Talaria-Owners-Manual-xXx

TALARIA POWER TECH

TALARIA

xXx L1e Version Owner's manual

INTRODUCTION.....1
An Important Message From Talaria.....1
About This Manual.....1
Useful Information For Safe Riding.....2
Identification Numbers.....3
Vehicle Identification Number (VIN).....3
Motor Serial Number.....5
General Information.....6
Technical Specification.....6
Vehicle Overall Dimension.....7
Circuit Schematic Diagram.....8
Transporting.....9
Safety Information.....10
Anti-Theft Alarm Information.....10
General Safety Precautions.....11
Location of Important Labels.....12
Controls and Components.....13
Motorcycle Controls.....13
Left Side View.....14
Right Side View.....17
Dash Overview.....19
Handlebar Controls.....27
Starting and Operating.....30
Pre-Ride Inspection.....30
Operating Your Motorcycle.....31
Charging and Battery Information.....35
Powertrain Basic Information.....35
Battery Information.....36
Malfunction Inspection and Troubleshooting.....41
Precautions for High Voltage Electrical Components.....41
General Troubleshooting.....42
Dash Error Codes, Failures and Troubleshooting.....42
Warranty.....47
Warranty Description.....47
Maintaining Your Motorcycle.....48
Owner's Responsibilities.....48
Scheduled Maintenance.....48
Components Fasteners.....49
Parts/Maintenance Items.....51
Maintenance Record.....58
Scheduled Maintenance Notification.....58
Maintenance Schedule Table.....58
Maintenance Record Card.....61
Customer Information Card..... **Error! Bookmark not defined.**

Introduction

An Important Message From Talaria

Congratulations and thank you for purchasing the 2023 Talaria xXx L1e Or Talaria xXx MX electric motorcycle; we welcome you to the community of Talaria Motorcycle 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 xXx L1e/MX, please ensure that this manual stays with the motorcycle. It is an important part of the vehicle. If you have any questions concerning the operation or maintenance of your motorcycle, please contact Talaria at
support@talaria.cn

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

About This Manual

This manual covers the standard features, operations, malfunction inspections and warranty for Talaria xXx L1e/MX electric motorcycles.

Talaria xXx L1e: Road Legal (For EU Countries)
Wire Wheels
17-inch Diameter Front & Rear Wheels
Street Tires

Locating and Referencing Information
A good place to locate information about the 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 motorcycle.

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 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 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

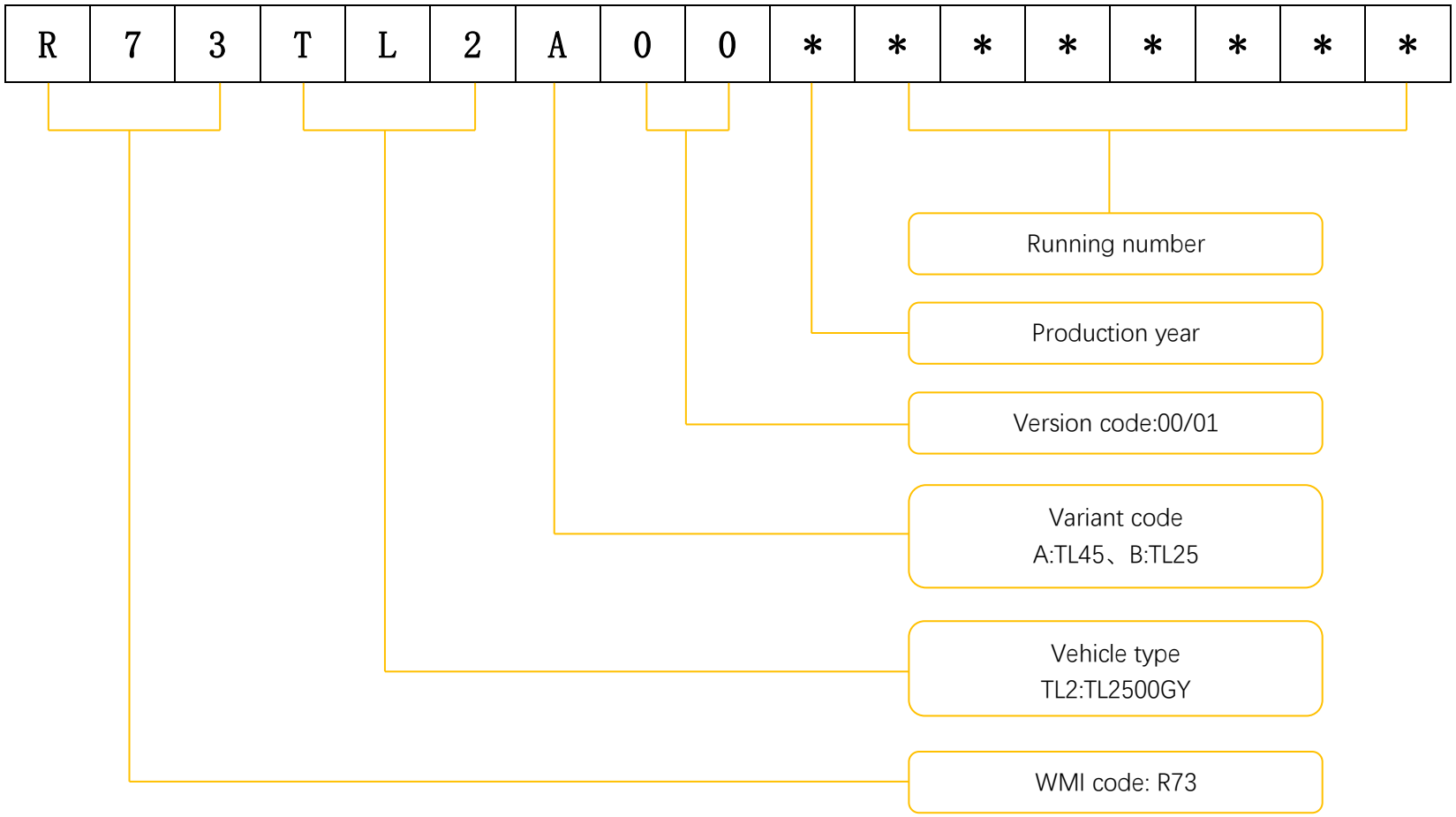
Vehicle Identification Number (VIN)

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 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.



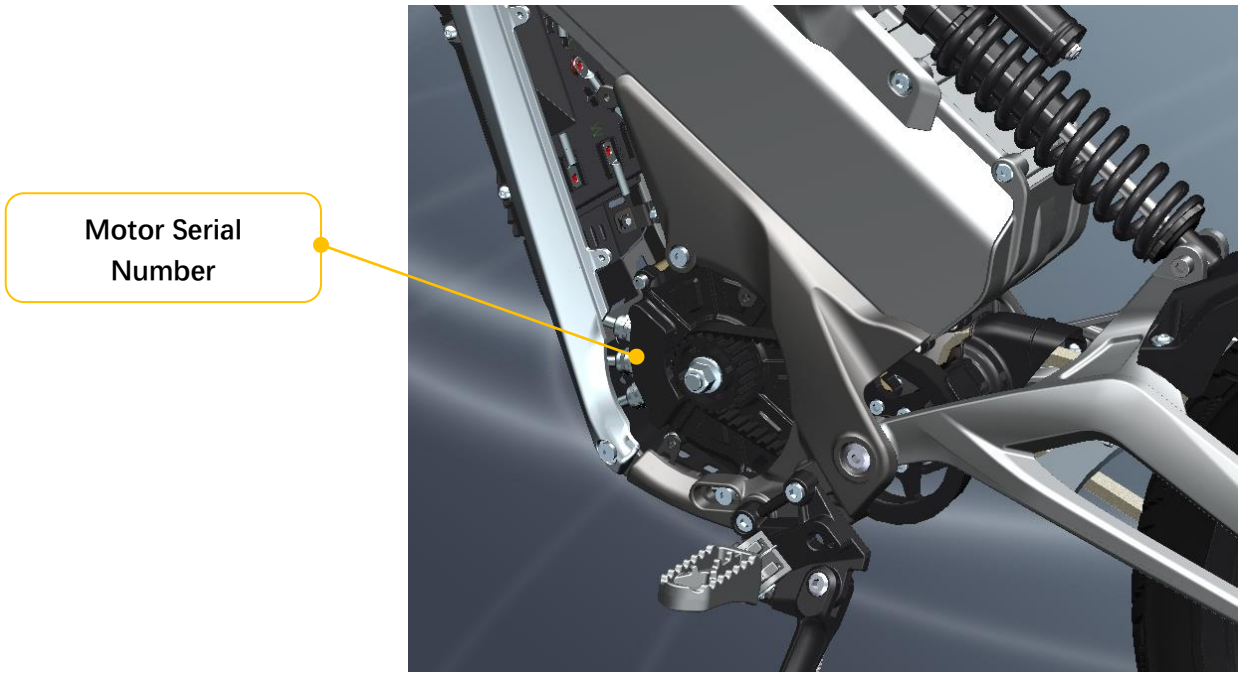
Identification Numbers

Motor Serial Number

The motor serial number is stamped on the left-hand side of the motor housing. ☆128ZW6020412NA☆

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: ☆TL2500-22122010001☆



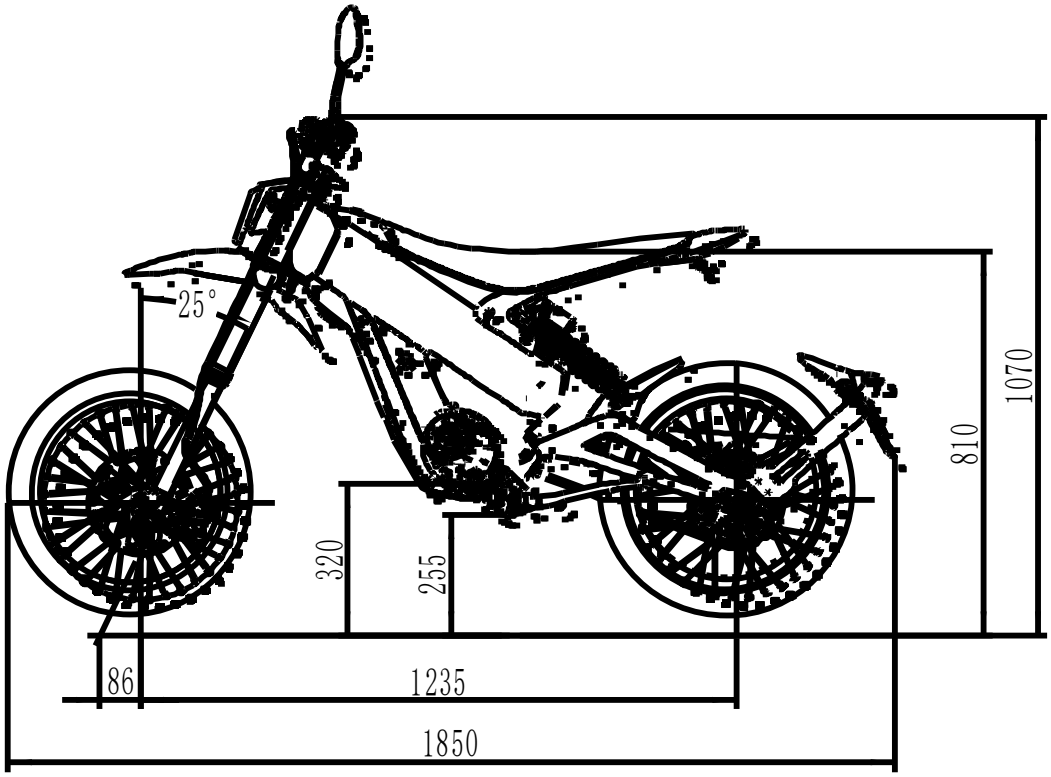
General Information

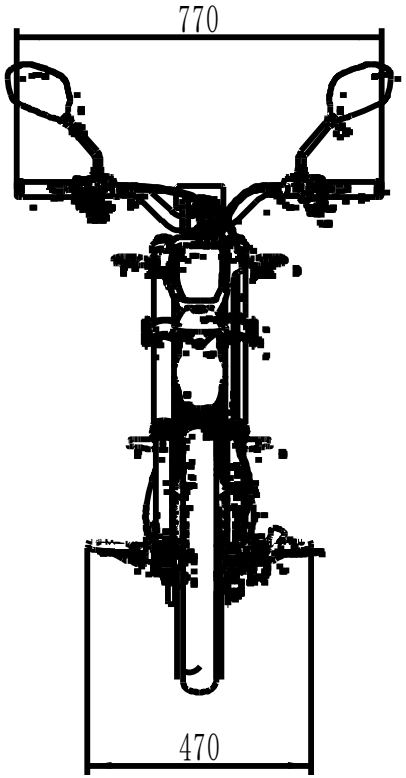
Technical Specification

Item	Specs
Vehicle Dimension	1850mm×770mm×1080mm
Wheelbase	1235mm
Vehicle Weight/40Ah Battery Included	45kg/58kg
Max. Loading Ability	100kg
Min. Ground Clearance	255mm
Seat Height	810mm
Max. Gradeability	45°
Top Speed	45km/h (L1e Version)
Nominal Power	2.5KW
Peak Power	3.5KW (L1e Version)
Torque on Rear Wheel	233N.m （48T）
Battery Pack	60V/25Ah or 60V/40Ah Lithium-ion Battery Pack
Range	≥100Km@25Km/h; ≥80Km@45Km/h (upon the battery you choose)
Charging Time	2-4h (upon the charger you choose)
Charger Input Voltage	AC110/230V-50/60Hz
Riding Modes	ECO/SPORT
Wire Wheel Size	Fr.: 1.4×17；Rr.: 1.6×17
Tire Size	Fr.: 70/100-17; Rr.: 80/90-17
Front Fork	Hi-Performance Hydraulic Fork with 200mm Travel
Rear Shock Absorber	Spring Reducing Off-Road Absorber with 85mm Travel
Brake Type	Hydraulic Front and Rear Disc Brakes
Primary Transmission	Belt Transmission
Secondary Transmission	Chain Transmission
Dash Type	TFT

