MQiGT

V1.0

USER MANUAL

Attach the
SN Code here

The SN Code of your scooter.
Please see P.4 for detailed information.

CONTENTS

General Notice 01
Precautions 02
Safety Notice 03
Downloading the APP 04
Installation Guide 05
Parts Info 06
Operation Guide 10
Battery Use and Maintenance 17
DOs and DON'Ts while Riding 23
Maintenance and Repair 25
Troubleshooting List 29
Technical Parameters 36
Maintenance Record 39

General Notice

- Please read this User Manual carefully for proper operation before riding the scooter.
- For your safety, please check whether the parts are in good condition according to this User Manual before riding. Contact your dealer in time in case of any problems.
- Please follow the traffic laws. Slow down on slippery roads in bad weather to allow greater braking distance for your safety.
- Please pay attention to deep water. It may cause rusting or failure of the motor, battery or other parts if water level reaches wheel axle.
- Do not dismantle the scooter on your own. Please contact your dealer for replacement or purchase of original parts.
- Do not lend your MQi GT to those who can't operate a scooter for others' safety and preventing unnecessary damage to your scooter.
- Please keep the User Manual properly.
- For more product information or maintenance need, please visit our website: www.niu.com/en

Precautions

- Rider and Passenger
  MQi GT is not designed for a ride of more than 2 persons.
- Road Conditions
  MQi GT is not designed for off-road use.
- This User Manual should be deemed as a permanent document of MQi GT. If this scooter is transferred to others, this User Manual should also be handed over to the new owner.
- Reproduction or reprint of any part of this User Manual is strictly prohibited.

⚠ **WARNING:** Failure to follow the instructions herein may lead to serious casualties.

⚠ **ATTENTION:** Failure to follow the instructions herein may lead to personal injury or scooter damage.

Safety Notice

- Using a safety helmet and protective goggles is strongly advised.
- You are advised to take proper training or exercise before using on open roads.
- Please follow the Operation Guide (P.10) to fully understand how to properly operate the scooter.
- It should be noted that the braking distance in bad weather will be much longer. Please avoid braking on paint markers, manhole covers, and oil stains to prevent slipping. Pay extra attention when riding through railway crossings, junctions, tunnels, and bridges. Slow down if road conditions are unclear.
- Do not use high beam indiscriminately. Continuous use of high beam may disturb the vision of other drivers and pedestrians.
- Do not use mobile phones or other electronic devices which may draw your attention while riding.
- Do not change the lane without signaling. Changing the lane at will is one of the major causes for accidents. When you need to change the lane, remember to switch on the Turn Signal Indicator first. Always check the vehicles approaching from behind before changing the lane.

Downloading the APP

Functions such as checking battery level, locating, and management can be implemented on the electric scooter through the app.

Step 1 Scan the QR code below to download the APP titled Niu E-Scooter.

Step 2 Run Setup after downloading and register.

Step 3 Please scan the QR code on the inside of cover page for app registration.

NOTE:

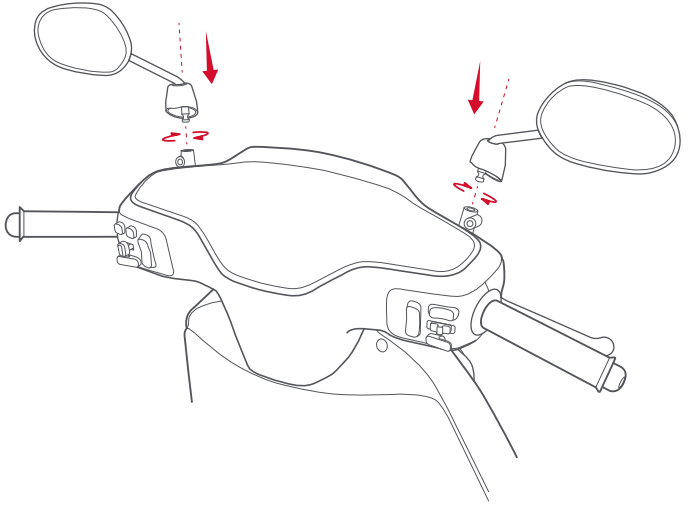
The mobile phone system is required to be at least Android 4.0 or iOS 8. Make sure that the mobile phone has been connected to the Internet when running the app (Wi-Fi / 2G / 3G / 4G).

