FQiX

V 1.1

USER MANUAL

WE NEED YOUR FEEDBACK

¿TIENES UN MOMENTO?
¡QUEREMOS SABER TU OPINIÓN!

NUR 'NE MINUTE...
SAG UNS, WAS DU DENKST!

HEB JE EEN MINUUTJE?
LAAT ONS WETEN WAT JE DENKT!

DIS-NOUS CE QUE TU EN PENSES.
ÇA PREND 1 MINUTE !

HAI UN MINUTO?
DICCI COSA NE PENSI!

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Attach the
SN Code here

The SN Code of your vehicle.
Please see P.5 for detailed information.

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General Notice

- Please read this User Manual carefully for proper operation before riding the vehicle.
- 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 vehicle on your own. Please contact your dealer for replacement or purchase of original parts.
- For others' safety and preventing unnecessary damage to your vehicle, do not lend your vehicle to those who can't operate.
- Please keep the User Manual properly. The final explanation of this User Manual belongs to the manufacturer and is subject to change without notice.
- For more product information or maintenance need,
  please visit our website: https://global.niu.com/
- For manuals in other languages,
  please visit global.niu.com/downloads

Precautions

- Rider and Passenger
  This vehicle is not designed for a ride of more than 2 persons.
- This User Manual should be deemed as a permanent document of this vehicle . If this vehicle 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.

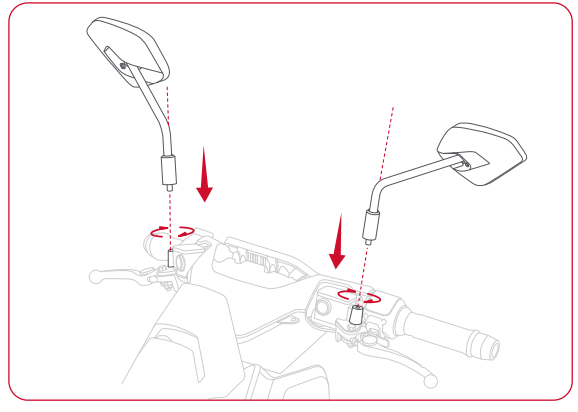
⚠ **ATTENTION:** Do not exceed speed limit and apply brakes cautiously. Always use side stand when parking.

⚠ **WARNING:** Failure to follow the instructions herein may lead to serious casualties, personal injury, or vehicle damage.

Safety Notice

- Using a 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.23) to fully understand how to properly operate the vehicle.
- 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 lanes without signaling. Changing lanes is one of the leading causes of accidents. When you need to change lanes, remember to use the turn signal first. Always check for vehicles approaching from behind before changing lanes.

Installation Guide



Install the rearview mirror

Insert the rearview mirror into corresponding mounting hole.

Rotate the mirror clockwise.

Once it is screwed in all the way, adjust it to the desired position.

Use a wrench to tighten the nut clockwise and fix the rearview mirror in place. Installation complete.

Downloading the App

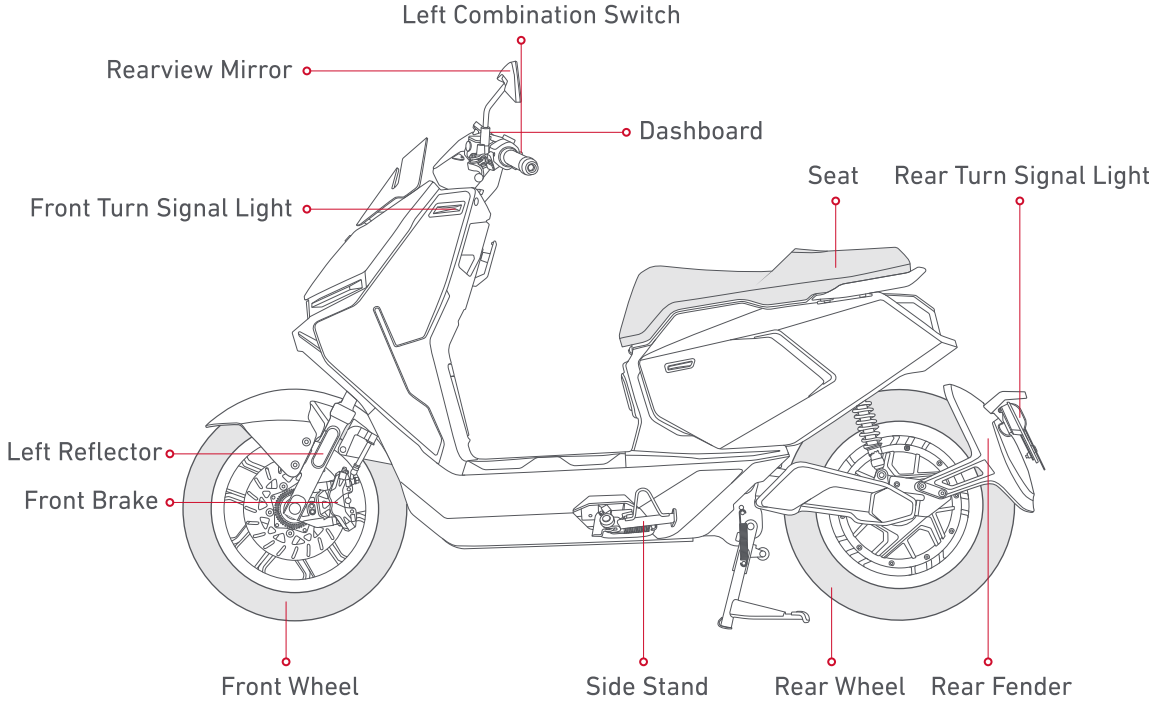
Functions such as checking battery level, locating, and management can be implemented on the electric vehicle through the app.