General Information

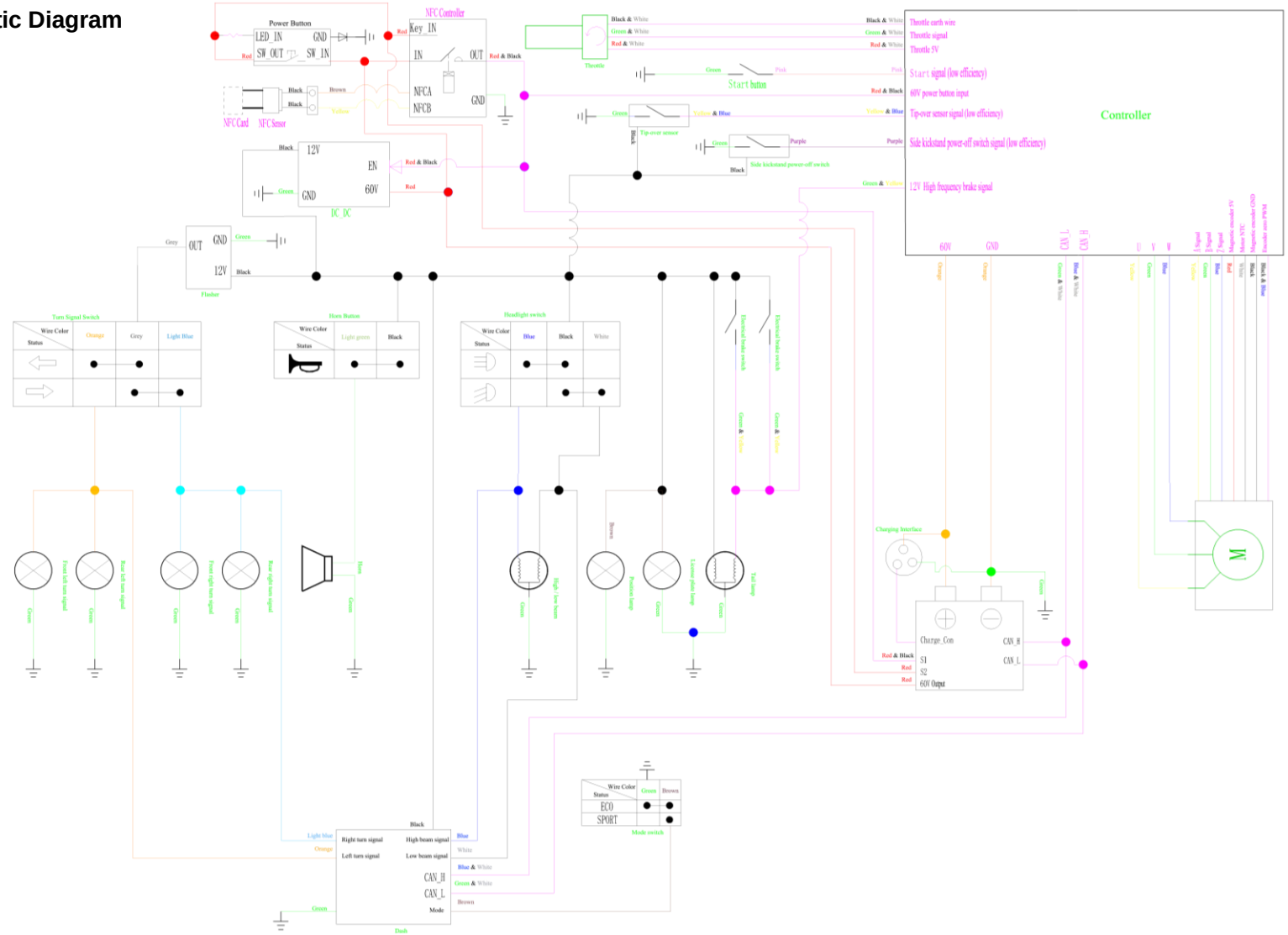
Vehicle Overall Dimension





General Information

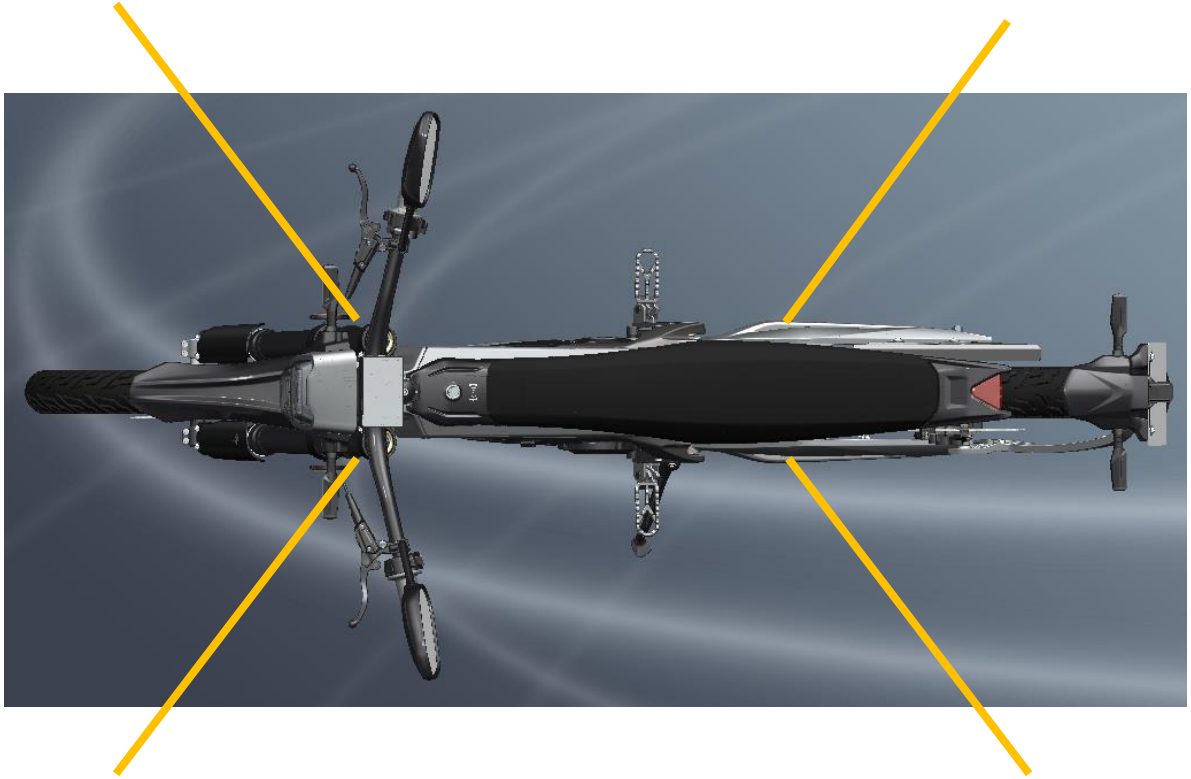
Circuit Schematic Diagram



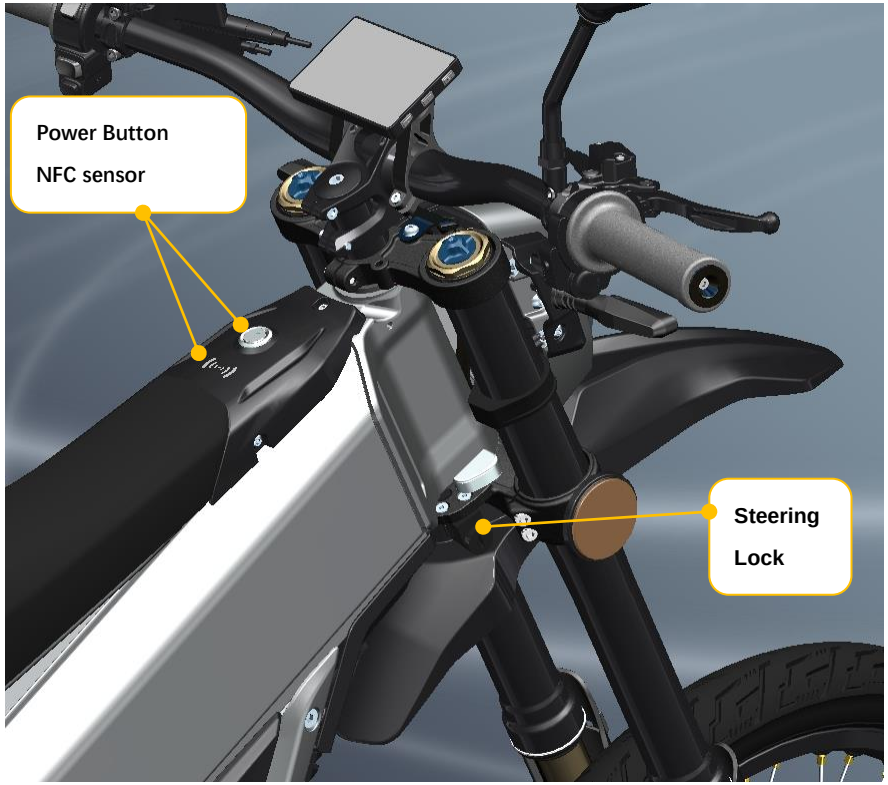
General Information

Transporting

It is recommended that the 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 damage. 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.



Safety Information



Anti-Theft Alarm Information

Keyless Go System:

Step 1： Press the Power Button, the red indicator lighted up to activate the battery's BMS, then, you can use the NFC to power on the motorcycle.

Step 2: Applicate the NFC Card to contact the NFC sensor, after the signal is well detected, you will hear the buzzer alert tone, then, NFC control unit will send signal to the battery's BMS, motor, controller and DCDC to ensure the power supply to the high and low voltage electronic units. Dash, headlight and tail lamp will light up, and the motorcycle started. Without the NFC card, the high voltage power supply will not start, the motorcycle will not work, and this is effectively kept your motorcycle away from the theft.

Steering Lock: Steer the handlebar to the left, insert the key to turn the key 180° clockwise to lock the steering system. And turn the key180° anticlockwise to unlock the steering system. No matter you lock or unlock the steering system, please don't forget to pull out the key and keep it with you.

Safety Information

General Safety Precautions

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

Please obey the local traffic rules, and ride the motorcycle with a proper speed. (Top speed for xXx L1e version is 45km/h)

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 motorcycle 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 motorcycle. The seller assumes no liability for misuse or operator negligence

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

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

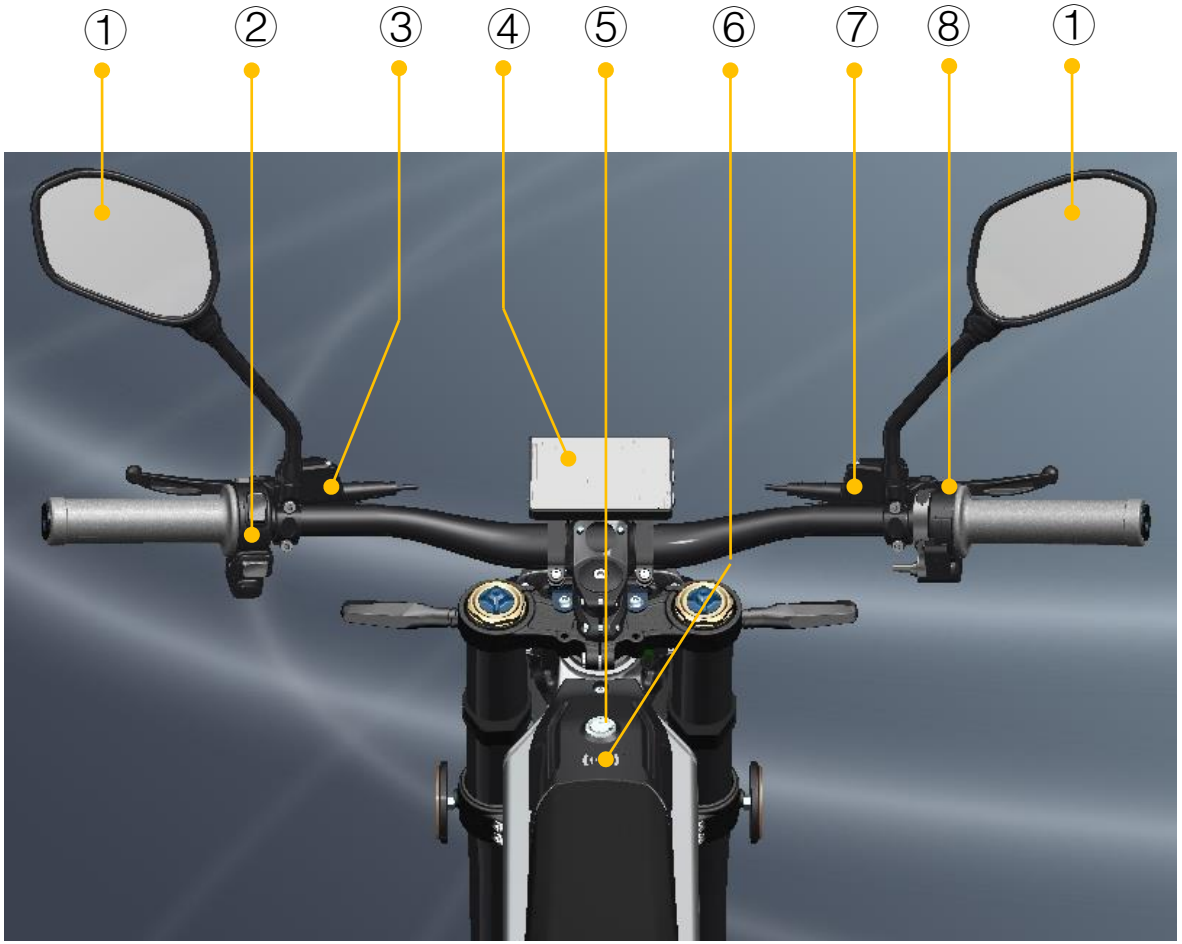
Be very careful when loading or adding accessories to your motorcycle. Large, bulky, or heavy items may adversely affect the handling and performance of your motorcycle.

