

MATRIX

Nexa - Enclosed Mobility



▲ Please read this manual carefully before riding

Preface

- Thank you for choosing Matrix Nexa!
- Before driving, please read the User's Manual carefully and do not drive until you understand the characteristics of this vehicle.
- If you want to transfer or give the vehicle to others, please attach this manual with the vehicle, because it is an important part of the vehicle;
- Do not modify the vehicle without permission. The modification will affect the safety performance of the vehicle, and will also violate the relevant national regulations. The performance degradation or failure of the vehicle caused by the modification will not be covered by the warranty and will no longer enjoy the "after-sale service".
- Please understand if the vehicle structure, configuration, parts, etc. are not reflected in this manual!
- We reserves the right to make changes without any notice, and any data, illustrations and descriptions in this manual will not be used as the basis for compensation,

If you have any questions to ask, this Electric Vehicle will serve you wholeheartedly.

- When you need to carry out regular maintenance or repair, please contact the authorized maintenance departments or dealers around the company. They know how to service your car best, and can also ensure that your car always maintains the best operating performance. If you have all kinds of mechanical technical knowledge and maintenance tools, local authorized dealers can provide you with spare parts catalogue and official spare parts to help you do all kinds of maintenance and repair work.

Reminder: For the sake of your family's happiness and driving safety, please obey the traffic rules, drive politely, and prohibit drunk driving, speeding and overloading.

Our company reserves the right of final explanation. I wish you a pleasant driving and thank you for purchasing the this electric vehicle!

Important considerations

* Vehicles are restricted to flat roads. If the technical specifications are changed, some pictures or contents of this Manual may be related to.

We appreciate your understanding that there are differences in the actual situation of the vehicles. We reserve the right of final explanation.

* Minors, patients with heart disease, patients with mental illness and special persons who are prohibited from driving vehicles as stipulated by the State shall not use them.

* Before you drive an electric car, you must do a good job of checking the brakes, tires, power, etc. before you use it.

* Vehicles are non-operating vehicles and should not be used by passengers.

Please read this manual carefully. Pay special attention to any sentence or paragraph marked with the following warning words.

Note: Note the section with “◆”

If you do not follow the instructions in the Manual of Use, you may injure people or damage parts.

Warning:

◆ Electric vehicles and appliances are strictly forbidden to enter water parts, especially controllers. Users should pay attention when cleaning vehicles. Speed up slowly when the vehicle starts.

◆ Charge a 60V vehicle when its power level shows 53V (or a 72V vehicle when its power level shows 63V); Otherwise, it will do a lot of damage to the accumulator. Car charging plug should not be touched by hand, otherwise it may cause injury to human body.

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I、Safe driving rules for vehicles

Safe driving rules

- 1、◆ Electric vehicles are only suitable for those who hold a driver's license or have received training and training. If you operate electric vehicles for the first time, please connect Supervised by trained technicians to avoid accidents.
- ※ Avoid driving under the conditions of dazzling lights, dead angle of sight and no vigilance at night.
- 2、◆ Fatigue driving is strictly prohibited.
- 3、◆ It is forbidden to drive the vehicle with the outside rearview mirror folded.
- 4、◆ Mobile phones or mobile phones are strictly prohibited during driving.
- 5、◆ Please adjust the seat to a position convenient for correct driving before driving.
- 6、◆ Drive with special care at road intersections, entrance and exit positions of parking lots and traffic lanes.
- 7、◆ Speeding is easy to cause accidents, so you should obey the speed regulations and never exceed the specified speed.
- 8、◆ Avoid driving on uneven roads, which may cause manipulation failure or body structure damage due to uneven roads.
- 9、◆ Before driving an electric vehicle, make sure to check before driving.
- 10、◆ Do not get too close to other motor vehicles during driving, do not race for the road, and strictly comply with local traffic regulations.