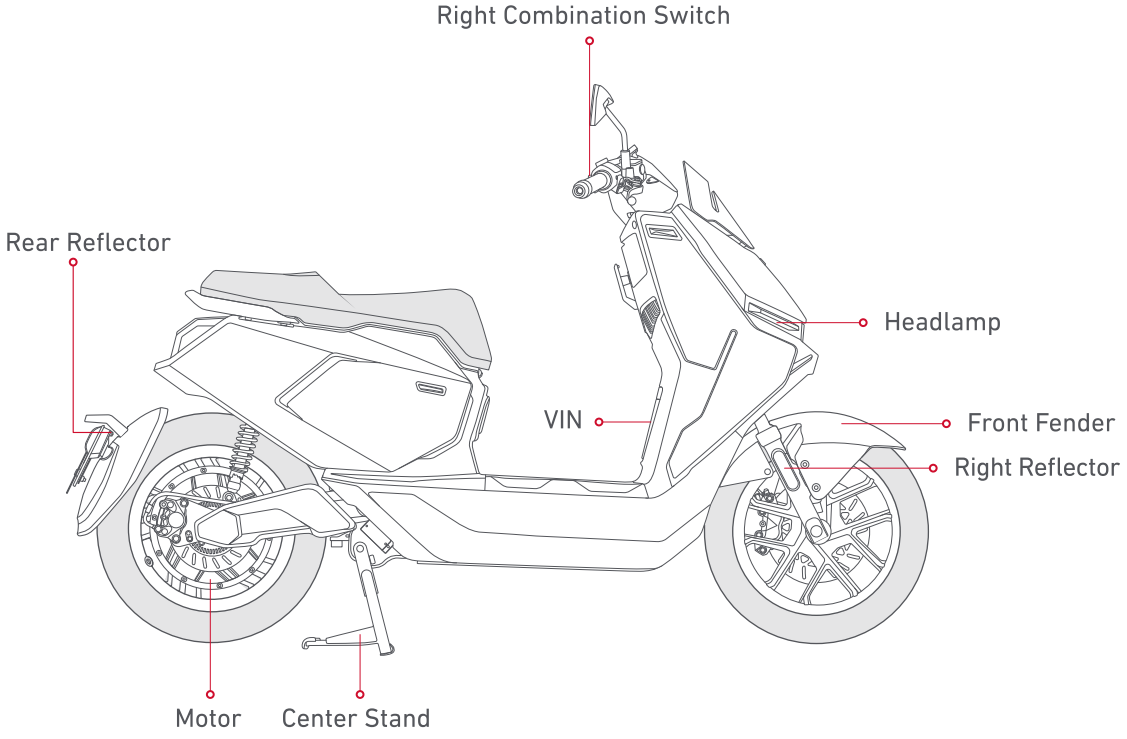
Step 1 Scan the QR code below to download the App titled NIU.

Step 2 Launch the App and complete registration.

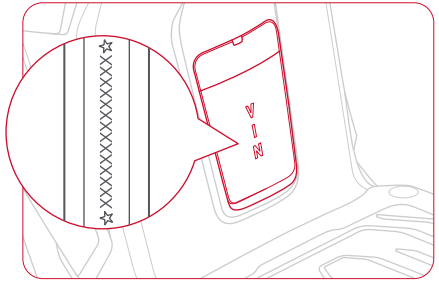
Step 3 Scan the QR code on the inside of the cover page for App registration.

Parts Info

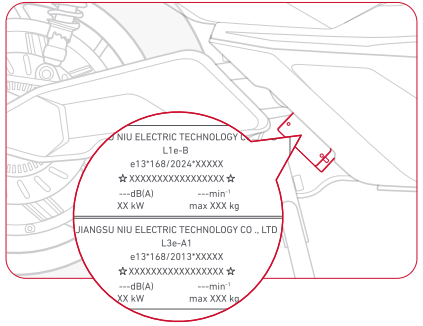




VIN Location



VIN Label Location



Dashboard and Combination Switches

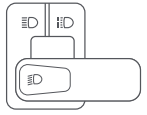


READY	Ready		Turn Indicator		High Beam
23:45	Time	24°C	Temperature		Low Beam
199	Error Code		SOC	ODO 23463 km	Total Mileage
	Position Light	56 km	Range		Abnormal Tire Pressure
28 Wed	Date	COMFORT	Riding Mode	99 km/h	Speed / Mode / Percentage

	Cruise Control	Displayed when the cruise control function is activated
	No Signal	Blinks when the mobile network or GPS signal is weak.
	OBD	Lights up when an OBD fault occurs. Refer to the error code list for details.
	ABS / TCS	Illuminates during power-on self-check. Turns off if no issues are detected.
	Bluetooth	Displayed when the vehicle is connected to Bluetooth
	Side Stand	Displayed when the side stand is down. Throttle is disabled in this state.
	Overheating	Displayed when the motor or controller overheats or malfunctions.
	System Failure	Displayed when a system malfunction occurs.
	Battery Failure	Displayed when a battery fault is detected.
64%	Battery Level	Remaining battery percentage

	Dynamic Speed Indicator	Visual indication of real-time speed.
	Dynamic Energy Indicato	Visual indication of real-time battery level.
	Special Function Indicator	Icons (ABS, TCS, etc.) light up in color when active and appear gray when inactive.

Left Combination Switch



High Beam & Overtaking Light

Short press to flash the overtaking light; push forward to switch on the high beam.



Cruise Control/ Power Assist

Speed > 10 km/h: Press to activate Cruise Control. Speed < 3 km/h: Press to enter & exit Assist Mode.

While In Assist Mode: Twist throttle to move forward; hold the button to reverse.



Turn Signals

Push left for left turn; push right for right turn. Press button inward to cancel.



Horn

Press to sound the horn; release to stop.



Hazard Light / Repair Mode

Hazard Light: Press to activate all turn signals. / In case of specific errors (120/140/150), hold this button to ride at a restricted speed (~15 km/h). Release to stop.

Right-hand Combination Switch



NIU Link Crown

Rotate to cycle through functions and info displays.

Short press to enter Settings, confirm a selection, or start/stop a function.

Double-click to add a marker, skip a track, or end a call.

Long press to return while in Settings.



Riding Mode Selection

Press - / + to switch riding modes.

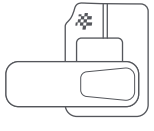


Start Button

After unlocking the vehicle, press and hold the button to turn the vehicle's power on or off;

When the vehicle is on, press the button to switch between Ready riding mode and P parking mode;

Double-click the button to open the seat; Triple-click the button to enter Bluetooth pairing mode.

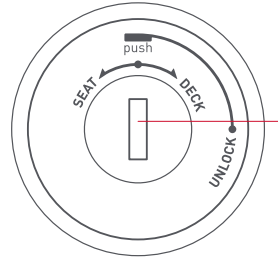


BOOST

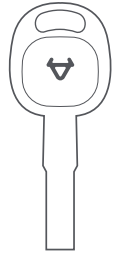
Press to activate UltraBoost, then twist throttle fully for extra power output.

NQiX 500 and higher model: If Boost function is turned off, this button functions as the Multi-function Knob.
NQiX 150/300: Functions as the Multi-function Knob.

Key and Remote Control

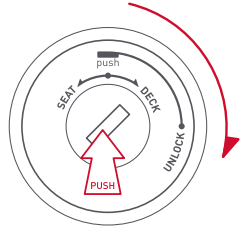


Keyhole



Lock

Key



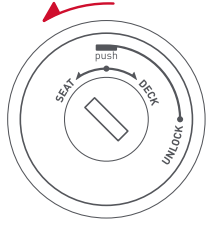
Open the Deck

Opening the Deck

Insert the key, press down, and turn it clockwise to the "DECK position, you will hear a "click" sound, the deck unlock.

Closing the deck

Close the deck and press down firmly on the deck lock, you will hear a "click" sound, the deck lock.