Safety Information

Location of Important Labels

Controls and Components

Motorcycle Controls



Controls and Components

① **Mirrors**

This motorcycle is equipped with convex mirrors. A convex mirror has a curved surface. Convex mirrors offer a greater field of view than a similar flat mirror. However, the greater field of view makes objects seem further away than they really are. Care must be used when judging the distance of objects seen in these mirrors.

② **Left handlebar Control**

For description and operation, see “Handlebar Controls” on page 27.

③ **Rear Brake Assy.**

For description and operation, see “Rear Brake Lever” on page 28, and “Braking” on page 32.

④ **Dash**

For description and operation, see “Dash Overview” on page 19.

⑤ **Power Button**

For description and operation, see “Operating Your Motorcycle” on page 31.

⑥ **NFC Sensor**

After you pressed the Power Button, applicate the NFC Card on the NFC Sensor to have your motorcycle started. For description and operation, see “Keyless Go Start System” on page 10, and “Operating Your Motorcycle” on page 31.

⑦ **Front Brake Assy.**

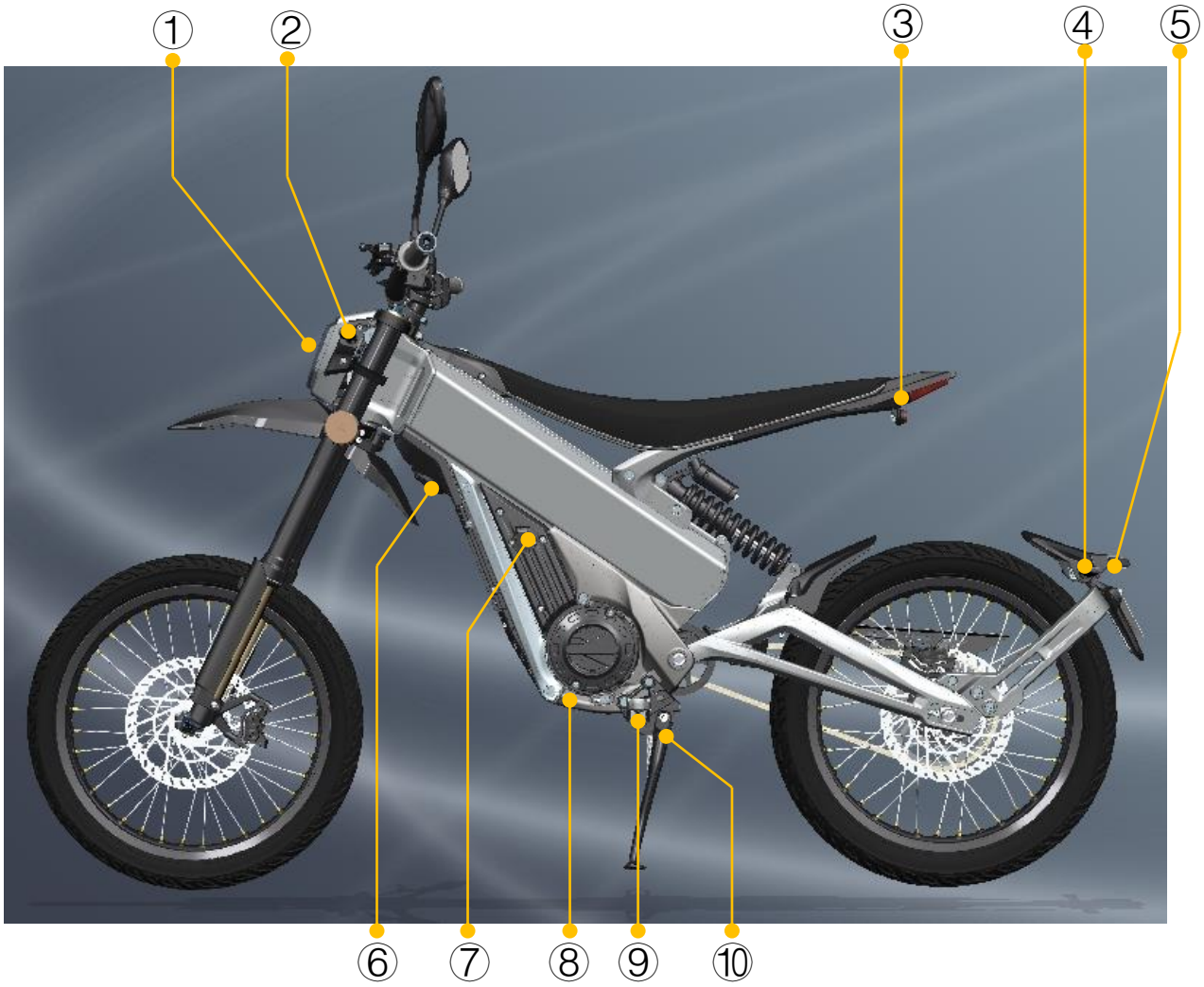
For description and operation, see “Front Brake Lever” on page 29, and “Braking” on page 32.

⑧ **Throttle**

For description and operation, see “Handlebar Controls” on page 29.

Controls and Components

Left Side View



Controls and Components

① **Headlight**

Lighting device used for night riding. For headlight operation, see “High/Low Beam Switch” on page 28.

② **Front Turn Signal**

The turn signals are applicated to draw attention to the vehicles or people around you when you turn the motorcycle. For your and others’ safety, please do applicate the turn signals properly. For description and operation, see “Turn Signal Switch” on page 28.

③ **Tail Lamp**

After your motorcycle powered on, when you squeeze the brake lever, the tail lamp will light up in red to draw attention to the vehicles which are behind you to prevent any accidents happen.

④ **Rear Turn Signal**

The turn signals are applicated to draw attention to the vehicles or people around you when you turn the motorcycle. For your and others’ safety, please do applicate the turn signals properly. For description and operation, see “Turn Signal Switch” on page 28.

⑤ **License Plate Lamp**

Used to illuminate the license plate.

⑥ **Horn**

For description and operation, see “Handlebar Controls” on page 29.

⑦ **On-Bike Charging Interface**

Please use Talaria stock charger to charge the battery. Before you charge the battery, please turn off your motorcycle at first.

⑧ **Belt Tensioner**

Used to adjust the tightness of the belt. For description and operation, see “Belt Tensioner Application” on page 56.

⑨ **Side Kickstand Power Off Sensor**

Used to cut the power supply when the side kickstand still stands your motorcycle, so that to prevent any accidents or injuries by maloperation.

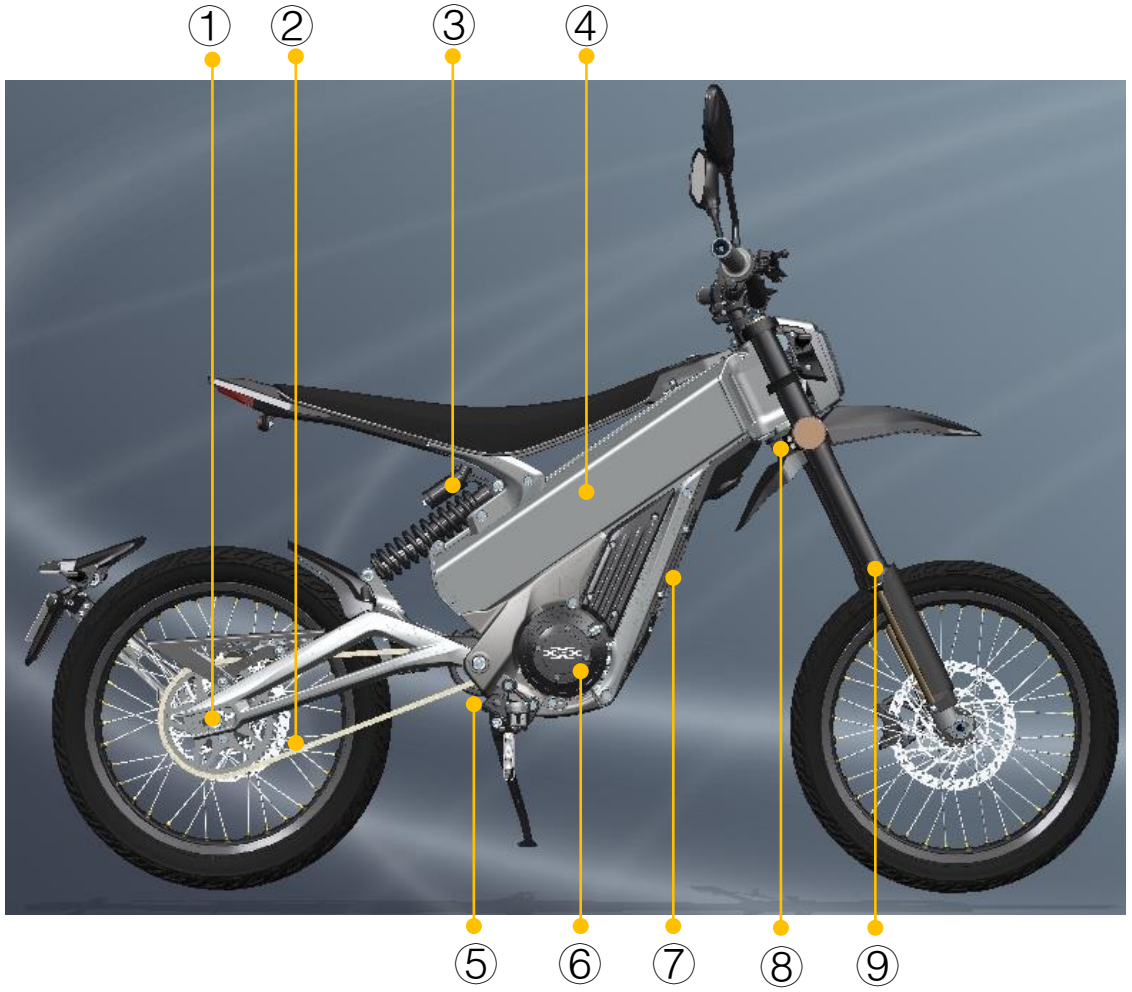
⑩ **Side Kickstand**

Used to stand your motorcycle. When you park your motorcycle, please make sure it’s turned off.

Warning: Please choose the flat hard ground to park your motorcycle. If you park your motorcycle on slope, or soft ground, your motorcycle may will tip over, and cause some damages.

Controls and Components

Right Side View



Controls and Components

① Chain Tension Adjuster

Used to adjust the tension if driving chain. See description and operation for “Driving Chain Tension Adjustment” on page 57.

② Chain

Chain for the secondary transmission, it’s strongly recommended to check the tension of the chain regularly. See description and operation for “Driving Chain Tension Adjustment” on page 57.

③ Rear Shock Absorber

See description and operation for “Front Fork and Rear Shock Absorber” on page 34.

④ Battery

xXx Electric Motorcycle，it’s used the state-of-the-art PTC structure design. The battery pack is integrated into the chassis. See description and operation for “Battery” on page 36.

⑤ Belt

It’s used for the primary transmission; it’s strongly recommended to check the tension of the belt regularly. See description and operation for “Belt Adjustment” on page 56.

⑥ Motor

See description and operation for “Powertrain” on page 35.

⑦ Controller

See description and operation for “Powertrain” on page 35.