(Nexa)

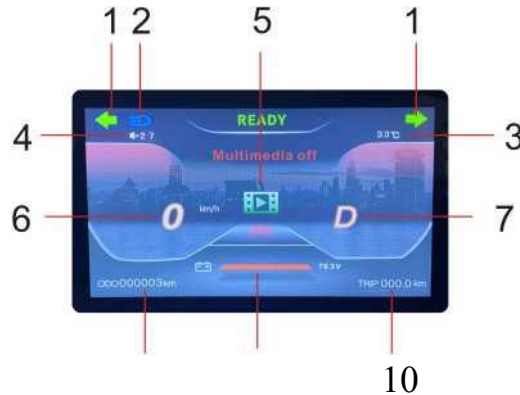


cornering lamp

Tigh beam light

Dipped headlight
Side marker lamp
(driving lamp)





(Figure1)

Instrument diagram (Figure 1)

- (1) Left and right turn indicators: When the turn signal button is turned, the left and right turn indicators will flash.
- (2) High and low beam indicator: When the dimmer switch is turned to the "0" position, the high and low beam indicator will light up. When the dimmer switch is turned to the "Multi D" position, the high and low beam indicators will not light up.
- (3) Temperature display lamp.
- (4) Volume adjustment indicator: adjust the volume.
- (5) Multimedia display.
- (6) Running speed display.
- (7) Gear display.

Neutral indication: When the switch button is in the "N" position, the gear indicator light "N" will be on.

Reverse indication: When the switch button is in the "R" position, the reverse indicator light "R" will be on.

Forward indication: When the switch button is in the "D" position, the forward indicator light "D" will be on.



- (8) Total mileage/(km): record the total mileage of the vehicle;
- (9) Power meter: when the switch lock is opened, the battery power is displayed;

Operating system name

Inspection before driving:

Before each driving, the vehicle shall be subject to a routine inspection to ensure good performance and safe driving.

Power display:

Turn the ignition switch and watch the power indicator position. When it is close to the red mark position, the vehicle should be charged.

Driving precautions

When turning the steering wheel, it is not allowed to turn the steering wheel too hard or turn sharply. Do not turn the steering wheel after the vehicle stops,

When driving on uneven roads, hold the steering wheel tightly with both hands; To prevent accidents due to uncontrolled steering.



Wiper

Spray



High and low beam lamps

Cornering lamp



Fog lamp
Warning light



Foot brake pedal
accelerator pedal

Adjustable seat (Figure 2)

- (1) Pull up the seat front and rear adjustment handle to adjust the seat front and rear position.
- (2) Pull up the backrest Angle adjustment handle to adjust the seat back Angle.



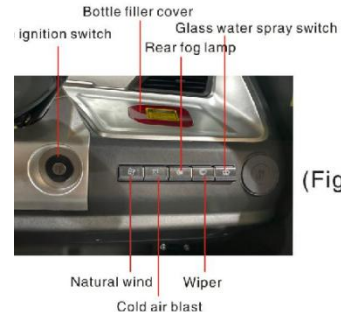
Back rest
Angle
adjustment

Front and rear
adjustment of
seats

(Figure2)

Ignition switch (Figure 3)

- (1) Open (ON) -switch twist to this position, can turn on the power supply,at this time, the car key can not be pulled out.
- (2) Turn off (OFF) -When the switch turns to this position, the power supply will turn off, turn the handle tube left to the extreme position and slightly from left to right. At the same time, twist the key switch to the (OF) position, then the lock core automatically locks the direction column, and the handle tube will be unable to rotate, which can play an anti-theft role.
- (3) The heater switch
- (4) Natural wind function switch



(Figure 3)

USB interface (Figure 4)

(1) USB interface, with an output current of 5V;

(2) Through this socket inserted U disk, can play music, movies, photos, etc. in the U disk.