Open the Seat

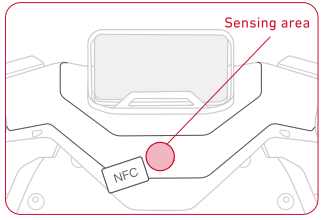
Opening Seat

Insert the key and turn it counter-clockwise to the "SEAT" position. When you hear a "pop" sound, the seat compartment opens.

Close Seat Compartment

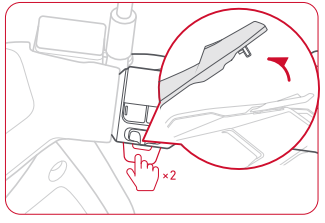
Close the seat cushion and press down firmly on the rear end of the seat. When you hear a "pop" sound, the seat compartment closes.

NFC



NFC Startup

Swipe the NFC card over the marked sensor area below the dashboard to power on the vehicle.



Opening the Seat

If the main battery is removed, swipe the NFC card and double press the Start Button within 10 seconds to unlock the seat.

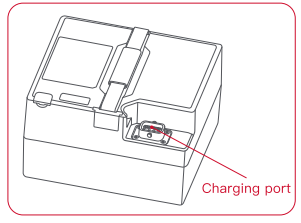
NFC Key Management

Use the "Key and Sharing" feature in the NIU App to add or manage NFC keys.

Battery, Charger, Motor and Controller

Battery Instruction

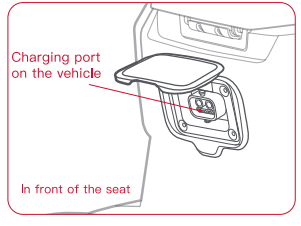
The battery can be charged via its own charging port or the vehicle's built-in charging port.



- **External Charging**

Remove the battery and insert the charger plug into the battery's charging port.

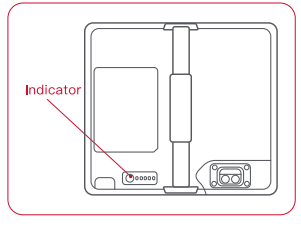
The battery level indicator will light up to display the real-time charge level.



- **Vehicle Charging**

Place the battery in the compartment and connect the power plug. Then, insert the charger into the vehicle charging port located under the seat.

The dashboard charging indicator will light up to show the real-time charge level.



- **Battery Level Indicator**

During charging, indicators flash to show current level. When fully charged, all indicators remain solid (stop flashing).

When not charging, press the button to check status.

- Normal: Indicators display current battery level.
- Low Battery (<20%): Indicators flash briefly to remind you to charge.
- Malfunction: If all indicators flash simultaneously, the battery is malfunctioning. Contact your dealer.

Instruction Before Using Battery

- Use only original NIU batteries. Do not use third-party brands.
- Inspect the battery casing. Ensure there is no visible damage, leakage, overheating, water ingress, or smoke.
- For safety during transport, the battery is shipped with approximately 30% charge. Due to self-discharge during transport and storage, it is normal for the battery to be low or empty upon first use. Please charge the battery fully according to the instructions before first use.

⚠ **ATTENTION:** Do not disassemble waste batteries. They must be recycled and disposed of by authorized professional agencies.

Precautions for Battery Use

- Please fully discharge the battery followed by a full charge upon first use. Perform 2-3 full charge/discharge cycles to calibrate the dashboard display accuracy.
- Try keeping the battery level above 20% and charge promptly to extend its lifespan during daily use.
- To extend range, it is recommended to use ECO mode and apply the throttle gently, especially when starting.
- Deviations between actual capacity and the display may occur over time.
  Regularly (at least every 3 months) fully charge and discharge the battery to allow the BMS to recalibrate the battery level.
- It is recommended to check the power plug of the battery every two months to confirm whether there is carbon deposition and oxidation blackening on the contact spring. If issues are found, please visit a dealer for maintenance.

⚠ **ATTENTION:** Do not submerge the battery. Avoid riding if water levels exceed the bottom of the battery compartment. Water intrusion causes short circuits and permanent battery damage. If the battery has been submerged, DO NOT charge it, as this may cause fire or explosion.

Use Environment



Operating in -10~45°C environment temperature



Avoid exposing the battery to water, beverages, or corrosive liquids.



Keep battery away from heat sources, open flames, and flammable/-explosive gases or liquids.



Prevent metal objects from entering the battery casing.

In cold environments, battery capacity will decrease. Reference performance: 70% at -10°C, 85% at 0°C, and 100% at 25°C. If the battery emits an odor, overheats, deforms, or shows other abnormalities, stop using it immediately, keep a safe distance, and contact your dealer.

⚠ **WARNING:** The battery is not a user repairable component. If any abnormalities occur, please contact the dealer.
Unauthorized disassembly voids the warranty and may cause overheating, smoke, fire, or explosion.

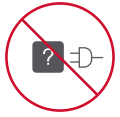
Storage Environment

- Please store the battery at 0°C to 25°C. Do not exceed 40°C.
- The ideal battery level for storage is 50%. Long-term storage below 10% or above 90% will cause irreversible capacity loss.
- The technical standards for lithium battery protection in a safe storage environment are as follows:
  (1) In-Vehicle: If stored connected to the vehicle, the maximum safe period is one month.
  (2) Separate Storage: If stored separately (at ≥ 50% charge), the maximum safe period is 3 months.
  Failure to follow these guidelines may cause irreversible damage. Resulting battery failure is not covered by warranty.

Precautions for Using Charger

- When charging, keep the battery in a safe place where children can't reach.
- Do not cover the charger when charging. This charger is for indoor use, please make sure to use it in a dry, well-ventilated environment.
- If you detect an unusual odor, high temperature, or abnormal indicator lights from the charger or the battery, stop charging immediately.
- Do not disassemble or replace the components inside the charger on your own.
  Use only a charger that matches the specific battery model when replacing.

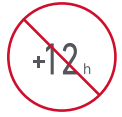
Charging Environment



Please use the matching original charger



Please charge the battery at 0~35°C



Please do not exceed 12 hours of charging time

- The battery charges rapidly at first and slows down near full charge. This is normal for safety.
- To protect the battery, charging will automatically stop at temperatures below 0°C.
- It is normal for the charger to become hot during use. Please keep it out of reach of children.

Precautions for Motor

- Do not overload the vehicle. If the vehicle is stuck or obstructed, do not repeatedly attempt to start. Clear the obstruction before proceeding.
- Do not ride if water exceeds the motor axle center. Water intrusion causes failure and is not covered by warranty.
- The motor requires no daily maintenance. However, regularly check the tightness of the motor shaft nuts. If loose, tighten them immediately or seek professional assistance.
- It is recommended to inspect the motor at the dealer every three months.