⑧ Steering Lock

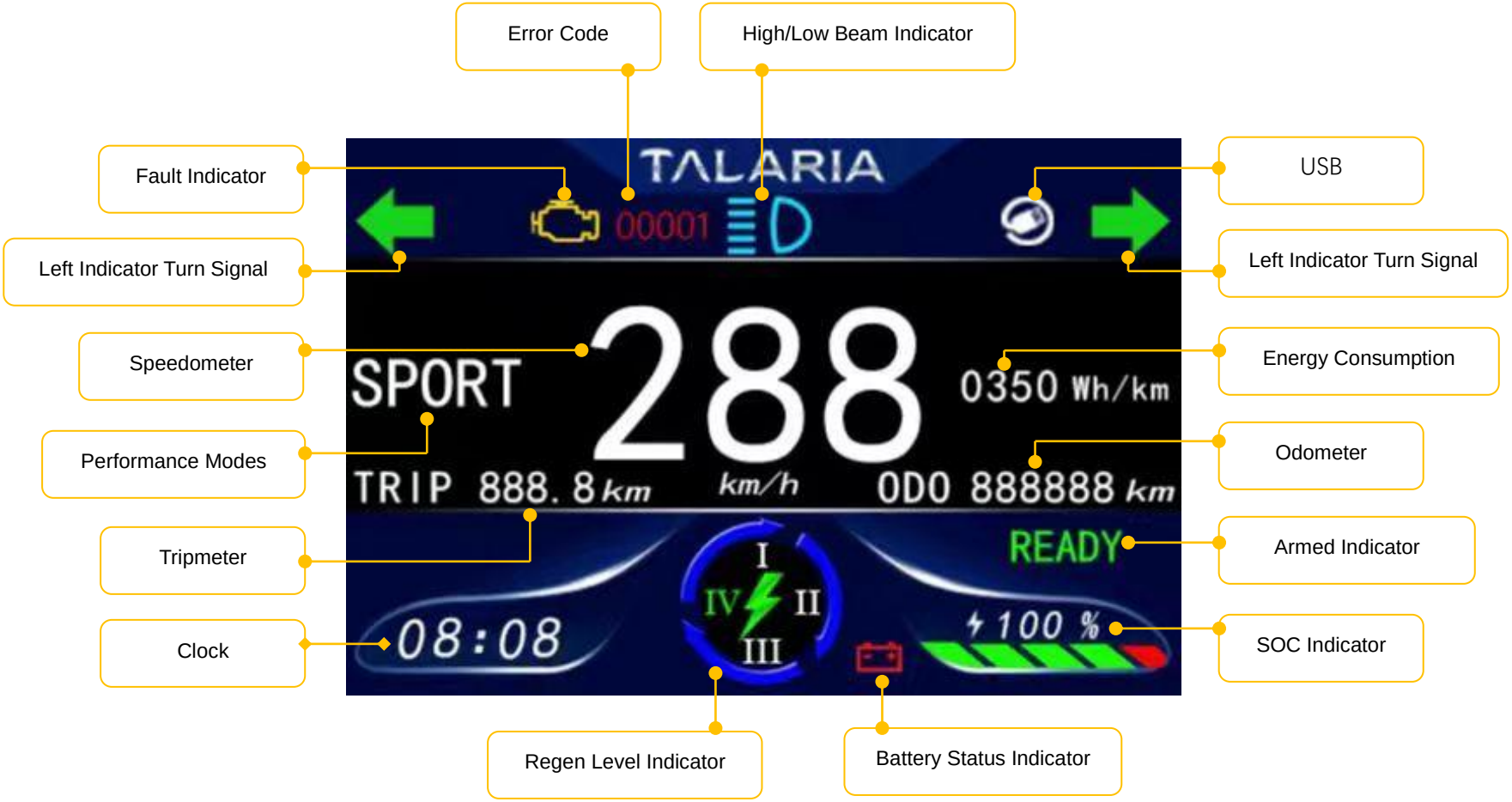
See description and operation for “Steering Lock” on page 10.

⑨ Front Fork

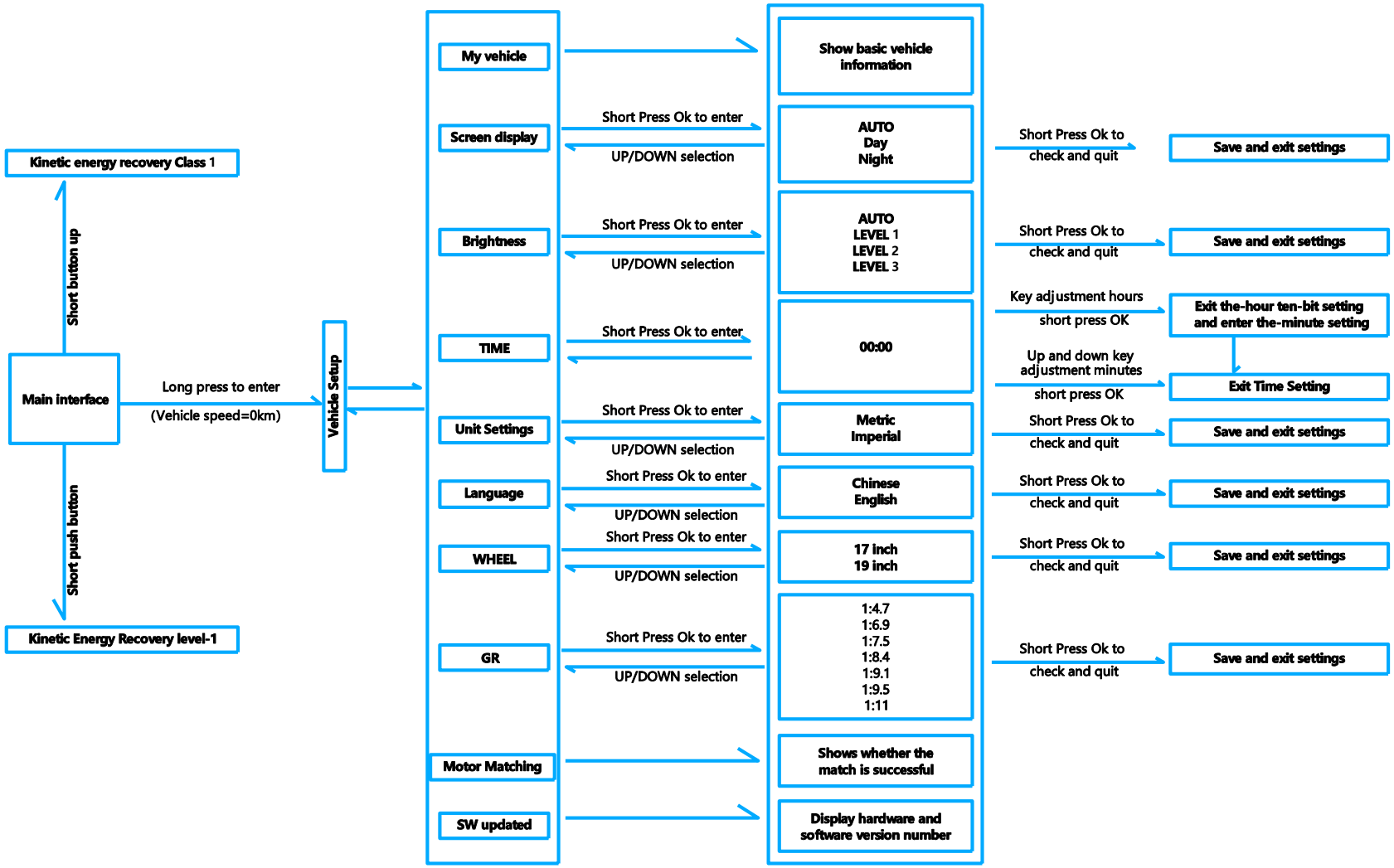
See description and operation for “Front Fork and Rear Shock Absorber” on page 34.

Controls and Components

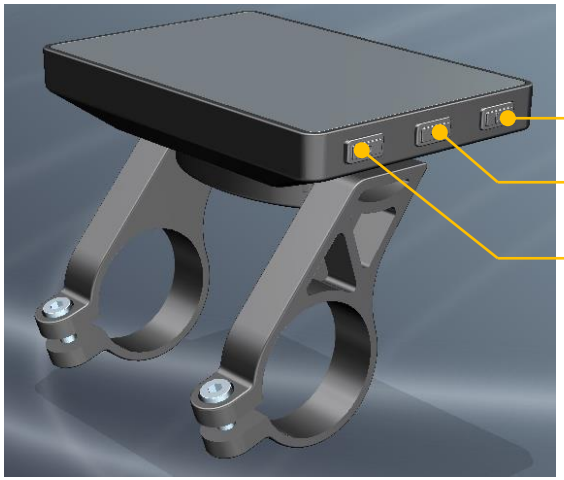
Dash Overview



Controls and Components



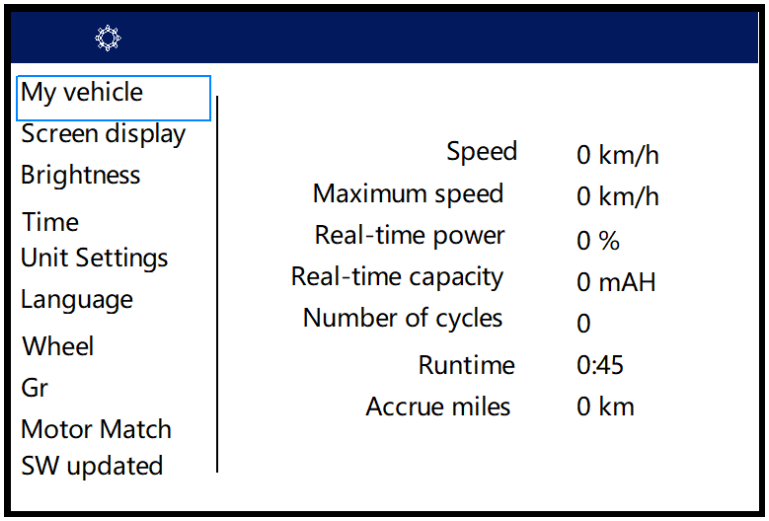
Controls and Components



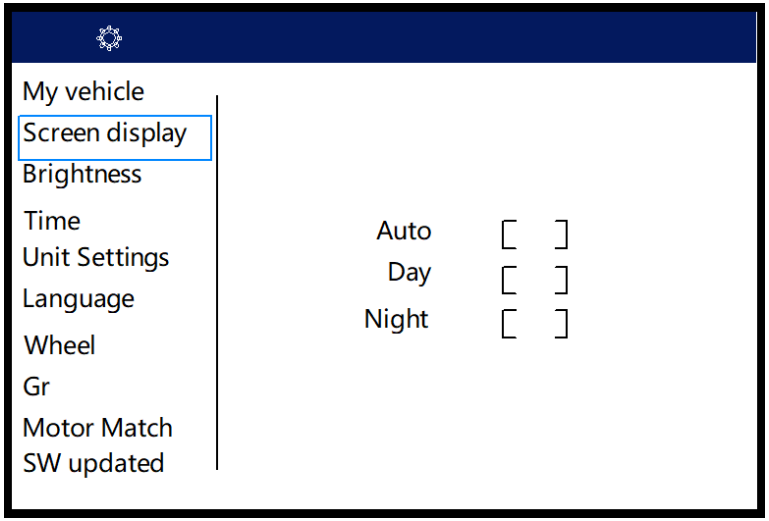
In the main interface，press SEL UP one time，Regen +1 level；holding SEL UP to clear the trip to ZERO.

In the main interface，press SEL UP one time，Regen -1 level.

Controls and Components

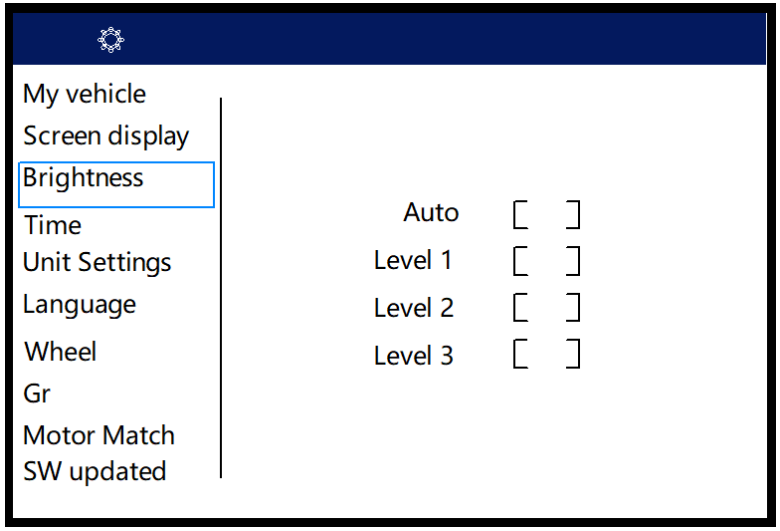


My Vehicle：Press SAVE to enter into the set interface, then, the riding data will show on the display (Such as the information about the speed, battery, runtime, range, and so on).

