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USER INSTRUCTIONS

Welcome to the family of VMOTO owners! We will guide you to know every function for the right and safe use of TC smart electric bikes. To ensure your safety, please read this manual carefully before riding and make sure you are always following the requirements TC below:

- Fully understand the information in this manual, include but not limited to the relevant instructions, precautions and warnings.
- Fully understand the operation and contingency measures of TC smart electric motorcycle
- Be fully aware of warning labels of TC smart electric bikes.
- DON'T disassemble Vehicle or any parts, if need replacement, please contact local dealer.

Please contact the VMOTO Customer Service Center if you have any questions!
Wish you safe and pleasant riding experience!

Safety Instructions

To ensure the safety of you and others, please make sure to observe the following matters:

- Do not ride after you take medications which may affect your riding ability, drink alcohol, or when you are unwell.
- Observe traffic regulations and traffic signs and confirm the surrounding road conditions and bike conditions at any time, so as to actively avoid danger.
- Wear safety equipment, such as helmet, and appropriate protective clothing if necessary, such as gloves and boots.
- Perform a basic check each time before riding, so as to confirm the light, brake, tread and tire pressure and check other parts for looseness or abnormal noise, and regularly go to VMOTO Service Center for maintenance.
- In order to ensure the safety of you and others, please DO NOT use high beam in good lighting conditions. The continuous use of high beam will cause the visual disturbance to vehicles and pedestrians on the opposite side, thus affecting normal driving.

QUICK START

CHECK LIST



× **2**
REMOTE CONTROLS



× **2**
KEYS



× **1**
LEFT MIRROR



× **1**
RIGHT MIRROR



× **1**
CHARGER



× **1**
USER MANUAL

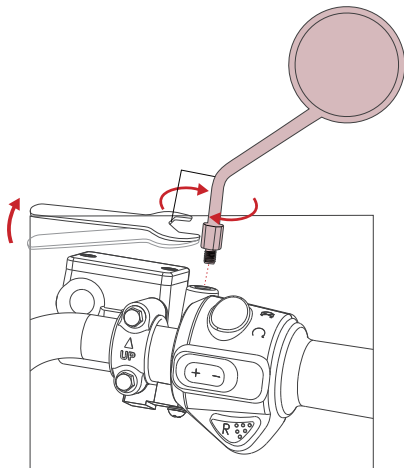


× **1**
INNER HEXAGON
SPANNER



× **1**
SPANNER FOR
MIRRORS

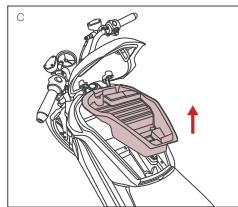
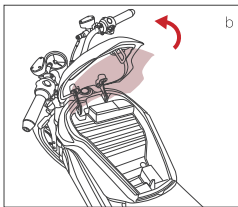
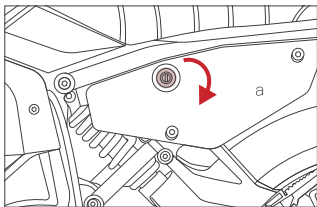
ASSEMBLE MIRRORS



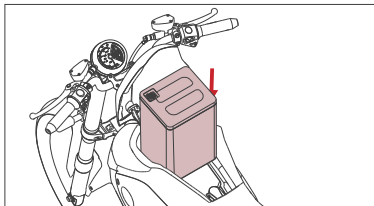
QUICK START

INSTALL BATTERY PACK

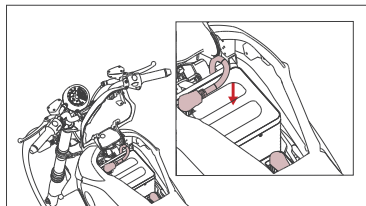
- ① OPEN STORAGE, TAKE OUT COVER.



- ② PUT BATTERY PACK IN.



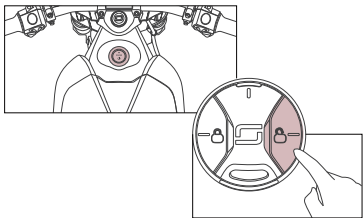
- ③ CONNECT POWER.



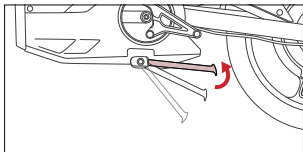
QUICK START

IGNITE MOTORCYCLE

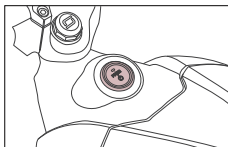
- 1 Press 'UNLOCK' on remote control, "POWER" button on.