Precautions for FOC

- Keep the controller dry and prevent water immersion.
- If the FOC connector is exposed to rainwater, clean it immediately with fresh water or alcohol to prevent oxidation and corrosion.
- Do not overload the FOC system for extended periods, as this may cause accelerated aging of internal components and a drop in performance.
- Brake gently. Avoid braking too hard or too frequently, as this can damage the FOC and increase the risk of accidents, particularly in rain or snow.

ARE YOU READY?

⚠ **ATTENTION:** Inspect all vehicle components before riding. If any abnormality is found, repair it immediately or seek professional assistance.

- Maintain both front and rear tire pressures at 250 kPa, or as indicated on the tire sidewall.
- Inspect tires for cracks, bulges, or abnormal wear. (Note: Low pressure or tire damage will reduce riding range and may lead to loss of control, tire blowouts, or accidents.)
- Check the circuit breaker (if equipped) located in the seat compartment. Ensure it is switched to the 'ON' position.
- Ensure the throttle and brake levers function smoothly.
- Check if the headlight, turn signals, and other lights function properly.
- Check if the horn works properly.
- Check if the steering turns smoothly. Ensure there is no looseness, excessive play, binding, or stiffness when moving the handlebars in all directions (up, down, left, right, back, and forth).
- Check and ensure the rider can clearly see an area of 10m (length) by 4m (width) through the rearview mirrors.
- Ensure the battery charge is sufficient for your planned trip.

Start a Smooth Ride with Three Simple Steps.

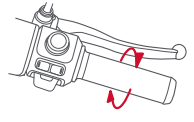
Before riding, please wear an approved helmet and ensure the vehicle is powered on.



Step 1 Retract the side stand.



Step 2 Hold the brake lever and press the Start Button to enter READY mode.



Step 3 Gently twist the throttle to start your first journey.

Maintenance and Repair

Refer to the table below for maintenance schedules. Actual items may vary based on model, mileage, and time.

Category	Inspection item
Structural components	Vehicle fasteners
	Tires
Brake system	Brake fluid (Oil)
	Brake noise
	Braking performance
	Brake disc
Electrical components	Ignition lock, alarm
	Lights
	Dashboard display
	Combination switch
	Charger voltage

Category	Inspection item
Suspension+ steering system	Front/rear shock absorber
	Handlebar steering
	Front wheel
Batteries	Battery case condition
	Water seal / gasket
	Battery connections
	Charging test
Riding	General operation
	Vehicle noise
	Parking mechanism
Transmission system	Chain tension & noise
	Sprocket tooth wear

No	Item	Inspection and maintenance		400-600km (within 1 month)	1400-1600km (within 4 months)	2900-3000km (within 10 months)	More than 3000km
							Every 1500km or six months
1	Plastic parts	Plastic parts appearance		√	√	√	√
2		Panel gaps		√	√	√	√
3		Seat	Suggest replacing every three years	√		√	√
4	Structural components	Fasteners		√		√	√
5		Center stand / Side stand			√	√	√
6		Front and rear axles			√	√	√
7		Mounting brackets			√	√	√
8		Tires	Suggest replacing every 10,000 km	√	√	√	√

No	Item	Inspection and maintenance		400-600km (within 1 month)	1400-1600km (within 4 months)	2900-3000km (within 10 months)	More than 3000km
							Every 1500km or six months
9	Brake system	Brake Fluid	Suggest replacing every two years			√	√
10		Brake noise		√	√		√
11		Brake performance				√	√
12		Brake appearance				√	√
13		Brake pad	Suggest replacing every 10,000 km			√	√
14		Leaf Spring	Suggest replacing every 10,000 km				√
15		Brake hose	Suggest replacing every three years				√
16		Brake disc					√
17	Electrical Components	Power lock		√			√
18		Lights		√	√		√
19		Dashboard display		√			√

No	Item	Inspection and maintenance		400-600km (within 1 month)	1400-1600km (within 4 months)	2900-3000km (within 10 months)	More than 3000km
							Every 1500km or six months
20	Electrical Components	Switches	Suggest replacing every three years	√	√	√	√
21		Alarm and Horn			√	√	√
22		Motor		√	√		√
23		Charger		√		√	√
24		Controller		√	√	√	√
25		APP function			√		√
26	Electric cable	Power connector			√	√	√
27		Controller connector		√	√	√	√
28		Brake switch connector					√
29	Suspension+steering system	Front and rear shock absorbers	Suggest replacing every 15,000 km	√	√	√	√
30		Handlebar		√	√	√	√

No	Item	Inspection and maintenance		400-600km (within 1 month)	1400-1600km (within 4 months)	2900-3000km (within 10 months)	More than 3000km
							Every 1500km or six months
31	Sus-pen-sion+steering system	Steering Stem and Bearings Inspection	Suggest replacing every 10,000 km			√	√
32		Front wheel inspection		√	√		√
33		Front Wheel Oil Seal and Spacer	Suggest replacing every 10,000 km			√	√
34	Battery	Battery Casing Inspection					√
35		Label inspection					√
36		Water Seal Inspection					√
37		Battery testing		√	√	√	√
38		Charging test		√	√	√	√
39		Battery socket inspection		√	√	√	√

No	Item	Inspection and maintenance		400-600km (within 1 month)	1400-1600km (within 4 months)	2900-3000km (within 10 months)	More than 3000km
							Every 1500km or six months
40	Test ride	Operation inspection		√	√	√	√
41		Abnormal noise inspection		√	√	√	√
42		Parking stand Inspection		√	√	√	√

Brake Maintenance & Repair

- Check regulrlay and replace fluid if necessary;
- Replace the brake fluid every two years;
- Replace brake hoses every three years, or immediately if cracked or damaged.

Troubleshooting

Problem Description	Possible Causes	Troubleshooting
No power output after turning on the vehicle	No power supply	Check if the battery plug is securely connected
		Charge the battery
Motor fails to start after powering on and twisting the throttle	Brake lever is engaged	Check if the brake lever is being held or stuck
	Vehicle is in parking mode	Refer to the "ARE YOU READY" section in this manual
	Side stand is extended	Retract the side stand completely
	Start switch malfunction	Contact an authorized dealer to inspect the start switch
Insufficient riding range	Battery is not fully charged	Check if the charger is damaged
	Low tire pressure	Check tire pressure before every ride
	Frequent braking or vehicle overloading	Maintain steady speeds and avoid frequent hard braking
	Battery aging or natural capacity degradation	Replace the battery if necessary
	Reduced battery capacity due to low ambient temperature	Understand that reduced range in cold weather is normal

Problem Description	Possible Causes	Troubleshooting
Battery fails to charge	Charger plug is not securely connected	Ensure the charger plug is tight and secure
	Battery temperature is too low	Allow the battery to reach room temperature before charging
	Battery temperature is too high	Allow the battery to reach room temperature before charging
USB charging failure	USB plug is not securely connected	Check if the USB plug is securely connected
	USB cable does not meet mobile device's standards	Use a high-quality cable that meets your device's standards
	USB charger/port is damaged	Contact an authorized dealer to replace damaged components