Installation Guide

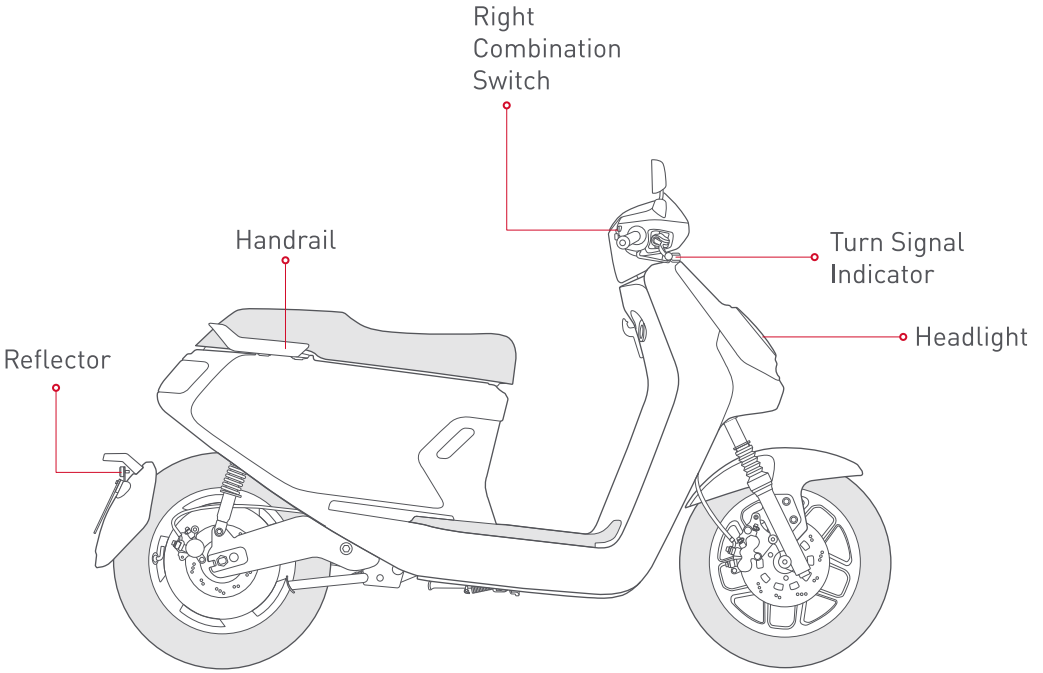
Step 1 Open the Accessories Box to take the tools.

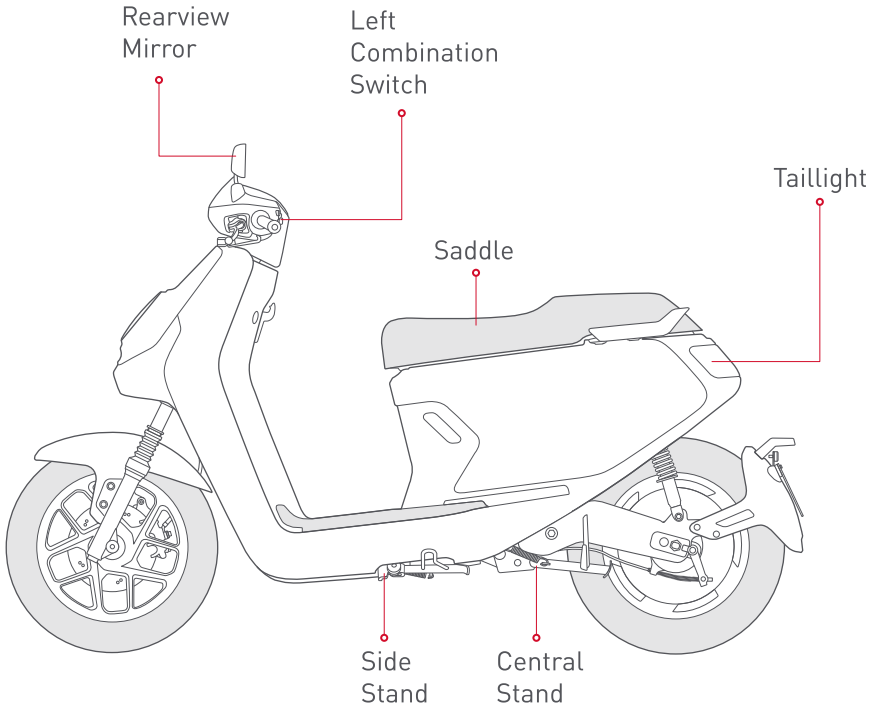
Step 2 Install the rearview mirrors into the mounting holes on dashboard and turn it clockwise. The bolt shall be screwed in for more than 15 mm.

Step 3 Adjust the rearview mirror to an appropriate position and then tighten nuts on the rearview mirror with a spanner. Properly set the dust cover.

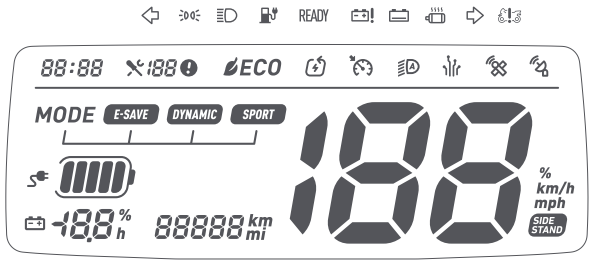


Parts Info





Dashboards and Combination Switches



	Left Turn Signal Indicator		Motor and FOC overheated
	Right Turn Signal Indicator		System Failure
	Outline Marker Light	88:88	24 Hour Clock
	High Beam Light		Health Score Displayed when the scooter is in poor condition
	Charging	188	Error Code[1] Displayed when the scooter system reports an error
READY	Parking Indicator	ECO	Eco Mode Close to the optimal energy output power ratio
	Battery Failure		Energy Recovery Lights up when in Energy Recovery mode
	Low Battery Indicator Battery level less than 10%		Lights up when in Cruising Mode

Lights up when automatic headlight is enabled

Cloud Service Connection
Displayed when smart data is connected

GPS Signal[2]

Cellular Network Signal[2]