(Figure 4)

USB接口

multimedia

Multimedia Use Guide (Figure 5)

To turn on or off multimedia, long press the multimedia function key for three seconds;

Press the multimedia function button to switch between video, pictures, music, radio, Bluetooth and other functions.



(Figure 5)

Bluetooth connection

Bluetooth connection, press the multimedia function key to switch to the Bluetooth channel, open the mobile phone Bluetooth search A0NEW device, click the connection



1. Parking handbrake (Figure 6)

Lock: pull up the parking lever, then the rear wheel lock the vehicle can not move.

2. **Unlock:** When the parking handbrake is in the locked state, hold the front button of the handbrake pull lever,

3. **Lift the rod gently, and then push the rod down to the bottom.**



(Figure 6)

Power-off switch (Figure 7)

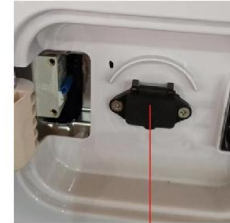
1. When the power-off switch is pressed down, the power switch has been closed and the car can be operated;
2. When the power-off switch is lifted down, the power switch has been disconnected, and the car cannot operate

(Also an anti-theft setting);;

Remote Control Switch (Figure 8)

The lock will open when the button 1, and the vehicle will open when the button 2;

(Figure 9)



Charger socket



(Figure

Charging interface (Figure 9)

1. When the instrument shows a low power level, the user needs to charge, open the flip cover of the charging port, and insert the external power supply into the charging port for charging;
2. The charging interface is only used for charging, and the power-on test drive is strictly prohibited;
3. Please forbidden for children to touch the positive and negative electrode interface with metal or hand to prevent electrical short circuit or skin burn;

(Figure 9)



Charger socket

Charger (Figure 10)

- (1) The charger with the stable quality and the matching model should be used for charging. The charger should have the protection functions such as overcharge, over current and overpressure.
- (2) When the charge is less than 80%, the red indicator will be on, and when the charge is 100%The green light is always on, which means that the power supply is fully charged.



(Figure 10)

Charging precautions:

- (1) The new car battery is not full state, the user needs to charge after driving, charging should pull off the key to pull the handbrake.
- (2) Each charging time is strictly prohibited to exceed 12 hours, the vehicle should be charged once a month when in used.
- (3) It is strictly prohibited to use a non-national standard charger to charge the vehicle. When charging, the charger should be placed in a well-ventilated position. It is strictly prohibited to charge in the stacked debris or flammable and explosive places.
- (4) It is strictly prohibited to charge indoors. Store the vehicle in the outdoor or open place when charging. No sundries or inflammable and explosive items are allowed around.
- (5) The ambient temperature when the battery is charged is appropriate to 1030 C, and maintain good ventilation.
- (6) Never use the charger on other vehicles to charge the whole vehicle.
- (7) Do not charge vehicles in wet rain areas.

Door lock (Figure 11)

Unlock the vehicle first. Click the remote control to unlock the key or insert the a with the key, turn right to unlock the door lock, and then open the handle b to open the door to open the door.



(Figure
11)

Window glass lift switch (Figure 12)

In the car, open the door handle 1,
The door can be opened; both sides of the
vehicle with electric lift adjustment, through
the glass lift switch 2 operation, press the button,
push the window down; pull up the button, the
window up



(Figure 12)

Sunroof snap drawing (Figure 13)

Open the sunroof buckle to allow for ventilation
from the front top of the ca



(Figure 13)

**Indoor rear window card snap
(Figure 14)**

Open the indoor rear window card
buckle for indoor ventilation

(Figure 14)



Driving operation:

Preparation before starting: open the vehicle parking lock, make sure that the power-off switch is in the figure closed state, insert the key into the ignition switch, and rotate

Go to the ON " position.

Turn the gear knob switch to "D" and lower the parking handbrake.

◆Warning: Special care should be taken when driving on wet or soft roads and under rainy conditions, whether for braking, acceleration or steering.

