PUSH FURTHER

TALARIA

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Owner's-Manual

KOMODO





绿线为成品刀线

Table of Contents

Introduction 01
- An Important Message From Talaria 01
- About This Manual 02
- Transporting 03

Identification Umbers 04
- Vehicle Identification Number (VIN) 04
- Motor Serial Number\Controller Serial Number\Battery Pack Serial Number 06

Safety Information 07
- Useful Information For Safe Riding 07
- Anti-Theft Alarm Information 09
- Location of Important Labels 10

Controls and Components 11
- Top View 11
- Left Side View 12
- Right Side View 13
- Dash Overview 14

Starting And Operating 20
- Pre-Ride Inspection 20
- Riding Operation 22
- Adjusting the Handlebar Installation Position 24

Adjusting the Front Fork 25
Adjusting the Rear Shock Absorber 26
Charging And Battery Information 27
Battery Charge And Discharge Connection 27
Battery Charging And Charger Usage. 28
Remove The Battery Pack 30
Install The Battery Pack 31
Precautions For High Voltage Electrical Components 32
Malfunction Inspection And Troubleshooting 33
General Troubleshooting. 33
Dash Error Codes, Failures And Troubleshooting. 34
Maintaining Your Electric Motorcycle 37
Owner's Responsibilities. 37
Maintenance Schedule Table 38
Maintenance Items 39
Regular Inspection. 40
Technical Specification 47
Electrical diagram 48
Service and Maintenance Record Card 51
Warranty Description. 51
Maintenance Record Card 52
Customer Information Card 52

An Important Message From Talaria

Congratulations and thank you for purchasing the 2025 Talaria Komodo electric motorcycle; we welcome you to the community of Talaria Motorcycles riders. This manual is designed to provide you with a better understanding of the operation, inspection, and basic maintenance requirements of this 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 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 Komodo, please ensure that this manual stays with the motorcycle; it is, by law, an important part of the vehicle. If you have any questions concerning the operation or maintenance of your motorcycle, please contact Talaria at info@talaria.cn.

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

About This Manual

This manual covers the following motorcycle (standard features and equipment include Integrated Battery Pack and charger, gearbox +chain drive, and regenerative braking):

- **Talaria Komodo MX: All Terrain**
- **Wire Wheels**

21-inch Diameter Front Wheel
18-inch Diameter Rear Wheel

- **Knobby Tires**

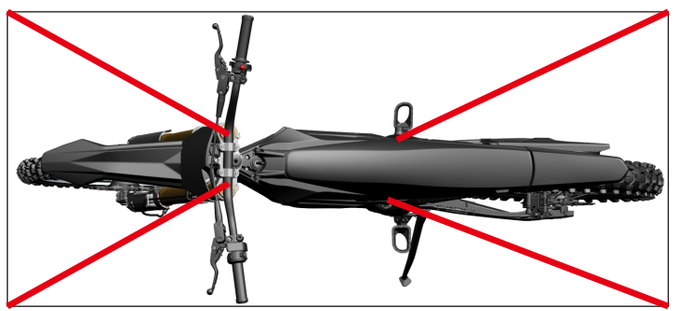
Locating and referencing information

The locate information about the electric motorcycle is included in the specific parts of this manual. Please read this manual carefully before you ride or maintain this electric motorcycle.

The terms “right” or “left” refer to the rider’s right or left when sitting on the motorcycle.

Transporting

It is recommended that the electric motorcycle be tied-down using ratchet straps while it is being transported. Place the ratchet straps around a frame contact point. Soft straps must be used to reduce scratches or other damages. Use two ratchet straps in the front and two in the rear. The tie down straps should be at a 45° angle from the motorcycle. Follow the manufacturer´s instructions for the ratchet straps you are using.



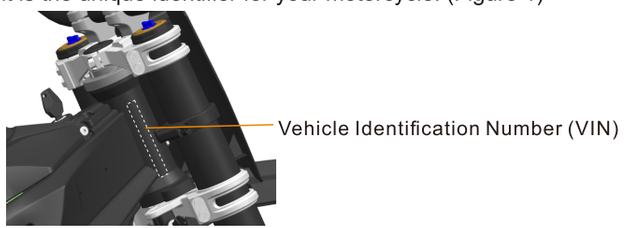
Caution

If it's indeed to lay down the electric motorcycle to transport, please close the gearbox breather tube clamp to prevent the gear oil to flow out. And before riding, please don't forget to open the gearbox breather tube clamp. Otherwise, when the gearbox inner temperature rise, the air pressure might force the gear oil splash out!

Vehicle Identification Number (VIN)

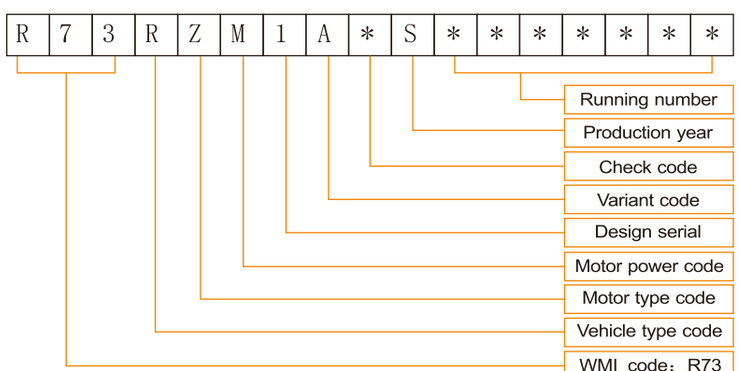
The VIN is a 17-digit number stamped on the right side of the frame's head tube. Do not alter or remove this number as it is the unique identifier for your motorcycle. (Figure 1)

Figure 1



VIN Breakdown

The following breakdown of the VIN 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.



Motor Serial Number

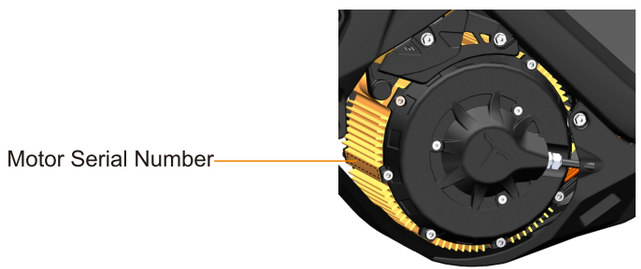
The motor serial number is stamped on the left-hand side of the motor housing. (Figure 2)

☆159YC9645416NA☆

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: ☆TL56D0-25040710001☆

Figure 2



Identification umbers

Battery Pack Serial Number



56D00 253H 00008

- Running Number
- Production Date
- Product Code

Battery Pack Serial Number
Example:56D00253H00008

Controller Serial Number



Controller Serial Number

XXXXXXXX - XXX - XX - 6K 22A12 0001

- Running Number
- Production Date
- Admin Code
- Speed Restriction Code
- Original Code

Useful Information For Safe Riding

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 motorcycle.

WARNING! Please read this manual carefully and completely before operating this motorcycle. Do not attempt to operate this 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 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 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 Your Battery Pack

CAUTION: Proper care of the motorcycle's power pack is essential! Once your motorcycle is charged, disconnect the battery pack from AC power. Leaving your motorcycle unplugged will maximize long-term battery pack health. See "Battery Charging and Charger Usage", on page 28 for other important information regarding the battery pack.

WARNING! Talaria Komodo electric motorcycle has four riding modes (E, S, H, R), it's strongly suggested the fresh rider starts from the E riding mode. See "Riding Modes" information on page 14.

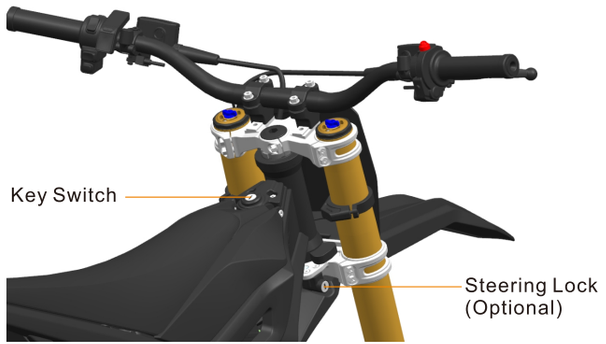
Talaria Komodo MX is designed for one seater off-road riding, and the rated loading capacity is 160KG.

It's completely prohibited to do any modifications of the powertrain.

It's strongly suggested not to use any of the aftermarket performance parts, such as forks, shock absorbers, brakes, rims, and so on, to apply on your Talaria Komodo electric motorcycle. these aftermarket parts are not well tested and qualified by Talaria. If you apply these aftermarket parts on your Talaria Komodo electric motorcycle, you do it at your own risk.

Anti-Theft Alarm Information





Key Switch: 1. Turn the key clockwise to “ ” position to pre-start the powertrain.
2. Turn the key clockwise to “ ” position to turn on the electric motorcycle.
3. Turn the key counter-clockwise to “ ” position to turn off the electric motorcycle.
4. Remove the key.

Caution: The key should be removed from the motorcycle when parked to prevent theft.

Steering Lock (Optional):
Using the steering lock when parked prevents unauthorized use and helps prevent theft.

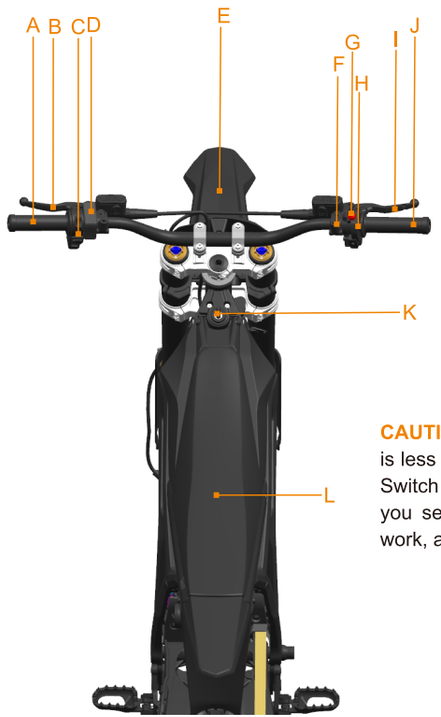
To operate the steering lock:
1. Turn the handlebar all the way to the left.
2. With the key in the OFF position, push the key down and turn the key counter-clockwise.
3. Remove the key.