Lights up when in "on-board charging mode"

Speed
[When charging] Displays the real-time battery level

Real-time Battery Level
Displays the remaining charging time when charging

Total Mileage

Side Stand Indicator

MODE E-SAVE DYNAMIC SPORT

Riding Mode

Eco Mode Dynamic Mode Sport Mode

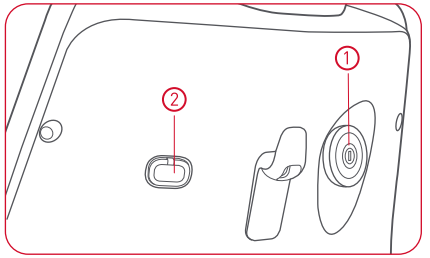
Real-time Battery Level

When between 1%~20%, the leftmost bar will light up;
When between 21%~40%, the second bar will also light up;
When between 81%~100%, all bars will light up.

[1] The parking indicator will flash when an error code is given.

[2] The light-colored part indicates flashing. No Signal Weak Signal Strong Signal.

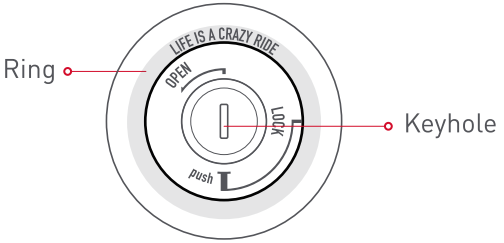
Operation Guide



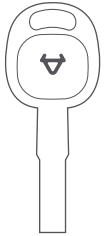
Front Storage Area

① Keyhole

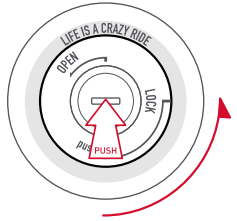
② USB Port



Anti-theft Lock



Key



Locking the anti-theft lock

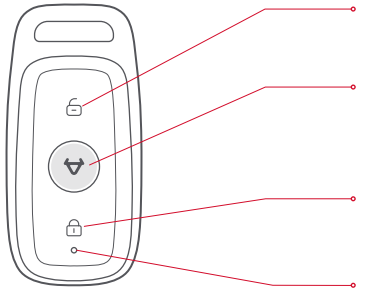
Turn the handlebar all the way to the left, then press down and turn the key counterclockwise to the “LOCK” position.

Saddle Lock

Opening the saddle

Insert the key and turn counterclockwise to the “OPEN” position, you will hear a “snap” when the saddle is opened.

How to use the Remote Control



Unlock Button

Press the button to disarm the alarm.

Start Button

The scooter will be powered on when the Start button is pressed.

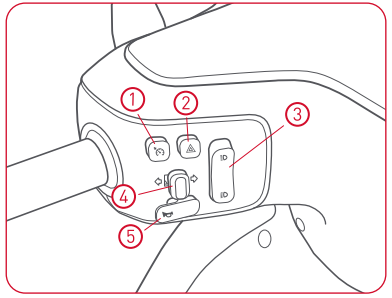
Lock Button

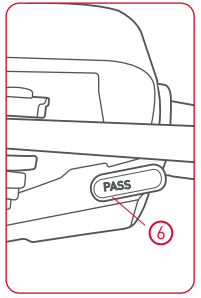
Press the Lock button to lock the scooter after riding.

Indicator Light

This will light up when any key of the remote control is pressed, indicating that the remote control is working normally.

⚠ **ATTENTION:** Make sure that the battery is correctly installed in the scooter before using the remote control, and that the straight distance between the remote control and the scooter is less than 50 m.



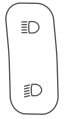


Left-hand Combination Switch

1. Cruising Mode
2. Hazard Light (flashing lights)
3. High/Low Beam
4. Turn Signal Indicator
5. Horn
6. Overtaking Light Button

Cruising Mode

Press the button to cruise at current speed.
Press again or brake to turn Cruising Mode off.



High/Low Beam

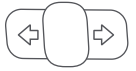
Push the button up to turn on the high beam;
push the button down to turn on the low beam.

Horn

Press the horn button to sound the horn, and release it to stop.

Hazard Light (flashing lights)

Both the left and right turn signal indicators will flash when the Hazard LIght button is pressed.

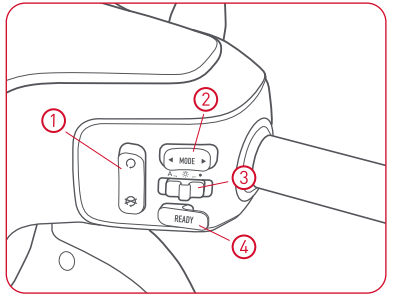


Turn Signal Indicator

Push the button left to turn on the left turn signal indicator;
Push the button right to turn on the right turn signal indicator.

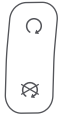
Overtaking Light Button

To signal overtaking with flashing light, the rider may press and release the Overtaking Light Button repeatedly.



Right-hand Combination Switch

1. Safety Switch
2. Riding Mode
3. Scooter Light Adjustment
4. Start Button



Safety Switch

Push the bottom button to cut off the power system.
If you press the button while riding, the scooter will start to coast (power will be cut off);
Push the top button to restore power and ride normally.