Note: 1. When driving down the slope, first release the accelerator pedal and use the front and rear wheel brakes to reduce the speed.

2, When the road slippery, curve, do not use the brake to step on the brake, so as not to cause accidents. .

Parking operation:

When parking, turn the gear knob switch to the "N" gear position, twist the ignition switch to the OFF position and pull up the parking pull rod;

◆Warning: Electric vehicles should be parked on hard and flat ground, otherwise, injuries or vehicle dumping.

Anti-theft points:

-Lock the door and pull the parking lever, never leave the car key in the ignition switch lock.

-Turn off the power-off switch when leaving;

-High-quality additional anti-theft devices shall be used;

◆warning:

. Tire (front wheel pressure: 280 KPa rear wheel pressure: 280 KPa) should be regularly checked the tire pressure and adjusted;

-The tire pressure can only be checked when the tire is cooled.

Should often check whether there are puncture holes on the tire, especially if the tire leakage phenomenon should be immediately repaired.

-Check the tire surface for scratches, embedded nails or other sharp objects. Check the rim for indentation, dents or deformation.

-When the tire is worn to the tread wear limit mark.

◆warning:

-If the tire pressure is not in standard, it will make the tire surface by too much wear and may lead to an accident. Too low tire pressure will cause the tire to slip around or take off the wheel rim;

The use of very worn tires is very dangerous, which will affect the adhesion between the tire and the road surface, resulting in driving difficulties and even accidents;;

III. Maintenance and maintenance

The maintenance period is based on the mileage, which is the guiding basis for the implementation of regular maintenance and lubrication. If it is driving at high speed for a long time under harsh conditions, the number of maintenance must be increased. If the electric vehicle has been overhauled or collided, it must carefully check the main parts of the electric vehicle and repair or replace the misplaced or damaged parts to ensure the safety of the vehicle. .

Maintenance method (Figure 18)

- ◆The rear axle gear oil should be replaced when the vehicle travels every 2,000 km.
- ◆ Open bolt 1 out of gear oil and tighten bolt 1, open bolt 2 to inject gear oil (85W / 90GL-4) about 150 mL, and then tighten the bolt 2 after refueling.



Figure 18

Note: In order to ensure the safety and reliability of electric vehicles, electric vehicles are not allowed to be modified. When repair or maintenance, replace our original parts or similar parts of equal quality. If other poor quality parts are used, it will affect the performance of the electric vehicles and the operation of the function;

Warning: In order to ensure the safety of personnel, regardless of any program maintenance work, must first turn off the power supply, park the car on the flat and hard ground and stable;

Attention:

(1) If the car is parked for more than a month or stopped during the winter, it is necessary to do a good job of maintenance to prevent tires and batteries

Such as deterioration, aging and corrosion;

(2) Unless the driver or the owner has a full set of repair tools and maintenance materials, and is qualified mechanical professionals, professionals should be asked to be responsible for maintenance and repair; from the safety perspective, we advocate that these items should be responsible for maintenance or repair by the maintenance department;

(3) If the vehicle is often driven in particularly wet or dusty areas, it is best to shorten the specified maintenance period;

(4) If often driving on the uneven road surface, in order to ensure the performance of the vehicle, please timely maintenance;

(1) Simple troubleshooting

fault phenomenon	failure cause	Solution
tire wear is uneven	Tire pressure is too low	Inlate to recommended pressure
The steering is inflexible and the direction swings	Direction column bearing lubricant solidification	Inject an appropriate amount, interslip oil
	Loss of lubricant at the chain	make-up oil
	The steering column is worn	Replace the steering cylinder
	Tire inflation pressure is uneven	Adjust the tire inflation pressure
	Turn the tube in the direction	Tighten the lock nut
	The steering string lock nut is loose	Tighten the lock nut
	Shimmy	Repair or replace the wheel
	Wheel nut loose	Tighten the nut
Braking deviation	Tire inflation pressure is uneven	Adjust the tire inflation pressure
	Unel braking force	Adjust the pull-off
The brake can't stop	Brake shoe block is severely worn	Replace the brake hoof
	Brake oil pipe oil leakage, the brake fluid is insufficient	Tighten the tubing joint after exhaust and add the brake fluid
	Brake shoe block and brake disc have oil or water	clean the brake