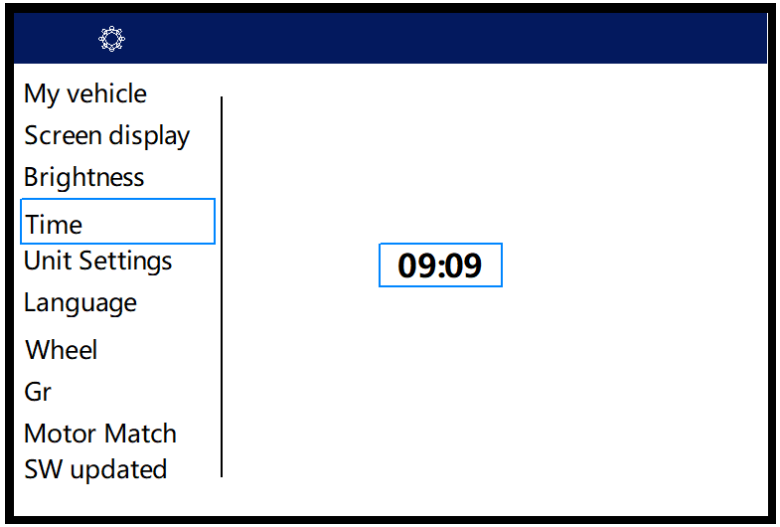


Screen Display：Press SEL DOWN to enter into “Screen display” setting interface. Then, press SAVE to start selecting the screen display modes by pressing SEL UP or SEL DOW, and finally, press SAVE to save the setting. There are 3 modes to select. Auto Mode, the screen will automatically adjust the display brightness accord to the environment luminance. Day Mode, the screen display will keep the high brightness. Night Mod, the screen display will keep a clear and comfortable brightness. Auto Mode is the default setting.

Controls and Components

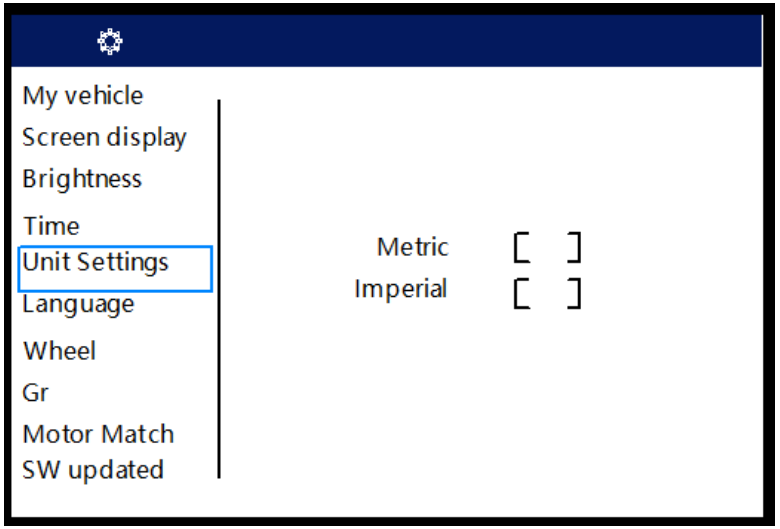


Brightness：Press SEL DOWN to enter into “Brightness” setting interface. Then, press SAVE to start selecting the brightness modes by pressing SEL UP or SEL DOWN, and finally, press SAVE to save the setting. There are 4 brightness modes to select. Auto Mode will automatically adjust the brightness accord to the environment luminance. Level 1 is with the highest brightness. Level 1 is with the medium brightness. Level 3 is with the low brightness. Auto Mode is the default setting.

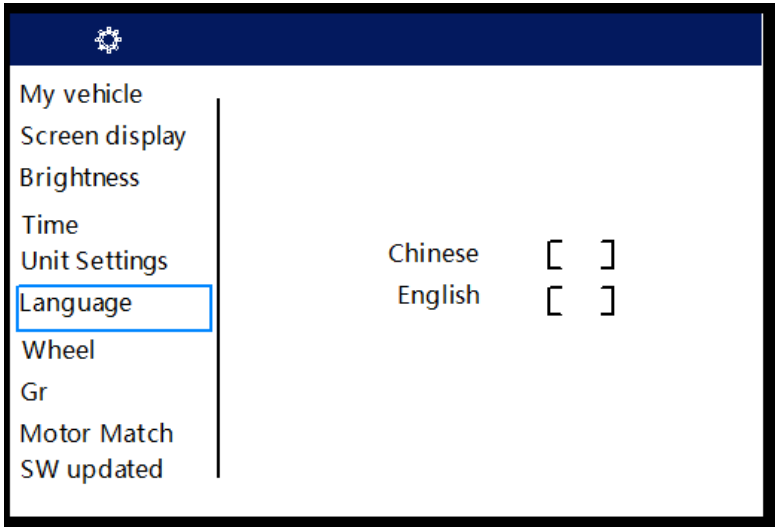


Time：Press SEL DOWN to enter into “Time” setting interface. Then, press SAVE to start setting the time by pressing SEL UP or SEL DOWN, and finally, press SAVE to save the setting.

Controls and Components

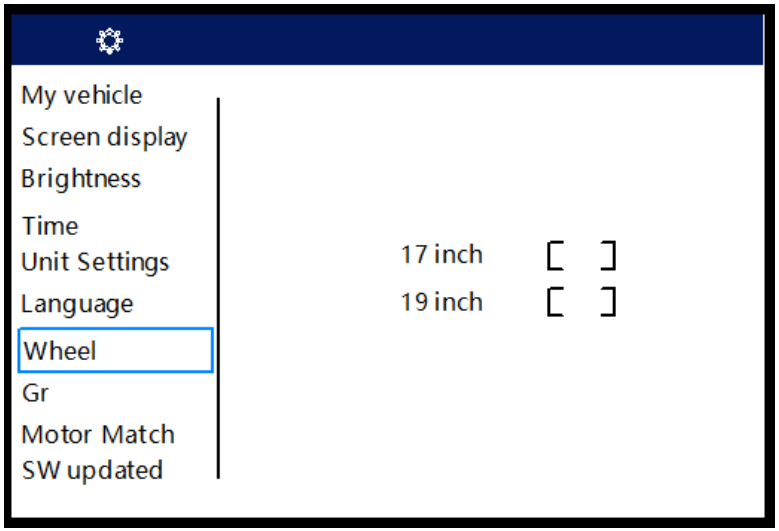


Unit Settings： Press SEL DOWN to enter into “Unit Setting” setting interface. Then, press SAVE to start selecting Metric or Imperial unit display by pressing SEL UP or SEL DOWN, and finally, press SAVE to save the setting.



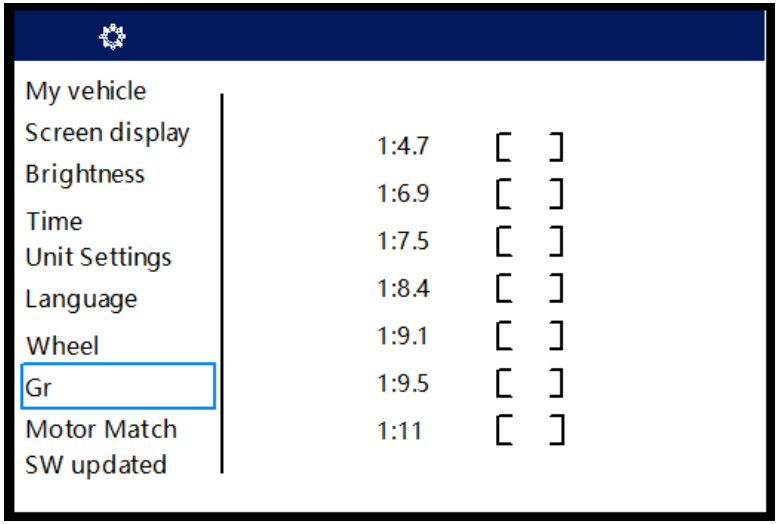
Language: Press SEL DOWN to enter into “Language” setting interface. Then, press SAVE to start selecting Chinese or English by pressing SEL UP or SEL DOWN, and finally, press SAVE to save the setting.

Controls and Components



Wheel: Press SEL DOWN to enter into “Wheel” setting interface. Then, press SAVE to start selecting wheel diameter by pressing SEL UP or SEL DOWN, and finally, press SAVE to save the setting. The incorrect diameter setting will cause the incorrect speed indication. The default wheel diameter setting is 17inch.

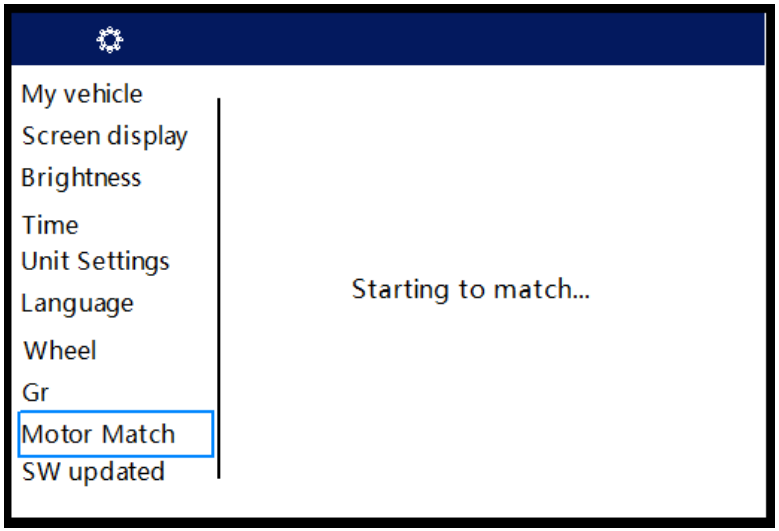
Notice: The wheel diameter refers to **the rear driving wheel**. If you choose the wrong wheel diameter, your motorcycle will still run with no problems. But the Speedometer will display the incorrect real-time speed.



Gr: Press SEL DOWN to enter into “Gr” setting interface. Then, press SAVE to start selecting gear ratio by pressing SEL UP or SEL DOWN, and finally, press SAVE to save the setting.

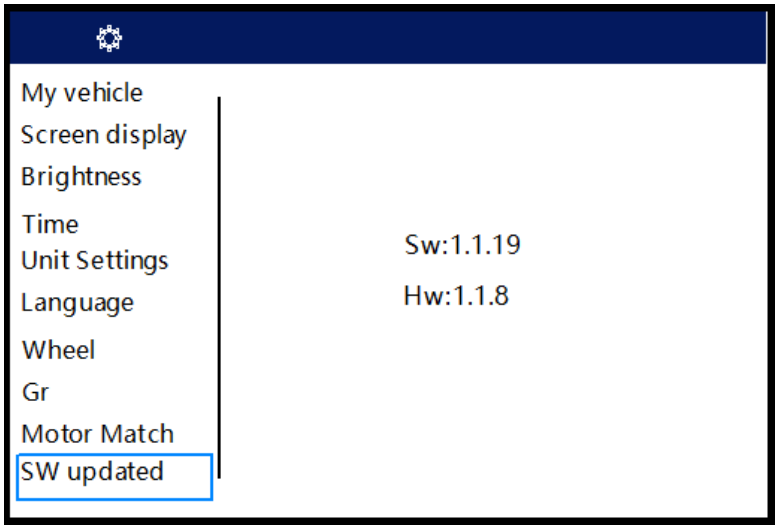
Notice: For **Talaria xXx L1e version, the default GR setting is 1:6.9 only.** No need to choose other GR. If the gear ratio you chosen does not match the sprocket on your motorcycle. Your motorcycle will still run with no problems. But the Speedometer will display the incorrect real-time speed.

Controls and Components



Motor Match: Press SEL DOWN to enter into “Motor Match” setting interface. When the motorcycle status is “WAIT”, and the side kick stand is folded up, press SAVE to start the motor match within one minute after the bike is powered on. Then, the motorcycle will have a small move, and after that, it will show the match is successful or failed.

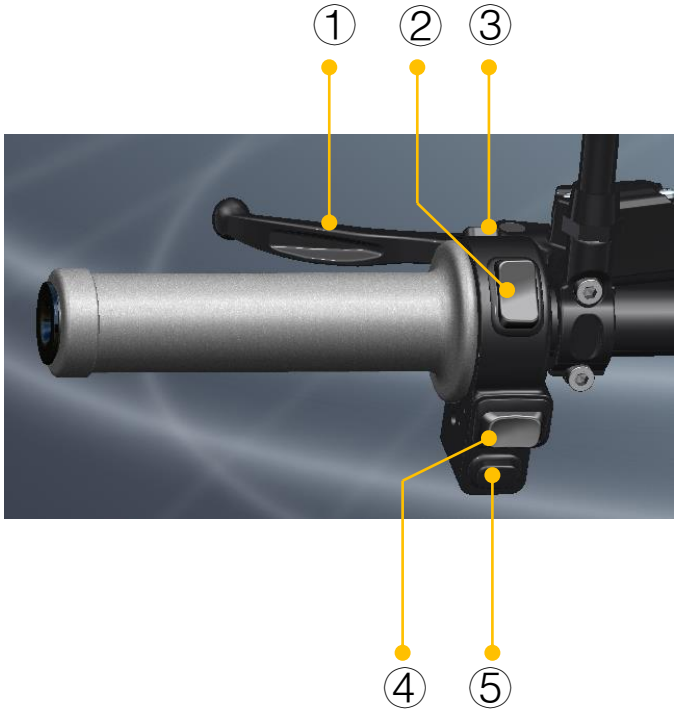
Remarks: The offset of the magnetic encoder’s electrical angle is possible to make the motor get reverse rotation. The “Motor Match” function will self-adapt the offset, and prevent the motor reverse rotation happen.