Riding Mode

Press the left/right button to switch between riding modes.

Scooter Light Adjustment:

Push the button to the right to turn off all scooter lights;
Push the button to the middle to turn on the outline marker light and the license plate light;
Push the button to the left to turn on the headlamp.

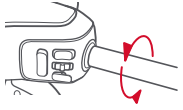
Start Button

Press the Start button and the scooter will be ready to go.

Follow this simple four-step procedure to enjoy a smooth ride.

Step 1 Press the Locating button on the remote control.

Step 2 Fold away the side stand/central stand and make sure the safety switch is powered on. Press the Start button on the right-hand combination switch and the "READY" indicator on the dashboard will light up.



Step 3 Turn the throttle handle gently with your right hand to enjoy your first ride.

Check the scooter parts before riding. If there is any abnormality, repair it or seek profession repair service.

- Check the conditions of the power circuits, lighting circuits, etc;
- Check whether the front and rear brakes are working properly;
- Check the firmness of the steering handlebar and the front and rear wheels;
- Check tire pressure;
- Check the reflector for damage and make sure it is clean.

Locking the scooter

Turn the key to to turn off the scooter. Turn the steering handlebar to the left, then push the key inward and turn to **LOCK** to lock Steering Handlebar. Press the Lock Button on the Remote Controller within an effective distance to turn on the Alarm. The Turn Signal Indicators will stay on for 2 seconds after the scooter is properly locked.

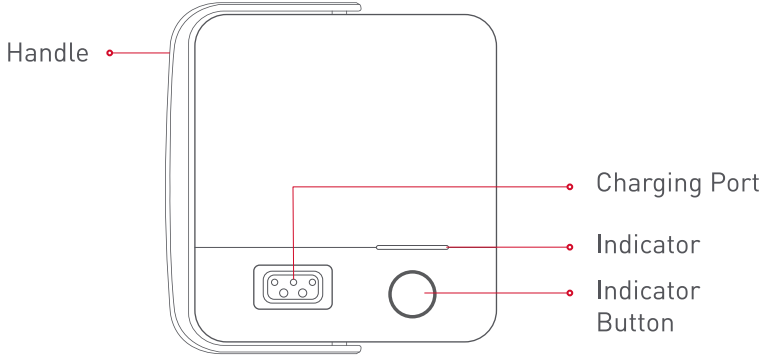
Locating

Press the Locating Button and the Turn Signal Indicators will flash for 10 seconds. If no further operation during this period, the Alarm will be on for 10 seconds. The Alarm can be cancelled by pressing the Unlock or Lock Button.

Battery Use and Maintenance

Battery Level Indicator

- When the Indicator Button is pressed, the Indicator will light up to show the percentage of the battery. The indicator has 5 sections. Each presents 20% of the battery level.
- If the battery level is less than 20%, the Indicator will flash 3 times.
- When charging, the indicator will flash to show the charging progress. They will stop flashing when the battery is fully charged.
- If all 5 sections flash, it means the battery has fault. Please contact your dealer for consultation.



Using Environment

In order to prevent possible leakage, overheat, smoking, fire or explosion, please follow these instructions:

- The battery should be used at the temperature of -10°C to 45°C.
- Do not expose to water, beverages or corrosive liquids.
- Keep away from heat source, open fire, inflammable and explosive gases and liquids.
- Please keep metal parts away from the battery compartment.

In case of undesirable odor, overheat or deformation of the battery, please disuse the battery immediately, keep away from the battery and contact your dealer.

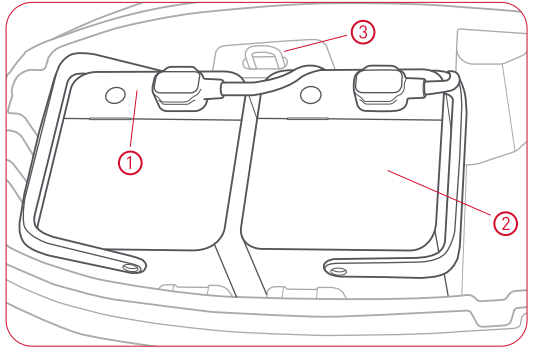
⚠ **WARNING:** The MQi GT battery is NOT a repairable part by the user. In case of battery fault, please contact your dealer. Users dismantling the battery may lead to leakage, overheat, smoking, fire or explosion. Do not attempt to open or repair the battery, as any attempt to do so will render the warranty invalid.

Charging Environment

The battery should be charged at the temperature of 0°C to 35°C. The charging time should not exceed 24 hours. Overcharging will shorten the battery life.

⚠ **ATTENTION:** Do not charge the battery below 0°C.

⚠ **WARNING:** Using non-original battery chargers may lead to leakage, overheat, smoking, fire or explosion.