To unlock the steering lock:
1. Install the key and turn clockwise.
2. Remove the key.

Location of Important Labels



Top View



A : L. Handlebar Grip
B : Rr. Brake Lever
C : Switch Assemly
D : Dash
E : Fr. Fender
F : Regen Switch
G : Kill Switch
H : Throttle
I : Fr. Brake Lever
J : R. Handlebar Grip
K : Key Switch
L : Seat

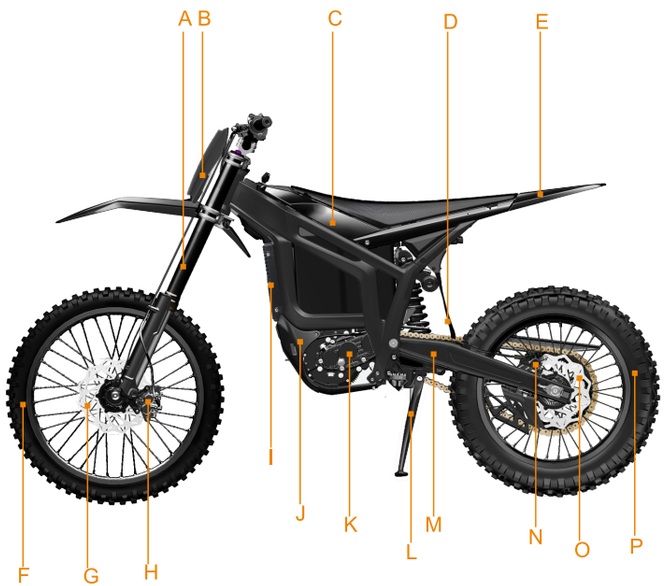
CAUTION: The Regen Switch can only be used when the SOC is less than 90% and select the Regen level 1. Press the Regen Switch harder or lighter for stronger or weaker Regen. When you select Regen Level 2, 3 or 4, the Regen Switch will not work, and the Regen will work as per each level's setting.



The picture is for reference only, and the actual product may differ from above picture for any necessary improvements.

Controls and Components

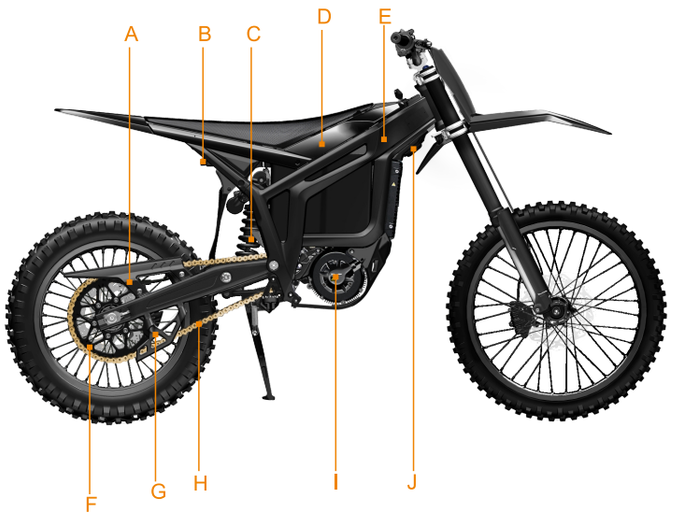
Left Side View



A: Fr. Fork
B: Fr. Number Plate
C: L. Seat Plastic Cover
D: Rr.Shock Absorber Fender
E: Rr. Fender
F: Fr. Wheel
G: Fr. Brake Disc
H: Fr. Brake Caliper
I: Controller
J: Motor Guard
K: Gearbox
L: Side Kickstand
M: Swing Arm
N: Rr. Brake Caliper
O: Rr. Brake Disc
P: Rr. Wheel

The picture is for reference only, and the actual product may differ from above picture for any necessary improvements.

Right Side View



A: Upper Chain Guide
B: Tail Lamp
C: Rr. Shock Absorber
D: R. Seat Plastic Cover
E: Frame
F: Sprocket (53T)
G: Lower Chain Guide
H: Chain
I: Motor
J: Horn

The picture is for reference only, and the actual product may differ from above picture for any necessary improvements.

Dash Overview



1、Setting: Keep pressing Setting to enter into the setting interface. (It's not workable during riding.)

2、Status

2-1 WAIT/WAIT1/WAIT2/WAIT3:

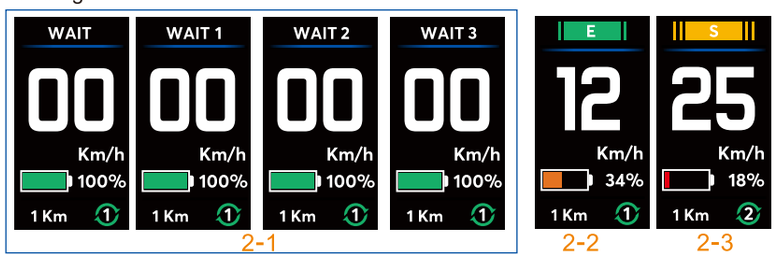
- Turn on the electric motorcycle, properly plug the kill switch, swing the side kickstand, then, WAIT will display on the dash. Pressing the START button, READY will display on the dash, and then, twist the throttle to start the riding.

Turn on the electric motorcycle, if the kill switch is not properly plugged, or the sensor of the kill switch receives no signals, WAIT1 will display on the dash.

Turn on the electric motorcycle, if the side kickstand isn't swung, WAIT2 will display on the dash.

Turn on the electric motorcycle, if the brake lever is not loosened, WAIT3 will display on the dash.

- Once the sensors of the kill switch and the side kickstand are shut down, turn on the electric motorcycle, WAIT will display on the dash, loosen the brake lever, twist the throttle to start the riding.



2-1 2-2 2-3

2-2 E: ECO mode, it reduces the acceleration and top speed of the electric motorcycle but maximizes the riding range. It is an ideal mode for when you want softer acceleration. It's also good for newer riders and for extending range.

2-3 S: SPORT mode, it causes the electric motorcycle to accelerate at a significantly faster rate with continuously surgent power output for off-road and trail riding. It will bring the riders an amazing experience. This mode is recommended for advanced riders.

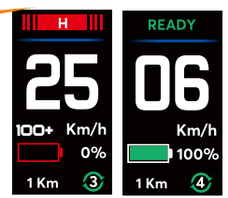
2-4 **H**: HYPER mode, it enables the powertrain to have the extremely hyper power output for an aggressive racing riding. It's only for professional riders.

Note! The range of an electric vehicle is defined as the distance the vehicle travels on a single full charge of the battery pack. Just like mileage estimates on an automobile, "your mileage may vary." Your range results are a direct reflection of your riding habits. The more conservatively you ride, the better range you can expect from Talaria Komodo electric motorcycle.Some of the factors which affect range include: speed, acceleration, number of starts and stops, ambient air temperature, as well as changes in elevation. The combination of these factors, as you travel from one point to another, defines your trip profile. In addition, tire pressure and payload are important considerations.We suggest that you ride conservatively when you first get your Talaria Komodo electric motorcycle, and get to know your electric motorcycle and your commute. Once you become familiar with the range versus performance of your electric motorcycle, then you can adjust your riding characteristics if you so desire. This applies mainly to riders with trip profiles which are at the edge of the performance envelope.

2-5 **READY**

Warning!

H (HYPER mode) is only for professional Riders. It's not for newer riders. For your safety, we strongly suggested that if you are not professional riders, or before you attained adequate knowledge of its controls and operating features, please do not attempt to ride this electric motorcycle with H Mode. Professional safety riding gears are required to be equipped all the time!



2-4

2-5

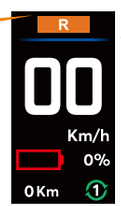
2-6 **R**: Keep pressing the R button, which is integrated on the switch assembly and installed on the left side of the handlebar, R will display on the dash, then, twist the throttle to reverse the electric motorcycle. Release the throttle and the R button, the reverse mode will quit automatically.

Warning!

Before ride the electric motorcycle in reverse mode, it's strongly suggested to attain adequate knowledge of its controls and operating features.

Pay attention to the surroundings when you ride the electric motorcycle with reverse mode.

It's strongly suggested to not aggressively ride the electric motorcycle with reverse mode.



2-6



2-7

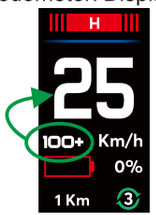


2-8

2-7 **CLEAN**: Pressing M button for 3 seconds to reset the AVG speed, MAX speed and Trip.

2-8 **ERROR**: Display the error codes to remind the rider (Please refer to error codes on page 34).

3、Speedometer: Display the real-time speed.



Notice!

When speed is equal to or faster than 100KM/H, the speedometer will display the speed to be "100+" plus another 2 digits. The illustration on the left shows an example how the speedometer shows the speed for 125KM/H.



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.

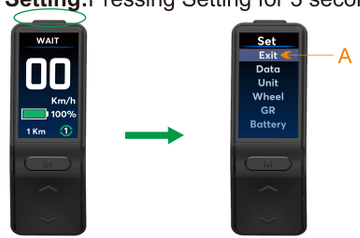
6、Regen Levels Indicator: Display the real-time regen level. (Regen level 1, 2, 3, 4 can be set. When level 1 is selected, and the SOC is less than 90%, can use the Regen Switch to control the Regen)

7、M Button: When the electric motorcycle is powered on, pressing Setting for 3 seconds to enter into the setting interface. After the setting is done, press M to save the setting. M is also the shortcut button to choose E/S/H riding modes when the dash doesn't enter into the setting interface.

8、SEL UP/SEL DOWN:

When the electric motorcycle is turned on, pressing Setting for 3 seconds 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.

Setting: Pressing Setting for 3 seconds to enter into the setting interface.