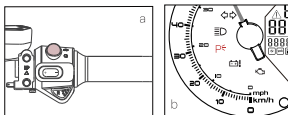
- 2 Put helmet on, get on to, kick side stand out.



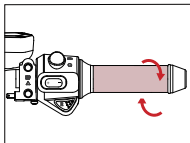
- 3 Press "POWER", power on.



- 4 Press "PARKING" button, release motorcycle, parking symbol off.

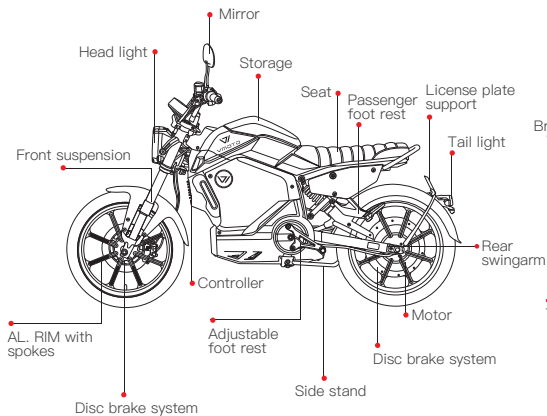


- 5 Turn on accelerator, motorcycle move.

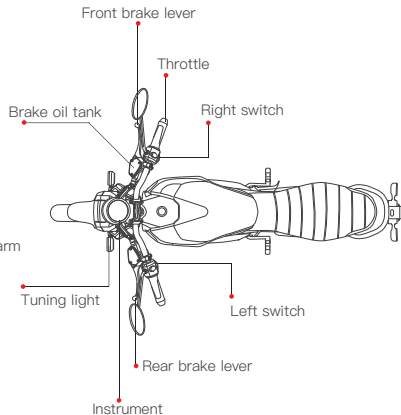


VEHICLE & PARTS

PARTS INSTRUCTION



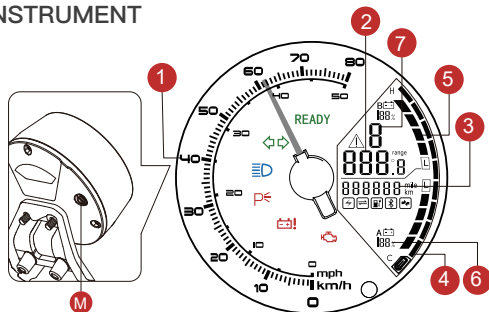
SIDE VIEW



TOP VIEW

VEHICLE & PARTS

INSTRUMENT



M BUTTON FUNCTIONS

Change Indications ----- Range/Temperature

In normal mode, Press it less than 2 seconds, change indications, and keep the status.

Manually start the back light of Instrument (Back light for Letters + LCD back light)

In normal mode, Press it longer than 2 seconds but shorter than 8 seconds, start the back light for instrument and head light.

Change between KM/Mile and KM/P & MPH

In normal mode, press it longer than 8 seconds, then release.

- 1 Speed Indication
Show current speed
- 2 Range/Temperature
Indicate current trip range or temperature. Can switch.
- 3 Total Range
Indicate total range.

- 4 Controller Temperature
Indicate real-time temperature of controller
- 5 SOC in Bars
Indicate real-time battery capacity
- 6 SOC in %
Indicate real-time battery capacity
- 7 Mode
Indicate real-time riding model

⚠ Errors

🔌 Charging

📶 Data Connecting

🚦 HIGH BEAM ON

Ⓟ MOTORCYCLE IN PARKING POSITION

↔️ TURNING LIGHT ON

🔋 BATTERY ERROR

🔧 OBD INDICATE LIGHT

READY MOTORCYCLE IS READY TO RIDE

1 :ECO Mode

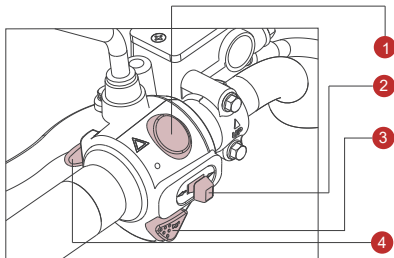
2 :NORMAL Mode

3 :SPORT Mode

⚠ Indication of Error
Code Details in
Error List.