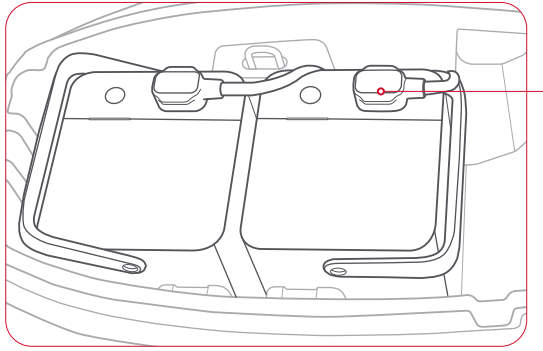


① Battery Connector/Charging Port

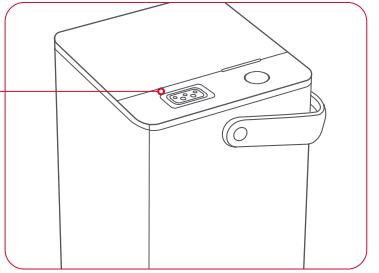
② Battery

③ Battery Lock

Charging Methods



Charging Pot



Charging on the Scooter

Open the saddle, open the cover of the connector, and plug the charger into the charging socket.

Charging the Battery

Remove the battery from the scooter. Connect the charger with battery and socket.

⚠ WARNING

- All operation should be strictly conform to the user manual. If not, result will be assumed by user.
- Must use original charger.
- Pay attention to the type of battery and applied voltage. Mixture use is forbidden.
- Charging should be in ventilated environment. DO NOT charge in closed space or under high temperature. DO NOT put charger into trunk or tail box while charging.
- While charging, connect battery with charger before connect with electric supply. After full charged, cut off the electric supply before cut off the battery plug.
- When the green light turns on, please cut off the power in time. Avoid long time connection between charger and AC power supply while not charging.
- While charging, if the signal light is abnormal, has different smell or the charger is over temperature, please stop charging immediately and check or change the charger in time.
- When using and storing the charger, please avoid foreign matter, especially water or other liquid in case of internal short circuit.
- DO NOT bring charger within scooter, if have to, please make sure of damping.
- DO NOT disassemble or change the parts in charger by yourself.

⚠ ATTENTION

- If the battery can not be fully charged after 12 hours, please stop charging and contact your dealer.
- To maximize the battery life, please keep the battery percentage within 20% to 80%.
- For storage, please keep the battery under 40°C to prevent irreversible capacity loss of the battery.
- MQi GT battery will lose more capacity in lower temperature conditions. To be more pecific, the usable capacity at -10°C is 70%, 85% at 0°C and 100% at 25°C.
- The best battery capacity performance for storage is 50%. Storing battery with less than 10% or more than 90% over a long period of time will cause irreversible capacity loss to the battery.
- The battery needs to take out from the scooter for storage longer than one week. In this condition, please keep the battery at the temperature of 0°C to 20°C with capacity of 30%-70%. It's advised to have at least one cycle of charge and discharge every 2 months to minimize battery capacity loss during storage.
- If the battery failure is due to misuse or lack of proper maintenance as instructed, its warranty will be invalidated.
- Falling may cause uncontrollable internal damage to the battery and may cause leakage, overheat, smoking, fire or explosion.

DOs and DON'Ts while Riding

Before Riding

Please check the following details before riding.

Check Point	Description
Steering Handlebar	(1) Steadiness (2) Steering flexibility (3) No axial displacement or loosening
Braking	Braking lever has 5 to 9mm idle travel.
Tyres	(1) The air pressure range of the front tyre is 25 to 34 psi (2) Proper tyre tread depth (3) No cracks or openings (4) Minimum load-capacity index: front 21, rear 40. (5) Minimum-speed category: B.
Battery	Adequate for planned distance to travel.
Lights	Check all the lights—High Beam, Low Beam, Brake Light, Turn Signal Indicator, etc.
Horn	Check whether the horn can work.

Braking Precautions

Adjust the scooter upright before applying brakes.

If the tyres are locked and the scooter loses steering ability resulting from excessive braking force, loosen the grip on the braking lever and the tyres will be working again and the scooter will be stabilized.

Try to maintain a 1:1 ratio of front and rear braking force on slippery roads.

Check the conditions of the power circuits, lighting circuits, etc;

⚠ **ATTENTION:** Inexperienced riders tend to use the rear brake only, which will accelerate the wear of the brake and result in a longer braking distance.

⚠ **WARNING:** Using the front brake or rear brake only is dangerous because of possible grip or control loss. Pay extra attention and use the brakes gently when riding on damp, slippery roads and around corners. Otherwise, riders will be exposed to great danger.

Maintenance and Repair

Users are advised to have the scooter checked and maintained on a regular basis, even for the scooters that are not used for a long time.

Regular Maintenance

Users are advised to have their scooters checked 2 months after purchased or with 500 km travelled distance. Overall check and maintenance is advised to be conducted every 6 months or 3000km thereafter.

Daily Maintenance

If any problem occurs during checks, please look through the Home Repair Instructions or send the scooter to the dealer's for checks and maintenance.

Scooter Washing

Please use neutral detergent and water to wash the scooter. Use soft cloth to wipe the scooter after washing to prevent scratching.

⚠ ATTENTION

If the scooter is frequently used in overload, high-speed, bumpy or up/downhill riding conditions, the maintenance cycle should be shortened.

For more guaranteed quality and longer service life, please use original parts, which are under normal warranty.

⚠ WARNING

If incapable of repair or adjustment on his/her own, the scooter owner is advised to send the scooter to the dealer's for maintenance and adjustment for the sake of safety.
Always choose a smooth surface road for repair and adjustment . If it's necessary to repair the scooter during a ride, please mind the traffic.