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

- B: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 AVG energy, max speed, AVG Speed, boot time, ODO.

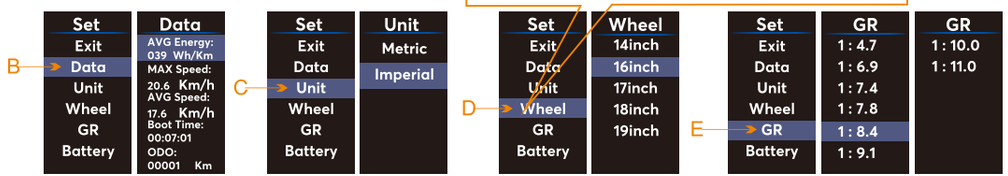
- C:Unit: Press SEL Buttons to choose the UNIT. Then, press M Button to enter into the UNIT setting interface. Press SEL Buttons again to choose Metric or Imperial, then, press M Button to save the setting.

- D:Wheel: Wheel diameter setting. Pressing SEL Buttons to choose the Wheel for 14inch, 16inch, 17inch, 18inch and 19inch. Then, press M Button to enter into the Wheel setting interface. Pressing SEL Buttons again to choose the correct wheel diameter, then, press M Button to save the setting. 18inch is for the stock setting.

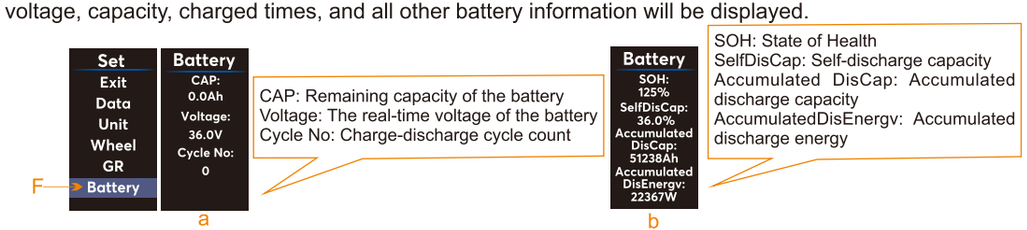
- E:GR: Gear ratio selection. Pressing SEL Buttons to choose the GR. Then, press M Button to enter into the GR setting interface. Pressing SEL Buttons again to choose the correct gear ratio, then, press M Button to save the setting.

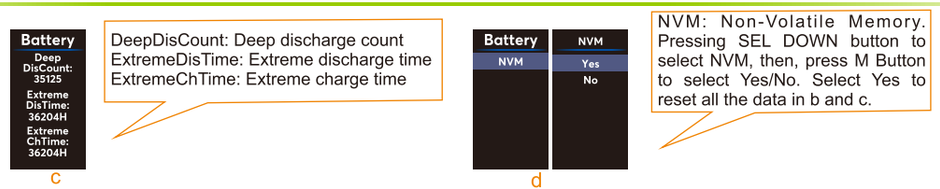
1:8.4 for stock 14T/53T sprockets setting
1:7.8 for 15T/53T sprockets setting
1:7.4 for 15T/50T sprockets setting

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.

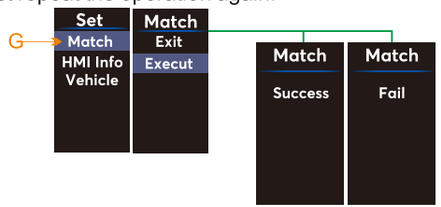


- F:Battery:Display the battery information. Turn on the electric motorcycle. Pressing **SEL Buttons** to choose the **BATTERY**. Then, press **M Button** to enter into the battery data display interface. Battery voltage, capacity, charged times, and all other battery information will be displayed.



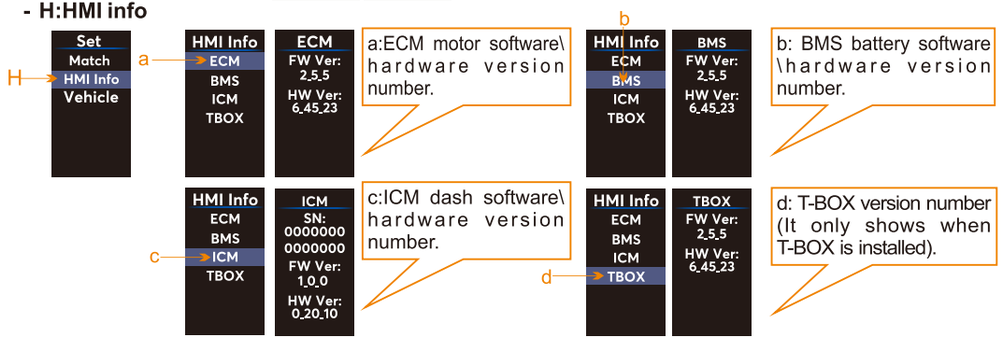


- G:Match: Turn on the electric motorcycle. Pressing SEL Buttons to select the MATCH. Then, press M Button to enter into the MATCH setting interface. When the electric motorcycle status is “WAIT”, and the side kickstand is swung back, and make sure the rear wheel be above the ground, then, press M Button to start the motor match within one minute after the electric motorcycle is turned on. Then, the electric motorcycle will have a small move, and after that, it will show the match is successful or failed. If it’s failed, just repeat the operation again.

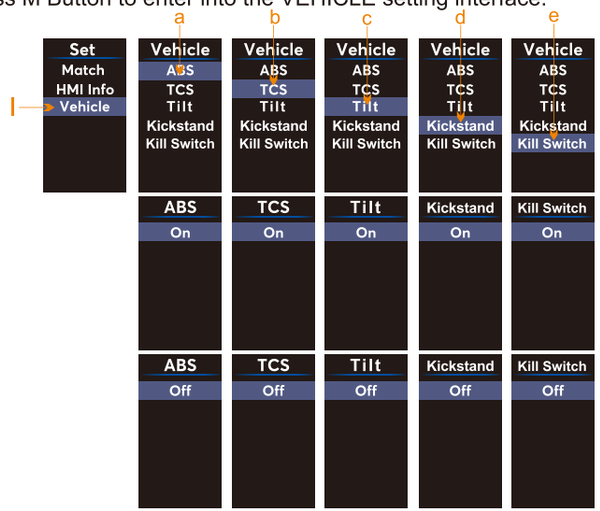


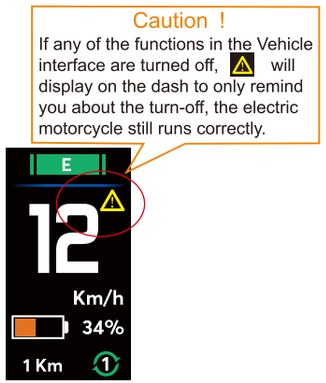
Remarks: The offset of the magnetic encoder’s electrical angle is possible to make the motor get reverse rotation. The MATCH function will self-adapt the offset, and prevent the motor reverse rotation happen. Usually, it’s well matched before the delivery. In case it’s necessary to do the MATCH, first,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

- H:HMI info



- I:Vehicle: Turn on the electric motorcycle. Pressing SEL Buttons to select the VEHICLE. Then, press M Button to enter into the VEHICLE setting interface.





a: Pressing SEL Buttons to select ABS, then, press M Button to enter into the ABS on/Off setting interface. Pressing SEL Buttons to select On/Off, and then, press M Button to save the setting.

b: Pressing SEL Buttons to select TCS, then, press M Button to enter into the TCS on/Off setting interface. Pressing SEL Buttons to select On/Off, and then, press M Button to save the setting.

c: (*Reserved expansion function)

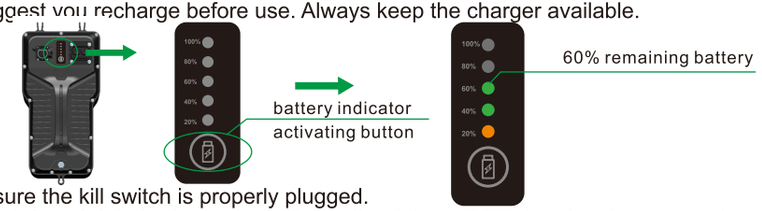
d: Pressing SEL Buttons to select Kickstand, then, press M Button to enter into the Kickstand on/Off setting interface. Pressing SEL Buttons to select On/Off, and then, press M Button to save the setting.

e: Pressing SEL Buttons to select Kill switch, then, press M Button to enter into the Kill switch on/Off setting interface. Pressing SEL Buttons to select On/Off, and then, press M Button to save the setting.

Pre-Ride Inspection

Before riding your Talaria KOMODO electric motorcycle, check the following to make sure the electric motorcycle is secure and intact:

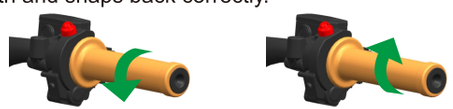
- Battery: Make sure the charge indicator on the dash or the battery indicator is indicating a charged battery. We suggest you recharge before use. Always keep the charger available.



- Kill Switch: Make sure the kill switch is properly plugged.

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

- Throttle: Make sure the electric motorcycle be turned off, apply the throttle and release to verify that the throttle is smooth and snaps back correctly.



- Side Kickstand: Make sure the electric motorcycle be turned off, apply the side kickstand to check whether it can be properly swung back and swung out.



- Drive Chain: Make sure the electric motorcycle be turned off, check the chain tension and condition. Adjust if necessary. See “Drive Chain”, on page 44.

- Wheels:

Tires: Make sure the electric motorcycle be turned off, 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.

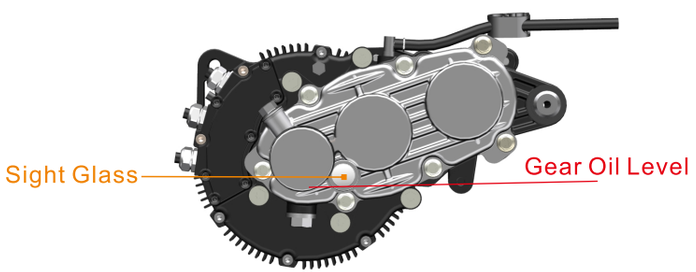
WARNING! Under-inflation is a common cause of tire failure and may result in severe tire cracking, tread separation, “blowout,” or unexpected loss of electric motorcycle control causing serious injury or death. Inspect tires regularly to ensure proper inflation levels.