OPERATION GUIDE

LEFT SWITCH



① Hazard indicator light button

Hazard indicator light, When switch to  open, switch to  off.

② Winker button

Dial to the left side to turn on the left winker ;
Dial to the right side to turn on the right winker.

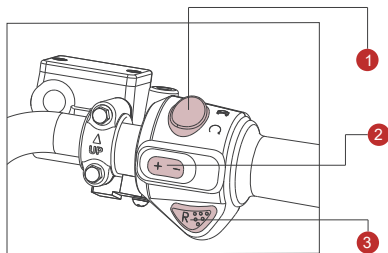
③ Horn button

Press to make a sound and release to stop.

④ High/low beam switch button

Press to switch High/Low beam.

RIGHT SWITCH



① Parking button

Parking button has two modes: switch  to park; switch  to exit the parking status.

② Gear shift button

The bike has three modes, press + up gear, press - down gear.

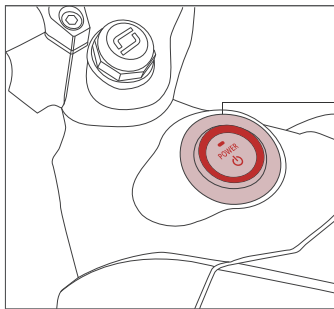
③ Reverse button

When reverse, need to keep pressing the button and turn the throttle to realize the reversing function.

OPERATION GUIDE

POWER

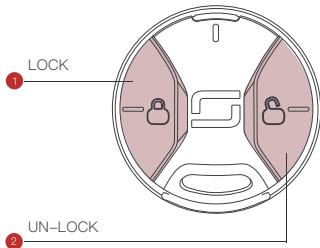
After unlocking the motorcycle via remote control, press the “POWER”, motorcycle power on, press again, power off.



- 1 “POWER” flash, locked status.
- 2 “POWER” continuously on, stand-by status
- 3 Red circle continuously on, motorcycle ready to ride.

REMOTE CONTROL

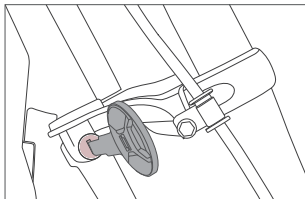
Intelligent remote control, within 20 meter radius, press the button, can lock or unlock your TC.



- 1 LOCK, when motorcycle in standing position, press “LOCK”, “POWER” flash, motorcycle locked.
- 2 UNLOCK, press unlock, “POWER” continuously on, motorcycle unlocked.

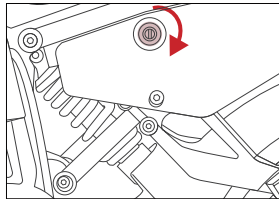
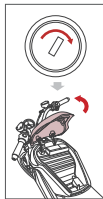
OPERATION GUIDE

HANDLEBAR LOCK



- 1 Motorcycle in parking position, turn handlebar to the extreme left position, put key in handlebar lock, and turn the key to right, motorcycle handlebar locked.
- 2 Put the key in handlebar lock, and turn the key to left, handlebar unlocked.

STORAGE & SEAT



- 1 Put key in, turn key to right, when hear sound "click", storage open.
- 2 Put key in, turn key to left, seat open, under seat, there is tools with motorcycle.

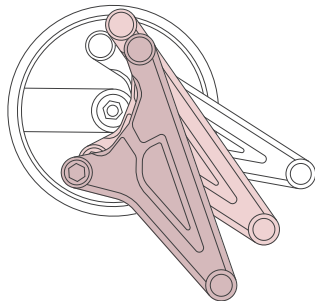
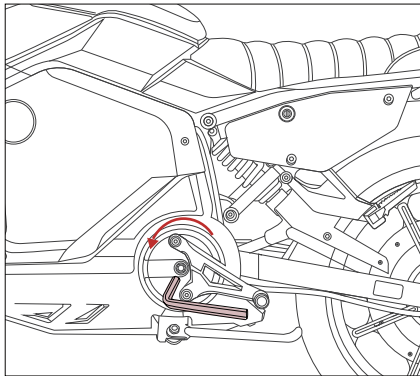


OPERATION GUIDE

ADJUSTABLE FOOT REST

Unique adjustable foot rest, offer 3 riding positions, adjustable according to rider's request.

- 1 Open seat, take out the inner hexagon spanner.
- 2 Lose the bolt under the foot rest.
- 3 Adjust the foot rest to suitable position, then fix the bolt.