(2) Suspension and steering system

fault phenomenon	failure cause	Solution
Vehicles cannot drive	The key switch is in the OFF state or the gear knob is in neutral position	Rotate the key to the ON position Select the exercise direction of the shift switch
	The battery has no electricity	Recharge
	Battery wiring electrode is corroded or loose	Clean the corrosion site and tighten the link nut
	The key switch wire is loose or damaged	Connect the wire and repair the key switch
	The accelerator switch is damaged	replace the switch
	The power switch is not on	Turn on the power switch
	Drive motor failure	Check the fault site to repair or replace the parts
The speed is unstable	The parking pull lever is not lowered	Loosen the parking lever
	The accelerator pedal is damaged	Replace the accelerator pedal
The drive motor is abnormal sound	Drive motor bearing wear	Replace the bearing
	Motor damage	Repair the damaged parts or replace the motor
The battery cannot be charged	The charger is damaged	The charger is damaged
	Poor charger	Correctly plug the charger plug
	Battery damage	Replace the battery
	over discharge	Check or replace the storage battery

(3) electronic control system

fault phenomenon	fault phenomenon	Solution
Turn on the key switch power display, no display, no The contactor closes the sound	The key switch is broken	Repair or replacement
	The circuit connector is loose or open circuit	Tighten the joints or connect the wires
	The control circuit or the power-off switch is damaged	replace
	Battery polarity reverse	Exchange polarity
Turn on the key switch power display is working, The vehicle does not start	The handbrake lever is not return	Release the handbrake
	The shift knob is damaged	Check, repair and replacement
	Accelerator failure	Check the fault parts to repair or replace the parts
	contactor contact failure	Check the fault parts to repair or replace the parts
	Speed control controller fails	Check the fault parts to repair or replace the parts
	Drive motor failure	Check the fault parts to repair or replace the parts
Stop while walking on the vehicle	The controller is damp or drenched	Check, dry the controller
	The circuit overcurrent and overheat protection system is not activated	Check and remove whether the parking device has been fully opened Whether for a long time to carry, climbing, or replace the controller
	The circuit joint is loose	Tighten the joints and connect the wires
The vehicle starts and stops	battery of power	Charging the battery
	Drive motor failure	Deuteration, maintenance

Maintenance of the battery (as shown in Figure 16):

This model adopts closed lead-acid battery (no water added)

Note: The top cover of the closed lead-acid battery electrolyte is absolutely not allowed to be opened.

-When the vehicle is not in use for a long time, please remove the battery and store it in a cool, ventilated and dry place.

-When the head of the battery pile corroded, remove the battery and clean it.(With boiling water can be washed well.)

Note: when removing the battery, close the ignition switch, and then remove the negative electrode first, install the positive electrode first and then install the negative electrode, do not install the positive and negative electrode wrong.

Maintenance and maintenance of the hydraulic brake (please send it to the designated repair shop for maintenance) Figure 17

◆ When the vehicle travels every 2000 kilometers, the foot brake top rod nut for tightening, correction;

◆ Check the hydraulic oil of the refueling pot, and the oil storage amount of the refueling pot should not be less than 2 / 3 of the oil can;



Figure16



Figure17

IV、 Vehicle storage

Keep in storage:

-To store electric vehicles for a long time (for example in winter), several steps need to be taken to prevent any failure or damage caused by long-term unused electric vehicles. In addition, before preparing for storage, some maintenance work needs to be carried out, otherwise it is often forgotten when using the electric vehicle again.

-Replace the rear axle gear oil.

Cover the vehicle cover.