Wheels: Make sure the electric motorcycle be turned off, check whether the wheels are bent, cracked, loose, and have impact marks on the rims. Also check whether the spokes are bent, cracked, loose, and have missing spokes.

- Electric system： Check for correct function of the headlight, and the brake system.

- Front Fork and Rear Shock Absorber: Make sure the electric motorcycle be turned off, check whether the front fork and rear shock absorber work properly. As well as to properly adjust the setting of the front fork and the rear shock absorber accord to the different riding scenes and rider’s weight.

- Gearbox: Make sure the electric motorcycle be turned off, check whether all the bolts of the gearbox are well fastened, as well as to check gear oil is not under the level through sight glass.



Riding Operation

- Starting

1、Insert the key.

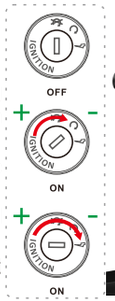
2、Turn the key clockwise to “ ϟ ” position.

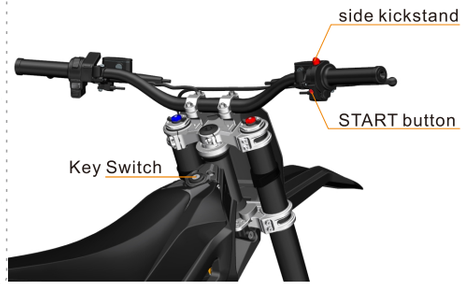
3、Well plugged the kill switch, and swing back the side kickstand, WAIT will display on the dash.

⚠ **Warning!** Pay attention to the riding mode before the START button is pressed.

4、Pressing the START button, READY will display on the dash.

5、Twist the throttle slowly and stably to start the electric motorcycle.





Caution!

When the electric motorcycle is in READY status, READY and the current riding mode E/H/S are displayed alternatively on the dash.

Caution!

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.

Caution!

Progressive use of the throttle is not recommended; aggressive use will cause malfunction or even damage the throttle.

- Speed Control:

Twist the throttle in a counter-clockwise rotation to energize the motor and start the electric 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.

- 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. When the rider applies the brake(s), the brakes sensor will work to cut the power output.

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 KOMODO electric motorcycle is a light- weight performance product and therefore practice is strongly recommended to perfect safe emergency stops.

- Parking:

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

2、Apply the brake to park the electric motorcycle, release 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 the steering lock (if equipped) before leave and take the key with you.

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

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

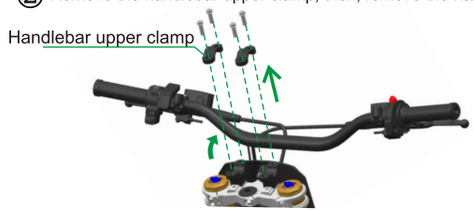
6、The electric motorcycle contains a lot of electrical components. Please avoid long-time exposure to rain or using high pressure washer to rinse the parts with electrical components.

Adjusting the Handlebar Installation Position

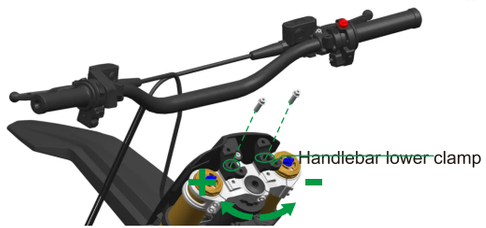
① Rotate the M8 bolts counter-clockwise to remove by T40 torx screwdriver.



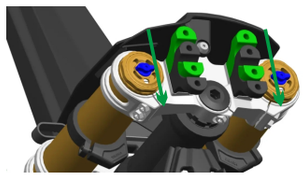
② Remove the handlebar upper clamp, then, remove the handlebar.



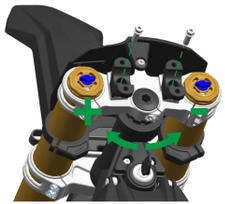
③ Rotate the M8 bolts counter-clockwise to remove by T40 torx screwdriver.



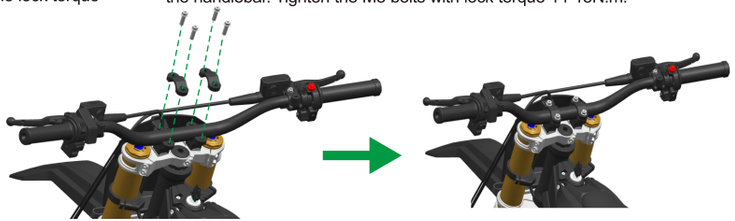
④ Move the handlebar lower clamp back and forth for the suitable mounting position, and make sure the bolts holes on both of the fork's upper crown and the handlebar lower clamp be aligned.



⑤ Rotate the M8 bolts clockwise by T40 torx screwdriver to properly fix the handlebar lower clamp on the fork's upper crown. Tighten the M8 bolts with the lock torque 25-30N.m.

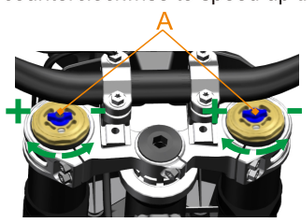


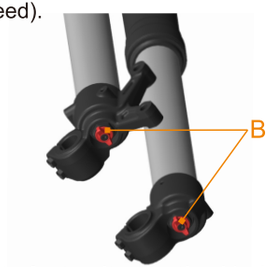
⑥ Align the tick marks on both of the handlebar and the handlebar upper clamp, rotate the M8 bolts clockwise by 40 torx screwdriver to well fix the handlebar. Tighten the M8 bolts with lock torque 14-15N.m.



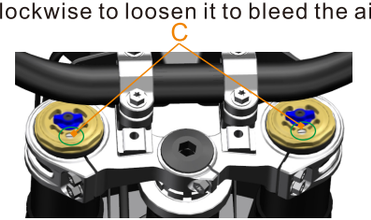
Adjusting the Front Fork

- Compression damping adjusting knob A (turn the knob A clockwise to increase compression damping, and turn the knob A counterclockwise to decrease compression damping).
- Rebound damping adjusting knob B (turn the knob B clockwise to slow down the rebound speed, and turn the knob B counterclockwise to speed up the rebound speed).





- Air deflation bolt C (turn the Air deflation bolt C clockwise to fasten it; turn the Air deflation bolt C counterclockwise to loosen it to bleed the air)



Caution!

It's strongly suggested to adjust the compression damping and rebound damping to be equal with no big difference.

Accordingly adjust the compression damping and rebound damping to well suit the rider's weight and the specific riding scene.

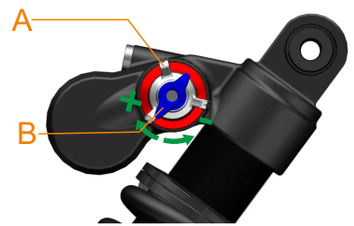
It's strongly suggested never adjust the knobs to be forced completely "Soft" or "Hard"; always leave one click of adjustment in either direction.

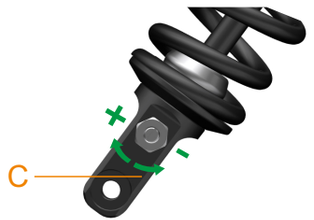
Caution!

Regular maintenance is required! Please refer to the shock absorber owner's manual for more details about the regular maintenance.

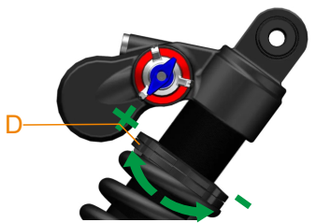
Adjusting the Rear Shock Absorber

- High-speed compression damping adjusting knob A (turn the knob A clockwise to increase compression damping, and turn the knob A counterclockwise to decrease the compression damping)
- Low-speed compression damping adjusting knob B (turn the knob B clockwise to increase the compression damping, and turn the knob B counterclockwise to decrease the compression damping)
- Rebound damping adjusting knob C (turn the knob C clockwise to slow down the rebound speed, and turn the knob C counterclockwise to speed up the rebound speed)





- Spring preload adjusting collar D (turn the collar D clockwise to increase the spring preload, and turn the adjuster D counterclockwise to decrease the spring preload)

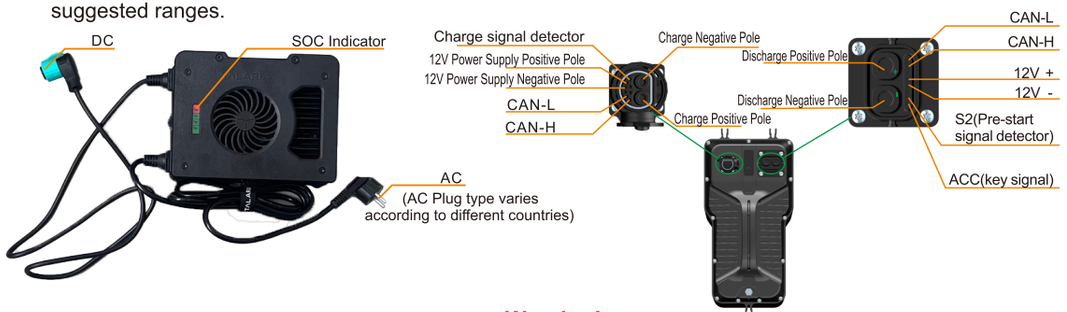


Caution!

Regular maintenance is required! Please refer to the shock absorber owner's manual for more details about the regular maintenance.