Problem Description	Possible Causes	Troubleshooting
The charging indicator stays green (does not turn red)	The charger output port and battery charging plug are not securely connected	Reconnect the charging plug
	Short circuit in the charger output	Replace a charger
	Open circuit in the battery connection line inside the battery compartment	Reconnect the battery cable
	Blown fuse inside the battery compartment	Replace the fuse with one of the same specification
	The red LED indicator on the charger is damaged or faulty	Replace the charger
Failure to transition normally (e.g., from red to green)	Battery pack voltage is too low due to a single-cell open circuit or abnormal battery temperature during charging	Replace the lithium-ion battery pack
	Increased leakage current in the battery pack due to high charging temperature, which prevents the final charging current from decreasing	Charge the battery in a cooler and well-ventilated area

Problem Description	Possible Causes	Troubleshooting
Indicator fails to transition normally (e.g., from red to green)	Charger malfunction. Internal damage (e.g., from severe vibration) may cause poor contact or an open circuit in the control loop, resulting in voltage instability or battery overcharging	Replace the charger
Indicator does not light up	Damage to the charger or the indicator LED	Replace the charger
Charger indicator stays green even though the battery is not fully charged	The charger has entered over-temperature protection mode	Charge the battery in a cooler and well-ventilated area
Charger indicator fails to light up when the battery is depleted	The battery is completely discharged (dead)	Charge the battery
The indicator flashes when the battery key is pressed	Battery is depleted or there is an internal battery fault	Charge the battery; if flashing persists, contact an authorized service center for inspection

Problem Description	Possible Causes	Troubleshooting
Power outage, black screen, or Error Code 130 occurring during riding at low battery levels (e.g., below 5%)	Depleted battery	Charge the battery
Significant increase or decrease in displayed battery level 1-2 hours after parking	Dynamic internal calibration of the battery cells to correct any previously inaccurate SOC (State of Charge) readings	This is a normal function; the vehicle can be used normally
Power outage, black screen, or Error Code 130 occurring while riding with approxi-mately 15% battery remaining	Normal battery depletion. The battery level calculation may have become inaccurate after extended use	Perform a full charge and discharge cycle to recalibrate the battery
Significant increase or decrease in displayed battery level 1-2 hours after parking	Normal battery behavior; SOC calculation may be slightly inaccurate after long-term use	This is normal; continue to use the vehicle as usual

Problem Description	Possible Causes	Troubleshooting
Significant drop in battery level (displayed on the dashboard) overnight after parking	The Smart ECU and Alarm system consume approximately 5% power every 8 hours	This is normal. Power consumption for GPS positioning (satellite searching) increases significantly in areas with poor signal
Dashboard may show a misleadingly high battery level if the power consumed by the Smart ECU and alarm is not factored in	The Smart ECU and Alarm system consume approximately 5% power every 8 hours	This is a normal function of the smart system
Error Code 191 occurs during riding; speed is limited to Mode 1, accompanied by intermittent power loss	Communication failure between the Smart ECU and the Battery Management System (BMS)	Have the vehicle inspected at an authorized service center immediately

Problem Description	Possible Causes	Troubleshooting
Error Code 191 occurs occasionally during riding; the riding mode is limited to ECO Mode, sometimes accompanied by power loss	Deformed connector pins or a battery connector that has loosened after long-term use	Disconnect and reconnect the battery, then restart the vehicle to clear the fault. Have the vehicle inspected at an authorized service center.
Discrepancy between actual riding range and the officially stated range	Official range is based on specific test environments. Actual range varies depending on speed, load, terrain, wind resistance, and ambient temperature	Review factors affecting range on the official website; if necessary, have battery capacity tested at an authorized service center
(For models with indicator bars) Display keys and indicator bars do not light up or are flashing	Battery depletion caused by excessively long storage periods without charging	Recharge the battery to restore normal operation. If it fails to charge, contact an authorized service center. Note: Battery depletion or deep discharge caused by long-term storage inside the vehicle is not covered under warranty
Error Code 30 appears on the dashboard even though the battery is fully charged	Excessive charging time (leaving the charger connected for too long)	This is normal; please disconnect the charger promptly once fully charged to shorten charging duration

Problem Description	Possible Causes	Troubleshooting
Heat emission during the charging process	High internal current generates significant heat during the charging process. The aluminum charger casing acts as a heat sink to dissipate this heat, which helps prolong the charger's service life	This is normal; however, avoid direct skin contact with the charger while it is charging
Battery casing deformation or melting due to excessive heat during charging	Plastic deformation and melting due to excessive heat accumulation	Ensure charging does not occur in high-temperature environments, enclosed spaces, or with the charger covered/wrapped. WARNING: Please stop using the deformed charger or battery immediately
Excessive charging duration	A standard full charge typically takes 8–10 hours. The battery level increases rapidly during the initial "constant current charging" stage and slows down during the "constant voltage charging" stage	This is normal behavior If required, you may purchase a compatible fast charger (refer to official specifications for your model)
Unable to use the battery or start the vehicle after exposure to water or rain	Battery corrosion or damage caused by exposure to water or rain	Stop using the vehicle immediately and have it inspected at an authorized service center. Note: Any battery damage or malfunction resulting from water ingress caused by improper use or human factors is not covered under warranty

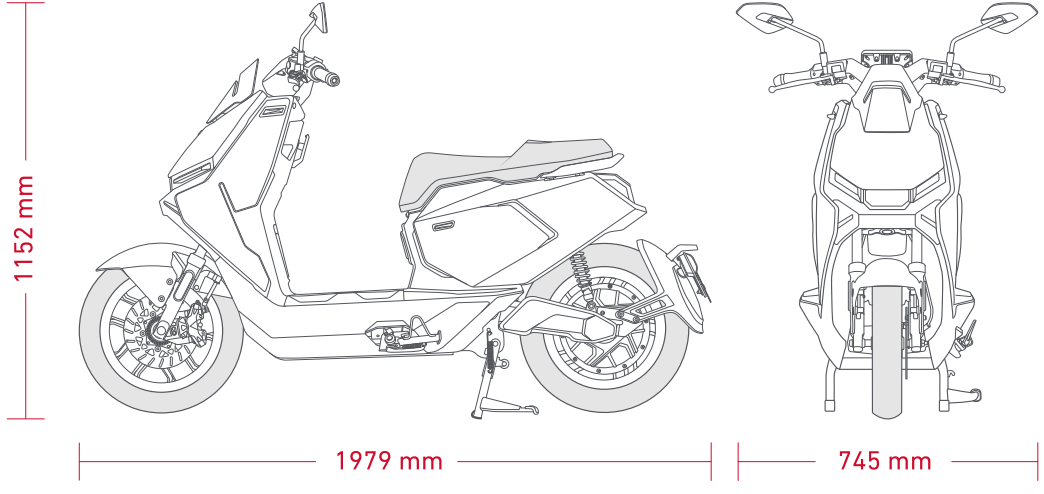
Problem Description	Possible Causes	Troubleshooting
Battery case broken or cracked due to falling or impact	Damage caused by external impact or improper use	Stop use immediately and have it inspected at an authorized service center. Note: Physical or accidental damage to the battery is not covered under warranty
Vehicle fails to start after being kept idle for a long period with the main battery plugged in	The 12V lead-acid battery is depleted (deeply discharged) or damaged	Charge the battery via the emergency charging port, or have it inspected and repaired at an authorized service center