⚠ WARNING

Do not use pressure washer to wash the scooter, especially around the battery compartment. Do not flush the rear inner mudguard, where the charger, controller and other parts are installed behind. If the charging port on the scooter is wetted, please do not charge before the charger dries off. Contacting your dealer is recommended.

Storage Method

Short-term Storage

- Keep the scooter in flat, steady, well-ventilated and dry area.
- Charge the battery to 50% full before storage to maximize battery life.
- Avoid exposure under sunlight and rain to reduce damage or aging.

Long-term Storage

- Remember to have a cycle of charge and a discharge at least every 2 months and charge the battery to 50% full before storage to maximize battery life.
- Charge the battery to 100% full after long-term storage.
- Check all the parts carefully to make sure that there is no problem before riding it. If there's any problem, take the scooter to your dealer for maintenance or repair.

⚠ **WARNING:** Please take out the battery from the scooter when long-term storage.

Regular Maintenance Checklist	
Regular Safety and Performance Check	Brakes
	Lights
	Horn
	Electric Parts
	Tyres
Structural Check	Lubrication
	Wheel Bearing
	Vibration Damper
	Side Stand
	Steering Bearing
Major Parts	Battery
	Main Wiring Harness
	Control System

Troubleshooting List		
Malfunction Description	Causes	Troubleshooting
No output when switched on	1. Dead battery 2. Batery not connected 3. Alarm failure	1. Charge the battery. 2. Check if it's properly connected 3. Replace Alarm
Motor failure when turning the twist grip after switched on	1. Battery voltage is low 2. The power off switch is enabled when pulling the brake lever 3. The Parking Mode has not been turned off yet	1. Charge the battery. 2. Do not pull the brake lever when twisting the twist grip. 3. Check "Start the Scooter" section. Check if the side stand is on.
Battery charge failure	1. Not properly connected 2. Battery temperature is too high or too low	1. Check whether the plug is loosened. 2. Wait for it to achieve normal temperature.
Dropping speed or range	1. Low battery level 2. Under-inflation of tyres 3. Frequent braking and overload 4. Battery aging or normal capacity loss 5. Low battery capacity resulting from low temperature	1. Charge the battery and check if the plug is properly plugged in and whether the charger is damaged. 2. Check the tyre inflation every time. 3. Develop good riding habits. 4. Replace the battery. 5. Normal situaiton.

Troubleshooting List		
Malfunction Description	Causes	Troubleshooting
Sudden stop during a ride	Dead battery	Charge the battery.
	Identify the fault causes in reference to the meter panel fault codes.	

Fault Code List			
Fault Code	Meaning	Causes	Troubleshooting
10	FOC stop working	Motor stucked	Check if the motor is stucked.
11		Undervoltage or overvoltage	Check if the charger is intact.
12		Overcurrent	Contact your dealer if happens often.
13		Controller overheat	Park the bike in shade and wait for it to cool down.
22	BCS overtemperature	BCS temperature is too high	Stop riding and park the bike in the shade to let the battery cool down.
23	BCS belowtemperature	BCS temperature is too low	Get BCS to work in the right tempera-ture environment
30	Battery 1overcharge	Battery in overcharge protection	Turn on headlight to discharge.Check if the charger is broken or wrong type.

Fault Code List			
Fault Code	Meaning	Causes	Troubleshooting
31	Battery 1overcurrent	Battery in overcurrent protection	Stop charging and check if the charger is failed.
50	Battery 2overcharge	Battery in overcharge protection	Turn on headlight to discharge.Check if the charger is broken or wrong type.
51	Battery 2overcurrent	Battery in overcurrent protection	Stop charging and check if the charger is failed.
60	Communication Module failure	SIM card identification failure	Contact your dealer.
65		SN code are not written or Smart central controller serial code are not written	
67		SIM card unpaid or weak signal	
80	stop charging	Charger in overtemperature protection	Remove the charger, and wait it to cool down before charging again. If the problem persists, contact your dealer.
81		Charger in overvoltage protection	Unplug and plug the charger again. If the problem persists, contact your dealer
82		Charger in overcurrent protection	
99	Communication Harness failure	Smart Central Controller or Harness Assembly failure	Contact your dealer.
110	FOC failure	MOSFET failure	Contact your dealer.Contact your dealer.
		MOSFET driver failure	