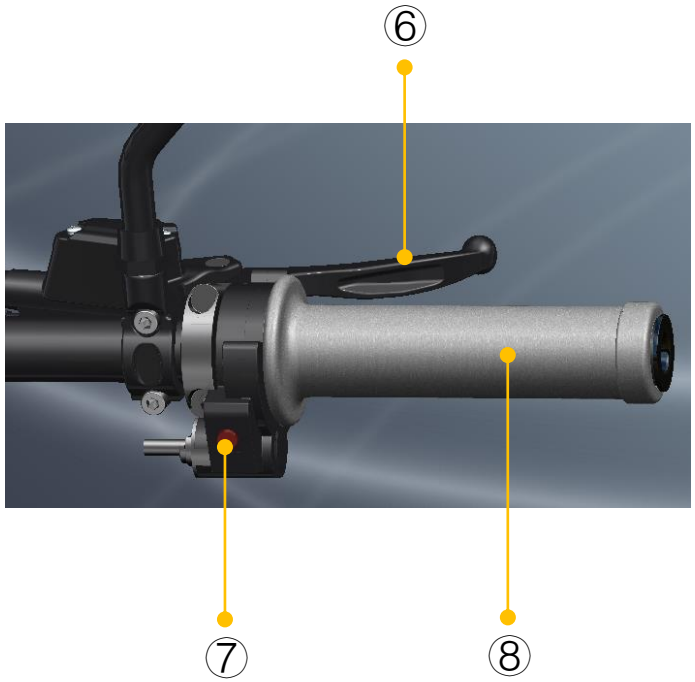


SW updated: Press SEL DOWN to enter into “SW updated” setting interface. Press SAVE to select the version number by press SEL UP or SEL DOWN, then, press SAVE to see the information of the Dash’s software.

Controls and Components

Handlebar Controls





Controls and Components

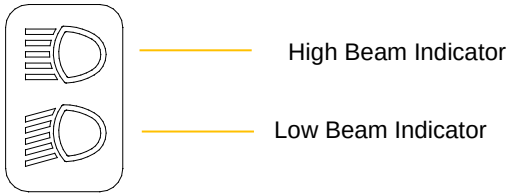
① **Rear Brake Lever**

Squeeze the rear brake lever can control the rear brake system to decelerate the speed or stop the motorcycle. When braking, the throttle should be in the closed position, and the brake lamp will light up.

② **High/Low Beam Switch**

Press the high beam switch, the high beam and the high beam indicator on the dash will light up. Press the low beam switch, high beam will shut, the low beam and the low beam indicator on the dash will light up.

Remarks: According to the EEC stipulation for L1e category, when the motorcycle is powered on, the low beam cannot shut.

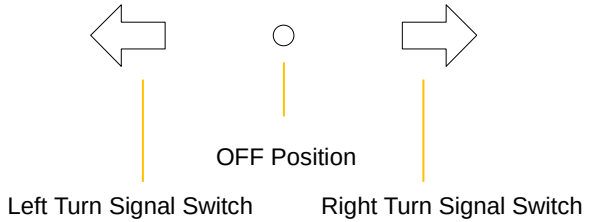


③ **Riding Modes Switch**

It's used to select ECO or Sport riding modes. ECO mode is with a relatively gentle acceleration and longer riding range. It's perfect to the fresh riders, as well as the riders who want a good riding range.

Sport mode is with a strong power output and fast acceleration. It enables the skilled riders completely enjoy the amazing electric power sports.

④ **Turn Signal Switch**



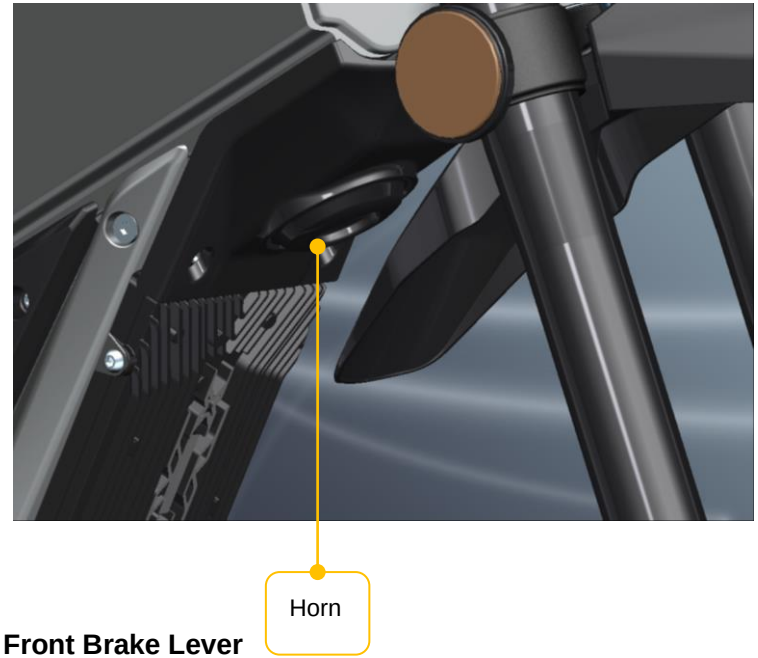
Press left or right turn signal switch, the corresponding turn signal will start blinking, and the turn signal indicator on the dash will illuminate.

Always signal your turns and other maneuvers as required by law. Unlike an automobile, the turn signals must always be canceled manually on the motorcycle. Push in on the switch and it returns to the center, or OFF position.

Controls and Components

⑤ Horn Button

When the motorcycle is powered on, the horn sounds when the button is pressed. Electric vehicles run quietly; the horn can be used to warn pedestrians or other motorists of your presence.



⑥ Front Brake Lever

Squeeze the front brake lever can control the front brake system to decelerate the speed or stop the motorcycle. When braking, the throttle should be in the closed position, and the brake lamp will light up.

⑦ START Button

See description and operation for “Starting” on page 32.

⑧ Throttle

Twist the throttle in a counter-clockwise rotation to energize the motor and start the motorcycle in a forward direction. Release the throttle and it snaps back to the closed position, de-energizing the motor, the motorcycle will keep moving forward because of the inertia. When the regen is level II or higher levels, the regenerative braking will be activated. Regenerative braking takes some of the energy from the moving motorcycle and turns it back into electrical energy. This energy is then stored in the battery, contributing to increased energy efficiency. A slight drag is felt when the regenerative braking is activated. If you want to coast without the regenerative braking, please select regen level I.

Starting and Operating

Pre-Ride Inspection

Before operating your Talaria xXx Motorcycle, check the following to make sure the 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 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.

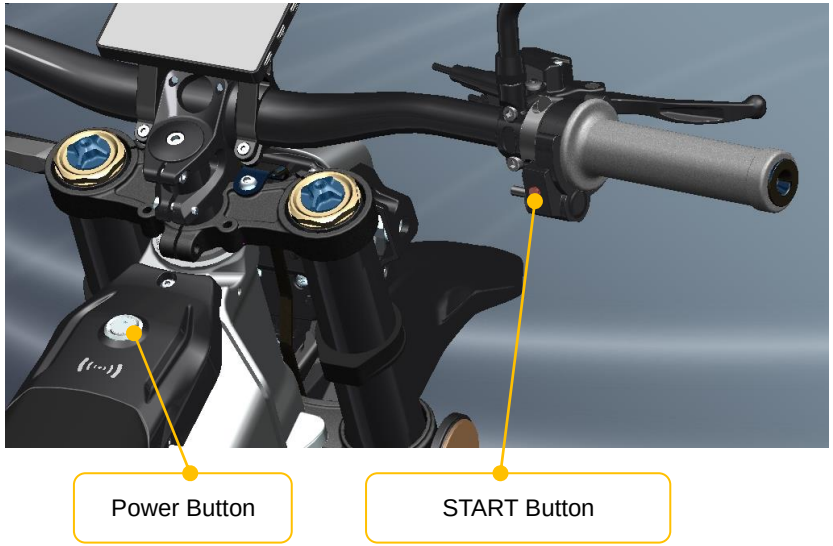
Electrical System: Check for correct function of the headlight, turn signals, and the brake/tail lights.

Starting and Operating

Operating Your Motorcycle

Starting

Press the power button, the indicator will light up in red, then, applicate the NFC Card to contact the NFC Sensor to power on the motorcycle. Once the motorcycle is powered on, “WAIT” will show on the dash. After you well seat on the motorcycle, and with the side kickstand up, press the start button, there will have “READY” to show on the dash to indicate the motorcycle is ready to ride, and twist the throttle toward you (counter-clockwise) to increase speed.



Remarks: The side kickstand is equipped with a power off sensor. It’s used to cut the power supply when the side kickstand still stands your motorcycle, so that to prevent any accidents or injuries by maloperation. Therefore, when the side kickstand stands your motorcycle, twist the throttle will not have power output, and the motor will not run.

Stopping Your Motorcycle

When your motorcycle is powered on, press the power button to stop your motorcycle.

Starting and Operating

NFC Card Operating Instruction

Admin NFC Card: The NFC Card, which is applicated to power on the motorcycle first, it will automatically be identified as the only admin NFC card. And it must be properly kept. The admin NFC card will be used as verification to unlock, add, or delete the any duplicate NFC cards, and its permission is higher than any of the duplicate NFC cards.

Add Duplicate NFC Card: Press the power button, applicate the admin NFC card to power on the motorcycle (Please keep the side kickstand standing the motorcycle to make sure there's no power output). Please keep the admin NFC card contacting the NFC sense around 5 seconds after hear the buzzer alert tone for 5 times, take away the admin NFC card, and applicate the duplicate NFC card to contact the NFC sensor. You will hear the buzzer alert tone if the duplicate NFC card successfully identified. If you didn't applicate the duplicate NFC card to contact the NFC sensor for more than 10 seconds, the duplicate NFC card identify procedure will automatically quit. Then, you need to repeat the whole procedure again.

NFC Card Duplicate to Smart Devices

NFC Card Duplicate to Smartphone: Applicate the admin NFC card to contact the NFC sensor on your smartphone. Once your smartphone's NFC sensor identified the admin NFC card, just follow your smartphone's operation prompt to finish the duplicating is ok.

NFC Card Duplicate to Smart Band: Applicate the admin NFC card to contact the NFC sensor on your smart band. Once your smart band's NFC sensor identified the admin NFC card, just follow your smart band's operation prompt to finish the duplicating is ok.

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 motorcycle and could lead to serious injury or death. Progressive use of the brakes should bring the motorcycle to a complete stop without locking the wheels. Your Talaria xXx 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 motorcycle, reset the throttle, press the power button to power off the motorcycle.
3. After parking, use the kickstand to stand the motorcycle. Make sure you have powered off the motorcycle, and well lock the steering lock before leave and take the NFC card and steering lock key with you.

Starting and Operating

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

Powertrain Basic Information

Talaria xXx powertrain’s voltage is 60V, and the power cables are in orange color. When you use, maintain, or repair the motorcycle, please make sure the electrical isolations for the power cables, and other electronic parts are in good condition.

Caution:

It is strictly prohibited for untrained people to disassemble the motor, otherwise it may cause the change of magnetic encoder’s electrical angle, or damage the motor’s sealing. This will lead to motor malfunction and damages.

Controller is the high voltage precise part, it is strictly prohibited for untrained people to disassemble the controller. Incorrect wire connection will lead to controller damages or even electric shock.

It is strictly prohibited for untrained people to disassemble the powertrains. It is strongly recommended to obtain the maintenance or repairing service from Talaria dealers’ network.

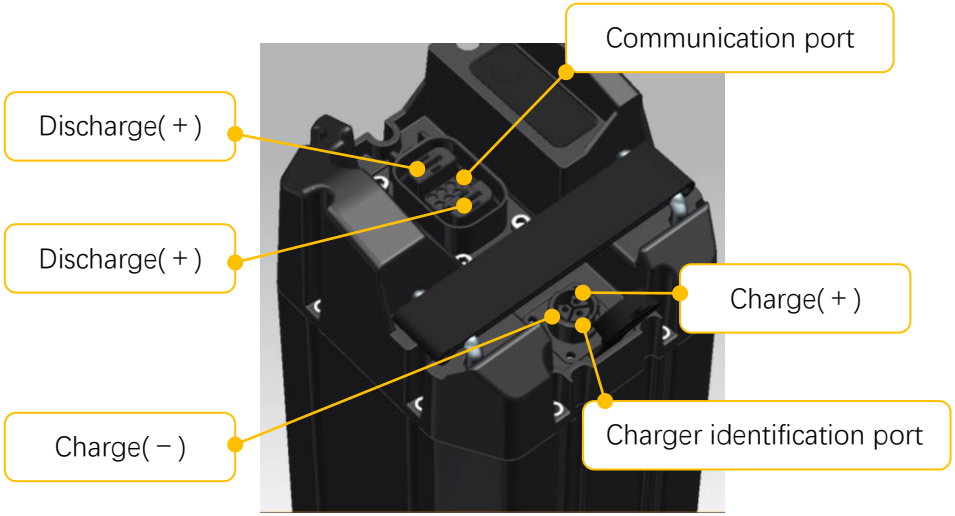
When the powertrain works, the power cable will transfer heavy current. Therefore, all the power cables need to be properly connected, and must make sure the fasteners for the power cables meet the required torque standard.