Battery Charge and Discharge Connection

Talaria KOMODO adopts high-performance and high discharge rate lithium-ion cells for the battery pack, the nominal voltage of the battery pack is 97.2V. The battery pack should not be charged outside of the range of 0°C to 45°C; the BMS turns off the charge outside of this range. The battery pack should not be used outside of the range of -20°C to 55°C; the BMS turns off the discharge outside of this range. The optimal range to use the battery pack is 10°C to 30°C. Too low or too high temperature will adversely affect the performance and lifetime of the battery pack, please do not use it at a temperature outside of the suggested ranges.



Warning!

1、Do not charge the battery under 0°C, otherwise it will damage the battery. Please wait until the battery temperature rises.

2、Too low temperature will affect the battery performance, which contributes to a slight drop of endurance mileage. It will go back to normal when the temperature rises.

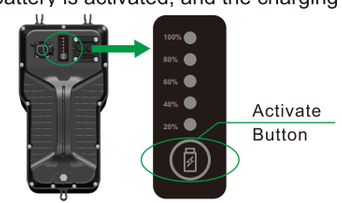
3、The BMS provides a well-improved protection to keep the battery back away from any damages by over charge and discharge. If the battery pack has recently been operating near maximum output and/or in hot conditions it may not take a charge, the battery pack should cool off and begin taking a charge in around 30 minutes or less.

4、For planned long-term storage (more than 30 days), the battery pack will drain extremely slowly over time. Check the SOC at least monthly and charge it back up to 50%-70% if it has dropped below 30%. When you're ready to take your motorcycle out of storage to ride it again, plug it in for at least 24 hours to ensure optimal cell balanced is restored.

5、Opening of the battery pack is for trained Talaria technicians. Please be aware that incorrect handling of a battery pack can be dangerous. **DO NOT OPEN !**

Battery Charging and Charger Usage

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、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.
3、When the led indicator of the charger flashes, it indicates that charging is ongoing. When all the indicators of the charger are 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 voltage of the grid in different countries.
4、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.
5、When the battery enters inactive status, it can be activated by connecting the charger and the grid socket. If the led indicator on the battery start flashing, it means the battery is activated, and the charging is ongoing. If not, please press the battery activate button to activate the battery. If the led indicator on the battery start flashing, it means the battery is activated, and the charging is ongoing.

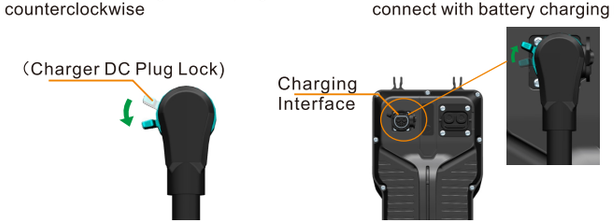


Note: When fan on the charger start rotating, and the indictors on both of the charger and battery start flashing, the battery is activated and charging is ongoing.

Connect the Charger

1、Turn the charger DC plug lock counterclockwise

2、The charging is available when the Charger DC plug well connect with battery charging interface.



Note: After the charger DC plug well connect with the battery charging interface, the charger DC plug lock will snap back automatically.

Charging Precaution

1、When charging, please park your electric motorcycle or put battery in a safe place out of. Always charge the battery pack in a location that is well-ventilated and away from combustible materials and the reach of children.
2、If the battery pack has recently been operating near maximum output and/or in hot conditions it may not take a charge, the battery pack should cool off and begin taking a charge in around 30 minutes.
3、The battery pack is only allowed to be cooled by air cooling and natural cooling, and other methods are prohibited to warm up and cool down the battery pack.
4、It is strictly prohibited to cover the charger with any objects when using it. This charger is for indoor use. Please use it in a dry and well-ventilated place.
5、Avoid using the battery pack immediately after it's fully charged. Let it stand for 10 minutes before using.

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!

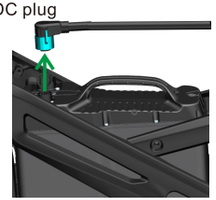
If a battery pack fire occurs, keep yourself away from the fire. Or if possible, extinguish visible flame with a Class D power-type fire extinguisher. After flame has extinguished, douse with a water-based fire extinguisher.

Disconnect The Charger

1、Turn the charger DC plug lock clockwise



2、Pull upward to disconnect the charger DC plug

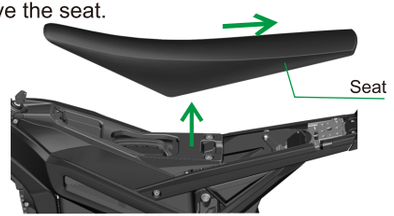


Remove the Battery Pack

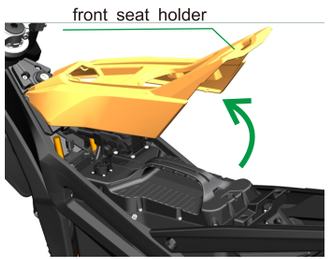
1、Push the seat lock handle backward.



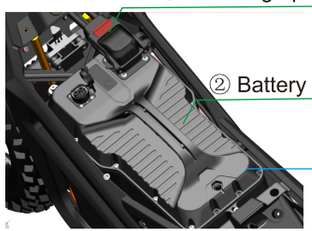
2、Lift the tail of the seat, and pull the seat backward to remove the seat.



3、Remove the key and turn the front seat holder clockwise.



4、



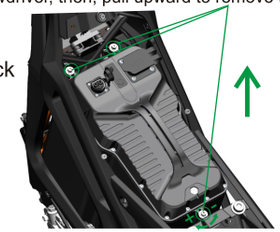
① Disconnect the discharge plug

Push the lock button backward to loosen the lock, and turn over the lock, then, pull upward to disconnect the discharge plug.



Remove the 3pcs M6 bolts by counterclockwise rotation with T30 torx screwdriver, then, pull upward to remove the battery pack.

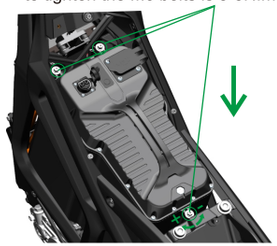
② Battery pack



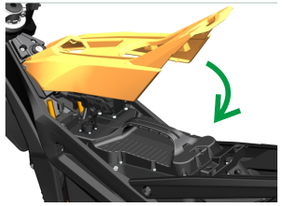
Install the Battery Pack

1、Well place the battery pack into the holder.

Rotate the 3pcs M6 bolt clockwise the T30 torx screwdriver to well fix the battery pack. The torque to tighten the M6 bolts is 3-5N.m.



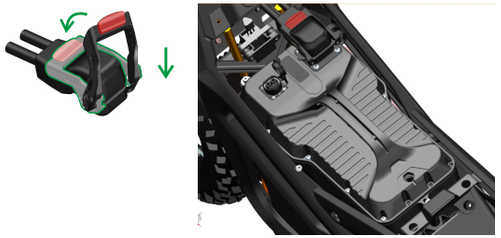
3、Turn back the front seat holder.



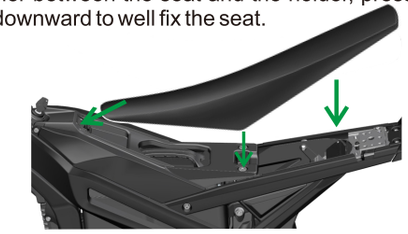
5、Turn the key switch to “ ϟ ” position to turn on the electric motorcycle.



2、Properly connect the discharge plug with the battery discharge interface, and well lock the discharge plug.



4、Push the seat forward to well lock the snap-fastener between the seat and the holder, press the seat downward to well fix the seat.



Caution ! When the discharge plug and the battery discharge interface are not well connected, the electric motorcycle cannot be turned on.

Precautions for High Voltage Electrical Components

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

Always obey 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. If an electric motorcycle fire occurs, extinguish visible flame with a Class D power-type fire extinguisher. After flame has extinguished, douse with a water-based fire extinguisher.

Warning! Your electric motorcycle uses high voltage. System components can be too hot to touch during and after starting and when the electric motorcycle is shut off. Be careful of both the high voltage and the high temperature. Obey all labels that are attached to the electric motorcycle.

Warning! The electric motorcycle's high voltage system has no user serviceable parts. Disassembling, removing or replacing high voltage components, cables or connectors can cause severe burns or electric shock that may result in serious injury or death. High voltage cables are colored orange for easy identification.

All of the electric motorcycles are carefully inspected before they are delivered. Even after the electric motorcycles are inspected, some technical issues can occur. The following information offers a guide to help you to identify an issue, and if possible, repair it yourself. If you are unable to solve an issue with your Talaria Komodo electric motorcycle, take it to an authorized dealer at your convenience. If there is no dealer in your area contact Talaria Customer Service.


High Voltage!


Keep Clear of Fires


Keep Dry


No Falls and Impacts


Keep away from the hazardous chemicals

General Troubleshooting

Failure	Possible Cause	Suggested Solution
Vehicle cannot start	The battery pack is out of power. U, V and W wires on the motor are incorrectly or loosely connected.	Check whether the discharge plug is well connected with the battery discharge interface and whether there have pin(s) deformed or damaged
	Throttle failure	Replace the throttle
	Electronic parts malfunction	Checked the connectors are well connected, and pins in the connecters are deformed or damaged.
	wait1, wait2, wait3 on dash	Wait1: Check the kill switch is well pugged or damaged. Wait2: Check the side kickstand is swung back or damaged. Wait3: The brake lever is not released, or the brake sensor failure.
Charger doesn't work	No AC power supply.	Check whether the AC socket is powered. Check the fuse/voltage of the AC power supply.
	Charger/Battery Pack Overheat	Re-Charge after the charger or battery pack cooled.
	Charger Failed	Replace with new Talaria charger.
Handlebars shake	The tire pressure is not enough	Inflate the tires with suggested tire pressure.
	Deformed front wheel	Replace the front wheel same as the stock wheel size
	Worn Tire (tire tread is over worn)	Replace the tire(s) same as the same stock tire(s) size