When using the electric vehicle from the storage:

Take the vehicle cover and clean the vehicle. If the storage time has been more than 4 months, the axle gear oil should be replaced.

-Charge immediately if necessary and then pack the battery.

Before driving, all parts should be checked, and first test drive the electric vehicle for a period of time in the unbusy traffic areas to ensure safety.

V、 Vehicle identification

Vehicle nameplate (Figure 15) shows:

The vehicle nameplate bracelet connects to the right side of the driver's bucket. It contains the frame number, model, brand, vehicle quality, motor model, maximum output power, rated voltage, loading quality, production date and other information. .

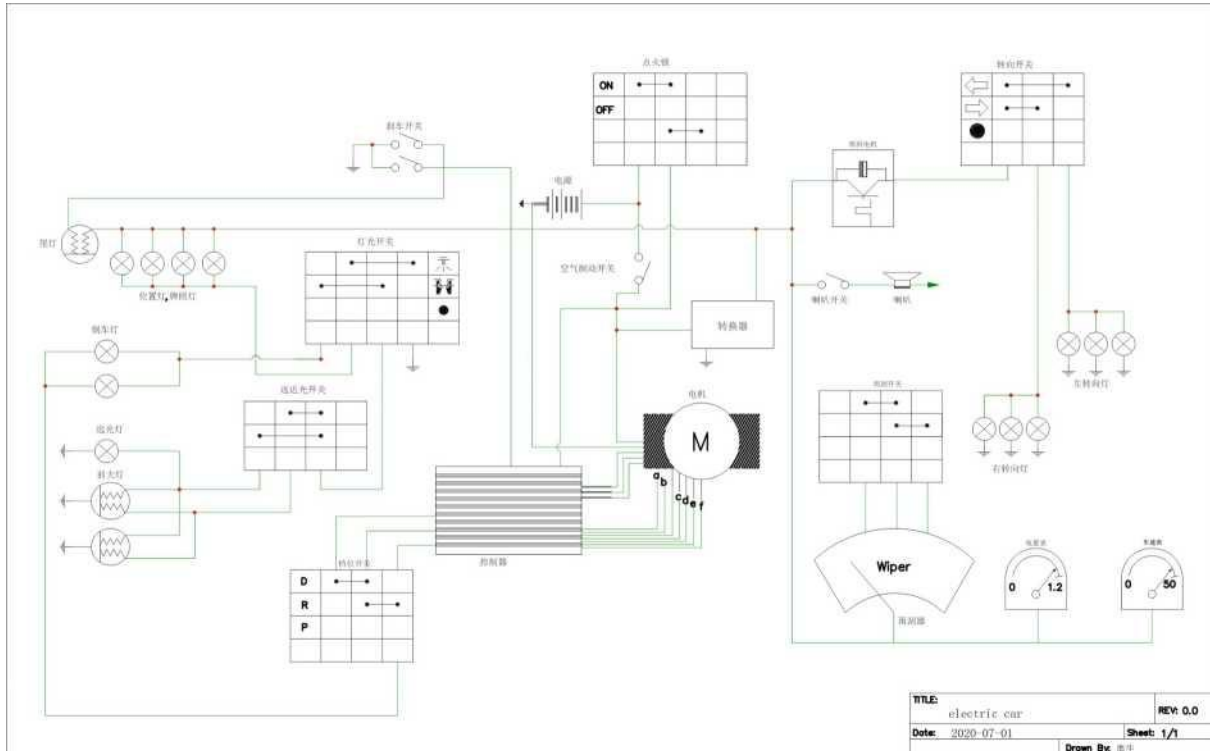


Figure15

When repairing and replacing spare parts, the above frame number shall be provided.

Frame number position: engraved under the rear seat

VI、Electrical schematic diagram



TITLE:	electric car	REV: 0.0
Date:	2020-07-01	Sheet: 1/1
Drawn By: 周华		