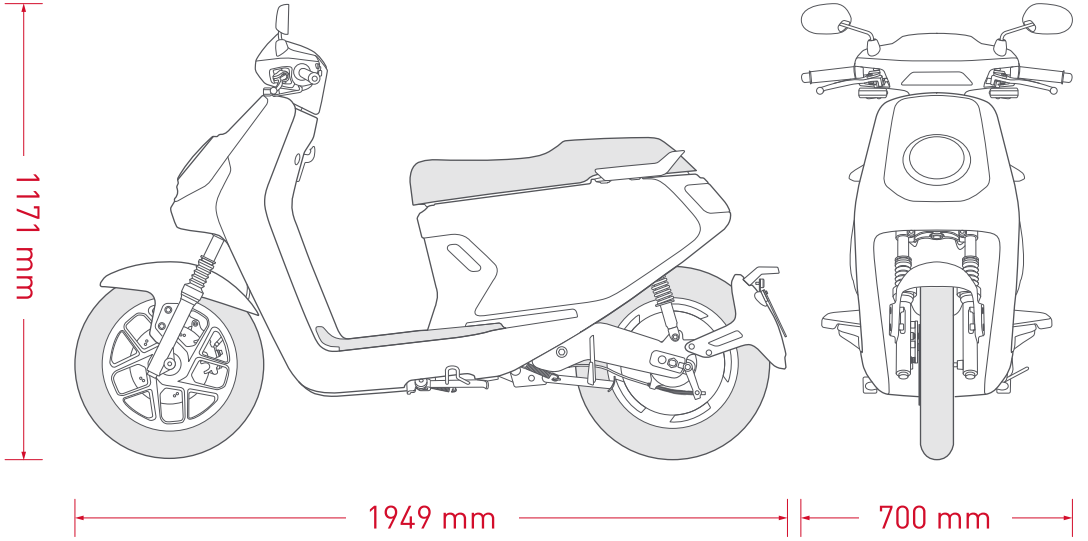
111	FOC varification failure	Non-original Controller or communication failure	Restart the bike. Contact your dealer if it does not work.
120	Motor failure	Motor Hall Sensor failure	Contact your dealer.Contact your dealer.
		Motor cord disconnected	
121	BCS is not working	BCS Charging MOS or Discharging MOS damaged	Contact your dealer.
122	BCS overcurrent	BCS in overcurrent protec-tion	Unlock and lock the electric switch lock again. If the problem persists, contact your dealer.
123	Motor Houle malfunctioning	Motor Houle signal failure	
130	Battery 1 overdischarge	Battery level is too low and the BMS is about to enter protection mode	Stop riding and charge the battery.
131	Battery 1 overcurrent	Battery is undervoltage or overvoltage	Check if the charger is failed.
132	Battery 1 overtemperature	Battery temperature is too high	Stop riding and park the bike in the shade to let the battery cool down.
133	Battery 1 belowtemperature	Battery temperature is too low	Charge the battery after it reaches the operating temperature range.
134	Battery Pack 1 not discharging	Excessive voltage difference	Contact your dealer.

135	Battery Pack 1 not discharging	Short-circuit between positive and negative electrodes of battery pack or external discharge current exceeding short circuit protection value due to external connection	Contact your dealer.
136	Battery Pack 1 not charging/discharging	Exposure to water due to structural reasons or water detection sensor false alarm	
138		Charging MOS or Discharging MOS damaged	
140	Twist Grip failure	Twist Grip Hall Sensor failure	
141		Twist Grip Open Circuit Failure	
142		Twist Grip Short-circuit failure	
150	Battery 2 overdischarge	Battery level is too low and the BMS is about to enter protection mode	Stop riding and charge the battery.
151	Battery 2 overcurrent	Battery is undervoltage or overvoltage	Check if the charger is failed.
152	Battery 2 overtemperature	Battery temperature is too high	Stop riding and park the bike in the shade to let the battery cool down.
134	Battery 2 belowtemperature	Battery temperature is too low	Charge the battery after it reaches the operating temperature range.
154	Battery Pack 2 not discharging	Excessive voltage difference	Contact your dealer

155	Battery Pack 2 not discharging	Short-circuit between positive and negative electrodes of battery pack or external discharge current exceeding short circuit protection value due to external connection	Contact your dealer.
156	Battery Pack 2 not charging/discharging	Exposure to water due to structural reasons or water detection sensor false alarm	
158	Battery Pack 2 not charging/discharging	Charging MOS or Discharging MOS damaged	
161	Locked bike	The bike is remotely locked by the server.	
165	The two battery packs don't match	Battery 1 and Battery 2 have different capacities , models,etc.	
183	stop charging	Charger in short circuit protection	Remove the charger and check the battery circuit Contact your dealer
190	FOC Communication failure	Can not receive Controller's data	Contact your dealer.
191	Battery communication failure	BMS can't return data or returned data is incorrect	Check the Connector is properly plugged. Contact your dealer if happens often.
192	Battery 2 communication exception	BMS can't return data or returned data is invalid	Check physical connection of communication circuit

193	(Leasing version only)	Lockboard can't return data or returned data is incorrect	Contact your dealer.
194	BCS communication failure	BCS can't return data or returned data is incorrect	

Technical Parameters



		MQi GT
Features	Motor Rated Power	3000 W
	Battery Capacity	31 Ah x 2
	Max.Speed	70 km/h, 45 km/h
	Dimension	1949 x 700 x 1171 mm
	Product weight	115 kg
	Maximun Load	269 kg
	Number of seating positions	2
	Range	75-98 km
	Gradeability	Dynamic:~15°
Battery System	Voltage	48 V
	Standard Charging Current	5.2 A
	Maximun Discharging Current	18.75 A
Electrical System	Headlight/Turn/Indicator Taillight/Brake/Light Meter Panel	12 V LED
	Central Control Unit	12 V
	USB Charging	5 V / 1 A
Power System	Motor	Tailored Motor by Bosch GmbH
	Motor Control Mode	FOC Vector Control
	FOC Controller Max. Current	80 A
Frame	Front/Rear Damper	Oil Damping Direct Acting Shock Absorber
	Front Tyre Specification	90/90-14 Rim: 2.15x14
	Rear Tyre Specification	110/80-14 Rim: 2.50x14