Dash Error Codes, Failures and Troubleshooting

Error Code	Failure	Suggested Solution
E00	Dash has no communication	Replace the dash, or send the electric motorcycle to the service center.
E01	Protection IC failure	Restarting
E02	Battery Cell disconnection	Restarting
E03	Unbalanced battery cell voltage	Restarting
E04	Measurement errors	/
E05	Storage error	Restarting
E06	Time display error	Restarting
E07	Discharge MOS error	Restarting
E08	Charge MOS error	Restarting
E09	Overcharge error	Restarting
E10	Level 1 over discharge error	Charge the battery pack immediately.
E11	Level 2 over discharge error	Charge the battery pack immediately.
E12	Level 1 discharge over current error	The error will be removed automatically after 1min.
E13	Level 2 discharge over current error	Shut the discharge or control the discharge current less than 150A, or check whether there's the short circuit? If yes, eliminate the short circuit.
E14	Over charging-current error	1. Make sure the charger is the Talaria stock charger. If it's the wrong charger, please use the Talaria stock charger. 2. If the charger is correct, but error cannot be solved, please send the electric motorcycle to the service center for maintenance.
E15	Soft start failure error	Please turn on and start the electric motorcycle according to the owner's manual.
E16	Overtime pre-charge error	Make sure the charger is the Talaria stock charger. If the charger is correct, but error cannot be solved, please send the electric motorcycle to the service center for maintenance.
E17	MOS thermo sensor fault error	Restarting
E18	Cell thermo sensor fault error	Restarting
E19	Discharge over-heat error	Ride or discharge after the temperature protection is removed. Or follow the owner's manual to operate the electric motorcycle.
E20	Charge over-heat error	Recharge after the temperature protection is removed. Or follow the owner's manual to operate the charge.
E21	Discharge low temperature error	Ride or discharge after the temperature protection is removed. Or follow the owner's manual to operate the electric motorcycle.

Error Code	Failure	Suggested Solution
E21	Discharge low temperature error	Ride or discharge after the temperature protection is removed. Or follow the owner's manual to operate the electric motorcycle.
E22	Charge low temperature error	Recharge after the temperature protection is removed before. Or follow the owner's manual to operate the charge.
E23	Discharge MOS over-heat error	Ride or discharge after the temperature protection is removed. Or follow the owner's manual to operate the electric motorcycle.
E24	Charge MOS over-heat error	Recharge after the temperature protection is removed. Or follow the owner's manual to operate the charge.
E25	Soft-start circuit over-heat error	Ride after the temperature protection is removed.
E26	Storage error	Send the electric motorcycle to the service center to repair.
E27	Discharge fuse failure	Send the electric motorcycle to the service center to repair.
E28	Charge fuse failure	Send the electric motorcycle to the service center to repair.
E29	Level 3 discharge over current error	Check whether there's the short circuit? If yes, eliminate the short
E31	Setting error	Send the electric motorcycle to the service center to repair.
E32	No error	/
E33	Controller phase wire over current error	1: Turn off the electric motorcycle to check the whether the motor phase wire connection got loose, or broken. And then, check whether the motor outlet phase wires properly fixed on the controller's U / V / W fixing positions. Finally, check whether the magnetic encoder outlet wires are correctly connected with the yellow, green and blue wires on the harness assy. 2: Check whether anything stuck the rear wheel.
E34	Controller busbar over current error	1: Turn off the electric motorcycle to check the whether the motor phase wire connection got loose, or broken. And then, check whether the motor outlet phase wires properly fixed on the controller's U / V / W fixing positions. Finally, check whether the magnetic encoder outlet wires are correctly connected with the yellow, green and blue wires on the harness assy. 2: Check whether anything stuck the rear wheel.
E35	Controller MOS error	Replace the controller assembly or send the electric motorcycle to the service center for maintenance.
E37	Throttle error	1: Check the throttle wire connection is loose or broken. 2: Make sure the throttle snapped back to the off position before use. 3: If the throttle wire is properly connected, and the throttler snapped back to the off position before use, but still have the throttle error. Then, replace a new throttle.
E38	Low voltage protection	Charge the battery pack immediately.
E39	Over voltage protection	Please use Talaria stock charger to charge the battery pack.
E40	Magnetic encoder error	Check whether the magnetic encoder got a poor contact or is broken? If yes, repair or replace it.

Malfunction Inspection and Troubleshooting

Error Code	Failure	Suggested Solution
E41	Motor phase wire error	Turn off the electric motorcycle to check the whether the motor phase wire connection got loose, or broken. And then, check whether the motor outlet phase wires properly fixed on the controller's U / V / W fixing positions. Finally, check whether the magnetic encoder outlet wires are correctly connected with the yellow, green and blue wires on the harness assy.
E42	Motor over-heat error	Ride after the temperature protection is removed, or check whether the motor encoder plug is loose or broken.
E43	Motor thermo sensor error	Check whether the motor encoder plug is loose or damaged. If it's damaged, replace the motor thermos sensor.
E44	Controller over-heat error	Ride after the temperature protection is removed.
E45	Controller thermo sensor error	Ride after the temperature protection is removed.
E46	Current sensor error	Send the electric motorcycle to the service center for maintenance.
E47	Motor lack of phase error	1: Turn off the electric motorcycle, and restart the electric motorcycle. 2: Turn off the electric motorcycle to check the whether the motor phase wire connection got loose, or broken. And then, check whether the motor outlet phase wires properly fixed on the controller's U / V / W fixing positions. Finally, check whether the magnetic encoder outlet wires are correctly connected with the yellow, green and blue wires on the harness assy.
E48	Motor stalling error	Turn off the electric, swing back the side kickstand, put the motorcycle on a stand, to check whether the rear wheel can rotate normally, if anything stuck the rear wheel, please eliminate it. And also check whether there are anything stuck the motor, gearbox, chain and brake. If yes, please eliminate it.
E49	Communication error	Turn off the electric motorcycle to check all the CAN connections are loose or broken. (Dash connection, controller connection, and battery pack communication connection have CAN communication). If yes, just repair them, and re-start the electric motorcycle, the error will be removed.
E50	Out of electronic fence	Move the electric motorcycle into the scope of the electronic fence setting, and restarting the electric motorcycle.
E51	Wrong battery pack	Only use Talaria stock battery pack.
E52	TBOX loose connection	1: Check whether the TBOX plug is loose? If yes, properly reconnect it. 2: Check whether the TBOX or its plug are broken? If yes, send the electric motorcycle to the service center to repair.

Owner's Responsibilities

Listed below are the responsibilities afforded to the owner:

• This Owner's Manual should be considered a permanent part of this electric motorcycle and should remain with it even if the electric 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 Electric Motorcycle accessories. Otherwise, will render the warranty invalid.

• 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.

Maintenance Schedule Table

Item	Each Ride	Each 100KM	Each 500KM	Each 2000KM	Each 5000KM	Each 10000KM /12months	Each 20000KM /24months
Tire	●						↻
Brake Fluid	●	●	●	● / 🔧	● / ↻	● / ↻	●
Brake	●	●	●	● / 🔧	●	●	●
Wheels	●	●	●	●	●	●	●
Bearings	●	●	●	●	● / 🔧 / ↻	● / ↻	●
Spokes	●	● / 🔧	●	●	●	●	●
Drive Chain	●	● / 🔧	● / 🔧	● / 🔧	● / ↻	● / ↻	↻
Fr./Rr. Sprockets			●	●	● / ↻	● / ↻	● / ↻
Battery Pack	●						
Error Codes	●						
Brake Lever Pivot Shaft	●						
Front Fork	●		● / 🔧	● / ↻			
Rear Shock Absorber Assembly	●		● / 🔧	● / ↻			
Throttle	●						
Kickstand Pivots					●		
Kickstand Switch	●						
Fasteners		●	● / 🔧	🔧	●	●	●
Gearbox			↻	↻	↻		

● check 🔧 adjust ↻ replace

Maintenance Items

Maintenance Schedule	Maintenance Items	Maintenance technician Signature
300KM/Month	Check the fasteners of the electric motorcycle (motor, wheels, brake, spokes, etc.) to make sure all the fasteners are tightly fastened. And check the tension of the chain to make sure it's in the proper tension range.	
1000KM/3months (after 1st maintenance)	Check the fastening status of the safety components of the entire vehicle (motor, wheels, brake, spokes, etc.) to make sure all the components are well fastened. Check the high-current circuit electrical components to make sure all the electrical components are in a good condition to ensure a safety riding. Check the tension of the chain to make sure it's in the proper tension range.	
2000KM/6months	Check the high-current circuit electrical components to make sure all the electrical components are in a good condition to ensure a safety riding. Check the brake oil level and brake pads to make sure it's sufficient enough to ensure the brakes work properly. Check the tension of the chain to make sure it's in the proper tension range. Check the condition of the brake pads and spokes.	

NOTE: Inspect rear swing-arm bearings regularly: every 500 km/25 hrs normally, or 200 km/10 hrs if riding in mud or aggressively. Check grease color and for dirt/moisture; replace if dark, dry, or contaminated. Use lithium grease. Replace bearings if worn or loose.

Regular 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 electric motorcycle should be done after running for 300KM.

Caution! For trail/motor cross riding, check the electric motorcycle after each riding. Do maintenance of parts replacement if necessary.

Pay attention to safety when you inspect or maintain the electric motorcycle. Park the electric 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 electric motorcycle. If it is difficult to solve it by yourself, please send the electric motorcycle to the nearest service center to maintain or repair.

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.

- 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:

Check brake fluid level, brake pads, brake discs, brake hose, and oil leakage.

1、Check the brake fluid level

Inspect the level of the brake fluid through the sight glass. If the fluid level is visibly below the low-level indicator, brake fluid must be added. Clean any dirt or debris from the reservoir cover, then, open it to add new DOT 4 brake fluid.

NOTE !

The motorcycle should be in an upright position prior to checking fluid level.

1、Use T20 screwdriver to remove the two M4 bolts securing the cover onto the reservoir.

2、Add new DOT 4 brake fluid.(Brake fluid level should not above the upper level mark on the reservoir)

3、Inspect the cover seal, ensuring that it is free of any wear or damage and that it is positioned correctly.

4、Install the cover and tighten the M4 bolts. Tighten Torque is 1-2N.m.

Caution!