OPERATION GUID

CHECK LIST BEFORE RIDING

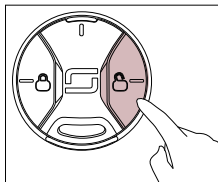
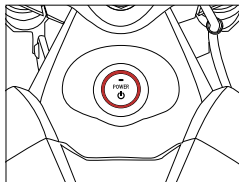
Make sure to check the following items before riding a TC

- Whether the handlebar is stable and flexible when turning.
- Whether the switches on the right and left handlebars can work correct.
- Whether the throttle work correct.
- Make sure the tyre pressure is ok. The suggested tire pressure is 200Kpa for front wheel, 200Kpa for rear with rider only, 225Kpa for rear when 1 rider with 1 passenger.
- Check tyre surface, make sure no cracks, damage, and foreign matter puncture or attachment.
- Whether the tread depth is sufficient (>0.8 mm).
- Whether any error warning light on the instrument with power on.
- Whether the battery capacity is sufficient for your trip.
- Whether all light work correct.
- Whether the horn work correct.
- Whether the mirrors are clean. Adjust them to the appropriate angle.
- Whether the brake oil is sufficient, whether the brake lever and brake system work correct.
- For any questions, please contact VMOTO Customer Service Center.

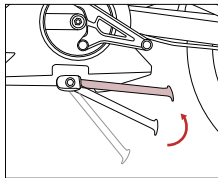
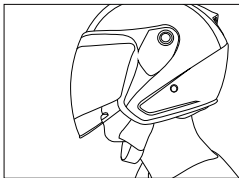
RIDING GUIDE

POWER ON

- ① Press “UNLOCK” on remote control, “POWER” continuously on.

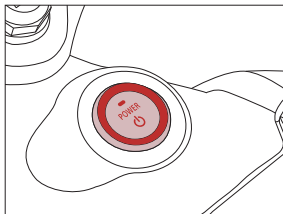


- ② Put on helmet, riding TC, kick out side stand.

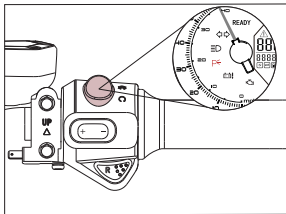


RIDING GUIDE

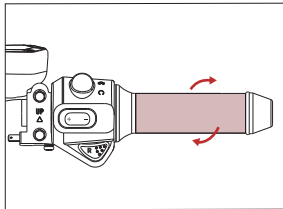
- ③ Press “POWER”, power on.



- ④ Press “PARKING”, parking light off, free motorcycle from parking.



- ⑤ Turn throttle, motorcycle run.



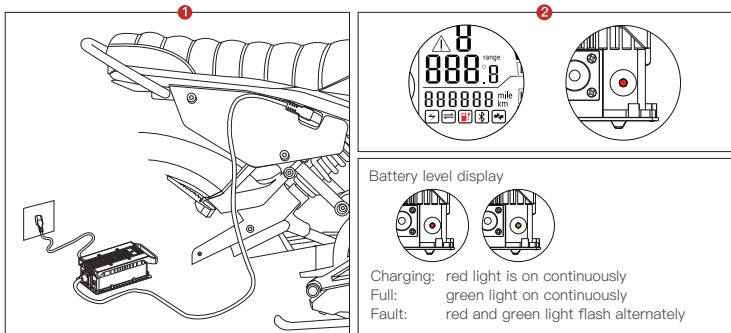
★ TIPS:

⚠ Before riding, making sure side stand is kicked out, handlebar is unlocked.

- DON'T press “PARKING” during riding, in case any dangerous due to power off in parking status.
- DON'T put side stand at standing position, in case any dangerous due to power off in standing position.
- Motorcycle can power on in steady standing position. In case any unusual situation, please move to side road, in case any dangerous.

BATTERY USE INSTRUCTION

01 Charging on-board

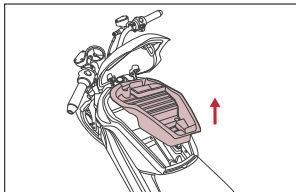
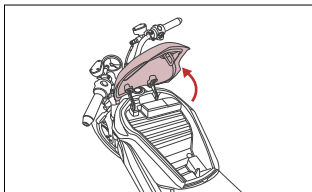


- 1 Insert the main charger plug into the charging port of the vehicle.
- 2 Insert the chargers AC power plug into the socket, and the battery starts charging when the charger indicator turns red.
- 3 The battery is fully charged if the charger indicator turns from red to green.