Fault Code List			
Fault Code	Description	Causes	Troubleshooting
10	FOC Failure	Motor is stuck or stalled	Inspect the motor for physical obstructions
11		Undervoltage or overvoltage	Check the battery and its input voltage
12		Overcurrent	If this persists, contact an authorized dealer
13		Controller overheat	Park the vehicle in the shade and wait for the controller to cool down
30/50	Battery 1 or 2 overcharge	Battery in overcharge protection	Turn on the headlight to discharge. Check if the charger is damaged or the incorrect model
31/51	Battery 1 or 2 overcurrent	Battery in overcurrent protection	Stop charging and check if the charger has failed
60	Communication Module failure	SIM card recognition error	Contact your dealer
65		Serial Number (SN) or Smart ECU ID is missing /incorrect	
72	Smart Lock System Error	Smart lock self-test abnormal	
80	Charging Interrupted	Charger in overtemperature protection	Disconnect the charger and let it cool down. If the problem persists, contact your dealer
81		Charger in overvoltage protection	Re-plug the charger. If the error remains, contact your dealer
82		Charger in overcurrent protection	

Fault Code List			
Fault Code	**Description**	**Causes**	**Troubleshooting**
99	Communication Harness failure	Failure of the Smart ECU or the main wiring harness	Contact your dealer
110	FOC failure	MOSFET failure	
		MOSFET driver failure	
120	Motor failure	Motor Hall Sensor failure	
		Motor cable disconnected	
130/ 150	Battery 1 or 2 overdischarge	Battery level is critically low; BMS is entering protection mode	Stop riding and charge the battery
131/ 151	Battery 1 or 2 overcurrent	Battery is undervoltage or overvoltage	Check if the charger is faulty or incompatible
132/ 152	Battery 1 or 2 overtemperature	Battery temperature has exceeded the safe operating limit	Stop riding and park in a cool, shaded area to allow the battery to cool
133/ 153	Battery 1 or 2 low-temperature	Battery temperature is below the minimum operating threshold	Move the battery to a warmer environment; charge only after it reaches room temperature
134/ 154	Battery 1 or 2 discharge failure	Excessive voltage difference between the cell	Contact your dealer

Fault Code List			
Fault Code	**Description**	**Causes**	**Troubleshooting**
135/ 155	Battery 1 or 2 discharge failure	Short-circuit between battery electrodes, or external discharge current exceeds the safety threshold	Contact your dealer
136/ 156	Battery 1 or 2 charging /discharge failure	Water ingress due to structural damage, or a false alarm from the water detection sensor	
138/ 158		Internal charging or discharging MOS components are damaged	
140	Throttle failure	Failure of the throttle's hall sensor	
161	Vehicle remotely locked	The vehicle has been remotely locked by the server	
183	Charging interrupted	Charger has entered short-circuit protection mode	Disconnect the charger and inspect the battery circuit. Contact your dealer if the problem persists
190	FOC Communication failure	Unable to receive controller data	Contact your dealer
191	Battery communication failure	BMS data is corrupted or failed to transmit	Ensure the battery connector is fully plugged in. If this occurs frequently, contact your dealer

Basic Parameters



		FQiX 150	FQiX 300
Features	Motor Rated Power	2000 W	2000 W
	Battery Capacity	72 V 28 Ah × 1	72 V 28 Ah × 2
	Top Speed	45 km/h	75 km/h
	Dimensions	1979 × 745 × 1152 mm	1979 × 745 × 1152 mm
	Vehicle Weight (w/o Battery)	95 kg	95 kg
	Battery Weight (Each)	15.5 kg	15.5 kg
	Maximum Payload	150 kg	150 kg
	Seating Capacity	2	2
	Range	100 - 110 km	100 - 110 km
	Gradeability	16 %	16 %
Battery System	Voltage	72 V	72 V
	Standard Charging Current	10 A	10 A
	Maximun Discharging Current	75 A	75 A
Electrical System	Headlight / Turn Indicator / Taillight / Brake/Light / Display	12 V	
	Central Control Unit	12 V	
	USB Charging	18W	
Powertrain	Motor	Permanent Magnet Synchronous Motor	
	Motor Control Method	FOC	
	Controller Max. Current	75 A	

		FQi X 150	FQi X 300
Chassis & Frame	Front/Rear Suspension	Hydraulic / Spring-Hydraulic Shock Absorber	
	Front Tire Specification	90/90-14	
	Rear Tire Specification	110/80-14	
	Brake System	CBS/TCS	ABS/TCS
	Minimum Ground Clearance	155 mm	
	Seat Height	785 mm	

Maintenance Record

Date		Mileage	
Notes:			
Dealer / Service Center:			

Maintenance Record

Date		Mileage	
Notes:			
Dealer / Service Center:			

Maintenance Record

Date		Mileage	
Notes:			
Dealer / Service Center:			







The SN Code of your vehicle.
Please see P3 for detailed information.

CONTENTS

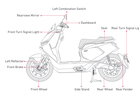
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Downloading the App

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

- Scan the QR code below to download the App (Visit FAQ)
- Launch the App and complete registration.
- Scan the QR code on the inside of the cover page for App registration.

Parts Info



NFC



Battery, Charger, Motor and Controller

Battery Instruction

Remove the seat to access charging port for the vehicle's built-in charging port.



- **External Charging**
  Remove the battery and open the charge cover for the external charging port.
  The battery level indicator will light up to show the real-time charge status.
- **Vehicle Charging**
  Open the battery compartment and connect the power plug. The vehicle will start charging automatically.
  The battery level indicator will light up to show the real-time charge status.



- **Battery Level Indicator**
  Short-Press the Mode button on the control panel. When the charger is attached, it shows battery level and the charging.
  Long-Press the Mode button to check status.
  1. Green LED indicates battery level is 81%-100%.
  2. Green LED indicates battery level is 21%-80%.
  3. Red LED indicates battery level is 0%-20%. Please charge the battery in time.