Do not spill brake fluid on painted surfaces; the finish could be damaged. Spilling brake fluid on the body panels will cause them to crack.

Always place a shop towel under the master cylinder reservoir prior to removing cover/cap.

Low fluid levels may indicate worn brake pads or a leak in the hydraulic system. Inspect the brake pads for wear

and/or the hydraulic system for leaks. Use only new DOT4 brake fluid from a sealed container.

2、Brake Pad Inspection

The brake pads must be inspected when specified in the maintenance schedule, see page 38. Visually inspect the brakes by looking at the remaining brake pad material through the sides of the brake caliper.

Brake lever's free play is outside of the range 15mm to 30mm.

Replace the brake pads if either pad's thickness is 6.5mm or less. If the brake pads are worn, replace both brake pads immediately.

Caution!

Squeeze the brake lever, if the brake force is not enough, check the cleanness of the brake discs. Send the electric motorcycle to the service center for maintenance if necessary.

3、Brake Disc Inspection

The thickness of the brake discs should be checked regularly.

The minimum thickness is 2.5mm.

Warning

With new brake systems or just new pads, the first few braking applications will result in very little braking power. Gently use the brakes a few times at low speeds (less than 20 km/h) to develop proper braking friction.



- Wheels and Tires Inspection

Inspect both wheels for the following:

• Bent, loose, or missing spokes.

• Bent or cracked rims.

• Impact marks on the rims.

Inspect both tires for the following:

Under-inflation, Cuts, cracks, splits, or missing tread lugs in the tread or sidewall area.

Bumps or bulges within the tire body.

Uneven tire tread wear. Wear on one side of the tire tread or flat spots in the tire tread indicate a problem with the tire or motorcycle.

• Exposed tire thread or cords.

If either of the wheels or tires are found to have any of the above conditions, replace the wheel and tire immediately.

NOTE !

It is recommended to set the locking torque of the rear fork axle as 50-55N.m and the locking torque of rear axle nut as 50-55N.m. The locking torque of the front wheel axle is 25-30N.m.

Tire Inflation

WARNING! Under-inflation is a common cause of tire failure and may result in severe tire cracking, tread

separation, “blowout,” or unexpected loss of motorcycle control, causing serious injury or death.

Tire pressure should be checked and adjusted to the proper inflation levels before each ride. Tire pressure should be checked using an accurate gauge when the tires are cold. This means that the tires have not been ridden on for at least 3 hours. Always replace the valve stem cap when finished adjusting tire pressures.

Tire Pressure

Front: 225Kpa Rear: 225Kpa

- Check the fuses

Turn the key to " ϟ " position, if the dash, horn, lamps don't work, it's possibly the fuses are broken.

Caution!

The fuse should be installed firmly. If it is loose, it may cause the fuse to heat up and results in other faults and hazards.

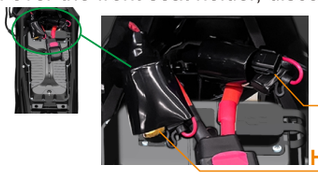
Replace the fuse with those of the specified model and corresponding specification. If the fuse is out of specification, it may not have the function of fuse protection.

If the new fuse is broken again in a short time, check for the causes other than the fuse.

Avoid strong impact to the fuse with water flow.

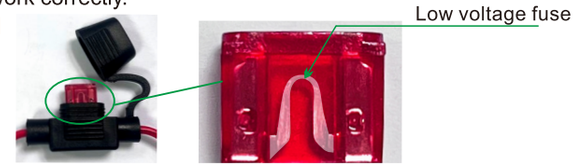
- Replace the fuses

1、Remove the seat, turn over the front seat holder, disconnect the discharge to find the fuse box as it shows in following picture.



2-1、Turn off the electric motorcycle, check whether the low voltage fuse is broken (Figure 1). If it's broken, replace the broken fuse with the new spare fuse. Close the low voltage fuse box, turn back the front seat holder, well install the seat. Turn on the electric motorcycle to check whether all the low voltage electronic parts work correctly.

Figure 1



2-2、Turn off the electric motorcycle, check whether the high voltage fuse is broken. If it's broken, replace the broken fuse with the new spare fuse. Close the high voltage box, turn back the front seat holder, well install the seat. Turn on the electric motorcycle to check whether all high voltage parts work correctly.

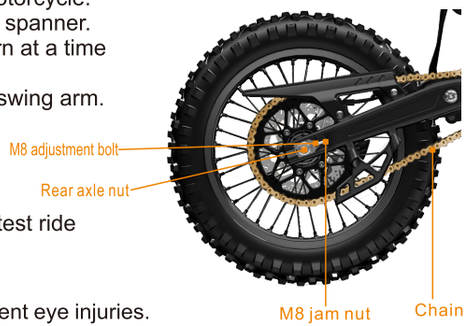
- Check the drive Chain

1. Turn off the electric motorcycle.
2. Using a ruler, grasp the chain halfway between the front and rear sprockets.
3. The chain should move within 10mm in either direction, so 20mm of total free play.
4. If the chain's free play is not within specifications it will need to be adjusted.

- Adjust the drive chain

Note: Adjust both sides equally.

1. Turn off the electric motorcycle.
2. Loosen the rear axle nut on right side of electric motorcycle.
3. Loosen the (left and right) M8 jam nuts by #8 open spanner.
4. Turn the (left and right) M8 adjustment bolts 1/4 turn at a time until the chain adjustment is within specification.
5. Make the tensioner align with the tick mark on the swing arm.
6. Tighten left and right jam nuts to secure the chain.
7. Tighten the axle nut on right side of motorcycle. Torque 50-55N.m.
8. Test ride the electric motorcycle.
9. Recheck the chain for proper adjustment after the test ride and readjust, if necessary.



Warning !

Wear safety glasses when lubricating the chain to prevent eye injuries.

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

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 personal injury.

Do not allow any of the lubricant to get on the brake rotors 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 personal injury.

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

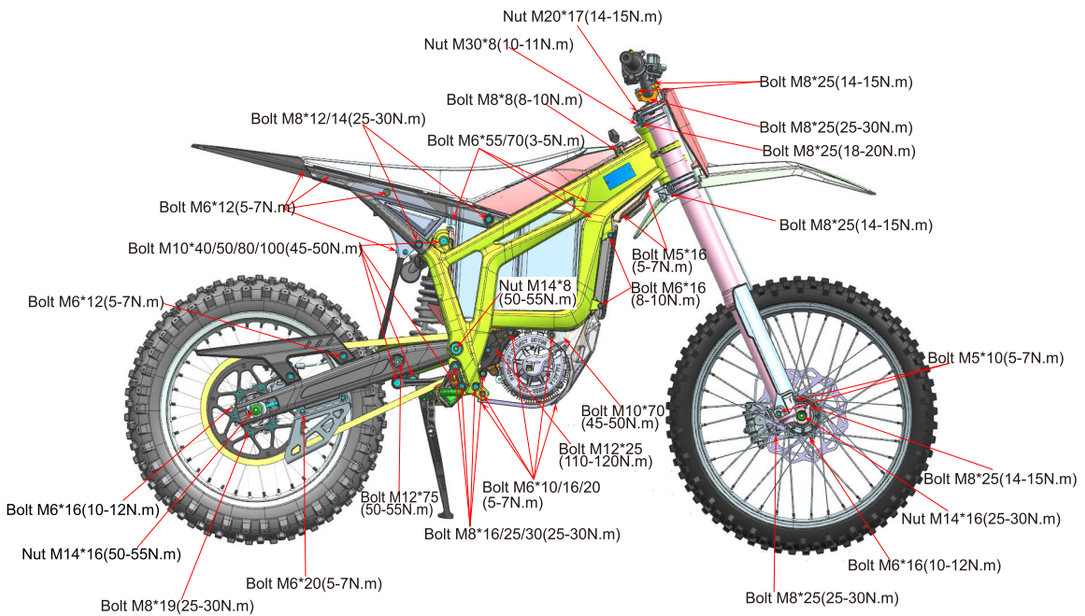
Do not allow any of the lubricant to get on the brake rotor.

To lubricate the drive chain:

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

- Regularly Check the Torque of the Fasteners

Regularly check the torque of the fasteners, tighten if necessary. (Refer to below torque chart)



- Maintain the Gearbox Assembly and Controller

1、Regularly check the looseness of the gearbox fasteners. Tighten if necessary. Visibly check the gear oil through the sight glass. Add if necessary. Do not ride the electric motorcycle if the gear oil level is visibly below the low-level indicator, the gearbox could be severely damaged. The First gear oil change is suggested after 500KM, and the Second gear oil change is suggested after another 2000KM, and then, change the gear oil for every 5000KM (Gear oil type: CL- 4 85 W/ 90; 90-100ml).

2、Regularly check the isolation and connection of the wires between the motor and controller. Maintain if necessary.

3、Regularly check looseness or condition of the fuses. Maintain or replace if necessary.

4、Do not ride the electric motorcycle in the deep water, the motor will work incorrectly.

5、We recommend the use of a garden hose to wash your electric motorcycle. High-pressure washers (like those at coin-operated car washes) can damage certain parts, especially the electronic parts.

Note: For different temperature may need to change different gear oil types for better performance.

Temperature	Recommended Gear oil type
-12℃	85W
-26℃	80W
-40℃	75W
-55℃	70W

- Change gear oil

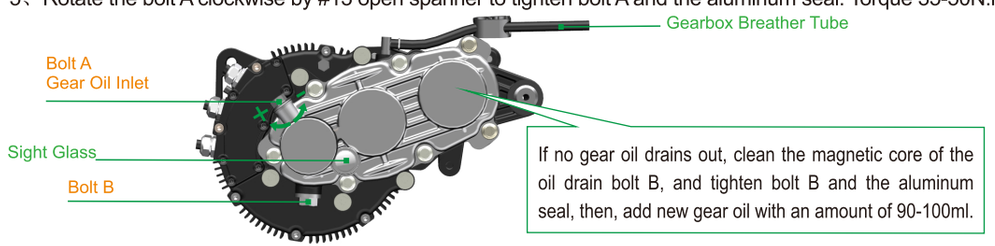
1、Rotate the bolt A counterclockwise by #13 open spanner to remove bolt A and the aluminum seal.