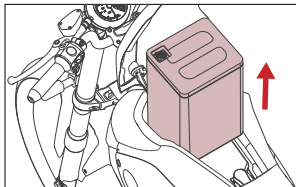
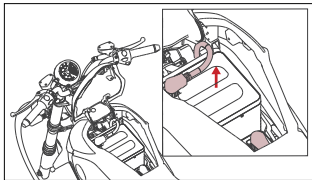
BATTERY USE INSTRUCTION

02 External charging

- ① Open the cover of storage case and take out the storage case.



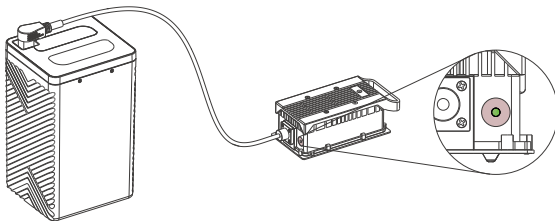
- ② Disconnect the power connector.



- ③ Insert the charger's AC power plug into the socket, and the battery starts charging when the charger indicator turns red.

BATTERY USE INSTRUCTION

- 4 After fully charged, all lights turn into green.



★ TIPS:

▲ Keep battery pack away from water;

- Charging temperature: 0 – 40°C, discharging temperature: -15 – 45 °C;
- Charging battery pack after using, if don't use the motorcycle for long time, must take out battery pack out motorcycle;
- Forbidden to connect battery pack input and output;

▲ Forbidden to connect battery pack input and output;

- Forbidden strong impact and press on battery pack;
- Must use appointed charger, forbidden to use any other charger to charge battery pack;
- Before delivery, battery pack already passed quality checking, forbidden to open it;
- In case any questions, contact local dealer.

Storage、maintenance、transport

- In case long time no use battery, please charge it till half (in case battery capacity was 0% before charging, charging f3 hours). Store in dry ventilated place, charge 2 hours each 2 months.
- Battery pack and charger need to be stored in clean, dry ventilated place, avoid connect with corrosive material, stay away from heating point.
- Battery storage condition: temperature :0 – 25 °C, humidity ≤ 65%RH.
- Disconnect the charger and battery when storing them.

MAINTENANCE

Regular maintenance can enhance the service life and driving safety of TC. Please refer to the following suggestions and take care of your motorcycle.

ROUTINE CLEANING AND MAINTENANCE

- Cleaning: Please use clean water and neutral detergent to clean it, and use soft cloths and sponges to clean the surface; it is prohibited to use metal brushes, sandpaper or the like to clean it, in order not to scratch the parts surface. After cleaning, dry it with soft cloths.

TIPS:

- Please disconnect the kill switch before cleaning.
 - Do not use strong water jet to directly wash it, so as to avoid the default of mechanical parts caused by water invasion.
 - Storage: try to park it in a dry and ventilated space to reduce the exposure to sun and rain, avoid rusty of parts.
 - In case don't use for long time, please turn off kill switch and disconnect the power supply, prevent over discharging.
 - After long-term storage, please fully charge it before use.
-

REGULAR INSPECTION AND MAINTENANCE

- The new motorcycle must do the first inspection and maintenance in the VMOTO Service Center when it reaches 1,000 km or two months (whichever comes first).
- The motorcycle is recommended to do a regular inspection and maintenance in the VMOTO Service Center at every 3,000 km or six months (whichever comes first).

TIPS:

- All service and maintenance must operate by VMOTO Service Center, use parts from manufacturer.
- In case rider failed service and maintenance the motorcycle as requested, VMOTO reserve rights refuse the warranty claims, if any.
- In case rider open the vehicle without authorization, or using parts not from manufacturer, VMOTO reserve rights refuse the warranty claims, if any.

FAQ & TROUBLE SHOOTING

Regular maintenance can enhance the service life and driving safety of TC. Please refer to the following suggestions and take care of your motorcycle.