Charging and Battery Information

Battery

Battery Basic Information

Talaria xXx electric motorcycle uses high-performance high-rate lithium 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:

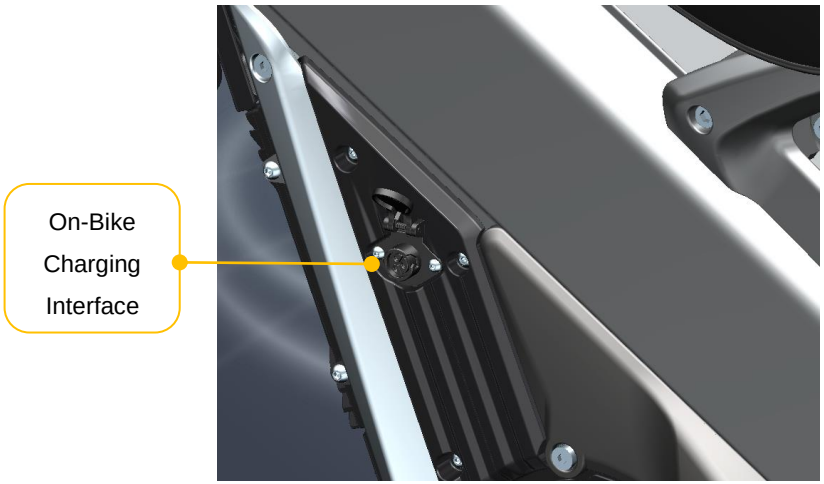
1. Do not charge the battery under 0℃, or it may lead battery damage. Please wait until the battery temperature rises.
2. Too low temperature will affect the battery performance, leading to a drop of endurance mileage. It will go back to normal when the temperature rises.
3. The battery is equipped with well-improved protection function, enable it avoid any damages arising from overcharge and over discharge. However, over discharge will affect the battery performance. Please charge the battery promptly in the case of low battery.
4. Please charge the battery frequently. The lithium battery used in your motorcycle is with no memory setting, 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%, disconnect the discharge plug. Charge the battery once for every 3 months to prevent it from inactivity and avoid degradation of performance.

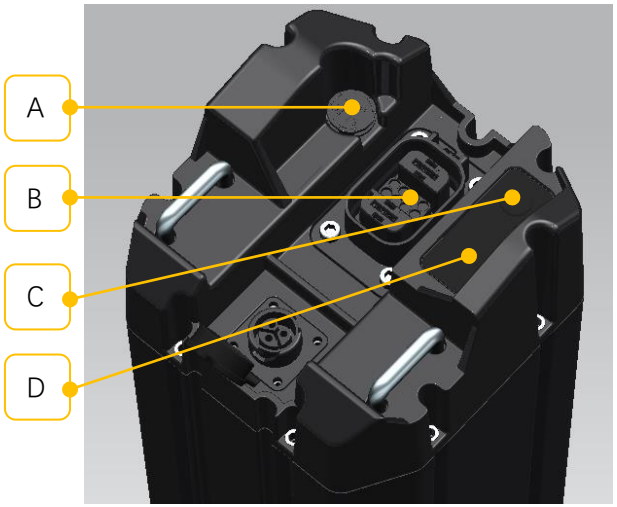
Caution:

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.

Charging and Battery Information

Battery Charging and Charger Usage





A：Breather Valve

B：Battery Discharge Port

C：Activating Button

D：Battery Indicator

1. Your motorcycle uses a customized lithium-ion battery charger. Do not use other chargers, or it may lead to 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-Bike 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.

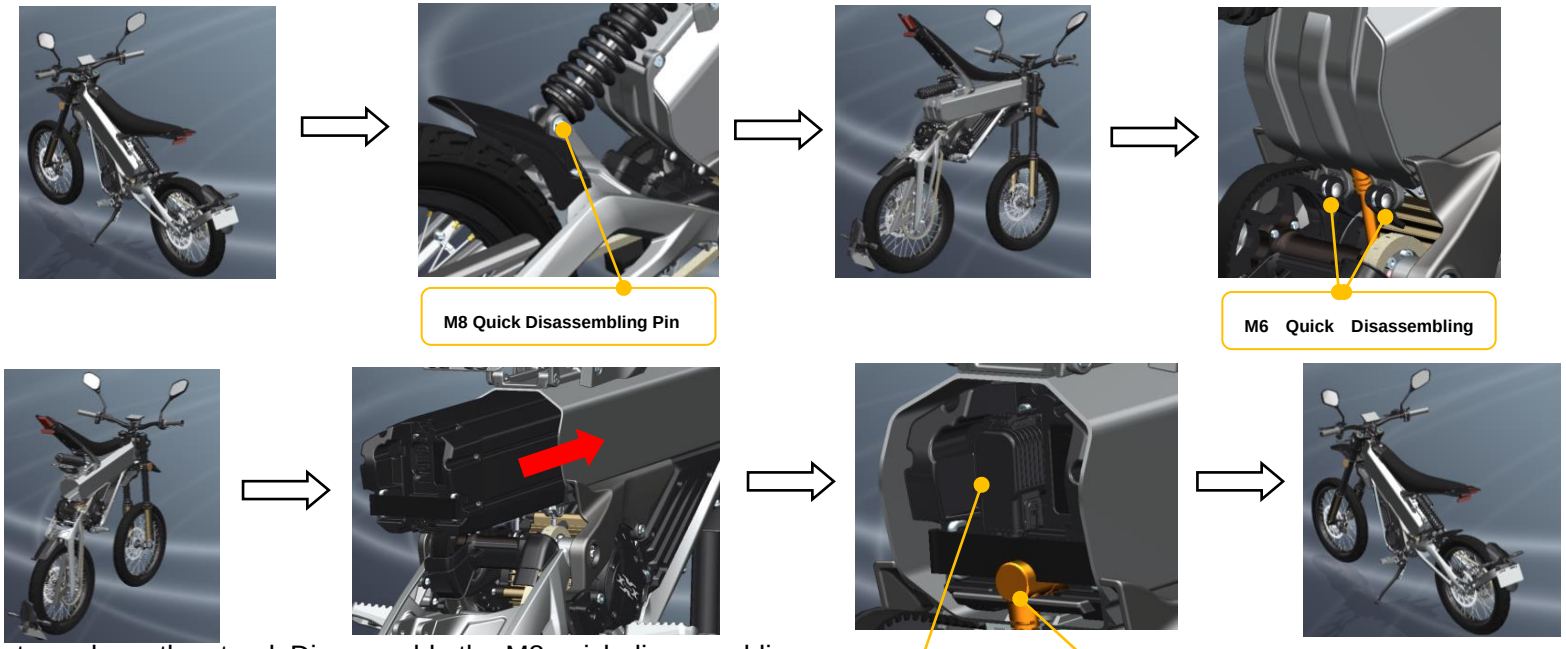
4. It is strictly prohibited to cover the charger with any object when using it. This charger is for indoor use. Please use it in a dry and well-ventilated place.

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

Battery Installation and Remove

1) Battery Installation



1. Place your motorcycle on the stand. Disassemble the M8 quick disassembling pin, which is fix the lower end of the rear shock absorber on the rear fork.
2. Disassemble the two M6 quick disassembling pins (no need to completely disassemble the pins, just loosen them to open the battery container cover is fine) to open the battery container cover.
3. Install the battery into the battery container as show in the above picture. Connect the discharging plug and charging plug properly.
4. Close the battery container cover, assemble and fasten the two M6 quick disassembling pins. And finally, assemble and fasten the M8 quick disassembling pin.

Caution: Please ensure the discharging plug and charging plug are well connected. Otherwise, may lead to battery activation failure, and your motorcycle will not work, or On-Bike charging failure.

Charging and Battery Information

2) Battery Remove

1. Power off your motorcycle, and place it on the stand. Disassemble the M8 quick disassembling pin, which is fix the lower end of the rear shock absorber on the rear fork.
2. Disassemble the two M6 quick disassembling pins (no need to completely disassemble the pins, just loosen them to open the battery container cover is fine) to open the battery container cover.
3. Disconnect the discharging plug and charging plug, then, pull out the battery as show in above picture.

Remarks: If there're no other operations for a short time. It's suggested to assemble and fasten the M6 and M8 quick disassembling pins continuously. Then, use the side kickstand to stand your motorcycle.

Malfunction Inspection and Troubleshooting

Precautions for High Voltage Electrical Components

Your Talaria xXx 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 bike, 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	00001	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	00002	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	00003	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	00005	Storage error	Storage devices got failure.	Restarting	If the error code still shows, send the motorcycle to the nearest dealer for service.
5	00006	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	00007	Discharge MOS error	Discharge circuit got failure	Restarting	If the error code still shows, send the motorcycle to the nearest dealer for service.
7	00008	Charging MOS error	Charging circuit got failure	Restarting	If the error code still shows, send the motorcycle to the nearest dealer for service.
8	00009	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	0000A	Level 1 over discharge	Over discharge caused low battery protection error	Charge the battery immediately.	
10	0000B	Level 2 over discharge			
11	0000C	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	0000D	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	0000E	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	0000F	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	00010	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	00020	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	00030	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	00040	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	00050	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	00060	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	00070	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	00080	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	00090	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	000A0	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	000B0	Storage error	It's caused by the faulty operation during the production.	Send your motorcycle to the nearest dealer to repair.	
26	000E0	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	000F0	Level 4 over current error			
28	00100	Setting error	It's caused by the faulty operation during the production.	Send your motorcycle to the nearest dealer to repair.	
29	00300	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	00400	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	00500	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	00600	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	00700	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	00800	Low battery protection	When the battery is low, the low battery protection will run automatically.	Charge the battery immediately.	
35	00900	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	00A00	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	00B00	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	00C00	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	00D00	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	00E00	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	00F00	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	01000	Current sensor error	Current sensor failure causes the error.	Send the motorcycle to the nearest dealer for service.	

Malfunction Inspection and Troubleshooting

43	02000	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	03000	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	04000	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.

Warranty

Warranty Description

Dear customer:

For your rights and interests, please keep this owner’s manual properly. Please inspect and test the 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 motorcycle, you are entitled to get the after-sale service accord to the warranty policy from the dealer, where you ordered the 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.

Maintaining Your Motorcycle

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.

Scheduled Maintenance
To prolong the lifetime of your 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.

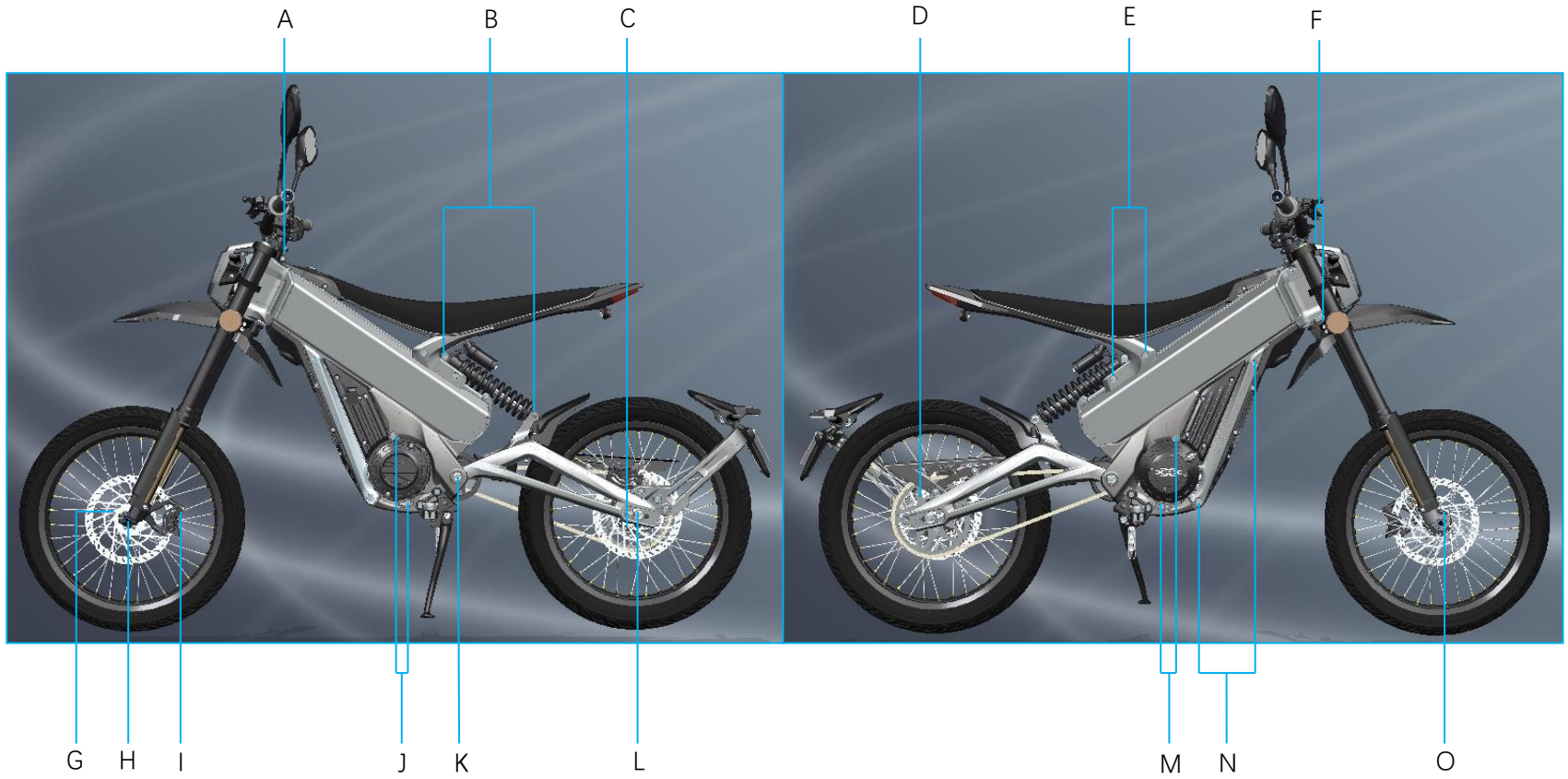
Any issues found through the inspection should be eliminated before you ride the motorcycle. If it is difficult to solve it by yourself, please send the motorcycle to the nearest dealer for service.