2、Rotate the bolt B counterclockwise by #17 open spanner to remove bolt B and the aluminum seal. 3-5 minutes later, the gear oil will complete drains out.

3、Rotate the bolt B clockwise by #17 open spanner to tighten bolt B and the aluminum seal. Torque 35-50N.m.

4、Add gear oil through the oil inlet (90-100ml).

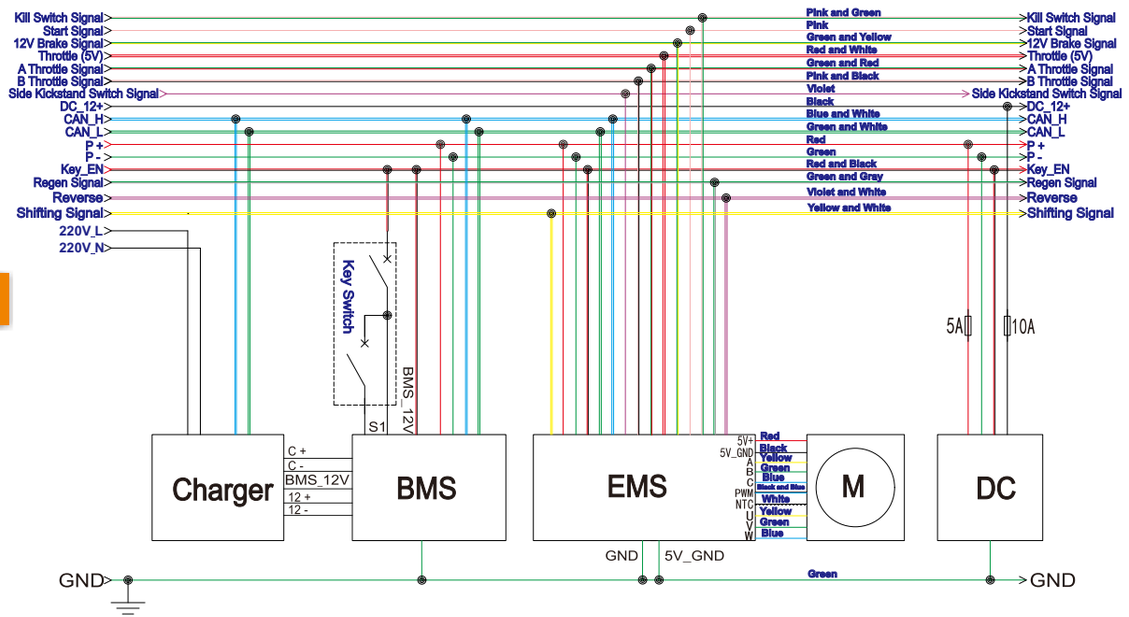
5、Rotate the bolt A clockwise by #13 open spanner to tighten bolt A and the aluminum seal. Torque 35-50N.m.

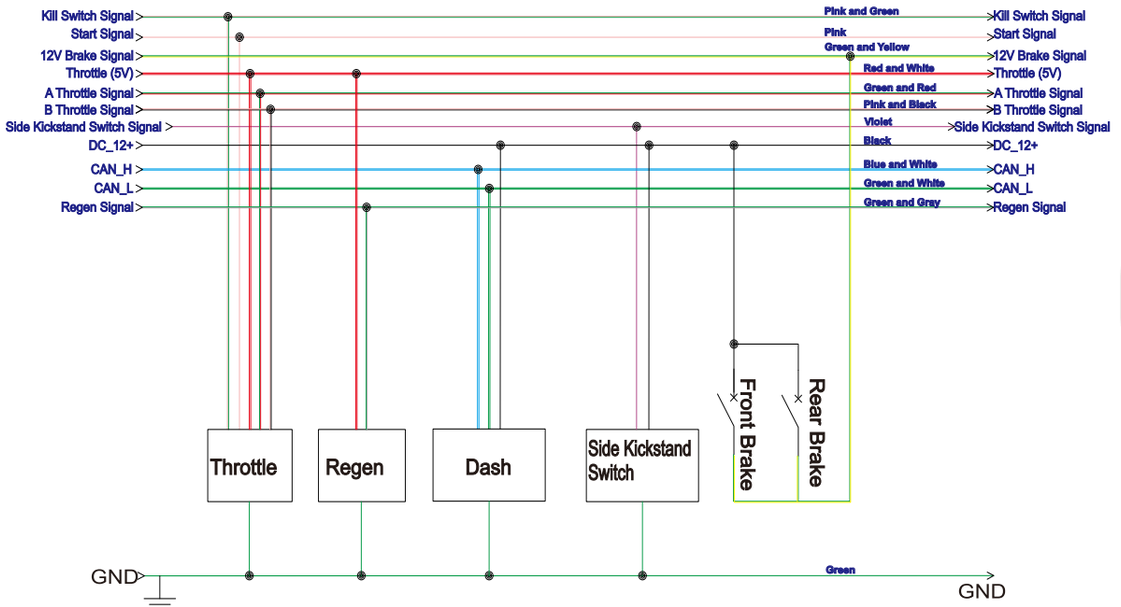


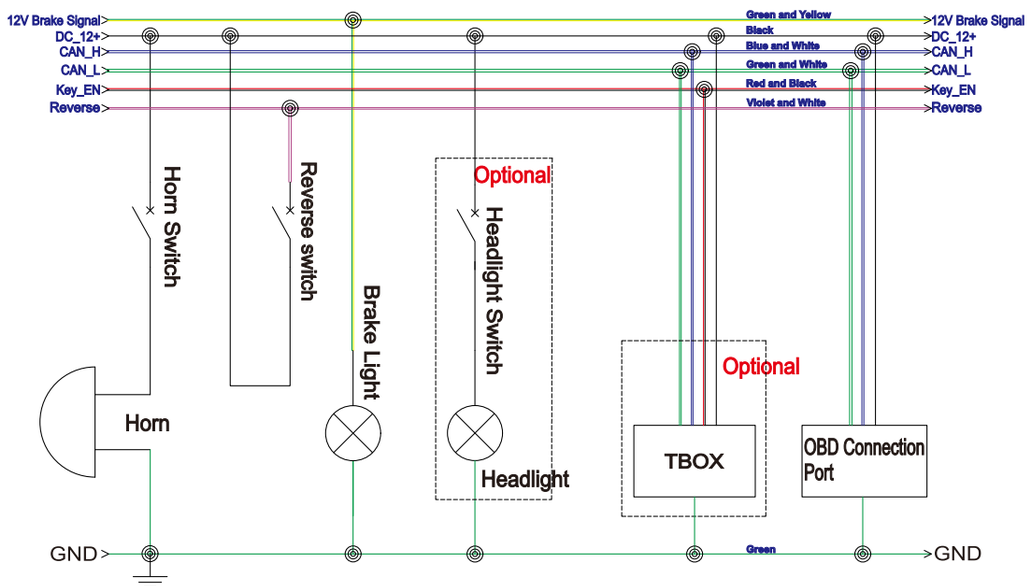
Technical Specification

ITEM	SPECIFICATION
Vehicle Dimension	2020×815×1190（mm）
Wheelbase	1380（mm）
N.W.	98KG (Battery pack included)
Max. Loading Ability	160（kg）
Min.Ground Clearance	315mm
Seat Height	910mm
Rake	26°
Max. Gradeability	≥45°
Top Speed	≥105（km/h）
Nominal Power	8. 6（kw）
Peak Power	32（kw）
Peak Motor Torque	90N.m
Peak Torque on Rear Wheel	754（N. m）
Battery Pack	97.2V/45A (4374WH) Lithium-ion Battery Pack
Range	115KM @ 45KM/H
Charger	AC100V-240V 50/60Hz
Charge Time	3.5~4.5H (Differ from charging voltage)
Riding Modes	E/S/H + Reverse
Rim Size	Fr.: 1.6×21; Rr.: 2.15×18
Tire Size	Fr.: 70/100-21; Rr.: 90/100-18
Fr. Suspension	Adjustable ϕ43 Aluminum Closed Cartridge+Air Chamber Fork with 250mm Travel
Rr. Suspension	Adjustable Closed Cartridge + Piggyback Reservoir + 90mm Travel Rr. Shock Absorber with Linkage
Brake	Fr./Rr.: Disc Brake
Primary Transmission	Gearbox
Secondary Transmission	Chain (520-108L)
Dash	Multifunctional TFT Display

Electrical diagram




Kill Switch Signal
Start Signal
12V Brake Signal
Throttle (5V)
A Throttle Signal
B Throttle Signal
Side Kickstand Switch Signal
DC_12+
CAN_H
CAN_L
Regen Signal
Pink and Green
Pink
Green and Yellow
Red and White
Green and Red
Pink and Black
Violet
Black
Blue and White
Green and White
Green and Gray
Kill Switch Signal
Start Signal
12V Brake Signal
Throttle (5V)
A Throttle Signal
B Throttle Signal
Side Kickstand Switch Signal
DC_12+
CAN_H
CAN_L
Regen Signal
Throttle
Regen
Dash
Side Kickstand Switch
Front Brake
Rear Brake
GND
Green
GND


12V Brake Signal
DC_12+
CAN_H
CAN_L
Key_EN
Reverse
Green and Yellow
Black
Blue and White
Green and White
Red and Black
Violet and White
12V Brake Signal
DC_12+
CAN_H
CAN_L
Key_EN
Reverse
Horn Switch
Reverse switch
Brake Light
Optional
Headlight Switch
Headlight
Optional
TBOX
OBD Connection Port
Horn
GND
Green
GND

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.

Warranty differs from different editions, please check the warranty details when you purchase from the dealers.

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 unapproved after market accessories, it will render 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.

Service and Maintenance Record Card

Maintenance Record Card			
Date	Odometer reading	Maintenance	Remarks

Basic Information	Model		
Owner's Name		Order Date	
VIN			