Maintenance and Repair

Refer to the table below for maintenance schedules. Actual items may vary based on model, mileage, and time.

Category	Inspection Item	Category	Inspection Item
Electrical components	Horn / Speakers	Steering system	Front/rear shock absorber
	Turn / Hazard / DRL		Handlebar steering
Brake system	Front / Rear ABS	Batteries	Battery
	Brake hose		Battery case/cushion
	Braking performance		Motor seal / gasket
	Brake fluid		Motor bearing
Electrical components	Ignition lock, switch, and lights	Body	Charging port
	Instrument display		Spacer/Lubrication
	Combination switch		Fairing attachment
	Charger voltage	Transmission system	Chain tension & wear
			Sprocket tooth wear

Instruction Before Using Battery

- Use only original NIU batteries. Do not use third-party brands.
- Inspect the battery casing. Ensure there is no visible damage, leakage, rust/marking, water ingress, or smoke.
- For safety during transport, the battery is shipped with approximately 30% charge. Due to natural self-discharge, the battery may require charging before first use. Please charge it to a full state first use. Please charge the battery only according to the instructions below for first use.

ATTENTION Do not disassemble waste batteries. They must be recycled and disposed of by authorized professional agencies.

Precautions for Battery Use

- Please fully recharge the battery followed by a full charge each first use. Perform 2-3 full charge-discharge cycles to calibrate the dashboard display accuracy.
- To maximize the battery level above 20% and charge promptly to extend its lifespan during daily use.
- For long-term storage, it is recommended to use ECO mode and apply the throttle gently especially when starting.
- Deviations between actual capacity and the display may occur over time.
- Do not charge the battery in extreme temperatures. Allow the battery and charger to allow the BMS to recalibrate the battery level.
- It is recommended to check the power plug of the battery every two months to confirm whether there is a rather deposition and oxidation blackening on the contact spring. If excess are found, please visit a Dealer for maintenance.

ATTENTION Do not submerge the battery. Avoid riding if water levels exceed the footboard. Do not ride through deep water. Do not charge the battery if it has been submerged before. Damage to the battery has been exchanged. DO NOT charge it, as this may cause fire or explosion.

Storage Environment

- Please store the battery at 41°F to 77°F. Do not exceed 43°C.
- The ideal battery level for storage is 50% long-term storage below 75% or above 90% will accelerate battery aging.
- The technical standards for lithium battery protection in a safe storage environment are as follows:
  1) Store Monitor: If stored connected to the vehicle, the maximum safe period is one month.
  2) Separate Storage: If not connected and properly set, a 50% charged, the maximum safe period is 3 months.
- Following these guidelines may cause it nevertheless damage. Resulting battery failure is not covered by warranty.

Precautions for Using Charger

- When charging, keep the battery in a safe place where children can't reach.
- Do not cover the charger when charging. The charger is for indoor use always make sure to use it in a dry, well-ventilated environment.
- Do not charge the battery if the charger, battery connectors, or abnormal indicator lights from the charger or the battery, stop charging immediately.
- Do not disassemble or replace the components inside the charger on your own. Use only a charger that matches the specific battery model when replacing.

Use Environment



In cold environments, battery capacity will decrease. Performance: 70% at -10°C, 85% at 0°C, and 100% at 25°C. If the battery emits an odor, overheats, deforms, or shows other abnormalities, stop using it immediately, keep a safe distance, and contact your dealer.

WARNING The battery is not a user-repairable component. If any abnormalities occur, please contact the dealer.
Unauthorized disassembly voids the warranty and may cause overheating, smoke, fire, or explosion.

Charging Environment



- The battery charges rapidly at first and slows down near full charge. This is normal for safety.
- To protect the battery, charging will automatically stop at temperatures below 41°F.
- It is normal for the charger to become hot during use. Please keep it out of reach of children.

Troubleshooting

Problem Description	Possible Causes	Troubleshooting
No power status after turning the key to the ON/ACC position	No power supply	Check if the battery plug is securely connected
	Brake lever is engaged	Charge the battery Check if the brake lever is being held or locked
Motor fails to start after pressing the throttle	Vehicle is in parking mode	Refer to the NIU APP "Parking Mode" section to exit parking mode
	Side stand is extended	Retract the side stand completely
	Fault-related malfunction	Connect an authorized dealer to inspect the vehicle
	Battery is not fully charged	Charge the battery to full capacity
	Low tire pressure	Check and inflate tires to the recommended pressure
	Prepared braking or vehicle malfunction	Maintain steady speeds and avoid frequent braking
	Battery aging or reduced capacity degradation	Replace the battery if necessary
	Battery temperature is too low for optimum performance	Undervoltage/short-delayed range in cold weather is normal.

Precautions for Water

- Do not overload the vehicle. If the vehicle is stuck or obstructed, do not repeatedly attempt to start it. Push it to a safe location before proceeding.
- Do not ride if water exceeds the motor axle center. Water-impacted vessels failure and are not covered by warranty.
- The motor requires no daily maintenance. However, regularly check the tightness of the motor shaft nuts. If loose, tighten them immediately or seek professional assistance.
- It is recommended to inspect the motor at the dealer every three months.

Precautions for FOC

- Keep the controller dry and prevent water intersection.
- If the FOC connector is exposed to rainwater, clean it immediately with fresh water or alcohol to prevent corrosion and oxidation.
- Do not overload the FOC system for extended periods, as this may cause accelerated aging of internal components and a drop in performance.
- Brake gently. Avoid braking too hard or too frequently, as this can damage the FOC and increase the risk of accidents, particularly in wet or snow.

Troubleshooting

Problem Description	Possible Causes	Troubleshooting
Battery fails to charge	Battery temperature is too low	Allow the battery to reach room temperature before charging
	Battery temperature is too high	Allow the battery to reach room temperature before charging
	USB plug is not securely connected	Check if the USB plug is securely connected
	USB charging failure	Vehicle may lose real-time mobile network connection
	USB charger/port is damaged	Contact an authorized dealer to replace damaged components.

