintenance Record

Scheduled Maintenance

The required maintenance schedule that follows, specifies how often you should have your Talaria Sting R electric motorcycle serviced and what items need attention. It is essential to have your Talaria Sting R electric motorcycle serviced as scheduled to maintain safe, dependable performance.

The service intervals in this maintenance schedule are based on average riding conditions. Some items will need more frequent service if you ride in unusually wet or dusty areas. Consult your dealer for recommendations applicable to your individual needs and use. It is recommended that you have your Talaria Sting R electric motorcycle serviced every 12 months by an OFFICIALLY AUTHORIZED Talaria Dealer regardless of the distance ridden.

Maintenance Schedule

The scheduled maintenance must be performed in accordance with this chart to keep the Talaria Sting R electric motorcycle in top running condition. The initial maintenance is vitally important and must not be neglected. Where time and mileage are listed, follow the interval that occurs first.

Item	Routine	Every Ride	1000KM / 1 Month	6000KM / 6 Months	12000KM / 12 Months	18000KM / 18 Months	25000KM / 24 Months	32000KM / 32 Months
Brake (front and rear)	Check brake fluid level. Add brake fluid as necessary.	√	√	√	√	√	√	√
	Check thickness of the brake pads. Replace it as necessary.	√	√	√	√	√	√	√
	Check thickness of the brake discs. Replace it as necessary.	√	√	√	√	√	√	√
	Checked brake fluid leakage	√	√	√	√	√	√	√
	Check whether the brake is loose	√	√	√	√	√	√	√

Maintenance Record

	Replace brake fluid				√		√	√
	Check brake levers. Adjust or replace if necessary.	√	√	√	√	√	√	√
Wheels and Tires	Check tire pressure. See page 41. Correct if necessary.	√	√	√	√	√	√	√
	Check tread depth, and for damage. Replace if necessary.	√	√	√	√	√	√	√
	Check when the spokes is loose. Fasten if necessary.	√	√	√	√	√	√	√
	Check whether the front and rear wheels are aligned. Adjust if necessary.	√	√	√	√	√	√	√
	Check bearings for smooth operation. Replace if necessary.		√	√	√	√	√	√
Gearbox	See page 43. Adjust if necessary.	√	√	√	√	√	√	√
	Inspect belt for signs of damage or cracking. Replace if necessary.	√	√	√	√	√	√	√
Driving Chain	Check driving chain tension. See page 57. Adjust if necessary.	√	√	√	√	√	√	√
	Driving chain clear and lubricating		√	√	√	√	√	√
Steering Bearings	Check for looseness.	√	√	√	√	√	√	√
	Repack with all-purpose grease.		√	√		√	√	√
Front Fork and Rear Shock	Check operation, Service/adjust/ replace if necessary.	√	√	√	√	√	√	√

Maintenance Record

Absorber (Please also refer to fork and shock absorber manual).	Check oil leakage. Service/rebuild/replace if necessary.	√	√	√	√	√	√	√
Throttle	Check operation. Adjust or replace if necessary.	√	√	√	√	√	√	√
Side Kickstand	Check operation. Adjust or replace if necessary.	√	√	√	√	√	√	√
	Apply silicon grease lightly.		√	√	√	√	√	√
Motor	Check motor phase wire connections. Fasten if it's loose.	√	√	√	√	√	√	√
	Check magnetic coder. Fix if it's loose.	√	√	√	√	√	√	√
Heavy current cables	Check the heavy current cables for damages. Service/replace if necessary.	√	√	√	√	√	√	√
	Check the connections, Fasten if it's loose.	√	√	√	√	√	√	√
Fasteners	Check the fasteners' torque. Fasten if necessary.	√	√	√	√	√	√	√

Maintenance Record

Maintenance Record Card

Maintenance Record Card			
Date	**Odometer reading**	**Maintenance**	**Remarks**

Basic Information	Motorcycle Model	STING R MX □ STING R L1e □	
Owner’s Name		Order Date	
VIN			