Frame	Brake System	Combined Braking System[CBS]
	Minimum Ground Clearance	165 mm
	Seat Heihgt	816 mm

Maintenance Record

Date		Mileage	
Notes:			
Dealer:			

Maintenance Record

Date		Mileage	
Notes:			
Dealer:			

Maintenance Record

Date		Mileage	
Notes:			
Dealer:			

Maintenance Record

Date		Mileage	
Notes:			
Dealer:			

Maintenance Record

Date		Mileage	
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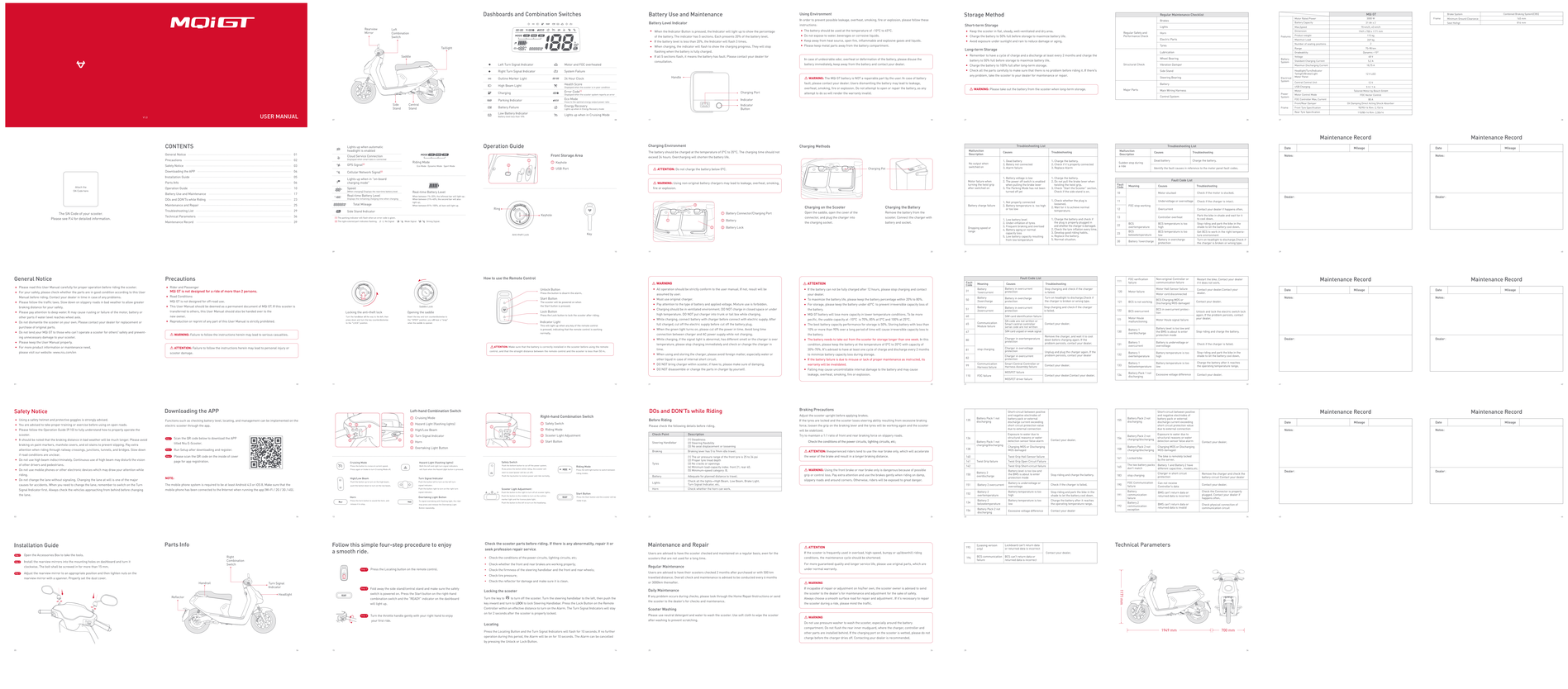
Dealer:			

Maintenance Record

Date		Mileage	
Notes:			
Dealer:			



样品版本

技术说明：

1、材料(楞形\克重配比)：100g双胶纸

2、工艺: 正反面印刷 骑马钉

3、印刷颜色: 2专 PANTONE Cool Gray 11C PANTONE 186C

4、其他特殊说明:

小牛电动MQi GT说明书 V1.0（英语）

物料编码

设计师

邱冠华

设计时间

2020.08.17

数量

1

更改备注

更改参数表参数 20200729

修改参数表参数、标题 只留MQi GT 20200817

批准

尺寸

成型尺寸：170*140 mm

展开尺寸：

方向

图纸方向：印刷方向

展开尺寸：XX方向

公差（无特殊说明下）

纸箱类： ±3 mm

标签类： ±0.5 mm

说明书类： ±1 mm

PE袋类： 0~20 cm ±2 mm　20~50 cm ±3 mm

50~100cm ±5 mm

图示说明

裁切线

压线

反压线

间隔刀线 x/x mm

开槽

粘合区域

比例 1：1　单位 mm

严禁更改任何图案和位置分布！