Fault Code	Description	Causes	Troubleshooting
F01	Communication Hardware failure	Failure of the three ECUs or the hard wiring harness	Contact your dealer
F02	VCU failure	Failure of the VCU or the hard wiring harness	Contact your dealer
F03	Meter failure	Meter fault failover failure	Contact your dealer
F04	Meter failure	Meter data disconnected	Contact your dealer
F05	Battery 1 or 2 disconnected	Meter lost connection to battery 1 or 2	Stop riding and charge the battery
F06	Battery 1 or 2 disconnected	Battery is under-voltage or over-discharged	Check if the charger is faulty or incompatible
F07	Battery 1 or 2 disconnected	Battery disconnected or has exceeded the safe operating time	Stop using and refer to a local dealer
F08	Battery 1 or 2 disconnected	Battery disconnected due to failure	Refer to the battery to examine
F09	Battery 1 or 2 discharge failure	Excessive voltage difference between the cell	Contact your dealer

Fault Code	Description	Causes	Troubleshooting
F10	Battery 1 or 2 charging failure	Battery 1 or 2 charging failure	Contact your dealer
F11	Battery 1 or 2 charging failure	Battery 1 or 2 charging failure	Contact your dealer
F12	Vehicle stability failure	Vehicle stability failure	Stop using and refer to a local dealer
F13	Vehicle stability failure	Vehicle stability failure	Stop using and refer to a local dealer
F14	Vehicle stability failure	Vehicle stability failure	Stop using and refer to a local dealer
F15	Vehicle stability failure	Vehicle stability failure	Stop using and refer to a local dealer
F16	Vehicle stability failure	Vehicle stability failure	Stop using and refer to a local dealer
F17	Vehicle stability failure	Vehicle stability failure	Stop using and refer to a local dealer
F18	Vehicle stability failure	Vehicle stability failure	Stop using and refer to a local dealer
F19	Vehicle stability failure	Vehicle stability failure	Stop using and refer to a local dealer
F20	Vehicle stability failure	Vehicle stability failure	Stop using and refer to a local dealer
F21	Vehicle stability failure	Vehicle stability failure	Stop using and refer to a local dealer
F22	Vehicle stability failure	Vehicle stability failure	Stop using and refer to a local dealer
F23	Vehicle stability failure	Vehicle stability failure	Stop using and refer to a local dealer
F24	Vehicle stability failure	Vehicle stability failure	Stop using and refer to a local dealer
F25	Vehicle stability failure	Vehicle stability failure	Stop using and refer to a local dealer
F26	Vehicle stability failure	Vehicle stability failure	Stop using and refer to a local dealer
F27	Vehicle stability failure	Vehicle stability failure	Stop using and refer to a local dealer
F28	Vehicle stability failure	Vehicle stability failure	Stop using and refer to a local dealer
F29	Vehicle stability failure	Vehicle stability failure	Stop using and refer to a local dealer
F30	Vehicle stability failure	Vehicle stability failure	Stop using and refer to a local dealer
F31	Vehicle stability failure	Vehicle stability failure	Stop using and refer to a local dealer
F32	Vehicle stability failure	Vehicle stability failure	Stop using and refer to a local dealer
F33	Vehicle stability failure	Vehicle stability failure	Stop using and refer to a local dealer
F34	Vehicle stability failure	Vehicle stability failure	Stop using and refer to a local dealer
F35	Vehicle stability failure	Vehicle stability failure	Stop using and refer to a local dealer
F36	Vehicle stability failure	Vehicle stability failure	Stop using and refer to a local dealer
F37	Vehicle stability failure	Vehicle stability failure	Stop using and refer to a local dealer
F38	Vehicle stability failure	Vehicle stability failure	Stop using and refer to a local dealer
F39	Vehicle stability failure	Vehicle stability failure	Stop using and refer to a local dealer
F40	Vehicle stability failure	Vehicle stability failure	Stop using and refer to a local dealer
F41	Vehicle stability failure	Vehicle stability failure	Stop using and refer to a local dealer
F42	Vehicle stability failure	Vehicle stability failure	Stop using and refer to a local dealer
F43	Vehicle stability failure	Vehicle stability failure	Stop using and refer to a local dealer
F44	Vehicle stability failure	Vehicle stability failure	Stop using and refer to a local dealer
F45	Vehicle stability failure	Vehicle stability failure	Stop using and refer to a local dealer
F46	Vehicle stability failure	Vehicle stability failure	Stop using and refer to a local dealer
F47	Vehicle stability failure	Vehicle stability failure	Stop using and refer to a local dealer
F48	Vehicle stability failure	Vehicle stability failure	Stop using and refer to a local dealer
F49	Vehicle stability failure	Vehicle stability failure	Stop using and refer to a local dealer
F50	Vehicle stability failure	Vehicle stability failure	Stop using and refer to a local dealer

Safety Notice

- Using a 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.07 to fully understand how to properly operate the vehicle.
- 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 to road conditions on rainy days, highway 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 drivers in front and behind.
- Do not use mobile phones or other electronic devices which may draw your attention while riding.
- Do not change lanes without signaling. Changing lanes is one of the leading causes of accidents. When you need to change lanes, remember to use the turn signal first. Always check for vehicles approaching from behind before changing lanes.

Installation Guide



Install the rearview mirror
Insert the rearview mirror into corresponding mounting hole.
Tighten the mirror clockwise.
Once it is screwed in all the way, adjust it to the desired position.
Use a wrench to tighten the nut clockwise and fix the rearview mirror in place. Installation complete.

Right-hand Combination Switch



Key and Remote Control



ARE YOU READY?

ATTENTION Inspect all vehicle components before riding. If any abnormality is found, inspect it immediately or seek professional assistance.

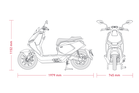
- Maintain both front and rear tire pressures at 250 kPa, or as indicated on the tire sidewall.
- Inspect tires for cracks, bulges, or abnormal wear. Check tire pressure on the sidewall. NIU reduces riding range and may lead to loss of control, tire blowouts, or accidents.
- Check the circumferential (if equipped) bracket in the seat compartment. Ensure it is securely in the front position.
- Check that the vehicle's accessories work properly.
- Check if the headlight, turn signals, and other lights function properly.
- Check if the horn works properly.
- Check if the brakes work properly. Ensure there is no looseness, excessive play binding, or stiffness when moving the handlebars in all directions (up, down, left, right, back, and forth).
- Check and ensure the rider can clearly see an area of 10m (length) by six (width) through the rearview mirrors.
- Ensure the battery charge is sufficient for your planned trip.

Start a Smooth Ride with Three Simple Steps.

Before riding, please refer to optional helmet and ensure the vehicle is powered on.



Basic Parameters



	FQiX 110	FQiX 200
Front/Rear Suspension	Hydraulic / Spring Preload Adj. Shock Absorber	
Front/Rear Brake	Disc / Disc	
Tyre Size (Front/Rear)	110/80-14	
Kerb Weight	100 kg	110 kg
Load Weight	150 kg	

Maintenance Record

Date	Mileage
Notes:	
Dealer / Service Center:	

Maintenance Record

Date	Mileage
Notes:	
Dealer / Service Center:	

Maintenance Record

Date	Mileage
Notes:	
Dealer / Service Center:	

技术说明：

1、材料(楞形\克重配比)：封面封底120g铜版纸，覆亚膜；内页68g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:

严禁更改任何图案和位置分布！

小牛电动 FQiX（2026）
说明书（英语）欧版 V1.1

物料编码

设计师
陈姝彤

设计时间
2026.05.20

数量
1

更改备注

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： ±2 mm
标签类： ±0.3 mm
说明书类： ±0.5 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