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.

Maintaining Your Motorcycle

Components Fasteners

Please follow the fasteners torque table to do regular inspection and maintenance for components fasteners.



Maintaining Your Motorcycle

Item	Description	Torque（ Nm）	Standard
A	Handlebar fixing bolt	10	M6×40
B	Rear shock absorber fixing bolt	28-32	M8×55
C	Rear brake disc fixing bolt	10	M6×12
D	48T sprocket fixing bolt	28-32	M8×20
E	Seat bolt fixing bolt	28-32	M8×25
F	Front fork fixing bolt	10	M6×20
G	Front brake disc fixing bolt	10	M5×12
H	Front wheel axle	15	M14×1.5×173
I	Brake clipper fixing bolt	10	M6×40
J	Motor left side fixing bolt	28-32	M8×30
K	Rear fork axle	45-55	M10×1×220
L	Rear wheel axle	50-60	M12×1.25×203
M	Motor right side fixing bolt	28-32	M8×20
N	Controller fixing bolt	28-32	M8×25
O	Front wheel axle set bolt	10	M6×20

Maintaining Your Motorcycle

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, 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.

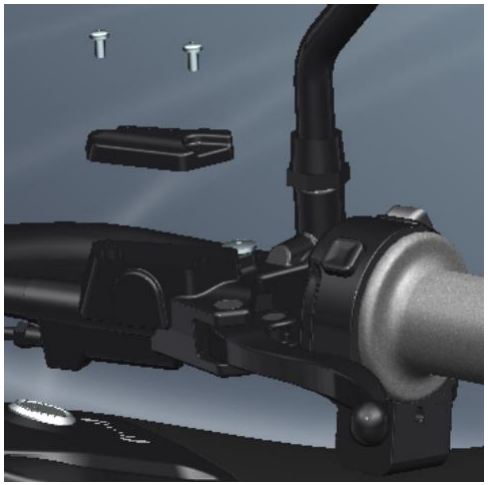
Battery Inspection:
The motorcycle equipped with a sealed lithium-ion battery. Fully charge the battery before inspection, and then use a multimeter to measure the voltage for cathode and anode. The full voltage should be between 65.5–67.2. Otherwise, please send the motorcycle to the nearest dealer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

Maintaining Your Motorcycle

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.

Inspection For Brake Oil Level

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



Remarks: Before inspecting the brake oil level, the motorcycle should remain upright.

1. Remove the two M3 screws from the brake oil container cover (As the right picture shows).
2. Add the specified mineral oil (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 oil on the paint surface; otherwise, it may cause cracks on the surface of the paint parts.

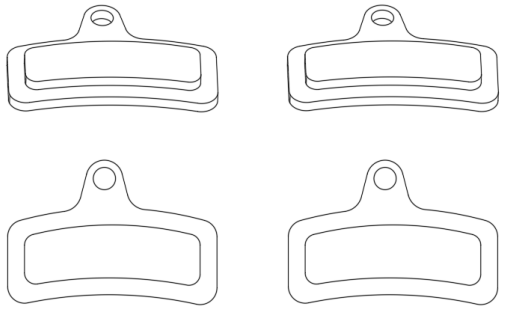
Before removing the brake oil container cover, be sure to place a clean rag under the brake oil container.

Low brake oil level, may be caused by 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 oil for disc brake. Do not use other kinds of brake oil. Fixing the brake oil container cover and tighten the M3 screws. The tighten torque is 1.5N.m.

Maintaining Your 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 brake pads is less than 3 mm.

Inspection for brake disc

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

WARNING! When use new brake discs or new brake pads, at first, it should be lightly squeeze and hold the brake for so as to generate appropriate braking friction.

Maintaining Your 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 inspected and adjusted to the proper tire pressure levels before each ride. Tire pressure should be inspected by using an accurate barometer when the tire is in normal temperature status. 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 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 spin 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. Power off the motorcycle before you clean the driving chain.
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 by using the brush.
4. Do this for the entire length of the chain. Now do the same thing for the inside/bottom of the chain.

Maintaining Your Motorcycle

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 spin the wheel. Turn the wheel only by hand. Failure to do so could result in serious injury or death.

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 or death.

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 discs/brake pads.

1. Turn the wheel backwards slowly and spray the lubricant on the inside of the chain links.

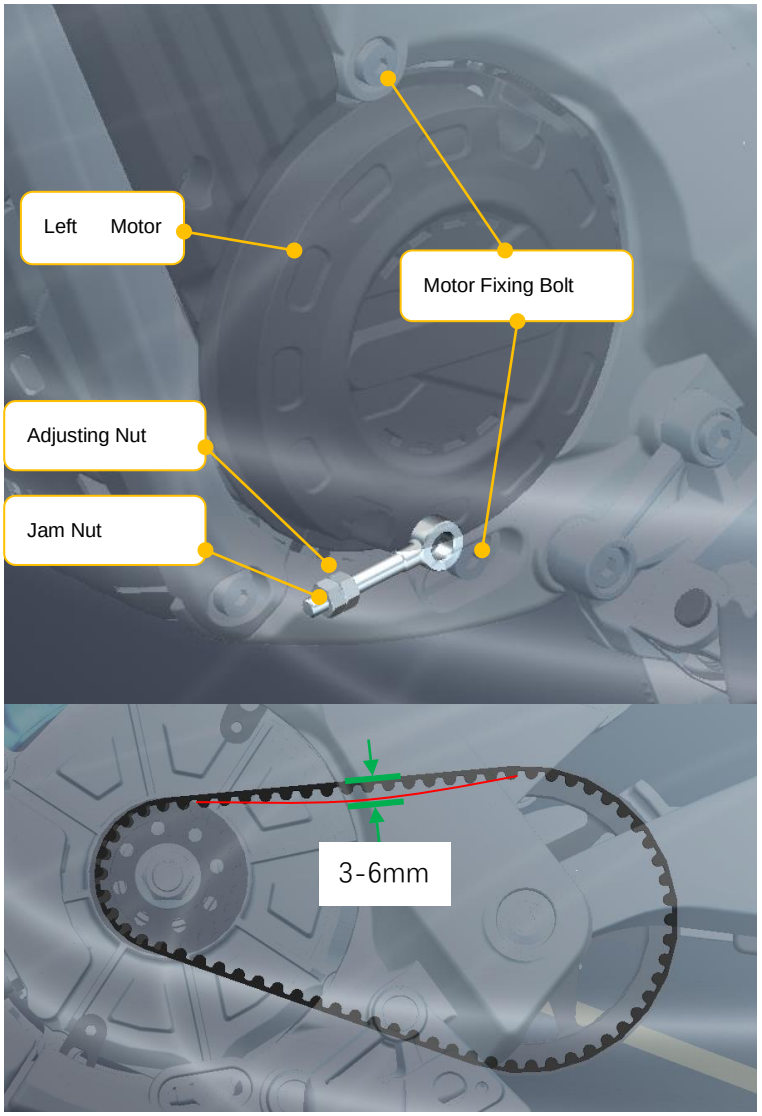
2. Turn the wheel backwards slowly and spray the lubricant on the outside of the chain links.

3. Let the electric motorcycle stand for 30 minutes to allow the lubricant to penetrate the links.

Maintaining Your Motorcycle

Belt Adjustment

1. Power off the motorcycle, place the motorcycle on the stand.
2. Disassemble the left side motor cover, and inspect the whether the belt moves 3-6mm as a free play.
3. Loosen the motor fixing bolts in both left and right sides.
4. Loosen the jam nut.
5. Rotate the adjusting nut, until the belt moves 3-6mm as a free play.
6. Tighten the motor fixing bolts in both left and right sides.
7. Tighten the jam nut.
8. Ride the motorcycle slowly to test whether the belt tension adjustment is well done.
9. After the test riding, please check whether the belt's tension is fine? If it's necessary, adjust the tension of the belt again.



Caution: Please make sure the belt positioned in the middle of both front and rear pulleys. Otherwise, the belt is easy to get friction with the edge of the pulley, and this will lead to odd noise, belt abnormal wear or damage.

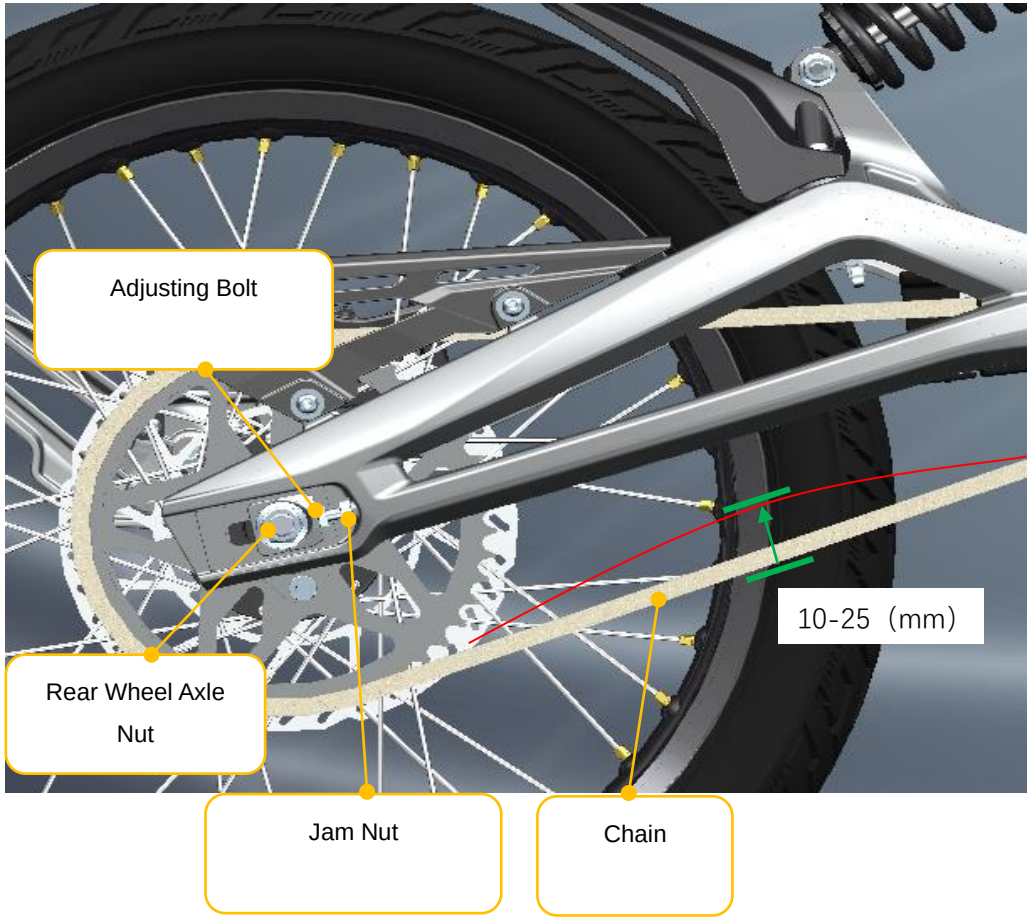
Please make sure the belt's tension is in the right setting. The belt's free play move should be within 3-6mm. Otherwise, the tension of belt will be tight or loose, and this will lead to odd noise, belt abnormal wear or damage.

Maintaining Your Motorcycle

Driving Chain Tension Adjustment

1. Power off the motorcycle and place it on the stand.
2. Then, loosen the rear wheel axle nut on the right side.
3. Loosen the jam nuts on both left and right sides.
4. Loosen the rotate adjusting bolts on both left and right sides 1/4 turn at a time until the chain moves 10-25mm as a free play.
5. Tighten the rear wheel axle nut on the right side.
6. Tighten the jam nuts on both left and right sides.
7. Ride the motorcycle slowly to test whether the driving chain tension adjustment is well done.
8. After the test riding, please check whether the drive chain's tension is fine? If it's necessary, adjust the tension of driving chain again.

Remarks: After the adjustment, the marks on the left and right tensioners must align with the tik mark on the rear fork.



Maintenance Record

Scheduled Maintenance

The required maintenance schedule that follows, specifies how often you should have your Talaria xXx Motorcycle serviced and what items need attention. It is essential to have your Talaria xXx 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 xXx 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 xXx 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 54. 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.		√	√	√	√	√	√
Belt	Check belt tension. See page 56. 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 Card

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

Customer Information Card

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