DAILY CLEAN AND MAINTENANCE

Error	Causes	Solutions
No power, "POWER" not on	1.Battery is poorly connected 2.Kill switch is not turned on	1.Connect the power cable appropriately 2.Turn on the kill switch
Power on, turning throttle, motor not work	1.Low battery 2.Side stand is on 3.At parking mode 4.Brake handle does not reach the right position 5.Throttle error 6.The controller plug is loose 7.Controller error	1.Charge the battery 2.Side stand off 3.Press parking button 4.Place the brake handle at the right position 5.Change throttle 6.Re-plug controller 7.Change controller
Speed is slow or mileage is short	1.Low battery 2.Flat Tyre 3.Heavily overloaded 4.Brake pads need to be replaced 5.Battery aging or normal scrap	1.Charge the battery 2.Pump up the tyres, check tyre pressure before riding 3.Foster a good habit, keep an appropriate load 4.Change the brake pads and check the brake system before riding 5.Change battery
Battery cannot be charged	1.Poor contact of charger plug 2.Used wrong charger 3.Battery aging or normal scrap	1.Check whether the plug is at right position 2.Use VMOTO charger 3.Change battery

Failure	Causes	Solutions
Error 99 on Instrument	Controller communication error	Please contact after-sales service or dealer
Error 98 on Instrument	Controller pauses operation (possibly over current, blocking, under voltage, over temperature)	Please stop for a while and then start again
Error 97 on Instrument	Controller power tube error	Please contact after-sales service or dealer
Error 96 on Instrument	Controller Hall sensor error	Please contact after-sales service or dealer
Error 95 on Instrument	Controller throttle error	Please check if battery connector at right position, contact after-sales service or dealer
Error 94 on Instrument	Battery communication error	Please check if battery connector at right position, contact after-sales service or dealer
Error 93 on Instrument	Charging, over current	Stop charging, check the charger
Error 92 on Instrument	Charging, over voltage	Stop charging, check the charger
Error 91 on Instrument	Battery at high temperature	Stop charging, stop riding
Error 90 on Instrument	Discharge, over current	Stop riding
Error 89 on Instrument	Low temperature charge	Park indoor or in a warm place, wait for a moment
Error 88 on Instrument	Low temperature discharge	Park indoor or in a warm place, wait for a moment
Error 87 on Instrument	Internet connection error	Go to an open area, contact after-sales service or dealer
Error 86 on Instrument	GPS connection error	Go to an open area, contact after-sales service or dealer

CHECK LIST	300KM 0.5month	3000KM 6months	6000KM 12months	9000KM 18months	12000KM 24months	15000KM 30months	18000KM 36months	21000KM 42months	24000KM 48months	Torque (N·m)
Brake fluid"	☐		☐							
Tire pressure and wear"	☐	☐	☐	☐		☐		☐		"FR 175 KPa RR 225 KPa"
Front and rear lining pad wear"		☐	☐	☐		☐		☐		
Front and rear brake disc wear"			☐							
Fasten front axle nut and rear wheel bolt"	☐		☐							59
Fasten the swingarm nut"	☐		☐							59
The motor and the motor retainer bolt fastening nut"	☐		☐							80
Fasten Front and rear shock bolt fastening"	☐		☐							F.Upper 22/ F.Lower 32/R45
Steering column locking nut"										74
Fasten front caliper bracket (coated glue thread)"	☐		☐							26
Fasten front brake disc (coated glue thread)"	☐		☐							42
Fasten rear caliper bracket (coated glue thread)"	☐		☐							26
Fasten rear brake disc (coated glue thread)"	☐		☐							42
Battery"	☐	☐	☐	☐		☐		☐		

Note: Check the lithium battery balance by BMS reading and manual measurement.

APP INSTRUCTION

TC smart electric vehicle has GPRS communications, GPS locate and other functions which can be connect to your smart phone. You can manage your vehicle, query and do other operations by VMOTO APP



Download APP



Bind APP

PASTE
BARCODE

Only iOS and Android are currently available now, please confirm your smart phone operating system in advance.

iOS system:APP only supports Apple iOS 9.0 system and above.

Android system: APP only supports Android 4.4 system and above.

The functions of VMOTO Electric Vehicle APP may vary with version updates, function upgrades and different vehicle types. Please refer to the actual content of the latest version.

MAINTENANCE RECORD:

Content:

Date:

MAINTENANCE RECORD:

Content:

Date:

MAINTENANCE RECORD:

Content:

Date:

MAINTENANCE RECORD:

Content:

Date:

Follow us



HAPPINESS IS A JOURNEY

USER MANUAL

TTC

MAINTENANCE RECORD:

Content:

Date:

MAINTENANCE RECORD:

Content:

Date: